AGENDA
HIDALGO COUNTY
COMMISSIONERS COURT MEETING
November 19, 2013
9:30 A.M.

NOTICE is hereby given in accordance with Chapter 551, Texas Government Code, that a SPECIAL MEETING of the Commissioners' Court will be held at Edinburg Council Chambers, 415 W. University Drive, Edinburg, Hidalgo County, Texas. Discussion and possible action relating to the following business will be transacted:

1. **Roll Call**

2. **Pledge of Allegiance**

3. **Prayer**

4. **Approval of Consent Agenda**

5. **Open Forum**

6. **County Judge's Office:**

A. **AI-41491** Approval to process the following Xerox invoices as a claim with authority for County Treasurer to issue check after auditing procedures are completed by County Auditor.

Invoice Dates	Monthly Amt.	Total Amount
February - November 2013	233.10	$2,331.00

7. **Executive Officer - Valde Guerra:**

A. 1. Requesting exemption from competitive bidding requirements under the Texas Local Government Code, Section 262.024(A) (4) "a Professional Service" for the "provision of legal services/representation in connection with litigation."

2. Requesting engagement with the firm of _____ for the "Provision of Legal Services/Representation in connection with Litigation" and authority to submit letter of engagement

B. Presentation for discussion, consideration and action (if necessary) including, but not limited to the following:
1) Renovations to Former Administration Building 1st and 2nd Floors
2) Update on Courthouse Portable Building Project, other ongoing county owned building construction and renovation repair projects
3) Emergency situations occurring since last agenda meeting

C. **AI-41810** Executive Office:
Requesting approval to reimburse employee Estanislado Ramos, III the amount of $ 58.35 for fuel purchase made for county vehicle due to fuel card not working at the pump, with authority for County Treasurer to issue check after review and auditing procedures are completed by County Auditor

D. **AI-41706** Children's Advocacy Center d/b/a Estrella's House (1100):
1. Discussion, consideration, and action regarding funding request in the amount of $50,000.00 from the Children's Advocacy Center, d/b/a Estrella's House.
2. Discussion, consideration, and action on Declaration of Support to the Children's Advocacy Center, d/b/a Estrella's House.
3. Approval of 2013 appropriation of funds for the Child Advocacy Center in the amount of $50,000.00.
4. Approval to authorize County Treasurer to issue check in the amount of $50,000.00 to the Children's Advocacy Center d/b/a Estrella's House after review and processing procedures are completed by the County Auditor.

E. **AI-41837** Approval to authorize Valde Guerra, Executive Officer to sign documents pertaining to Right of Way (permits, closing statements, invoices, plats, etc.)

F. **AI-41846** 1. Approval of Hidalgo County Blood Drive on December 9, 2013 at the Hidalgo County Courthouse (10:30 am-3:00 pm)
2. Approval of 2014 Hidalgo County UBS Blood Drives at Hidalgo County Courthouse

8. **District Attorney's Office - Roy Cazares:**

A. **AI-41833** DA Border Prosecution Grant-BPU (1281):
1. Approval to accept the Border Prosecution Unit Grant in the amount of $230,000.00, effective 09/01/2013-08/31/2014.
2. Approval of certification of revenues for the BPU Grant.
3. Approval of appropriation of the BPU Grant funds.
4. Approval of the following personnel actions:

Action	Slot No.	Position Title	Current Budgeted Salary	Proposed Budgeted Salary

Salary Adjustment-Decrease	0001	Assistant District Attorney III	$80,500.00	$79,000.00
Salary Adjustment-Decrease	0004	Assistant District Attorney IV	$81,197.00	$78,000.00

5. Approval of Salary Schedule.

9. **Sheriff's Office:**

A. **AI-41849** DOJ - USMS - U.S. Marshal (1284):
1. Approval to accept overtime funding from the U.S. Department of Justice, U.S. Marshals Service for two (2) officers in the amount of $25,000.00.
2. Requesting authorization to pay overtime reimbursable under the grant terms and conditions.
3. Approval of Certification of Revenues as certified by the County Auditor for the DOJ-USMS funding.
4. Approval to appropriate funds in the amount of $25,000.00 for USMS overtime funding.

B. **AI-41796** Sheriff's Office - OCDETF (1284)
1. Approval of Organized Crime Drug Enforcement Task Forces (OCDETF) Agreement between the Hidalgo County Sheriff's Office and the Drug Enforcement Administration McAllen District Office/Houston Division Office OCDETF Strike Force Group D-81.
2. Approval of Certification of Revenues as certified by the County Auditor for the OCDETF Grant Contract.
3. Approval to appropriate OCDETF Grant Award in the amount of $15,800.00(in reference to Investigation Number SW-TXS-0910).

C. **AI-41585** State Criminal Alien Assistance Program (SCAAP) Grant:
Authorization and approval to accept the State Criminal Alien Assistance Program (SCAAP) 2013 Grant in the amount of $27,222.00

D. **AI-41639** Approval to process the following Superior Alarms invoices as claims with authority for County Treasurer to issue check after auditing procedures are completed by County Auditor.

Invoice#	**Date:**	**Amount:**
396607	05/01/2012	$180.00
457252	11/04/2013	$60.00

E. **AI-41640** Approval to process the following O'reilly Auto Parts invoices as claims with authority for County Treasurer to issue check after auditing procedures are completed by County Auditor.

Invoice#	Date:	Amount:
351189	1/30/2013	$78.99
394205	7/25/2013	$6.00
404688	9/10/2013	$192.68

10. **Health & Human Services Department - Eddie Olivarez**

A. **AI-41859** Update on activities of Employee Wellness Committee

B. **AI-41714** Pursuant to Chapter 465 Local Drug and Alcohol Education Programs, Sec.465.003, presentation on the Hidalgo County Health & Human Services Drug and Alcohol Abuse Advisory Commission's activities.

C. **AI-41647** Pursuant to Health & Safety Code Chapter 121, requesting approval to appoint Dr. Ivan Melendez, Medical Director, as the Hidalgo County Local Health Authority for the period of December 6, 2013 to December 5, 2015.

D. **AI-41643** 1. Requesting approval of the Certification of Revenue in the amount of $25,000.00. These funds are from the Tuberculosis program income projected to be collected during the fiscal year ending 08/31/14.

2. Requesting approval of the budget appropriation in the amount of $25,000.00.

E. **AI-41644** 1. Requesting approval of the Certification of Revenue in the amount of $106,712.55. Funds are from the Health & Human Services Commission - Medicaid Administrative Claiming reimbursement.

2. Requesting approval to appropriate the MAC budget in the amount of $106,712.55.

F. **Health Care Funding District:**

1. Discussion and/or action, including but not limited to Health Care Funding District and/or Expenditures

G. **Indigent Health Care Program:**

1. Discussion and/or action, including but not limited to Indigent Health Care Program and 1115 Waiver and/or Expenditures

11. **Urban County - Diana Serna:**

A. **AI-41623** Urban County Program on behalf of the City of Mercedes is requesting authority to purchase fire station equipment (dual band base stations and dual band radios) for the Mercedes Fire Department. Purchase will be made from Motorola (contract # RA05-12) an approved vendor through Hidalgo County's membership and participation with H-GAC. The total amount of purchase is $78,569.30 (quote attached) for the Mercedes Fire Department funded thru FY 26 (2013) Mercedes – Fire Station/Equipment line item.

B. **AI-41672** The Urban County Program is requesting the award of bids and approval of contracts for the demolition and reconstruction of the following:

1. (1) Unit in the City of Granjeno in the amount of $55,890.00 to Argo Construction, LLC.
2. (1) Unit in the City of Granjeno and (1) unit in the City of Mercedes in the amount of $72,850.00 to A-One Insulation

C. **AI-41771** Requesting approval of a program amendment for Hidalgo County Urban County Program for the City of Palmview, the proposed program amendment is for the Fiscal Year 25 (2012) work plan. The Program Amendment will include an additional street improvements project to allow for the completion of the Bentsen Palm Drive Bridge Project. The existing street improvement project will also be completed.

D. **AI-41773** 1. Requesting exemption from competitive bidding requirements under the Texas Local Government Code 262.024 (a)(4) for professional engineering services;

2. Presentation of the scoring grid for the purposes of ranking by CC of at least three (3) engineering firms from the County's approved "pool" as graded and evaluated by the City of San Juan, Urban County Program, and Hidalgo County Purchasing Department, in connection with and funded through Hidalgo County Urban County Program Year 26 (2013) San Juan Street Improvement funds.

Professional Service Firm	**Grade**	**Ranked**
Halff Associates, Inc.	95.34%	1
Cruz-Hogan Consultants, Inc.	94.34%	2
Javier Hinojosa Engineers	90.67%	3

3. Authority to negotiate a professional engineering service contract with the No. 1 ranked firm of
for the provision of architectural services for an Urban County Program Year 26 (2013) San Juan Street Improvements project.

12. **Colonia Access Program: Agapito Vargas:**

A. **AI-41805** 1. Approval to renew Border Colonia Access Program (BCAP) Financial Agreement.

2. Approval to revise correspondence dated 30th July 2013 and approved by CC on 6th August 2013. Revised letter will delete one (1) project and add eight (8) additional project for the final BCAP Financial Agreement.

Delete:
Blue Star Enterprises: (CSJ: 3C1080111)

Add:
Barbosa-Lopez No.3: (CSJ: 3C1080642)
Flora Subdivision: (CSJ: 3C1080270)
La Pampa: (CSJ: 3C1080394)
Martin: (CSJ: 3C1080894)
Southern Valley Estates: (CSJ: 3C10800691)
Las Fuentes: (CSJ: 3C1080411)
Havana Lomas No.4: (CSJ: 3C1080310)
Havana Lomas No.5: (CSJ: 3C1080311)

13. **Precinct #1 - Comm. Cuellar:**

A. **AI-41725** Resolution in Honor of Andy Veliz

14. **Precinct #2 - Comm. H. Palacios:**

A. **AI-41784** Requesting approval to submit application for Electricity Services with deposit and application fees in the amount of $125.00 for the new Botanical Greenhouse located at the San Juan CRC Center at 509 E. Earling Road, San Juan, TX, payable to Magic Valley Electric Cooperative, Inc., with authority for County Auditor to complete review and processing procedures and for County Treasurer to issue payment.

15. **Precinct #4 - Comm. J. Palacios:**

A. **AI-41845** Pct. #4- Misc. Reimbursements (1200):
1. Approval of Certification of Revenues as certified by the County Auditor for Pct. #4 Edinburg Effluent Line and Faysville Drain Project.

2. Approval of 2013 appropriation of funds for Pct. #4 Edinburg Effluent Line and Faysville Drain Project in the amount of $22,737.79 for labor, fuel, and equipment for pay periods 15 & 17 .

B. **AI-41840** Requesting authorization for survey metes & bounds for utility easement for Pct. #4 Motor Pool Project located at 1124 N. M Rd.

16. **Budget & Management - Sergio Cruz:**

A. **AI-41777** Discussion, consideration and approval to submit the Texas VINE Reimbursement Maintenance Invoice in the amount of $6,928.83 (First Qtr) and the Texas Statewide Automated Victim Notification Service (SAVNS) County Verification of Continuing Production Record with authority for County Judge to sign the required documents.

B. **AI-41836** Approval of rental payment from the General Fund in the amount of $11,250 for lease of office space (3304 W. Alberta Rd., Edinburg, TX) for the Urban County Program for the month of December 2013.

C. **AI-41848** 1. Approval of certification of revenues, as certified by the County Auditor, for proceeds from the sale of assets to Hidalgo County DD No.1

2. Approval of 2013 appropriation of funds in the total amount of $1,211,000.00 for the San Carlos Community Resource Center project.

17. **Purchasing Department - Marty Salazar:**
Notes:
A. FOR ANY CONTRACT(S) AWARDED AND APPROVED UNDER THIS AGENDA, EXECUTED COPIES OF THE CONTRACT(S) WILL BE AVAILABLE ON THE COUNTY INTRA-NET WEBSITE AND WILL BE FOWARDED VIA E-MAIL, FAX OR HAND DELIVERED TO HIDALGO COUNTY AUDITOR'S OFFICE.

B. ANY AND ALL REQUESTS FOR PAYMENT(S) APPROVED WILL BE SUBJECT TO COUNTY AUDITORS PROCESSING PROCEDURES INCLUDING AUTHORITY FOR COUNTY TREASURER TO ISSUE PAYMENT(S)/CHECK(S).

A. **Hidalgo County**

1. **AI-41858** Discussion and consideration with applicable action to procure the services of a consultant for the audit of billing/invoices from Hidalgo County's electric power providers (i.e. Reliant Energy, MVEC, CPL, Others);

2. **AI-40774** Human Resources Dept:
a. Acceptance and approval of the continuation of the Professional Services Agreement (reviewed and approved by legal counsel) between Hidalgo County Human Resources Department and i-Docket.com, LLC for the provision of the Sapphire Human Resource (HR)software package so as to assist Hidalgo County in providing efficient HR services county-wide including the continuation of services through the life term of the software package in place by the department user; and

b. Approval to pay as claims Invoices #285914 and 286922 in the amount of $300.00 each invoice with remaining month of December's invoice thru Requisition #245375 with next year's term of January-December of 2014 monthly billing thru the 2014 Adopted Budget thus allowing Human Resource Department to submit a requisition at that time.

3. **AI-41543** Presentation of tabulation for action by Commissioner's Court to award to multiple vendors that submitted the lowest and best bids (by category/item and meeting **all** specifications and requirements) with approval of contracts for "Janitorial Supplies, Industrial Chemicals & Supplies" for RFB 2013-147-10-09-YZV.

4. **AI-41256** Acceptance of the responses received as "qualified" for award for: "Title Company Services-POOL" (as listed in the RFP Acceptance Sheet attached hereto) and approval of the contract(s). (RFP No.: 2013-152-10-09-CGA)

B. Pct. 4

1. **AI-41828** Recommendation by project architect, Mata Garcia Architects, LLP, for Commissioners' Court to award the Base Bid with Alternates 1 and 3 to lowest bidder meeting all specifications, Couric Enterprises, LLC dba Foremost Construction in the total amount of $1,211,000.00 for the project: Hidalgo County Precinct No. 4 "Construction of a Community Resource Center in San Carlos" (Bid No. 2013-072A-11-06-MSS).

2. **AI-41793** A. Requesting approval of **"Clarification"** to caption a), b) & c) under **AI-41735 (approved by CC 11/12/13)**, to reflect for the purposes of negotiating a **"Professional ENGINEERING Services"** agreement and NOT "Surveying Services" for **JOB SPECIFIC PROJECT: FM 1925 (FM 907 - EAST OF SH 68)** within **HIDALGO COUNTY PRECINCT No. 4.**

B. Acceptance and approval of **Work Authorization No. 1** in the amount of (**$ 9,803.44**) submitted by L&G ENGINEERING LABORATORY contracted engineering firm for "professional laboratory services" or (On Call) "Construction Materials Testing" for projects located within Hidalgo County Precinct #4, under Contract# C-13-220-08-13 - **PROJECT: (CONSTRUCTION MATERIAL TESTING SERVICES FOR THE EMERGENCY SERVICES LINN-SAN MANUEL PROJECT).**

C. Requesting approval of the final negotiated professional services agreement# **C-13-281-11-19** with **LAZCAMREA, LLC** d/b/a **FULCRUM CONSULTING SERVICES** for the purposes of "Professional Engineering Services" for **JOB SPECIFIC PROJECT: WAREHOUSE FACILITY** at Hidalgo County Precinct No. 4.;

D. Acceptance and approval of **WORK AUTHORIZATION No. 1** in the amount of **($ 1,068.00)** submitted by **LAZCAMREA**, **LLC** d/b/a **FULCRUM CONSULTING SERVICES** contracted engineering firm for professional engineering services in connection to Contract# C-13-281-11-19 for JOB SPECIFIC PROJECT: WAREHOUSE FACILITY at Hidalgo County Precinct No. 4.

C. Sheriff's Office

1. **AI-41839** a. Action to amend the Sole Source Declaration (approved-CC-03/13/12-AI#31263) for Elections Department) with Environmental Systems Research Institute to add the Hidalgo County Sheriff's Office and any future applicable County elected offices, departments, programs or agencies including the purchase of any future hardware, software maintenance, technical support/updates/upgrades/licenses and any other pertinent related services under Environmental Systems Research Institute (ESRI);

   b. Approval for the continuation of the software maintenance services (detailed under background)with ending term of October 31, 2014 thru requsition #245642 for the amount of $4,000.00 and thereafter on yearly basis pursuant to the aforementioned line item through the life term use by department user including the signing of required document by County Judge, Court Member.

2. **AI-41651** Requesting authority to advertise and approval of procurement packet (specifications/plans, legal notice, etc) for "Hidalgo County Adult Detention Center and Law Enforcement Facility Repairs and/or Replacement" RFB #2013-133A-12-11-YSS.

18. **Closed Session:**
Commissioners' Court may go into Closed Session pursuant to Chapter 551, Texas Government Code, Sections 551.071 & 551.072 to discuss the following:

A. Real Estate Acquisition

B. Pending and/or potential litigation

C. **AI-41816** C-6392-13-I; San Juanita Saldana, et al v. Hidalgo County and Hidalgo County Elections Administrator

D. **AI-41860** Subrogation Claim against Juan Jose Prado and Erasmo Luna.

E. **AI-41779** Claim of Alfredo Elicerio

19. **Open Session:**

A. Real Estate Acquisition and appropriation for same

B. Pending and/or potential litigation

C. **AI-41817** C-6392-13-I; San Juanita Saldana, et al v. Hidalgo County and Hidalgo County Elections Administrator

D. **AI-41861** Subrogation Claim against Juan Jose Prado and Erasmo Luna.

E. **AI-41780** Claim of Alfredo Elicerio

20. **Closed Session:**
Commissioners' Court may reconvene into Closed Session for the discussion regarding the agenda items listed

21. **Open Session:**
Commissioners' Court may reconvene into Open Session for the discussion regarding the agenda items listed

22. **Adjourn**

AI-41491 **County Judge's Office 6. A.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: Jaime Longoria **Submitted By:** SANDRA DELEON, COUNTY JUDGE

Department: COUNTY JUDGE

Information

CAPTION

Approval to process the following Xerox invoices as a claim with authority for County Treasurer to issue check after auditing procedures are completed by County Auditor.

Invoice Dates	Monthly Amt.	Total Amount
February - November 2013	233.10	$2,331.00

BACKGROUND

Account # 3-1100-413-00-110-006-0-780

Attachments

Invoices

Oct invoice

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/14/2013 03:53 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: SANDRA DELEON Started On: 10/28/2013 01:48 PM

Final Approval Date: 11/15/2013

0064-003

Customer Information

XEROX CORPORATION
SEE COVER LETTER
FOR INQUIRY ADDRESS

THE EASY WAY TO ORDER SUPPLIES CALL OUR TOLL FREE NUMBER 1-800-822-2200

10083603
Purchase Order Number

C1080
Special Reference

ATTN ANGELA GARCIA

VTX00000X-000
Contract Number

NET 30 DAYS
Terms Of Payment

Telephone
Please Direct Inquiries To:

Ship To/Installed At:

HIIDALGO COUNTY
EMBRGENCY MGMT
302 W UNIVERSITY DR
EDINBURG TX
78539

Bill To:

(DAH)HIDALGO COUNTY
PURCHASING
281
2802 S BUSINESS HWY
EDINBURG TX
78539

02-01-13
Invoice Date

066292082
Invoice Number

712166636
Customer Number

5740PT WC5740 PRNTR/4TRAY SER.# XEK-498637
BASE CHARGE JANUARY 233.10

BASIC OFC FINISHER	SER.# BAS30FIN	INCL
4K SHT HIGH CAP FD	SER.# 4KHCF	INCL
	SUB TOTAL	233.10
	TOTAL	233.10

INVOICE FOR THE PERIODIC PAYMENT ON YOUR XEROX AGREEMENT
THIS AGREEMENT INCLUDES EQUIPMENT, MAINTENANCE AND SUPPLY CHARGES

Invoice

D U P L I C A T E

I N V O I C E

Payment

Detach and return Payment section with Payment

Contact Customer Service Department for Change of Address

Ship To/Installed At:

HIIDALGO COUNTY
EMBRGENCY MGMT
302 W UNIVERSITY DR
EDINBURG TX
78539

Bill To:

(DAH)HIDALGO COUNTY
PURCHASING
281
2802 S BUSINESS HWY
EDINBURG TX
78539

SEND PAYMENT TO:

XEROX CORPORATION
PO BOX 731892
DALLAS, TX
75373-1892

For Xerox Use Only

- - -OL052A-2751

07-461-7804 4 712166636 066292082 02-01-13
RF126907 C 020111
03 6R4B 06XR N 00000 2TC3 1 B15

PLEASE PAY THIS AMOUNT > $233.10
VTX85

202100008070060 0662920823 0300233106 271216663640

0064-004

xerox

Customer Information

XEROX CORPORATION
SEE COVER LETTER
FOR INQUIRY ADDRESS

THE EASY WAY TO ORDER SUPPLIES CALL OUR TOLL FREE NUMBER 1-800-822-2200

10083603 Purchase Order Number

C1080 Special Reference

ATTN ANGELA GARCIA

VTX00000X-000 Contract Number

Telephone
Please Direct Inquiries To:

NET 30 DAYS Terms Of Payment

Ship To/Installed At:
HIIDALGO COUNTY
EMBRGENCY MGMT
302 W UNIVERSITY DR
EDINBURG TX
78539

Bill To:
(DAH)HIDALGO COUNTY
PURCHASING
281
2802 S BUSINESS HWY
EDINBURG TX
78539

03-01-13 Invoice Date

066769711 Invoice Number

712166636 Customer Number

Invoice

5740PT WC5740 PRNTR/4TRAY SER.# XEK-498637

BASE CHARGE	FEBRUARY		233.10
METER USAGE	11-21-12 TO 02-21-13		
METER 1	101851 104198	2347	
PRINT CHARGES			
METER 1 PRINTS	2347		
LESS ALLOWANCE	60000		
NET BILLABLE PRINTS	0 .009100	.00	
TOTAL EXCESS PRINT CHARGES			.00
BASIC OFC FINISHER	SER.# BASOFIN		INCL
4K SHT HIGH CAP FD	SER.# 4KHCF		INCL
	SUB TOTAL		233.10
	TOTAL		233.10

INVOICE FOR THE PERIODIC PAYMENT ON YOUR XEROX AGREEMENT
THIS AGREEMENT INCLUDES EQUIPMENT, MAINTENANCE AND SUPPLY CHARGES
TOTAL OF INVOICE MAY VARY ACCORDING TO METER USAGE BILLED

DUPLICATE

INVOICE

Payment

Detach and return Payment section with Payment

Contact Customer Service Department for Change of Address

Ship To/Installed At:
HIIDALGO COUNTY
EMBRGENCY MGMT
302 W UNIVERSITY DR
EDINBURG TX
78539

Bill To:
(DAH)HIDALGO COUNTY
PURCHASING
281
2802 S BUSINESS HWY
EDINBURG TX
78539

SEND PAYMENT TO:
XEROX CORPORATION
PO BOX 731892
DALLAS, TX
75373-1892

For Xerox Use Only

\- - -OL052A-2752

PLEASE PAY THIS AMOUNT > $233.10

07-461-7804 4 712166636 066769711 03-01-13
RF101678 C 020111
03 6R4B 06XR N A7310 2TC3 1 115
VTX85

202100008070060 0667697111 0300233106 271216663642

0064-005

Customer Information

XEROX CORPORATION
SEE COVER LETTER
FOR INQUIRY ADDRESS

THE EASY WAY TO ORDER SUPPLIES CALL OUR TOLL FREE NUMBER 1-800-822-2200

10083603
Purchase Order Number

C1080
Special Reference

ATTN ANGELA GARCIA

VTX00000X-000
Contract Number

NET 30 DAYS
Terms Of Payment

Telephone
Please Direct Inquiries To:

Ship To/Installed At:

HIIDALGO COUNTY
EMBRGENCY MGMT
302 W UNIVERSITY DR
EDINBURG TX
78539

Bill To:

(DAH)HIDALGO COUNTY
PURCHASING
281
2802 S BUSINESS HWY
EDINBURG TX
78539

04-01-13
Invoice Date

067285172
Invoice Number

712166636
Customer Number

Invoice

5740PT WC5740 PRNTR/4TRAY SER.# XEK-498637
BASE CHARGE MARCH 233.10

BASIC OFC FINISHER	SER.# BAS3OFIN	INCL
4K SHT HIGH CAP FD	SER.# 4KHCF	INCL
	SUB TOTAL	233.10
	TOTAL	233.10

INVOICE FOR THE PERIODIC PAYMENT ON YOUR XEROX AGREEMENT
THIS AGREEMENT INCLUDES EQUIPMENT, MAINTENANCE AND SUPPLY CHARGES

D U P L I C A T E

I N V O I C E

Payment

Detach and return Payment section with Payment

Contact Customer Service Department for Change of Address

Ship To/Installed At:

HIIDALGO COUNTY
EMBRGENCY MGMT
302 W UNIVERSITY DR
EDINBURG TX
78539

Bill To:

(DAH)HIDALGO COUNTY
PURCHASING
281
2802 S BUSINESS HWY
EDINBURG TX
78539

SEND PAYMENT TO:

XEROX CORPORATION
PO BOX 731892
DALLAS, TX
75373-1892

For Xerox Use Only

- - -0L052A-2753

07-461-7804 4 712166636 067285172 04-01-13
RF110224 C 020111
03 6R4B 06XR N 00000 2TC3 1 B15

PLEASE PAY THIS AMOUNT > $233.10
VTX85

202100008070060 0672851720 0300233106 271216663644

0064-006

Customer Information

XEROX CORPORATION
SEE COVER LETTER
FOR INQUIRY ADDRESS

THE EASY WAY TO ORDER SUPPLIES CALL OUR TOLL FREE NUMBER 1-800-822-2200

10083603
Purchase Order Number

C1080
Special Reference

ATTN ANGELA GARCIA

VTX00000X-000
Contract Number

NET 30 DAYS
Terms Of Payment

Telephone
Please Direct Inquiries To:

Ship To/Installed At:

HIIDALGO COUNTY
EMBRGENCY MGMT
302 W UNIVERSITY DR
EDINBURG TX
78539

Bill To:

(DAH)HIDALGO COUNTY
PURCHASING
281
2802 S BUSINESS HWY
EDINBURG TX
78539

05-01-13
Invoice Date

067811914
Invoice Number

712166636
Customer Number

5740PT WC5740 PRNTR/4TRAY SER.# XEK-498637
BASE CHARGE APRIL 233.10

BASIC OFC FINISHER	SER.# BAS3OFIN	INCL
4K SHT HIGH CAP FD	SER.# 4KHCF	INCL
	SUB TOTAL	233.10
	TOTAL	233.10

INVOICE FOR THE PERIODIC PAYMENT ON YOUR XEROX AGREEMENT
THIS AGREEMENT INCLUDES EQUIPMENT, MAINTENANCE AND SUPPLY CHARGES

Invoice

D U P L I C A T E

I N V O I C E

Payment

Detach and return Payment section with Payment

Contact Customer Service Department for Change of Address

Ship To/Installed At:

HIIDALGO COUNTY
EMBRGENCY MGMT
302 W UNIVERSITY DR
EDINBURG TX
78539

Bill To:

(DAH)HIDALGO COUNTY
PURCHASING
281
2802 S BUSINESS HWY
EDINBURG TX
78539

SEND PAYMENT TO:

XEROX CORPORATION
PO BOX 731892
DALLAS, TX
75373-1892

For Xerox Use Only

- - -0L052A-2754

07-461-7804 4 712166636 067811914 05-01-13
RF111971 C 020111
03 6R4B 06XR N 00000 2TC3 1 B15

PLEASE PAY THIS AMOUNT > $233.10
VTX85

202100008070060 0678119141 0300233106 271216663648

0064-007

Customer Information

XEROX CORPORATION
SEE COVER LETTER
FOR INQUIRY ADDRESS

THE EASY WAY TO ORDER SUPPLIES CALL OUR TOLL FREE NUMBER 1-800-822-2200

10083603
Purchase Order Number

C1080
Special Reference

ATTN ANGELA GARCIA

VTX00000X-000
Contract Number

NET 30 DAYS
Terms Of Payment

Telephone
Please Direct Inquiries To:

Ship To/Installed At:

HIIDALGO COUNTY
EMBRGENCY MGMT
302 W UNIVERSITY DR
EDINBURG TX
78539

Bill To:

(DAH)HIDALGO COUNTY
PURCHASING
281
2802 S BUSINESS HWY
EDINBURG TX
78539

06-01-13
Invoice Date

068322538
Invoice Number

712166636
Customer Number

Invoice

5740PT WC5740 PRNTR/4TRAY SER.# XEK-498637

BASE CHARGE MAY			233.10
METER USAGE	02-21-13 TO 05-21-13		
METER 1	104198 108185	3987	
PRINT CHARGES			
METER 1 PRINTS	3987		
LESS ALLOWANCE	60000		
NET BILLABLE PRINTS	0 .009100	.00	
TOTAL EXCESS PRINT CHARGES			.00
BASIC OFC FINISHER	SER.# BASICFIN		INCL
4K SHT HIGH CAP FD	SER.# 4KHCF		INCL
SUB TOTAL			233.10
TOTAL			233.10

INVOICE FOR THE PERIODIC PAYMENT ON YOUR XEROX AGREEMENT
THIS AGREEMENT INCLUDES EQUIPMENT, MAINTENANCE AND SUPPLY CHARGES
TOTAL OF INVOICE MAY VARY ACCORDING TO METER USAGE BILLED

DUPLICATE

INVOICE

Payment

Detach and return Payment section with Payment — Contact Customer Service Department for Change of Address

Ship To/Installed At:

HIIDALGO COUNTY
EMBRGENCY MGMT
302 W UNIVERSITY DR
EDINBURG TX
78539

Bill To:

(DAH)HIDALGO COUNTY
PURCHASING
281
2802 S BUSINESS HWY
EDINBURG TX
78539

SEND PAYMENT TO:

XEROX CORPORATION
PO BOX 731892
DALLAS, TX
75373-1892

For Xerox Use Only

\- - -0L052A-2755

PLEASE PAY THIS AMOUNT > $233.10

07-461-7804 4 712166636 068322538 06-01-13
RF114942 C 020111
03 6R4B 06XR N A7310 2TC3 1 115
VTX85

202100008070060 0683225381 0300233106 271216663640

0064-008

Customer Information

XEROX CORPORATION
SEE COVER LETTER
FOR INQUIRY ADDRESS

THE EASY WAY TO ORDER SUPPLIES CALL OUR TOLL FREE NUMBER 1-800-822-2200

10083603
Purchase Order Number

C1080
Special Reference

ATTN ANGELA GARCIA

VTX00000X-000
Contract Number

NET 30 DAYS
Terms Of Payment

Telephone
Please Direct Inquiries To:

Ship To/Installed At:

HIIDALGO COUNTY
EMBRGENCY MGMT
302 W UNIVERSITY DR
EDINBURG TX
78539

Bill To:

(DAH)HIDALGO COUNTY
PURCHASING
281
2802 S BUSINESS HWY
EDINBURG TX
78539

07-01-13
Invoice Date

068799907
Invoice Number

712166636
Customer Number

5740PT	WC5740 PRNTR/4TRAY	SER.# XEK-498637	
	BASE CHARGE	JUNE	233.10
	BASIC OFC FINISHER	SER.# BAS30FIN	INCL
	4K SHT HIGH CAP FD	SER.# 4KHCF	INCL
		SUB TOTAL	233.10
		TOTAL	233.10

INVOICE FOR THE PERIODIC PAYMENT ON YOUR XEROX AGREEMENT
THIS AGREEMENT INCLUDES EQUIPMENT, MAINTENANCE AND SUPPLY CHARGES

Invoice

D U P L I C A T E

I N V O I C E

Payment

Detach and return Payment section with Payment

Contact Customer Service Department for Change of Address

Ship To/Installed At:

HIIDALGO COUNTY
EMBRGENCY MGMT
302 W UNIVERSITY DR
EDINBURG TX
78539

Bill To:

(DAH)HIDALGO COUNTY
PURCHASING
281
2802 S BUSINESS HWY
EDINBURG TX
78539

SEND PAYMENT TO:

XEROX CORPORATION
PO BOX 731892
DALLAS, TX
75373-1892

For Xerox Use Only

\- - -OL052A-2756

07-461-7804 4 712166636 068799907 07-01-13

RF097194 C 020111

03 6R4B 06XR N 00000 2TC3 1 B15

PLEASE PAY THIS AMOUNT > $233.10

VTX85

202100008070060 0687999073 0300233106 271216663648

0375-006

Customer Information

XEROX CORPORATION
PO BOX 660502
DALLAS TX
75266

THE EASY WAY
TO ORDER SUPPLIES
CALL OUR TOLL
FREE NUMBER
1-800-822-2200

10083603
Purchase Order Number

C1080
Special Reference

VTX00000X-000
Contract Number

NET 30 DAYS
Terms Of Payment

xerox

Telephone 888-435-6333
Please Direct Inquiries To:
Ship To/Installed At:

HAIDALGO COUNTY
JUDGES OFFICE
1615 S CLOSNER BLVD
EDINBURG TX
78539

Bill To:

COUNTY OF HIDALGO
PURCHASING DEPT
2802 S US HWY 281
EDINBURG TX
78539

08-01-13
Invoice Date

069366724
Invoice Number

712166636
Customer Number

Invoice

5740PT	WC5740 PRNTR/4TRAY	SER.# XEK-498637	
			AMOUNT
BASE CHARGE		JULY	233.10
BASIC OFC FINISHER		SER.# BAS30FIN	INCL
4K SHT HIGH CAP FD		SER.# 4KHCF	INCL
		SUB TOTAL	233.10
		TOTAL	233.10

INVOICE FOR THE PERIODIC PAYMENT ON YOUR XEROX AGREEMENT
THIS AGREEMENT INCLUDES EQUIPMENT, MAINTENANCE AND SUPPLY CHARGES

Goods/services Received by:
Invoice Received by:
_____ on _____
Purchase Order #: _____
Acct# _-1100-413-00-110-006-0_____

RECEIVED
AUG 08 2013
COUNTY JUDGE

XEROX FEDERAL IDENTIFICATION #16-0468020

Payment

PLEASE INCLUDE THIS STUB WITH YOUR PAYMENT, OR WRITE YOUR INVOICE NUMBER(S) ON YOUR CHECK.

Ship To/Installed At
HAIDALGO COUNTY
JUDGES OFFICE
1615 S CLOSNER BLVD
EDINBURG TX
78539

Bill To
COUNTY OF HIDALGO
PURCHASING DEPT
2802 S US HWY 281
EDINBURG TX
78539

When Paying By Mail
Send Payment To:
XEROX CORPORATION
PO BOX 731892
DALLAS, TX
75373-1892

☐ Please check here if your "Bill To" address or "Ship To/Installed At" location has changed and complete reverse side.

Invoice Amount

07-461-7804 4 712166636 069366724 08-01-13 PLEASE PAY THIS AMOUNT $233.10
RF113724 C 020111 VTX85
03 6R4B 06XR N 00000 2TC3 1 B15

202100008070060 069366724 3 0300233106 271216663646

0394-010

xerox

Customer Information

XEROX CORPORATION
PO BOX 660502
DALLAS TX
75266

THE EASY WAY
TO ORDER SUPPLIES
CALL OUR TOLL
FREE NUMBER
1-800-822-2200

10083603
Purchase Order Number

C1080
Special Reference

VTX00000X-000
Contract Number

NET 30 DAYS
Terms Of Payment

Telephone 888-435-6333
Please Direct Inquiries To:

Ship To/Installed At:
HAIDALGO COUNTY
JUDGES OFFICE
1615 S CLOSNER BLVD
EDINBURG TX
78539

Bill To:
COUNTY OF HIDALGO
PURCHASING DEPT
2802 S US HWY 281
EDINBURG TX
78539

09-01-13
Invoice Date

069870693
Invoice Number

712166636
Customer Number

Invoice

5740PT WC5740 PRNTR/4TRAY SER.# XEK-498637

				AMOUNT
BASE CHARGE	AUGUST			233.10
METER USAGE	05-21-13 TO 08-21-13			
METER 1	108185 111146	2961		
PRINT CHARGES				
METER 1 PRINTS	2961			
LESS ALLOWANCE	60000			
NET BILLABLE PRINTS	0	.009100	.00	
TOTAL EXCESS PRINT CHARGES				.00
BASIC OFC FINISHER	SER.# BAS30FIN			INCL
4K SHT HIGH CAP FD	SER.# 4KHCF			INCL
SUB TOTAL				233.10
TOTAL				233.10

INVOICE FOR THE PERIODIC PAYMENT ON YOUR XEROX AGREEMENT
THIS AGREEMENT INCLUDES EQUIPMENT, MAINTENANCE AND SUPPLY CHARGES
TOTAL OF INVOICE MAY VARY ACCORDING TO METER USAGE BILLED

XEROX FEDERAL IDENTIFICATION #16-0468020

Payment

PLEASE INCLUDE THIS STUB WITH YOUR PAYMENT, OR WRITE YOUR INVOICE NUMBER(S) ON YOUR CHECK.

Ship To/Installed At
HAIDALGO COUNTY
JUDGES OFFICE
1615 S CLOSNER BLVD
EDINBURG TX
78539

Bill To
COUNTY OF HIDALGO
PURCHASING DEPT
2802 S US HWY 281
EDINBURG TX
78539

When Paying By Mail Send Payment To:
XEROX CORPORATION
PO BOX 731892
DALLAS, TX
75373-1892

☐ Please check here if your "Bill To" address or "Ship To/Installed At" location has changed and complete reverse side.

Invoice Amount

PLEASE PAY
THIS AMOUNT $233.10

07-461-7804 4 712166636 069870693 09-01-13
RF113336 C 020111 VTX85
03 6R4B 06XR N A7310 2TC3 1 115

202100008070060 0698706932 0300233106 2712166636 48

No checks?
No stamps? No time?
No problem!

Make this the last check payment you send by mail.

With Xerox's online billing service, you can view invoices and make payments quickly and easily via the Web. It's a fast and convenient way to save you time and money because it reduces costs by eliminating check and mailing expenses. Online billing also streamlines your payment process by minimizing the manual distribution of invoices for sign-off. And it enables control over payment processes by letting you schedule payments on the date you choose. Best of all, the service is FREE.

Log on to www.xerox.com/eipp to register for our suite of online payment services.

Xerox Federal Identification #16-0468020

© 2004 XEROX CORPORATION. All rights reserved. XEROX, The Document Company, and the digital X are trademarks of XEROX CORPORATION.

Billing Address / Equipment Location Change: PLEASE PRINT

Change of Billing Address

New Billing Address:
Street: _____
City: _____
State: _____
Zip Code: _____
Accts Pay. Contact: _____
Accts Pay. Tel#: _____

☐ Total Company Relocation

Change of Equipment Ship-To Location

Serial Number: ☐☐☐☐☐☐☐☐☐

Please check one of the boxes:

☐ Same as New Billing Address
☐ Equipment Ship-To Location Has NOT changed
☐ New Equipment Location:

Street: _____
City: _____
State: _____
Zip Code: _____
County: _____

For equipment location changes of multiple units, please call the number at the top-front of this invoice. EDI/EFT Inquiries can be made at: www.xerox.com/accountmanagement

2278-001

Customer Information

XEROX CORPORATION
PO BOX 660502
DALLAS TX
75266

THE EASY WAY TO ORDER SUPPLIES CALL OUR TOLL FREE NUMBER 1-800-822-2200

10083603
Purchase Order Number

C1080
Special Reference

VTX00000X-000
Contract Number

NET 30 DAYS
Terms Of Payment

Telephone 888-435-6333
Please Direct Inquiries To:
Ship To/Installed At:

HIIDALGO COUNTY
EMBRGENCY MGMT
302 W UNIVERSITY DR
EDINBURG TX
78539

Bill To:
2278-001
(DAH)HIDALGO COUNTY
PURCHASING
281
2802 S BUSINESS HWY
EDINBURG TX
78539

10-01-13
Invoice Date

070359426
Invoice Number

712166636
Customer Number

Invoice

5740PT WC5740 PRNTR/4TRAY SER.# XEK-498637

		AMOUNT
BASE CHARGE	SEPTEMBER	233.10
BASIC OFC FINISHER	SER.# BAS30FIN	INCL
4K SHT HIGH CAP FD	SER.# 4KHCF	INCL
	SUB TOTAL	233.10
	TOTAL	233.10

INVOICE FOR THE PERIODIC PAYMENT ON YOUR XEROX AGREEMENT
THIS AGREEMENT INCLUDES EQUIPMENT, MAINTENANCE AND SUPPLY CHARGES

XEROX FEDERAL IDENTIFICATION #16-0468020

Payment

PLEASE INCLUDE THIS STUB WITH YOUR PAYMENT. OR WRITE YOUR INVOICE NUMBER(S) ON YOUR CHECK.

Ship To/Installed At
HIIDALGO COUNTY
EMBRGENCY MGMT
302 W UNIVERSITY DR
EDINBURG TX
78539

Bill To
(DAH)HIDALGO COUNTY
PURCHASING
281
2802 S BUSINESS HWY
EDINBURG TX
78539

When Paying By Mail
Send Payment To:
XEROX CORPORATION
PO BOX 731892
DALLAS, TX
75373-1892

☐ Please check here if your "Bill To" address or "Ship To/Installed At" location has changed and complete reverse side.

Invoice Amount

PLEASE PAY
THIS AMOUNT $233.10

07-461-7804 4 712166636 070359426 10-01-13
RF096568 C 020111 VTX85
03 6R4B 06XR N 00000 2TC3 1 B15

202100008070060 0703594266 0300233106 271216663648

2363-001

Customer Information

XEROX CORPORATION
PO BOX 660502
DALLAS TX
75266

THE EASY WAY TO ORDER SUPPLIES CALL OUR TOLL FREE NUMBER 1-800-822-2200

10083603
Purchase Order Number

C1080
Special Reference

VTX00000X-000
Contract Number

NET 30 DAYS
Terms Of Payment

Telephone888-435-6333
Please Direct Inquiries To:
Ship To/Installed At:

HIIDALGO COUNTY
EMBRGENCY MGMT
302 W UNIVERSITY DR
EDINBURG TX
78539

Bill To:
2363-001
(DAH)HIDALGO COUNTY
PURCHASING
281
2802 S BUSINESS HWY
EDINBURG TX
78539

11-01-13
Invoice Date

070904859
Invoice Number

712166636
Customer Number

Invoice

5740PT WC5740 PRNTR/4TRAY SER.# XEK-498637

		AMOUNT
BASE CHARGE	OCTOBER	233.10
BASIC OFC FINISHER	SER.# BAS30FIN	INCL
4K SHT HIGH CAP FD	SER.# 4KHCF	INCL
	SUB TOTAL	233.10
	TOTAL	233.10

INVOICE FOR THE PERIODIC PAYMENT ON YOUR XEROX AGREEMENT
THIS AGREEMENT INCLUDES EQUIPMENT, MAINTENANCE AND SUPPLY CHARGES

XEROX FEDERAL IDENTIFICATION #16-0468020

Payment

PLEASE INCLUDE THIS STUB WITH YOUR PAYMENT, OR WRITE YOUR INVOICE NUMBER(S) ON YOUR CHECK.

Ship To/Installed At
HIIDALGO COUNTY
EMBRGENCY MGMT
302 W UNIVERSITY DR
EDINBURG TX
78539

Bill To
(DAH)HIDALGO COUNTY
PURCHASING
281
2802 S BUSINESS HWY
EDINBURG TX
78539

When Paying By Mail
Send Payment To:
XEROX CORPORATION
PO BOX 731892
DALLAS, TX
75373-1892

☐ Please check here if your "Bill To" address or "Ship To/Installed At" location has changed and complete reverse side.

Invoice Amount

07-461-7804 4 712166636 070904859 11-01-13 PLEASE PAY THIS AMOUNT $233.10
RF112283 C 020111 VTX85
03 6R4B 06XR N 00000 2TC3 1 B15

202100008070060 0709048592 0300233106 271216663644

AI-41810 **Comm. Court Executive Office 7. C.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted By: Monica Badillo,
EXECUTIVE OFFICE

Department: EXECUTIVE OFFICE

Information

CAPTION

Executive Office:
Requesting approval to reimburse employee Estanislado Ramos, III the amount of $ 58.35 for fuel purchase made for county vehicle due to fuel card not working at the pump, with authority for County Treasurer to issue check after review and auditing procedures are completed by County Auditor

BACKGROUND

3-1100-413-00-125-001-0-626

Attachments

backup

Form Review

Inbox	Reviewed By	Date
Purchasing Department	Obdett Calzada	11/14/2013 04:08 PM

Form Started By: Monica Badillo Started On: 11/13/2013 03:54 PM

Final Approval Date: 11/14/2013

HIDALGO COUNTY AUDITOR'S OFFICE
HIDALGO COUNTY, TEXAS

PURCHASE AFFIDAVIT

THE STATE OF TEXAS

COUNTY OF HIDALGO

I, RAMOS, ESTANISLADO III, do hereby state that the item(s) listed on the invoice(s) named below
PURCHASER'S NAME
were purchased for the exclusive use of Hidalgo County:

INVOICE NO.	DATE	AMOUNT	NAME OF COMPANY
1021693	11/13/13	$58.35	Stripes

TOTAL $58.35

I further state that I was authorized to make such a purchase(s).

I therefore request reimbursement of this invoice (these invoices) from Hidalgo County and that payment be made payable to me.

SIGNATURE: _____ 3-1100-413-00-125-001-0626

TITLE: Adm. Oper. Coordinator IV
PERSON MAKING PURCHASE

Before me Monica Badillo, a Notary Public, appeared Estanislado Ramos III and on his oath deposed and stated that the foregoing facts as set forth in the above request for expense reimbursement are true and correct in every respect. He / S further stated he / s requested payment of the same.

(SEAL) MONICA BADILLO NOTARY PUBLIC STATE OF TEXAS EXPIRES 04-21-2015

_____
NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS

_____
APPROVAL: DEPARTMENT HEAD

_____
APPROVAL: COUNTY AUDITOR

COUNTY AUDITOR'S FORM: MCJR-CA-004
REVISED: 01/01/2001

Stripes # 9137
1218 E. Canton
Edinburg, TX

www.susser.com

TP48570511-001 STRIPES 9137
1218 E CANTON RD
EDINBURG TX 78

Descr.	qty	amount
UNLD CA #09	20.128G	58.35
SELF @ 2.899/ G		
Subtotal		58.35
Tax		0.00
TOTAL		**58.35**
CASH	$	100.00
Change	$	-41.65

THANKS, COME AGAIN
Diesel fuel contains up to 5.0%
biodiesel or renewable diesel
-state diesel tax $0.19 per gallon
ST# 9137 TILL XXXX OR# 1 TRAN# 1021693
CSH: 23 11/13/13 08:47:36

Xerox WorkCentre 7346
Banner Sheet

lauro.torres

Date & Time : 04/17/2013 08:46 AM

User Name :

lauro.torres

File Name : Microsoft Word - Executi

Start Page

AI-41706 **Comm. Court Executive Office 7. D.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted By: Monica Badillo,
EXECUTIVE OFFICE

Department: EXECUTIVE OFFICE

Information

CAPTION

Children's Advocacy Center d/b/a Estrella's House (1100):
1. Discussion, consideration, and action regarding funding request in the amount of $50,000.00 from the Children's Advocacy Center, d/b/a Estrella's House.
2. Discussion, consideration, and action on Declaration of Support to the Children's Advocacy Center, d/b/a Estrella's House.
3. Approval of 2013 appropriation of funds for the Child Advocacy Center in the amount of $50,000.00.
4. Approval to authorize County Treasurer to issue check in the amount of $50,000.00 to the Children's Advocacy Center d/b/a Estrella's House after review and processing procedures are completed by the County Auditor.

BACKGROUND

Funds are available in fund balance in the amount of $288,736.51 - Acct. # 2-1100-255-02-000-002-0-000

FOR INFORMATIONAL PURPOSES:
Have not received funds this year; Letter to request funds to be forthcoming (at the end of October) as per State Comptrollers' Office.

Funds in the amount of $_____in relation to the FY 2012 unclaimed capital credits from electric coops were deposited at the County Treasurer's office on _____;

Funds request to State Comptroller's office for the unclaimed capital credits for FY 2012 was approved by CC on _____.
- Revenue Acct #3-1100-360-00-000-000-0-000

Fiscal Impact

FISCAL YEAR: 2013 **ACCT. #:** 3-1100-444-20-125-019-0-843

FUNDS AVAILABLE Y/N?: **MATCHING FUNDS Y/N?:**

BUDGETARY IMPACT:

2013 Appropriation of funds in the amount of $50,000

Attachments

request
legal
Budget amendment
declaration

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/07/2013 10:25 AM
Manuel Chapa	Manuel Chapa	11/15/2013 11:03 AM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Monica Badillo Started On: 11/06/2013

Final Approval Date: 11/15/2013

CHILDREN'S ADVOCACY CENTER OF HIDALGO COUNTY, INC.

525 W. Wisconsin Rd. • Edinburg, Texas 78539 • Phone (956) 287-9754 • Fax (956) 287-9764

WWW.CACHIDALGO.ORG

"BREAKING THE CYCLE OF ABUSE, ONE CHILD AT A TIME"

Executive Officers:

Tina Martin, President
Lorena Castillo, Vice-President
Miguel Villarreal, Treasurer
Karen Griffin Munoz, Secretary

Hidalgo County Board Members:

Bobby Garcia, Past President
Sandra Garcia
Sheriff Guadalupe Trevino
Magdalena G. Hinojosa, ADA
Dr. Carolina G. Huerta
Betzabel Guerra
Ricardo "Rick" Guerrero
Linda Kosteniko
Stephanie Cassity
Catherine A. Dorman
Dr. Mary Margaret Gutierrez
Jessica Ann Galloso

Starr County Board Members:

Omar Escobar, DA
Alonzo Alvarez

Executive Director:
Victoria Y. Medina

May 21, 2013

Honorable Ramon Garcia
Hidalgo County Judge
2818 S Bus. Hwy. 281
Edinburg, TX 78539

RE: 381.004 (f) of the Local Government Code

Dear Judge:

It is that time of year when the Children's Advocacy Center (CAC) requests funding assistance from appropriate sources. We are reaching out to you for consideration. Section 381.004 (f) of the Local Government Code: states ***"The commissioners' court of a county may support a Children's Advocacy Center that provides services to abused children."*** Last year, commissioners' court supported the center in the amount of **$50,000.** We are requesting the same level of funding for this year, 2013.

This funding if awarded along with other funding allows the CAC, a community-based nonprofit, to continue meeting the needs of child abuse victims by providing child forensic interviews conducted by trained interviewers, medical examinations, mental health/counseling services, victim support and advocacy, and case review using a multidisciplinary team. We work in collaboration with law enforcement, Child Protective Services, and the District Attorney's Office to coordinate a quick response and provide needed services to the victim and non-offending family members of Hidalgo County. We see 85 to 100 new cases each month. Since 2001, the CAC has seen over 13,000 children.

Studies show that abused children who get early professional assistance are more likely to succeed in dealing and coping with the trauma of abuse and do better later in their adult lives. With early intervention, we can help break the cycle of abuse and, more importantly, significantly increase a child's chances of becoming a healthy adult, a good parent, and a citizen that is able to positively contribute back to the community.

We are formally requesting funding support from Funding Source 381.004 of the Local Government Code or other appropriate funding sources in the amount of $50,000, the same level as last year.

Should you have any questions regarding this matter, please feel free to call me at (956) 287-9754. On behalf of the Board of Directors, we thank you for your time, your consideration and your support.

Respectfully,

Victoria Medina
Executive Director

RECEIVED
OFFICE OF EXECUTIVE OFFICER
ON: 5/24/13 BY:

Our Mission is to reduce the emotional trauma to child abuse victims by facilitating a multidisciplinary approach, which supports the prevention of child abuse through community education and promotes the effective prosecution of those who perpetrate crimes against children.

Zimbra **monica.badillo@co.hidalgo.tx.us**

RE: declaration of support - plz review

From : Josephine L. Ramirez <josephine.ramirez@da.co.hidalgo.tx.us> Thu, Nov 07, 2013 10:19 AM
Subject : RE: declaration of support - plz review
To : 'Monica Badillo' <monica.badillo@co.hidalgo.tx.us>
Reply To : josephine ramirez <josephine.ramirez@da.co.hidalgo.tx.us>

Monica,

I approve the form of the agreement.

Thanks,

Josephine Ramirez Solis
Assistant Criminal District Attorney
County Affairs Section
Office of Criminal District Attorney
Hidalgo County, Texas
100 N Closner Rm 303
Edinburg, TX 78539
(956) 318-2313 ext. 3823
(956) 318-2079 FAX
josephine.ramirez@da.co.hidalgo.tx.us

****
The information contained in this e-mail may be 1.SUBJECT TO THE ATTORNEY-CLIENT PRIVILEGE; 2.ATTORNEY WORK PRODUCT; and/or 3.CONFIDENTIAL. It is intended only for the individual or entity designated above. Any distribution, copying, or use of or reliance upon the information contained in this e-mail by or to anyone other than the recipient designated above by the sender is unauthorized and strictly prohibited. **IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE ADVISE THE SENDER BY REPLY E-MAIL TO josephine.ramirez@da.co.hidalgo.tx.us AND DELETE THE COMMUNICATION.**
****

From: Monica Badillo [mailto:monica.badillo@co.hidalgo.tx.us]
Sent: Wednesday, November 06, 2013 4:58 PM
To: josephine ramirez
Subject: declaration of support - plz review

Hi Josie,
This is the same as last year; please review/approve.
Thanks,
Monica Badillo, Court Administrator
Hidalgo County Executive Office
2818 S. Bus. Hwy. 281
Edinburg, Texas 78539
(956) 292-7655 ext. 5602
(956) 292-7034 (fax)

DATE: November 6, 2013

DEPARTMENT HEAD: Valde Guerra

DEPARTMENT NAME: Childrens Advocacy Center

ACCOUNT NUMBER: 3-1100-444-20-125-019-0

Contact Person: M.Badillo **Ph#** 5602

2013
Appropriation

SUBJECT: **Budget Amendments** (increase (decrease)) in accordance with Local Government Code, Chapter 111, § 111.070, Item C (2).

Honorable Commissioners' Court of Hidalgo County:

I would like to request the following Budget Amendments (increase (decrease)) in accordance with Local Government Code, Chapter 111, § 111.070, Item C (2).

INCREASE ACCOUNT NUMBER(S)	ACCOUNT (OBJECT) NAME	AMOUNT
3-1100-444-20-125-019-0-843	Childrens Advocacy Ctr Aid to Nongovt Agency	50,000.00
	TOTAL BUDGET INCREASE (DECREASE)	$ 50,000.00

REASON: To fund request for funding for the Children's Advocacy Center d/b/a Estrella's House. **Note: Monies are to be unreserved by Auditor's office from acct #3-1100-255-02-000-002-0-000 "F/B-Restricted for Economic Development".**

DEPARTMENT HEAD SIGNATURE

APPROVED COMMISSIONERS' COURT

/ /
DATE

ATTEST COUNTY CLERK

THE STATE OF TEXAS §
§
COUNTY OF HIDALGO §

Declaration of Support to the
Children's Advocacy Center of Hidalgo County
by the County of Hidalgo, Texas

Whereas, the Children's Advocacy Center of Hidalgo County, d/b/a Estrella's House ("Estrella's House"), has requested that Hidalgo County (the "County") support its efforts to help abused children in the county;

Whereas, child abuse is recognized as a national significant problem and as such Estrella's House has been created in accordance with Texas Family Code Chapter 264;

Whereas, Local Government Code Section 381.004 (e) and (f) permit the Commissioners' Court of a county to support a children's advocacy center that provides services to abused children from unclaimed property monies received from the Texas Comptroller of Public Accounts as described in Local Government Code Section 381.004 (e); and

Whereas, Hidalgo County has found it is in the best interest of the County's residents to support Estrella's House by providing funds as allowed by Local Government Code Section 381.004.

Pursuant to Local Government Code Chapter 381, the Commissioners' Court of Hidalgo County, Texas (the "County") does hereby tender to Estrella's House, located at 525 W. Wisconsin, Edinburg, Texas, the amount of fifty thousand dollars ($50,000.00). The amount tendered to Estrella's House is to be used only for the furtherance of the purposes set forth below:

- To access victims of child abuse and their families to determine their needs of services relating to the investigation of child abuse.
- To provide services determined to be needed.
- To provide a facility at which a multidisciplinary team appointed under Texas Family Code Section 264.406 can meet to facilitate the efficient and appropriate disposition of child abuse through the civil and criminal justice systems.
- To coordinate the activities of governmental entities relating to child abuse investigations and delivery of services to child abuse victims and their families.

Estrella's House agrees to allow the County Auditor or his representatives the right, upon reasonable notice, to review and audit all books and records of Estrella's House.

Estrella's House, by the acceptance of this monetary support, warrants and represents that this support shall be held, administered, and used in accordance with all the terms and conditions in this instrument.

Passed and Approved on this the 12th day of November, 2013 by the Commissioners' Court of Hidalgo County, Texas.

HIDALGO COUNTY

_____
Ramon Garcia, County Judge

ATTEST:

_____
Arturo Guajardo, Jr., County Clerk

CHILDREN'S ADVOCACY CENTER OF HIDALGO COUNTY

_____
By: Victoria Medina
Its: Executive Director

APPROVED AS TO FORM:
DISTRICT ATTORNEY'S OFFICE

_____
By: Josephine R. Solis, Asst. D.A.

AI-41837 **Comm. Court Executive Office 7. E.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted By: Monica Badillo,
EXECUTIVE OFFICE

Department: EXECUTIVE OFFICE

Information

CAPTION

Approval to authorize Valde Guerra, Executive Officer to sign documents pertaining to Right of Way (permits, closing statements, invoices, plats, etc.)

BACKGROUND

authority given on 3/26/13 in Joe Pena's absence; but he has now retired from the county.

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/14/2013 04:13 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Monica Badillo Started On: 11/14/2013

Final Approval Date: 11/15/2013

AI-41846 **Comm. Court Executive Office 7. F.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted By: Monica Badillo,
EXECUTIVE OFFICE

Department: EXECUTIVE OFFICE

Information

CAPTION

1. Approval of Hidalgo County Blood Drive on December 9, 2013 at the Hidalgo County Courthouse (10:30 am-3:00 pm)
2. Approval of 2014 Hidalgo County UBS Blood Drives at Hidalgo County Courthouse

BACKGROUND

Attachments

email request

insurance

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/15/2013 09:13 AM
Glinda Pacheco	Glinda Pacheco	11/15/2013 01:59 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Monica Badillo Started On: 11/14/2013 04:22 PM

Final Approval Date: 11/15/2013

Zimbra **monica.badillo@co.hidalgo.tx.us**

for court on tuesday

From : Karina Cardoza <karina.cardoza@co.hidalgo.tx.us> Thu, Nov 14, 2013 03:29 PM
Subject : for court on tuesday 1 attachment
To : monica badillo <monica.badillo@co.hidalgo.tx.us>

- Approval of Hidalgo County Blood Drive on December 9, 2013 at the Hidalgo County Courthouse
- Approval of 2014 Hidalgo County UBS Blood Drives at Hidalgo County Courthouse

(**Please use the liability insurance that was provided previously/this week. I believe Jackie emailed it to you).

Thank you!
--

Karina Cardoza, Director, Public Affairs Division
Office of Hidalgo County Judge Ramon Garcia
THE COUNTY OF HIDALGO, TEXAS
302 W. University Drive
Edinburg, Texas 78539
p 956.292.7026
f 956.292.7766
e karina.cardoza@co.hidalgo.tx.us
w www.co.hidalgo.tx.us

Follow our social media feed at www.co.hidalgo.tx.us/followus

From : Richard Pinon <RPinon@bloodsystems.org> Tue, Nov 12, 2013 09:17 AM
Subject : Blood Drives
To : karina cardoza <karina.cardoza@co.hidalgo.tx.us>

Dear Mrs. Cardoza,

Thank you so much for all you do in the RGV to save lives. It's commited individuals that help supply the Community Blood Program and I am grateful for all your efforts at Hidalgo County Courts.

The last blood drive of the year for Hidalgo Co. Courts is tentative for :

December 9, 2013
Blood Mobile at the Court Grounds

Blood Mobile at the Court Grounds
10:30 – 3:00pm

The following are tentative blood drives for the 2014 year:

March 12, 2014

May 14, 2014

August 13, 2014

December 17, 2014

Thank you for presenting these dates and getting them approved.

Sincerely,

Richard Pinon
Donor Recruitment Representative
United Blood Services - Rio Grande
1400 S. 6th St. McAllen, TX. 78501
(956)213-7519 office
(956)213-7549 Fax
rpinon@bloodsystems.org
Find the Hero in You
Donate Blood 3 Times a Year

AI-41833 **District Attorney 8. A.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted By: Roy Cazares, DISTRICT ATTORNEY

Department: DISTRICT ATTORNEY

Information

CAPTION

DA Border Prosecution Grant-BPU (1281):
1. Approval to accept the Border Prosecution Unit Grant in the amount of $230,000.00, effective 09/01/2013-08/31/2014.
2. Approval of certification of revenues for the BPU Grant.
3. Approval of appropriation of the BPU Grant funds.
4. Approval of the following personnel actions:

Action	Slot No.	Position Title	Current Budgeted Salary	Proposed Budgeted Salary
Salary Adjustment-Decrease	0001	Assistant District Attorney III	$80,500.00	$79,000.00
Salary Adjustment-Decrease	0004	Assistant District Attorney IV	$81,197.00	$78,000.00

5. Approval of Salary Schedule.

BACKGROUND

Funding provided through a State grant. No cash match is required. Provides funding for 2 Asst. DAs that assist local law enforcement agencies with questions on criminal cases. One of the prosecutors is classifed as a Regional Prosecutor and his region consist of the counties of Duval, Jim Wells, Kleberg, JIm Hogg, Brooks, Kenedy, Starr, Willacy, Cameron & Hidalgo.

Fiscal Impact

FISCAL YEAR: SEE BELOW **ACCT. #:** 3-1281-412-00-080-012-4-XXX

FUNDS AVAILABLE Y/N?: YES **MATCHING FUNDS Y/N?:** NO

BUDGETARY IMPACT:

NO MATCH REQUIRED.

GRANT FISCAL YEAR: 2014

Attachments

DABPUawardltr
salary schedule
par forms
FISCAL NOTE
revised

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/14/2013 04:10 PM
Rosalinda Cantu	Rosie Cantu	11/15/2013 02:08 PM
Obdett Calzada	Obdett Calzada	11/15/2013 04:30 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Roy Cazares Started On: 11/14/2013 11:31 AM

Final Approval Date: 11/15/2013

State of Texas
Office of the Governor
Criminal Justice Division

Rick Perry
Governor

October 23, 2013

Mr. Ramon Garcia
Hidalgo County Judge
PREVIEW - Hidalgo County - PREVIEW -
Hidalgo County Courthouse, 100 N. Closner, Room 303
Edinburg, Texas 78539-3563

Dear Judge Garcia:

Congratulations on your award! To activate your agency's grant, the Authorized Official must log on to eGrants at https://eGrants.governor.state.tx.us and go to the 'My Home' tab. In the 'Project Status' column, locate the application that is in 'Pending Acceptance of Award' status. Click on the grant number and proceed to the 'Accept Award' tab. From this tab, click on the 'Accept' button. Grants must be accepted within 45 calendar days of the date the award was issued.

Be sure to review the attached memo for a quick overview of general items every grantee should be aware of. You can also find more detailed information on the eGrants website including helpful resources, links, and tools needed to properly administer CJD grants. The Guide to Grants, also on the website, contains answers to questions frequently asked by grantees. The Public Policy Research Institute (PPRI) at Texas A&M University will send a detailed information packet to the Project Director containing progress reporting forms and instructions on completing and submitting those forms.

If you have any questions regarding this award, feel free to contact your grant manager, whose name is referenced in the attached Statement of Grant Award or you may always contact our office via the eGrants Help Desk at eGrants@governor.state.tx.us.

We look forward to working with you to ensure the success of your program.

Christopher Burnett
Executive Director

OFFICE OF THE GOVERNOR
CRIMINAL JUSTICE DIVISION

STATEMENT OF GRANT AWARD

Grant Number:	SF-14-A10-25378-03	**CFDA or State ID:**	00.421
Program Fund:	SF-State Criminal Justice Planning (421) Fund		
Grantee Name:	PREVIEW - Hidalgo County - PREVIEW -		
Project Title:	CH-Border Prosecution Unit		
Grant Period:	09/01/2013 - 08/31/2014		
Liquidation Date:	11/29/2014		
Date Awarded:	October 23, 2013		
CJD Grant Manager:	Helen Martinez		

CJD Award Amount:	$230,000.00
Grantee Cash Match:	$0.00
Grantee In Kind Match:	$0.00
Total Project Cost:	$230,000.00

The Statement of Grant Award is your official notice of award from the Governor's Criminal Justice Division (CJD). The approved budget is reflected in the Budget/Details tab for this record in eGrants. The grantee agrees to comply with the provisions of the Governor's Criminal Justice Division's rules in Title I, Part I, Chapter 3, Texas Administrative Code in effect on the date the grant is awarded. By clicking on the 'Accept' button within the 'Accept Award' tab, the grantee accepts the responsibility for the grant project and agrees with the following conditions of grant funding. The grantee's funds will not be released until the grantee has satisfied the requirements of the following Condition(s) of Funding and Other Fund-Specific Requirement(s), if any, cited below:

Condition(s) of Funding and Other Fund-Specific Requirement(s):

1

State of Texas
Office of the Governor
Criminal Justice Division

Rick Perry
Governor

Memorandum

To:	CJD Grant Recipients
From:	Aimee Snoddy, Deputy Director
Contact:	(512) 463-1919
Re:	Grantee Responsibilities
Date Awarded:	October 23, 2013

Congratulations on your grant award from Governor Rick Perry's Criminal Justice Division (CJD). It is important to make you aware of a few things to consider as you implement strategies to successfully manage your program. For more information and resources, refer to the Grant Resources section of eGrants available online at https://eGrants.governor.state.tx.us.

Financial Reporting – Financial Status Reports must be submitted to CJD via eGrants. Financial Status Reports may be submitted monthly but must be submitted at least quarterly. Financial Status Reports are due after each calendar quarter, regardless of when the grant was awarded. Due dates are:

April 22 (January-March quarter)
July 22 (April-June quarter)
October 22 (July-September quarter)
January 22 (October-December quarter)

The final Financial Status Report must be submitted to CJD on or before the grant liquidation date or funds will lapse and CJD will provide them as grants to others who need the funding.

Payment Authorization – Payments will be generated based on expenditures reported in the Financial Status Reports. Upon CJD approval of the Financial Status Report, a payment will be issued through direct deposit or electronic transfer.

Generated Program Income – Any income generated as a direct result of the grant activities must be reported to CJD through the Financial Status Report and grant adjustment processes. Program income must be used to offset project costs unless prior approval is granted allowing a supplement to project costs. Program income must be expended prior to seeking payments from CJD and must be accounted and used for the purposes of the grant activities as awarded.

Grant Funded Personnel – Staff whose salaries are supported by this award must be made aware that continued funding is contingent upon the availability of appropriated funds as well as the outcome of the annual application review conducted by CJD.

Project Changes – Grantees may submit a request for grant adjustment via eGrants for any proposed budgetary or programmatic changes, including updating contact information for grant officials.

Equipment – Equipment purchased with grant funds must be used for the purpose of the grant and as approved by CJD. An inventory report must be kept on file containing all equipment purchased with any grant funds during the grant period. This report must agree with the approved grant budget and the final Financial Status Report.

Fidelity Bond – Each nonprofit corporation receiving funds from CJD must obtain and have on file a blanket fidelity bond that indemnifies CJD against the loss or theft of the entire amount of grant funds, including matching funds. The fidelity bond should cover at least the CJD grant period.

Required Notifications – Grantees must immediately notify CJD in writing of any misappropriation of funds, fraud, theft, embezzlement, forgery, or any other serious irregularities indicating noncompliance with grant requirements. Grantees must notify the local prosecutor's office of any possible criminal violations. Grantees must immediately notify CJD in writing if a project or project personnel become involved in any litigation, whether civil or criminal, and the grantee must immediately forward a copy of any demand notices, subpoenas, lawsuits, or indictments to CJD. If a federal or state court or administrative agency renders a judgment or order finding discrimination by a grantee based on race, color, national origin, sex, age, or handicap, the grantee agrees to immediately forward a copy of the judgment or order to CJD.

Project Effectiveness – Grantees should regularly evaluate the effectiveness of their projects. This includes a reassessment of project activities and services to determine whether they continue to be effective. Grantees must show that their activities and services effectively address and achieve the project's stated purpose.

Programmatic Reporting – Grantees must submit required reports regarding grant information, performance, and progress towards goals and objectives in accordance with the instructions provided by CJD, or its designee. To remain eligible for funding, the grantee must be able to show the scope of services provided and the impact and quality of those services.

Monitoring – Grantees must readily make available to the Governor's Office or its agents all requested records. The Governor's Office may make unannounced monitoring visits at any time. The grantee must make every effort to resolve all issues, findings, or actions identified within the time frame specified by the Governor's Office.

Audit Requirements – Grantees expending over $500,000 in state or federal grant funds during the fiscal year are subject to the Single Audit requirements set forth in OMB Circular No. A 133 at http://www.whitehouse.gov/omb/circulars/index.html and the State Single Audit Circular issued under the Uniform Grant Management Standards (UGMS) at http://www.governor.state.tx.us/grants/what/. Grantees must electronically submit to the Governor's Office copies of the results of any single audit conducted in accordance with OMB Circular No. A-133 at http://www.whitehouse.gov/omb/circulars/index.html or in accordance with the State Single Audit Circular issued under UGMS, within 30 calendar days after the grantee receives the audit results or nine months after the end of the audit period, whichever is earlier.

Supplanting – Awarded funds must be used to supplement existing funds for program activities and not replace (supplant) funds that have been appropriated for the same purpose. Grant monitors and auditors will look for potential supplanting during reviews. Violations may result in a range of penalties, including suspension of future funds, suspension or debarment from receiving federal or state grants, recoupment of monies provided under the grant, and civil or criminal penalties. Refer to the Guide to Grants at https://eGrants.governor.state.tx.us/updates.aspx for additional information on supplanting.

Conflict of Interest – Grantees should have in place established safeguards to prohibit employees from using their positions for a purpose that is, or gives the appearance of being motivated by a desire for private gain for themselves or others, particularly those with whom they have family, business, or other ties.

Contracting and Procurement – Grantees must follow their established policy and best practices for procuring goods or services with grant funds. Contracts must be routinely monitored for delivery of services or goods. When contractual or equipment procurement is anticipated to be in excess of $100,000, grantees must submit a Procurement Questionnaire https://eGrants.governor.state.tx.us/updates.aspx to CJD for approval prior to procurement.

Travel – Grantees must follow their established policies and good fiscal stewardship related to travel expenses. If the grantee does not have established policies regarding in-state and out-of-state travel, grantee must use the travel guidelines established for state employees.

Uniform Crime Reporting – Local units of governments receiving funds from CJD must comply with all requirements for uniform crime reporting and must ensure that prompt reporting will remain current throughout the grant period.

Criminal History Reporting - Entities receiving funds from CJD must comply with all requirements outlined in the Texas Code of Criminal Procedure, Ch. 60, related to maintaining and reporting criminal history records.

Limited English Proficiency – Grantees must take reasonable steps to ensure that persons with limited English proficiency have meaningful access to services. Meaningful access may entail providing language assistance services, including oral and written translation when necessary. Additional information on this requirement can be found at http://www.lep.gov.

Law Enforcement Programs – Law enforcement programs receiving funds from CJD must be in compliance with all rules developed by the Texas Commission on Law Enforcement Officer Standards and Education.

28 C.F.R. Part 23 Training - Any grant funded individual responsible for entering information into or retrieving information from an intelligence database must complete continuing education training on operating principles described by 28 C.F.R. Part 23 at least once for each continuous two-year period the person has primary responsibility for entering data into or retrieving data from an intelligence database.

Programs Approved to Pay Overtime for Personnel - Overtime is allowable to the extent that it is included in the CJD approved budget, the grantee agency has an overtime policy approved by its governing body, and both grant-paid and non-grant paid personnel are treated the same with regards to the application of overtime policy(ies). In addition, in no case is dual compensation allowable. That is, an employee of a grantee agency may not receive compensation for hours worked (including paid leave) from his/her agency AND from an award for a single period of time, even though such work may benefit both activities. Overtime payments issued outside of these guidelines are the responsibility of the grantee agency.

Cancellation for Awards - Grantees must take reasonable steps to commence project activities upon receiving notice of a grant award:

> **Commencement Within 60 Days.** If a project is not operational within 60 days of the original start date of the award period or grant award date as noted on this memorandum, whichever is later, the grantee must report by letter to CJD the steps taken to initiate the project, the reasons for delay, and the expected revised start date.

Commencement Within 90 Days. If a project is not operational within 90 days of the original start date of the award period or grant award date as noted on this memorandum, whichever is later, the grantee must submit a second statement to CJD explaining the implementation delay. Upon receipt of the 90-day letter, CJD may cancel the project and redistribute the funds to other project areas. CJD may also, where extenuating circumstances warrant, extend the implementation date of the project past the 90-day period.

Public Information Requests - Grantees must immediately notify and provide a copy to CJD of any Public Information Request received by the agency related to this grant award.

Prohibited Acts of Agencies and Individuals - Grant funds may not be used in connection with the following acts by agencies or individuals employed by grant funds:

- Grant funds may not be used to finance or otherwise support the candidacy of a person for an elected local, state, or federal office. This prohibition extends to the direct or indirect employment of a person to perform an action described by this subsection. In addition, grant-funded or grant-leased motor vehicles may not be used for the purpose described above.
- Grant officials or grant funded employees may not use official authority or influence or permit the use of a program administered by the grantee agency of which the person is an officer or employee to interfere with or affect the result of an election or nomination of a candidate or to achieve any other political purpose.
- Grant funded employees may not coerce, attempt to coerce, command, restrict, attempt to restrict, or prevent the payment, loan, or contribution of anything of value to a person or political organization for a political purpose.
- Grantees must comply with the federal Hatch Act (5 U.S.C. §§ 1501- 1508) which restricts the political activity of some state and local employees who work in connection with federally funded programs. Covered state and local employees may not: 1) be candidates for public office in a partisan election; 2) use official authority or influence to interfere with or affect the results of an election or nomination; or, 3) directly or indirectly coerce contributions from subordinates in support of a political party or candidate.

Employment of a Lobbyist - Grant funds may not be used to employ, as a regular full-time or part-time or contract employee, a person who is required by Chapter 305 of the Government Code to register as a lobbyist. Furthermore, grant funds may not be used to pay, on behalf of the agency or an officer or employee of the agency, membership dues to an organization that pays part or all of the salary of a person who is required by Chapter 305 of the Government Code to register as a lobbyist.

Legislative Lobbying - Grant funds may not be used to attempt to influence the passage or defeat of a legislative measure.

Use of Alcoholic Beverages - Grant funds may not be used to compensate an officer or employee who uses alcoholic beverages on active duty. In addition, grant funds may not be used to purchase an alcoholic beverage or to pay or reimburse a travel expense that was incurred for an alcoholic beverage.

HIDALGO COUNTY
COMMISSIONER COURT
2013 SALARY SCHEDULE

3-1281-412-00-080-012 ~~3~~ 4

AI - 41833

DA BORDER PROSECUTION INTIATIVE

Slot #	Obj Code	POSITION TITLE	2012 BUDGETED SALARY	2013 ADJUSTED SALARY	2013 BASE SALARY	% Inc.	AMOUNT INCREASE	OTHER INCREASE	2013 BUDGETED SALARY APPROVED	2013 ACTUAL SALARY	Other Allowances				
											Longevity 115	Interpet. 116	Supplem. 117	Auto A. 118	Clothing 119
		BUDGETED SALARY DECREASE	→					17,764.00	79,000.00						
0001	113	ASSISTANT DISTRICT ATTORNEY III	$59,452.00	$0.00	$59,452.00	0.03	$1,784.00	~~$19,264.00~~	~~$80,500.00~~	$77,920.00	$1,680.00	$0.00	$0.00	$900.00	$0.00
		BUDGETED SALARY DECREASE	→					7,252.00	78,000.00						
0004	113	ASSISTANT DISTRICT ATTORNEY IV	$68,687.00	$0.00	$68,687.00	0.03	$2,061.00	~~$10,449.00~~	~~$81,197.00~~	$76,420.00	$4,320.00	$0.00	$0.00	$0.00	$0.00
		TOTAL	$128,139.00	$0.00	$128,139.00		$3,845.00	$25,016.00	$157,000.00	$154,340.00	$6,000.00	$0.00	$0.00	$900.00	$0.00

Approval of the above highlighted personnel action(s).

Salary Schedule(s) pending CC approval.

2013 ACTUAL TOTAL COMPENSATION
$80,500.00
$80,740.00
$161,240.00

HIDALGO COUNTY
Personnel Adjustment Request Form

RECEIVED NOV 14 2013 HUMAN RESOURCES

DEPARTMENT NAME/NUMBER: DA'S- BPU GRANT (080-012) **DATE:** 11/14/13

CURRENT POSITION TITLE: ASSISTANT DISTRICT ATTORNEY IV **CURRENT SLOT. #:** 0004

REQUESTED POSITION TITLE: N/A
(For new positions or reclassifications)

REQUEST FOR:

☐ New Position ☐ Temporary Position ☐ Position Reclassification* ☑ Other SALARY ADJUST.- DECREASE

*Civil Service Positions are submitted to the Civil Service Commission.

POSITION SALARY REQUEST:

Salary Amount: $ 81,197.00 (Current Budgeted Salary) $ 78,000.00 (Proposed Budgeted Salary) $ (3,197.00) (Net Change)

Position to be funded from one of the following:

☐ Current Department Budget ☐ Annual Budget Cycle ☐ Will Require Additional Funds

☑ Other NO ADDITIONAL FUNDS REQUIRED. BUDGETED SALARY OF POSITION WILL BE ADJUSTED DOWN.

POSITION Type:

Full Time Employee Object 113 ☑ Part Time Employee Object 114 ☐

Full Time Temporary Object 121 ☐ Part Time Temporary Object 122 ☐

Enter hourly rate for temp. positions

$ _____

Hourly Rate * 2,080 hrs. per year = Annual Salary

TEMPORARY POSITIONS:

Start Date	End Date	Working Days & Hours	Hours Per Week	Duration (2 weeks, 3 months, etc.)

CIVIL SERVICE:		FLSA:	
Exempt	☑	Exempt	☑
Non-Exempt	☐	Non-Exempt	☐
N/A	☐		

JUSTIFICATION/PRIORITY: (Explain why this position or adjustment request is essential)

Salary adjustment (decrease) is required to comply with FY 2014 grant specifications.

NEW POSITION: Brief job description and attach a copy of the new job description.

POSITION RECLASIFICATION: Explain change and /or increase in duties and responsibility. (Attach new job description)

COMMENTS: (Any comments you wish to make regarding this request)

HUMAN RESOURCES: Classification and Salary Recommendation

BUDGET & MANAGEMENT: Classification and Salary Recommendation

1.	FOR RENE GUERRA DEPARTMENT HEAD	11/14/2013 DATE	FUNDING AVAILABLE IN DEPT. BUDGET	☑ YES	☐ NO
2.	Estela Castaneda HUMAN RESOURCES DIRECTOR	11/15/13 DATE	PERSONNEL PROCEDURES COMPLETED	☑ YES	☐ NO
3.	DEPARTMENT OF BUDGET & MANAGEMENT	11/15/2013 DATE	BUDGET PROCEDURES COMPLETED	☑ YES	☐ NO
4.	COMMISSIONERS COURT APPROVAL	DATE			

HIDALGO COUNTY
Personnel Adjustment Request Form

NOV 14 2013
HUMAN RESOURCES

DEPARTMENT NAME/NUMBER: DA'S- BPU GRANT (080-012) **DATE:** 11/14/13

CURRENT POSITION TITLE: ASSISTANT DISTRICT ATTORNEY III **CURRENT SLOT. #:** 0001

REQUESTED POSITION TITLE: N/A
(For new positions or reclassifications)

REQUEST FOR:

☐ New Position ☐ Temporary Position ☐ Position Reclassification* ☑ Other SALARY ADJUST.- DECREASE

*Civil Service Positions are submitted to the Civil Service Commission.

POSITION SALARY REQUEST:

Salary Amount: $ 80,500.00 (Current Budgeted Salary) $ 79,000.00 (Proposed Budgeted Salary) $ (1,500.00) (Net Change)

Position to be funded from one of the following:

☐ Current Department Budget ☐ Annual Budget Cycle ☐ Will Require Additional Funds

☑ Other NO ADDITIONAL FUNDS REQUIRED. BUDGETED SALARY OF POSITION WILL BE ADJUSTED DOWN.

POSITION Type:

Full Time Employee Object 113 ☑ Part Time Employee Object 114 ☐

Full Time Temporary Object 121 ☐ Part Time Temporary Object 122 ☐ $ _____ Enter hourly rate for temp. positions

Hourly Rate * 2,080 hrs. per year = Annual Salary

TEMPORARY POSITIONS:

Start Date	End Date	Working Days & Hours	Hours Per Week	Duration (2 weeks, 3 months, etc.)

CIVIL SERVICE:		FLSA:	
Exempt	☑	Exempt	☑
Non-Exempt	☐	Non-Exempt	☐
N/A	☐		

JUSTIFICATION/PRIORITY: (Explain why this position or adjustment request is essential)

Salary adjustment (decrease) is required to comply with FY 2014 grant specifications.

NEW POSITION: Brief job description and attach a copy of the new job description.

POSITION RECLASIFICATION: Explain change and /or increase in duties and responsibility. (Attach new job description)

COMMENTS: (Any comments you wish to make regarding this request)

HUMAN RESOURCES: Classification and Salary Recommendation

BUDGET & MANAGEMENT: Classification and Salary Recommendation

1.	FOR RENÉ GUERRA DEPARTMENT HEAD	11/14/2013 DATE	FUNDING AVAILABLE IN DEPT. BUDGET	☑ YES	☐ NO
2.	HUMAN RESOURCES DIRECTOR	11-15-13 DATE	PERSONNEL PROCEDURES COMPLETED	☑ YES	☐ NO
3.	DEPARTMENT OF BUDGET & MANAGEMENT	11/15/2013 DATE	BUDGET PROCEDURES COMPLETED	☑ YES	☐ NO
4.	COMMISSIONERS COURT APPROVAL	DATE			

HIDALGO COUNTY
DEPARTMENT OF BUDGET & MANAGEMENT
FISCAL NOTE

•Fiscal notes are prepared by the Department of Budget & Management to present the budgetary impact of requests by departments/offices or of new proposals that were not approved during the budget process.

To: **Commissioner' Court**
From: **Sergio Cruz, Budget Officer**
CC Date: **Tuesday, November 19, 2013**

Agenda Item: **41833**

Summary of request/proposal:
Approval of salary adjustments as follows:

Fund	Position	Slot #	Obj	Current Budgeted Salary Allowance	Proposed Budgeted Salary/ Allowance	Total Requested
1100	ADA III	0001	113	80,500.00	79,000.00	(1,500.00)
1100	ADA IV	0004	113	81,197.00	78,000.00	(3,197.00)
				161,697.00	157,000.00	(4,697.00)

Budgetary Impact:

INCREASE/DECREASE ACCOUNT NUMBER		ACCOUNT (OBJECT) NAME		AMOUNT
3-1281-412-00-080-012-4-	113	DA BORDER PROS INTIAT.-	REGULAR FULL TIME	($4,697.00)
3-1281-412-00-080-012-4-	211	DA BORDER PROS INTIAT.-	HEALTH INSURANCE	$0.00
3-1281-412-00-080-012-4-	212	DA BORDER PROS INTIAT.-	LIFE INSURANCE	$0.00
3-1281-412-00-080-012-4-	220	DA BORDER PROS INTIAT.-	FICA	($359.32)
3-1281-412-00-080-012-4-	230	DA BORDER PROS INTIAT.-	RETIREMENT	($493.19)
3-1281-412-00-080-012-4-	250	DA BORDER PROS INTIAT.-	UNEMPLOYMENT COMP	($23.49)
3-1281-412-00-080-012-4-	260	DA BORDER PROS INTIAT.-	WORKER'S COMP	($1.41)
			2013 Budgetary Impact	($5,574.41)

2014 Budgetary Impact: ($5,574.41)

Possible Funding Sources: **NO BUDGETARY IMPACT.**

Comments:

Hidalgo Co. Budget Office
2/3/2005

DATE: November 19, 2013

DEPARTMENT HEAD: Rene Guerra

DEPARTMENT NAME: District Attorney's Office

ACCOUNT NUMBER: **3-1281-412-00-080-012-4-XXX**

Contact Person: Roy Cazares **Ph#** 318-2300 Ext. 758

SUBJECT: **Budget Amendments** (increase (decrease)) in accordance with Local Government Code, Chapter 111, § 111.070, Item C (2).

Honorable Commissioners' Court of Hidalgo County:

I would like to request the following Budget Amendments (increase (decrease)) in accordance with Local Government Code, Chapter 111, § 111.070, Item C (2).

INCREASE ACCOUNT NUMBER(S)	ACCOUNT (OBJECT) NAME	AMOUNT
3-1281-412-00-080-012-4-113	Salaries of Employees	$157,000.00
3-1281-412-00-080-012-4-115	Longevity Pay	$7,160.00
3-1281-412-00-080-012-4-118	Auto Allowance	900.00
3-1281-412-00-080-012-4-211	Health Insurance	11,520.00
3-1281-412-00-080-012-4-212	Life Insurance	54.00
3-1281-412-00-080-012-4-220	Social Security Tax	12,627.09
3-1281-412-00-080-012-4-230	Employee Retirement	17,975.04
3-1281-412-00-080-012-4-250	Unemployment Compensation Insurance	825.30
3-1281-412-00-080-012-4-260	Worker's Compensation Insurance	280.60
3-1281-412-00-080-012-4-532	Wireless Devices	2,500.00
3-1281-412-00-080-012-4-583	Out of County Employee Travel	7,500.00
3-1281-412-00-080-012-4-584	Registration Fees	1,000.00
3-1281-412-00-080-012-4-601	Office & Computer Supplies	1,200.00
3-1281-412-00-080-012-4-626	Gasoline/Diesel	8,457.97
3-1281-412-00-080-012-4-672	R&M Supplies - Equipment & Vehicle	1,000.00
3-1281-334-10-080-012-4-000	CJD - BPU/Revenue	230,000.00
	TOTAL BUDGET INCREASE (DECREASE)	**230,000.00**

REASON: 2013 - 2014 BPU Budget. Funding from September 1, 2013 - August 31, 2014.

85,000.00

DEPARTMENT HEAD SIGNATURE

APPROVED COMMISSIONERS' COURT

/ /
DATE

ATTEST COUNTY CLERK

AI-41849 **Sheriff's Office 9. A.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted By: Maria Del Rosario Gonzalez, SHERIFF DEPT.

Department: SHERIFF DEPT.

Information

CAPTION

DOJ - USMS - U.S. Marshal (1284):
1. Approval to accept overtime funding from the U.S. Department of Justice, U.S. Marshals Service for two (2) officers in the amount of $25,000.00.
2. Requesting authorization to pay overtime reimbursable under the grant terms and conditions.
3. Approval of Certification of Revenues as certified by the County Auditor for the DOJ-USMS funding.
4. Approval to appropriate funds in the amount of $25,000.00 for USMS overtime funding.

BACKGROUND

Pursuant to Memorandum of Understanding between the United States Marshals Service (USMS) and the Hidalgo County Sheriff's Office, funding is being made available for overtime expenses for two (2) officers assigned to the joint law enforcement operations task force.

Period of Performance is from October 6, 2013 to September 30, 2014.

Fiscal Impact

FISCAL YEAR: SEE BELOW **ACCT. #:** 3-1284-421-00-280-068-4-131

FUNDS AVAILABLE Y/N?: YES **MATCHING FUNDS Y/N?:** N

BUDGETARY IMPACT:

Appropriation of funds in the total amount of $25,000.00 for DOS-USMS Funding of FY2014.

Period of performance is from 10/6/13 to 9/30/14.

Revenue account # 3-1284-331-11-280-068-4-000 DOJ-USMS Revenues

Attachments

USMS Agreement FY 2014
USMS FY14 BA
Backup FY2014

Form Review

Inbox	Reviewed By	Date
Emilia Uriegas	Emilia Uriegas	11/15/2013 10:41 AM
Budget & Management	Obdett Calzada	11/15/2013 03:37 PM
Manuel Chapa	Manuel Chapa	11/15/2013 04:17 PM

Rosalinda Cantu	Rosie Cantu	11/15/2013 05:06 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Maria Del Rosario Gonzalez Started On: 11/15/2013 09:02 AM

Final Approval Date: 11/15/2013

U.S. Department of Justice
United States Marshals Service

Joint Law Enforcement Operations Task Force
Obligation Document

INSTRUCTIONS: See last page for detailed instructions.

SECTION 1: OBLIGATION

DOCUMENT CONTROL #:

SECTION 2: PARTICIPATING AGENCIES

Notification to state and local agencies of funding provided in support of Joint Law Enforcement Operations, pursuant to the Memorandum of Understanding (MOU) between:

Hidalgo County Sheriff's Office

and

Southern District of Texas (79)

All other terms and conditions of the MOU remain the same.

SECTION 3: PERIOD OF PERFORMANCE

October 6, 2013 to September 30, 2014

SECTION 4: APPROPRIATION DATA

FISCAL YEAR	ORGANIZATION	FUND	PROJECT	SOC / PURPOSE	DOLLAR AMOUNT
2014	D79	AFF-B-OP-1	JLEOTFS4	25302 - TFO Overtime	$25,000.00

Total Obligation Amount: $25,000.00

SECTION 5: DESCRIPTION OF OBLIGATION

TFO Overtime for 2 TFOs ($12,500 per TFO)

SECTION 6: CONTACT INFORMATION

DISTRICT/RFTF CONTACT:

Name: John Allen
Phone: 956-618-8025
E-mail: John.Allen@usdoj.gov

STATE/LOCAL CONTACT:

Name: Sheriff Guadalupe Trevino
Phone: 956-383-8114
E-mail: Sheriff.trevino@hidalgo.org

SECTION 7: AUTHORIZATION

USMS Representative - Certification of Funds:

Signature: Ann Adams Date: 11-12-13

Ann Adams, Administrative Officer

Chief Deputy or RFTF Commander - Obligation Approval:

Signature: David Travis Date: 11/12/13

David Travis, Chief Deputy

Departmental Representative - Acknowledgement:

Signature: Lupe Trevino Date: 11-14-13

Guadalupe Trevino, Sheriff

DATE: November 15, 2013
DEPARTMENT HEAD: Sheriff Guadalupe "Lupe" Trevino
DEPARTMENT NAME: DOJ-USMS--Overtime
ACCOUNT NUMBER: 3-1284-421-00-280-068-4-131

SUBJECT: **Budget Amendments (Increases) in Accordance with Local Government Code, Chapter 111, Subchapter C**

Honorable Commissioners' Court of Hidalgo County:

I would like to request the following Amendments (increases) to my budget in accordance with Local Government Code, Chapter 111, Subchapter C

INCREASE OBJECT NUMBER'S)	ACCOUNT OBJECT NAME	AMOUNT
3-1284-421-00-280-068-4-131	Overtime Pay	25,000.00

	TOTAL APPROPRIATIONS	25,000.00
3-1284-331-11-280-068-4-000	U.S. Department of Justice-- U.S. Marshals Service	25,000.00
	TOTAL REVENUES	25,000.00

REASON: **To appropriate budget for FY2014 overtime funding provided by the United States Marshals Service for two (2) officers assigned to the joint law enforcement operations task force.**

Period of Performance: 10/6/2013 to 9/30/14

Note: Expenses relating to the fringe benefits for the overtime hours are to be charged to the Sheriff's Office Budget (Account Number 3-1100-421-00-280-001-0-XXX).

DEPARTMENT HEAD SIGNATURE

/ /
DATE

APPROVED COMMISSIONERS' COURT

ATTEST COUNTY CLERK

PARTIES AND AUTHORITY:

This Memorandum of Understanding (MOU) is entered into by the Hidalgo County Sheriff's Office and the United States Marshals Service (USMS) pursuant to the Presidential Threat Protection Act of 2000 (Public L. 106-544, § 6, December 19, 2000, 114 Stat. 2718, 28 U.S.C. § 566 note). As set forth in the Presidential Threat Protection Act of 2000 and directed by the Attorney General, the USMS has been granted authority to direct and coordinate permanent Regional Fugitive Task Forces consisting of Federal, state, and local law enforcement authorities for the purpose of locating and apprehending fugitives.

The authority of the USMS to investigate fugitive matters as directed by the Attorney General is set forth in 28 USC § 566. The Director's authority to direct and supervise all activities of the USMS is set forth in 28 USC § 561(g) and 28 CFR 0.111. The authority of United States Marshals and Deputy U.S. Marshals to, "in executing the laws of the United States within a State . . . exercise the same powers which a sheriff of the State may exercise in executing the laws thereof" is set forth in 28 USC § 564. Additional authority is derived from 18 USC § 3053 and Office of Investigative Agency Policies Resolutions 2 & 15. See also "Memorandum for Howard M. Shapiro, General Counsel, Federal Bureau of Investigation" concerning the "Authority to Pursue Non-Federal Fugitives", issued by the U.S. Department of Justice, Office of Legal Counsel, dated February 21, 1995. See also: Memorandum concerning the Authority to Pursue Non-Federal Fugitives, issued by the USMS Office of General Counsel, dated May, 1, 1995. See also: 42 U.S.C. § 16941(a)(the Attorney General shall use the resources of federal law enforcement, including the United States Marshals Service, to assist jurisdictions in locating and apprehending sex offenders who violate sex offender registration requirements).

MISSION:

The primary mission of the task force is to investigate and arrest, as part of joint law enforcement operations, persons who have active state and federal warrants for their arrest. The intent of the joint effort is to investigate and apprehend local, state and federal fugitives, thereby improving public safety and reducing violent crime.

Each participating agency agrees to refer cases for investigation by the DFTF (District Fugitive Task Force). Cases will be adopted by the DFTF at the discretion of the District Chief Deputy, and in accordance with the provisions of the Presidential Threat Protection Act, the Adam Walsh Child Protection and Safety Act, and the U.S. Department of Justice. Targeted crimes will primarily include violent crimes against persons, weapons offenses, felony drug offenses, failure to register as a sex offender, and crimes committed by subjects who have a criminal history involving violent crimes, felony drug offenses, and/or weapons offenses. Upon receipt of a written request, the DFTF may also assist non-participating law enforcement agencies in investigating, locating and arresting their fugitives. Task force personnel will be assigned federal, state, and local fugitive cases for investigation. Investigative teams will consist of personnel from different agencies whenever possible. Each participating agency retains responsibility for the cases they refer to the DFTF.

Reimbursement of overtime work shall be consistent with the Fair Labor Standards Act. Annual overtime for each state or local law enforcement officer is capped at the equivalent of 25% of a GS-1811-12, Step 1, of the general pay scale for the RUS. Reimbursement for all types of qualified expenses shall be contingent upon availability of funds and the submission of a proper invoice which shall be submitted quarterly on a fiscal year basis, and which provides the names of the investigators who incurred overtime for the DFTF during the quarter; the number of overtime hours incurred, the hourly regular and overtime rates in effect for each investigator, and the total quarterly cost. The invoice should be submitted to the District Chief Deputy, who will review the invoice, stamp and sign indicating that services were received and that the invoice is approved for payment. Invoices for equipment, supplies, training, fuel, and vehicle lease should provide supporting documentation including receipts.

EQUIPMENT:

Notwithstanding the above, pending the availability of asset forfeiture funding and approval by the USMS in advance of any purchase, the USMS may reimburse or make direct payments to qualified third party vendors for vehicles and equipment purchased by the undersigned state or local agency in support of full time state and local investigators assigned to the DFTF involved in joint law enforcement operations. Such vehicle and equipment purchases are to be contracted for and titled in the name of the state or local law enforcement agency and must comply with requirements prescribed by the USMS pursuant to this MOU and applicable policies of the United States Department of Justice. Vehicles and equipment purchased by state and local law enforcement agencies with asset forfeiture monies provided by the USMS must remain available for exclusive use of the task force officers assigned to the DFTF by the undersigned participant agency for the duration of the task force. Upon termination of the agreement, usage and disposition of such vehicles are at the discretion of the undersigned state or local law enforcement agency.

Pending the availability of funds and equipment, the USMS will issue USMS radios, telephones, and other communication devices to each task force officer to be used for official DFTF business. Any other equipment used by or assigned to task force officers will remain the property of the agency issuing the equipment and will be returned to that agency upon termination of the task force, or upon agency request.

RECORDS AND REPORTS:

Original reports of investigation, evidence, and other investigative materials generated, seized, or collected by the DFTF shall be retained by the agency in the DFTF responsible for the case. However, evidence may be turned over to other law enforcement agencies as appropriate. Copies of investigative reports and other materials may be provided to other agencies in accordance with applicable laws, rules, and regulations. Task force statistics will be maintained in the USMS Justice Detainee Information System (JDIS) - Warrant Information Network (WIN). Statistics will be made available to any participating agency upon request.

INFORMANTS:

Pending the availability of funds, the USMS may provide funding for the payment of informants. However, all payments of informants utilizing USMS funding shall comply with USMS policy.

Federal fugitive cases referred to the task force for investigation by any participating agency will be entered into the National Crime Information Center (NCIC) by the USMS or originating agency, as appropriate. State or local fugitive cases will be entered into NCIC (and other applicable state or local lookout systems) as appropriate by the concerned state or local agency.

SUPERVISION:

The DFTF will consist of law enforcement and administrative personnel from federal, state, and local law enforcement agencies. Agencies must be approved by the District Chief Deputy prior to assignment to the DFTF. Agency personnel may be removed at anytime at the discretion of the District Chief Deputy.

Direction and coordination of the DFTF shall be the responsibility of the USMS District Chief Deputy. Administrative matters which are internal to the participating agencies remain the responsibility of the respective agencies. Furthermore, each agency retains responsibility for the conduct of its personnel.

A Task Force Advisory Committee, consisting of representatives of participating agencies and USMS district personnel, may be established at the direction of the District Chief Deputy and will meet and confer as necessary to review and address issues concerning operational matters within the DFTF.

PERSONNEL:

In accordance with Homeland Security Presidential Directive (HSPD) 12, personnel assigned to the task force are required to undergo background investigations in order to be provided unescorted access to USMS offices, records, and computer systems. The USMS shall bear the costs associated with these investigations. Non-USMS law enforcement officers assigned to the task force will be deputized as Special Deputy U.S. Marshals.

Task force personnel may be required to travel outside of the jurisdiction to which they are normally assigned in furtherance of task force operations. State or local task force officers traveling on official business at the direction of the USMS shall be reimbursed directly by the USMS for their travel expenses in accordance with applicable federal laws, rules, and regulations.

REIMBURSEMENT:

The Marshals Service receives Asset Forfeiture funding for either 1) overtime incurred by state and local investigators who provide full time support to USMS DFTF joint law enforcement task forces; or 2) travel, training, purchase or lease of police vehicles, fuel, supplies or equipment for state and local investigators in direct support of state and local investigators. The USMS shall, pending availability of funds, reimburse your organization for expenses incurred, depending on which category of funding is provided.

USE OF FORCE:

All members of the DFTF shall comply with their agency's guidelines concerning the use of firearms, deadly force, and less-lethal devices. Copies of all applicable firearms, deadly force, and less-lethal policies shall be provided to the District Chief Deputy and each concerned task force officer. In the event of a shooting involving task force personnel, the incident will be investigated by the appropriate agency(s).

NEWS MEDIA

Media inquires will be referred to the District Chief Deputy. A press release may be issued and press conference held, upon agreement and through coordination with participant agencies representatives. All press releases will exclusively make reference to the task force.

RELEASE OF LIABILITY:

Each agency shall be responsible for the acts or omissions of its employees. Participating agencies or their employees shall not be considered as the agents of any other participating agency. Nothing herein waives or limits sovereign immunity under federal or state statutory or constitutional law. The participating agencies agree to hold harmless the United States from any claim, cause of action, or judgment resulting from the negligent acts of their employees.

EFFECTIVE DATE AND TERMINATION:

This MOU is in effect once signed by a law enforcement participant agency. Participating agencies may withdraw their participation after providing 30 days advanced written notice to the District Chief Deputy U.S. Marshal (CDUSM).

United States Marshal

Rosendo Martinez
Chief Deputy
Participant Agency Representative - Hidalgo Co. Sheriff's Office

Assistant Director, TOD

AI-41796 **Sheriff's Office 9. B.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted By: Maria Del Rosario Gonzalez, SHERIFF DEPT.

Department: SHERIFF DEPT.

Information

CAPTION

Sheriff's Office - OCDETF (1284)
1. Approval of Organized Crime Drug Enforcement Task Forces (OCDETF) Agreement between the Hidalgo County Sheriff's Office and the Drug Enforcement Administration McAllen District Office/Houston Division Office OCDETF Strike Force Group D-81.
2. Approval of Certification of Revenues as certified by the County Auditor for the OCDETF Grant Contract.
3. Approval to appropriate OCDETF Grant Award in the amount of $15,800.00(in reference to Investigation Number SW-TXS-0910).

BACKGROUND

Funding is for period of 10/1/13 to 9/30/14.

Fiscal Impact

FISCAL YEAR: 2014 **ACCT. #:** 3-1284-421-00-280-037-4-442/626

FUNDS AVAILABLE Y/N?: **MATCHING FUNDS Y/N?:** N

BUDGETARY IMPACT:

Appropriation of funds in the total amount of $15,800.00 for Organized Crime Drug Enforcement Task Force (OCDETF) - SW-TXS-0910.

Funding is for period of 10/1/13 to 9/30/14.

Revenue account # 3-1284-331-11-280-037-4-000-OCDETF

Leased Vehicle ($10,800.00) Fuel ($5,000.00)

Attachments

BA
OCDETF.2014.AGREE.

Form Review

Inbox	Reviewed By	Date
Emilia Uriegas	Emilia Uriegas	11/13/2013 01:03 PM
Budget & Management	Obdett Calzada	11/14/2013 03:56 PM
Manuel Chapa	Manuel Chapa	11/15/2013 01:55 PM
Rosalinda Cantu	Rosie Cantu	11/15/2013 05:06 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Maria Del Rosario Gonzalez Started On: 11/13/2013 11:45 AM

Final Approval Date: 11/15/2013

DATE: November 13, 2013

DEPARTMENT HEAD: Sheriff Guadalupe "Lupe" Trevino

DEPARTMENT NAME: Organized Crime Drug Enforcement Task Force (OCDETF)

ACCOUNT NUMBER: 3-1284-421-00-280-037-4-XXX

SUBJECT: **Budget Amendments (Increases) in Accordance with Local Government Code, Chapter 111, Subchapter C**

Honorable Commissioners' Court of Hidalgo County:

I would like to request the following Amendments (increases) to my budget in accordance with Local Government Code, Chapter 111, Subchapter C

INCREASE OBJECT NUMBER'S)	ACCOUNT OBJECT NAME	AMOUNT
3-1284-421-00-280-037-4-442	Equipment and Vehicle Rentals	10,800.00
3-1284-421-00-280-037-4-626	Gasoline	5,000.00

	TOTAL APPROPRIATIONS	15,800.00
3-1284-331-11-280-037-4-000	Organized Crime Drug Enforcement Task Force (OCDETF)	15,800.00
	TOTAL REVENUES	15,800.00

REASON: **To appropriate budget for the rental of vehicle and gasoline for the Organized Drug Enforcement Task Forces (OCDETF) Grant award.**

OCDETF Investigation No: SW-TXS-0910
Grant Period: 10/01/13 to 09/30/14

DEPARTMENT HEAD SIGNATURE

/ /
DATE

APPROVED COMMISSIONERS' COURT

ATTEST COUNTY CLERK

ORGANIZED CRIME DRUG ENFORCEMENT TASK FORCES

Agreement

FOR THE USE OF THE OCDETF STRIKE FORCE/STRATEGIC INITIATIVE PROGRAMS

Federal Tax Identification #: 74-6000717 DC #:

Amount Requested

$ $15,800.00

From: October 1, 2013
Beginning Date of Agreement

To: September 30, 2014
Ending Date of Agreement

Strike Force/Strategic Initiative Name and Address:

DEA McAllen District Office
OCDETF Strike Force Group D81
1200 N. Commerce McAllen, Texas 78501

Sponsoring Federal Agency (SF only): DEA

Lead Investigator: GS Rudy Maldonado

Telephone Number: (956) 992-8427

Email Address: rudy.maldonado@usdoj.gov

OCDETF Investigation/Strategic Initiative #:
SW-TXS-0910

Federal Agency Investigation #:
M5-13-0022

State or Local Agency Name and Address:

Hidalgo County Sheriff's Office
~~711 El Cibolo Road~~ 100 E. Cano 3rd fl.
Edinburg, Texas 78539

State or Local Agency
Narcotics Supervisor: Captain Raul Cantu

Telephone Number: (956) 383-8114

E-mail Address: raul.cantu@hidalgoso.org

Fax Number: (956) 393-6179

Brief explanation of services/goods provided and basis for determining costs:

Leased vehicle and fuel needed to facilitate operational interface of the Hidalgo County Sheriff's Office with the McAllen DO Strike Force. The vehicle cost was determined based on current lease agreement between the HCSO and ACME Leasing: 6192 Oxon Hill Rd. Suite 400, Oxon Hill, MD. Other costs were based on current government pricing quotes.

Please provide the name, telephone number, and e-mail address for the administrative or financial staff person at the state or local agency, who is directly responsible for the billings under this Reimbursement Agreement:

Name: Hector Sandoval, Grant Accountant
Telephone Number: 956-318-2511 ext. 4074
E-mail Address: hector.sandoval@auditor.co.hidalgo.tx
Fax Number: (956) 318-2577

This agreement is between the above named state or local agency and the Organized Crime Drug Enforcement Task Force (OCDETF) Program. This agreement shall be effective when signed by a state or local law enforcement agency official, who is authorized to approve the expenditure of funds in support of OCDETF investigations, the Strike Force leader or his/her designee (Strike Forces) or the AUSA OCDETF Coordinator (Strategic Initiatives) and the OCDETF Executive Office Budget Officer, or his/her designee.

1. This agreement is limited to the amount of funds stated on the cover page of the agreement and no reimbursements will be made in excess of this amount prior to written approval from the United States Attorney's Office and the OCDETF Executive Office. Any request for modification for the above funding amount or type equipment (if different or more than originally approved) must be justified in writing and approved prior to the expenditure of funds. Monitoring of overtime usage and the available authorized reimbursement balance is the responsibility of the sponsoring agency and the state and/or local party to the agreement.

2. It is agreed that the state or local agency named on this agreement will assist in OCDETF investigations, strategic initiatives, and/or prosecutions as set forth in the Organized Crime Drug Enforcement Task Force Strike Force/Strategic Initiative Programs and Policy and Procedures Manual, October 2010.

3. An Agreement for the use of the OCDETF Strike Force/Strategic Initiative Programs ("Agreement") must be completed whenever state or local law enforcement agencies plan to seek reimbursement for permissible costs resulting from their participation in a Strike Force investigation/Strategic Initiative. Agreements are specific to a single OCDETF Strike Force investigation/Strategic Initiative. Each Agreement must be approved and signed by a state or local law enforcement agency official, who is authorized to approve the expenditure of funds in support of OCDETF investigations, the Strike Force leader (Strike Forces) or AUSA Coordinator (Strategic Initiatives) and the OCDETF Executive Office. All required signatures must be obtained before the Agreement can be accepted and the funds obligated.

4. An agreement must fall within a fiscal year period (October 1 – September 30). State and local agencies must use an accurate "Beginning Date of Agreement" (Not always October 1). An agreement can never be dated before the investigation was approved as an OCDETF case.

5. If an Agreement does not have any activity during the last ninety (90) days from the last time a bill has been submitted or during the first ninety (90) days from the date the Agreement was signed, the funds shall be deobligated. Further, if a state or local agency determines that it is no longer performing work under a particular Agreement, a modification memorandum identifying the amount to be deobligated will be submitted by the Strike Force Leader or AUSA Coordinator to the OCDETF Executive Office as soon as possible.

6. A listing of costs that will be reimbursed by the Strike Force/Strategic Initiative Programs will be attached to each agreement. The total cost listed on the Cost Estimate Sheet should match the Amount Requested on the Agreement Cover Page. This must be a detailed listing of each expense expected to be purchased under the Agreement. For example, simply listing "Equipment" or "Surveillance Equipment" is not acceptable. In this example, all equipment should be listed separately such as binoculars, cameras, camera mounts, etc. Each expense listed on the cost estimate sheet must also have a price quote submitted with the Agreement to verify the accuracy of the cost estimates.

7. The Strike Force Leader (Strike Forces) or AUSA Coordinator (Strategic Initiative) must ensure that the cumulative authorized expense commitments do not exceed the total Strike Force/Strategic Initiative fund allocation.

8. Reimbursement for any expenditure above the Agreement amount must be approved by both the Strike Force Leader (Strike Forces) or AUSA Coordinator (Strategic Initiative) and the OCDETF Executive Office.

9. All approving officials must agree to amendments or changes to the amount of the Agreement, the listing of eligible items to be reimbursed, and associated estimates that occur after an Agreement has been executed. These amendments or changes must be transmitted by a memorandum approved and signed by the Strike Force Leader (Strike Forces) or AUSA Coordinator (Strategic Initiatives), and forwarded to the OCDETF Executive Office. All changes made to the original agreement must be approved and initialed by the person making the revision and the Strike Force Leader (Strike Forces) or AUSA Coordinator (Strategic Initiatives).

10. This agreement may be terminated by any of the parties by written notice to the other parties ten (10) business days prior to termination. Billing for outstanding obligations shall be received by OCDETF within thirty (30) days of the notice of termination.

11. Costs incurred pursuant to an OCDETF investigation or due to participation in an OCDETF Strategic Initiative by a state and local program participant, including informant fees, purchase of evidence, travel, either by a state or local officer, witness or confidential source; rental of automobiles; cost of interpreters or translators; training in support of OCDETF; technical surveillance equipment; rental of office space for temporary use, such as an off-site location for electronic monitoring or off-site command post, may be reimbursed by OCDETF under certain circumstances.

12. Rental payments cannot be paid in advance and must be paid in arrears. Reimbursable Requests with rent included are due on the first workday of each month, and must be for the month that just ended rather than the month beginning. For example, reimbursement for rental space incurred in February cannot take place before March 1st. Any exceptions or additions to the approved reimbursable costs listed above must be detailed and attached in Addendum A of the Agreement.

13. Property and equipment purchased through the OCDETF Program must remain available to the Strike Force/Strategic Initiative for the duration of its existence. The reimbursement of these items must be permissible under the AFF statute, Section 524 (c)(1)(I) of Title 28, United States Code, and this guidance, and are subject to the availability of funds.

14. Subsequent to payment of invoices by the state and local agency to a third party vendor, the DOJ will reimburse the agency for approved investigation or initiative related equipment and service costs. Claims must be submitted monthly on the OCDETF Reimbursement Request Form.

15. State and local agencies must provide official procurement documents to support all reimbursable expenditures to the Strike Force leadership (Strike Forces) or AUSA Coordinator (Strategic Initiatives). If proper supporting documentation is not available, OCDETF will not make reimbursement payments. The cumulative amount of all reimbursements cannot exceed the agreement amount without proper modification.

16. Under no circumstances will the state or local agency charge any indirect costs for the administration or implementation of this agreement.

17. By the 25th day of the month the quarter ends (December, March, June and September), the Strike Force Leader (Strike Forces) or AUSA Coordinator (Strategic Initiatives) will provide to the Executive Office a status of funds report detailing expenditures for each reimbursable agreement.

18. The state or local agency shall permit examination and auditing by representatives of the OCDETF Program, the sponsoring Federal agencies, DOJ, the Comptroller General of the United States, and/or any of their duly-authorized agents and representatives, of all records, documents, accounts, invoices, receipts, or expenditures relating to this agreement. In addition, the state or local agency will maintain all such foregoing reports and records until all audits and examinations are completed and resolved, or for a period of six (6) years after termination of this Agreement, whichever is later. Failure to provide proper documentation will limit State or Local law enforcement agencies from receiving OCDETF funding in the future.

19. The state or local agency will comply with Title VI of the Civil Rights Act of 1964 and all requirements applicable to OCDETF agreements pursuant to the regulations of the Department of Justice (see, e.g., 28 C.F.R. Part 42, Subparts C and G; 28 C.F.R. 50.3 (1991)) relating to discrimination on the grounds of race, color, sex, age, national origin or handicap.

20. Electronic Funds Transfer Process

a) The Debt Collection Improvement Act of 1996 requires that most payments made by the Federal government, including vendor payments, must be made by electronic funds transfer (EFT). All participating State and Local agencies must complete and submit the attached ACH vendor enrollment form. The OCDETF Executive Office must receive one ACH form from each participating agency or police department prior to processing their reimbursement payments.

This agreement is not a contract or obligation to commit Federal funds in the maximum amounts projected. Funding allocations for the time period set forth, agreed to herein represent projections only, and are based upon consultation between the Strike Force or AUSA Coordinator and the state or local law enforcement agency. They are, therefore, subject to modification by OCDETF based upon the progress and needs of the OCDETF investigation. Additionally, resources are contingent upon the availability of funds per the approval and signature of the OCDETF Executive Office obligating authority. The OCDETF Executive Office will approve and certify that all the terms and conditions of the agreement have been met.

Approved By: Guadalupe "Lupe" Trevino Sheriff 9-20-13
Authorized State or Local Official *Title* *Date*

Approved By: ASAC/DET 10-30-12
Strike Force Leader (SF) /AUSA Coordinator (SI) Title *Date*

Funds are encumbered for the costs specified above, **subject to the availability of funds**.

Funds Certified: _____
OCDETF Executive Office *Date*

Approving Official: _____
OCDETF Executive Office *Date*

ORGANIZED CRIME DRUG ENFORCEMENT TASK FORCES

STATE OR LOCAL LAW ENFORCEMENT STRIKE FORCE/STRATEGIC INITIATIVE AGREEMENT COST ESTIMATE

Name of Strike Force/Strategic Initiative: McAllen District Office Group D81
OCDETF Investigation/Strategic Initiative Number: SW-TXS-0910

The following is an estimate of operational costs expected to be incurred by state and local enforcement in an OCDETF Strike Force investigation or Strategic Initiative. These costs are reimbursable under this agreement, subject to the availability of funds.

	DESCRIPTION	AMOUNT
1.	Leased Vehicle	$10,800.00
2.	Fuel	$5,000.00
3.	Total	$15,800.00
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		

Addendum A

Exception to EFT Policy Justification:

The McAllen District Office Strike Force is requesting the following which will be utilized by the McAllen District Office Strike Force Group D81. (FY 2014)

Leased Vehicle:	$10,800.00	$900.00/12 months
Fuel for Vehicle:	$ 5,000.00	$416.66/12 months
Total:	$15,800.00	

Other Exceptions or Justifications:

ACH VENDOR/MISCELLANEOUS PAYMENT ENROLLMENT FORM

PAYEE/COMPANY INFORMATION (State & Local Agency name and address must match Agreement cover sheet)

Name: Hidalgo County Sheriff's Office	
Address:	100 E. Cano, 3rd Floor
	Edinburg, Texas 78539
Taxpayer ID Number: 746000717	
Contact Person Name: Norma Garcia	Telephone Number: (956) 316-2506

FINANCIAL INSTITUTION INFORMATION

Bank Name: Lone Star National Bank
Nine-Digit ABA Routing Transit Number: 114911687
Depositor Account Number: 71015647
Type of Account: (checking/savings) Checking

Please return with the Reimbursable Agreement

The Debt Collection Improvement Act of 1996 requires that most payments made by the Federal government, including vendor payments, must be made by electronic funds transfer (EFT). A benefit of receiving payments by EFT is that your funds are directly deposited to your account at a financial institution and are available to you on the date of payment.

If you have any question regarding the delivery of remittance information, please contact the financial institution (bank) where your account is held.

If you have any question on the completion of this form, please contact the OCDETF State and Local EFT Coordinator at 202-514-1860

To inquire about a bill please contact: https://www.ipp.gov/

AI-41585 **Sheriff's Office 9. C.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted By: Maria Del Rosario Gonzalez, SHERIFF DEPT.

Department: SHERIFF DEPT.

Information

CAPTION

State Criminal Alien Assistance Program (SCAAP) Grant:
Authorization and approval to accept the State Criminal Alien Assistance Program (SCAAP) 2013 Grant in the amount of $27,222.00

BACKGROUND

Budget to be submitted at a later date for Grant #2013-AP-BX-0830 in the amount of $27,222.00.
SCAAP funds are to be used for correctional purposes only.

Fiscal Impact

FISCAL YEAR: SEE BELOW **ACCT. #:** 3-1284-423-00-280-042-3-XXX

FUNDS AVAILABLE Y/N?: N **MATCHING FUNDS Y/N?:** N

BUDGETARY IMPACT:

No local match of funds is required as per grant requirements.

Grant Fiscal Year: 2013
Revenue Account: 3-1284-331-11-280-042-3-000

*Budget appropriation to be submitted at a later date for Grant #2013-AP-BX-0830 in the amount of $27,222.00.
*SCAAP funds are to be used for correctional purposes only.
*Funds will not be utilized for salaries.

Attachments

SCAAP2013

Form Review

Inbox	Reviewed By	Date
Emilia Uriegas	Emilia Uriegas	11/06/2013 10:30 AM
Budget & Management	Obdett Calzada	11/06/2013 02:56 PM
Manuel Chapa	Manuel Chapa	11/13/2013 09:05 AM
Rosalinda Cantu	Rosie Cantu	11/14/2013 04:43 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Maria Del Rosario Gonzalez Started On: 11/01/2013 10:11 AM

Final Approval Date: 11/15/2013

State Criminal Alien Assistance Program 2013-H3539-TX-AP

OMB Number: 1121-0243
Expires: 02/29/2004

SCAAP Help

GMS Home

Log Off

Grant Number:	2013-AP-BX-0830
Jurisdiction:	County of Hidalgo
Vendor Number:	746000717
Award Amount:	$27,222

Fiscal Year 2013 Payment Acceptance and Electronic Transfer of Funds

The Bureau of Justice Assistance (BJA) has completed its review of your facility, inmate, and correctional officer data related to the State Criminal Alien Assistance Program (SCAAP). The Bureau of Immigration and Customs Enforcement has vetted the inmate records, and an award amount has been calculated.

In accepting this award, you understand that BJA reserves the right to take appropriate administrative action, including intensive monitoring, repayment action, or adjustment to future payments, to resolve data discrepancies, errors, or audit findings related to any information reported in your application.

Applicants are now required to accept awards online within 45 calendar days of award notice, in accordance with the Office of Justice Programs (OJP) Financial Guide, Part II, Chapter 2, Acceptance Procedures requiring acceptance/drawdown of awards with 45 days of notice of award, and Part IV, Chapter 2, section 16.606, State Criminal Alien Assistance Program (SCAAP) requiring an "expeditious draw-down of payments."

Jurisdictions accepting SCAAP awards are not required to submit financial or progress reports to OJP. For FY 2009 SCAAP awards, the Department of Justice Reauthorization Act of 2005 (Pub. L. 109-162, Title XI) requires that all SCAAP funds be used for correctional purposes only. Please see the use of funds list and certification below. With your acceptance (by clicking on the Accept button below) of SCAAP's terms, conditions, and award amount, OJP will initiate an electronic payment in that amount to your bank account of record, as verified through the on-line SCAAP registration process and in accordance with applicable E-Government rules and requirements.

All issues related to the electronic transfer of funds or the bank account of record must be referred to the OCFO Customer Service Center at 800-458-0786. Please allow 15 business days for the electronic payment process to be complete before contacting OCFO. Please have the grant number, amount, and vendor information (noted above) available when you call.

FY 2013 SCAAP Use of Funds List

— *Construction* —
Construction for inmate housing, inmate programs, prison industries in ADA compliance
— *Training/Education for offender* —
Specific trade employment skills
GED testing
Job Preparedness
— *Training for corrections officers to help manage offender population* —
Bi-lingual language skills
Less than lethal technology training
Diversity training
Prison rape training

☐ As the CEO or authorized designee of this jurisdiction, I understand the guidelines and requirements as associated with the previous statements and agree to abide by them in all matters involving the FY 2013 State Criminal Alien Assistance Program.

Accept Decline

AI-41639 **Sheriff's Office 9. D.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted By: Myra Montoya, SHERIFF DEPT.

Department: SHERIFF DEPT.

Information

CAPTION

Approval to process the following Superior Alarms invoices as claims with authority for County Treasurer to issue check after auditing procedures are completed by County Auditor.

Invoice#	Date:	Amount:
396607	05/01/2012	$180.00
457252	11/04/2013	$60.00

BACKGROUND

Above invoices are being placed as claims due to no agreement being signed at the time of services.

Fiscal Impact

FISCAL YEAR: 2013 **ACCT. #:** 3-1100-421-00-280-001-0-413

FUNDS AVAILABLE Y/N?: Yes **MATCHING FUNDS Y/N?:**

BUDGETARY IMPACT:

Available balance as of 11-6-13 $380.00

Attachments

Superior Alarms

Form Review

Inbox	Reviewed By	Date
Emilia Uriegas	Emilia Uriegas	11/05/2013 02:14 PM
Budget & Management	Obdett Calzada	11/06/2013 03:17 PM
Manuel Chapa	Manuel Chapa	11/06/2013 04:32 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Myra Montoya Started On: 11/05/2013 12:51 PM

Final Approval Date: 11/15/2013

Superior Alarms

600 Ash Ave
P.O. Drawer 3097
McAllen, Texas 78501

Tel. (956) 682-6005
Fax (956) 213-1179

Invoice

Invoice Number	Date
396607	5/1/2012
Customer Number	**Terms**
2740	**Due On Receipt**

To: **Hidalgo County Sheriff's Dept.**
PO Box 1228
Attn: Mayra Montoya
Edinburg, TX 78540

Remit To: **Superior Alarms**
PO Box 3097
McAllen, TX 78502

Amount Enclosed: _____ **Net Due: *$180.00***

Detach And Return Top Portion With Your Payment

Customer Name	Customer Number	PO Number	Invoice Date	Terms
Hidalgo County Sheriff's Dept.	2740		5/1/2012	Due On Receipt

Quantity	Description	Rate	Amount
Hidalgo County Sheriff's Dept. Narcotics Edinburg, TX			
12.00	Central Station Monitoring Fee Burglar Alarm, 5/1/2012 - 4/30/2013	10.00	120.00
12.00	Open/Close Reports Burglar Alarm, 5/1/2012 - 4/30/2013	5.00	60.00
		Subtotal:	**$180.00**
	Tax		0.00
		Total Payments / Credits Applied:	0.00
		Invoice Balance Due:	**$180.00**

124

P.O. #: 1010894
Invoice Received By: M. Montoya on 5-1-12
Good/Services Received By: M. Montoya on 5-1-12 - 4-30-13
B-1100-421-00-280-001-0-413

Date	Invoice #	Description	Current Invoice	Balance Due
5/1/2012	396607	Recurring Services	$180.00	**$180.00**

For information on auto draft using bank account or credit/debit card, call our collections dept. at 956-682-6005. For online secure payments, visit www.superioralarms.com

Superior Alarms

600 Ash Avenue
PO Box 3097
McAllen, TX 78501-8502
(956) 682-6005
Fax: (800) 580-6001

Invoice

Invoice Number	Date
457252	**11/4/2013**
Customer Number	Terms
2740	**Due On Receipt**

To: **Hidalgo County Sheriff's Dept.**
P.O. Box 1228
Attn: Myra Montoya
Edinburg, TX 78540

Remit To: **Superior Alarms**
PO Box 3097
McAllen, TX 78502

Amount Enclosed: _____ **Net Due: *$60.00***

Detach And Return Top Portion With Your Payment

Customer Name	Customer Number	PO Number	Invoice Date	Terms
Hidalgo County Sheriff's Dept.	2740		11/4/2013	Due On Receipt

Quantity	Description	Rate	Amount
Hidalgo County Sheriff's Dept., Narcotics Edinburg, TX			
4.00	Central Station Monitoring Fee 4867 , 5/1/2013 - 8/31/2013	10.00	40.00
4.00	Open/Close Reports 4867 , 5/1/2013 - 8/31/2013	5.00	20.00
		Subtotal:	**$60.00**
	Tax		0.00
		Total Payments / Credits Applied:	0.00
		Invoice Balance Due:	**$60.00**

Date	Invoice #	Description	Current Invoice	Balance Due
11/4/2013	457252	Recurring Services	$60.00	**$60.00**

Superior Alarms

600 Ash Avenue
PO Box 3097
McAllen, TX 78501-8502
(956) 682-6005
Fax: (800) 580-6001

5/1/13 THRU 8/31/13

AI-41640 **Sheriff's Office 9. E.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted By: Myra Montoya, SHERIFF DEPT.

Department: SHERIFF DEPT.

Information

CAPTION

Approval to process the following O'reilly Auto Parts invoices as claims with authority for County Treasurer to issue check after auditing procedures are completed by County Auditor.

Invoice#	Date:	Amount:
351189	1/30/2013	$78.99
394205	7/25/2013	$6.00
404688	9/10/2013	$192.68

BACKGROUND

Above invoices are being placed as claims due to Auditor's inability to verify pricing on website, therefore, items are considered "open market".

Fiscal Impact

FISCAL YEAR: 2013 **ACCT. #:** 3-1100-421-00-280-001-0-672

FUNDS AVAILABLE Y/N?: Yes **MATCHING FUNDS Y/N?:**

BUDGETARY IMPACT:

Attachments

O'reilly Auto Parts

Form Review

Inbox	Reviewed By	Date
Emilia Uriegas	Emilia Uriegas	11/05/2013 02:42 PM
Budget & Management	Obdett Calzada	11/06/2013 03:18 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Myra Montoya Started On: 11/05/2013 01:05 PM

Final Approval Date: 11/15/2013

FIRST CALL

Auto Parts For Professionals

STORE PHONE # 956 383-3859
ADDRESS: 1310 MONTE CRISTO
EDINBURG TX 78542-2132
REMIT TO: PO BOX 9464
SPRINGFIELD MO 65801-9464

BILL TO (766551) (1) SHIP TO

HIDALGO CO SHERIFF DEPT
XXRETURN MAIL 12/12
100 E CANO ST
EDINBURG TX 78539-4582

INVOICE NUMBER (1582-351189)
INVOICE TYPE CHARGE SALE
INVOICE DATE (1/30/13)

COUNTER NO.	SPECIAL INSTRUCTIONS	SHIP VIA	CUSTOMER ORDER NO.	TIME OF ORDER	FILLED BY	CHECKED BY
15182	NEW VEHICLE	DELIVER	685416	15:41:27		

TAX	R C	QTY.	LINE	ITEM NUMBER	UNIT MEAS.	CD.	DESCRIPTION	LIST PRICE	NET PRICE	DISC %	CORE PRICE	EXTENDED PRICE
							Free Monroe Shop Stool with the purchase of 4 Quick Strut.					
N		1		OSP REFURBISHED	EA	P	HEAD	133.88	78.99			78.99

TOTALS	1	133.88	78.99
JAVIER	CUSTOMER COPY	CASH TEND.	
CUSTOMER SIGNATURE		CHANGE	

ALL MERCHANDISE RETURNED MUST BE ACCOMPANIED BY THIS INVOICE

SUB-TOTAL	78.99
MISC.	.00
TAX/FEES	78.99
TOTAL	

emailed myra on 02/08/13

P

P.O. #: 685416

Invoice Received By: M. Markus On: 2-19-13

Good/Services Received By: J. Lauterio On: 1-30-13

3-1100-421-00-280-001-0-Una

UNIT:546
2007 Chevy Silverado
VIN:1GCEC14037Z559982
L.P.: BHC4599

2013 FEB 26 AM 9

FIRST CALL

Auto Parts For Professionals

STORE PHONE # 956 383-3855
ADDRESS: 1310 MONTE CRISTO
EDINBURG TX 78542-2132
REMIT TO: PO BOX 9464
SPRINGFIELD MO 65801-9464

BILL TO 1C 786351

HIDALGO CO SHERIFF DEPT

PO BOX 1229
EDINBURG TX 78542

SHIP TO

INVOICE NUMBER 1582-394205
INVOICE TYPE CHARGE SALE
INVOICE DATE 7/25/13

COUNTER NO.	SPECIAL INSTRUCTIONS	SHIP VIA	CUSTOMER ORDER NO.	TIME OF ORDER	FILLED BY	CHECKED BY
15182	UNIT 565	DELIVER	685416	14:28:02		

TAX	A/C	QTY.	LINE	ITEM NUMBER	UNIT MEAS.	CD.	DESCRIPTION	LIST PRICE	NET PRICE	DISC %	CORE PRICE	EXTENDED PRICE
							Iglco Thermos w/purchase of $300 in Murray Water Pumps. www.FirstCallPromo.com					
N		1	KEY	KEY UNIT 565	EA	D	KEY U 565	6.00				6.00

TOTALS 1 6.00

SUB-TOTAL 6.00
MISC. .00
TAX/FEES .00
TOTAL 6.00

CUSTOMER COPY

CASH TEND.
CHANGE

ACOSTA
CUSTOMER SIGNATURE

ALL ITEMS AND/OR SERVICES PURCHASED HEREBY ARE ACCOMPANIED BY THIS INVOICE

P

UNIT# 565
2009 CHEVY COLORADO
VIN: 1GCDT13E898104028
LP: IN PROGESS

P.O.# 685416
INVOICE RECEIVED BY:
mmontoya **ON:** 7.31.13
GOOD/SERVICES RECEIVED BY:
R. Fausto **ON:** 7.25.13
3-1100-421-00-280-001-0- 6072

RECEIVED
2013 AUG 2 PM 3:52
HIDALGO COUNTY

FIRST CALL

Auto Parts For Professionals

STORE PHONE # 956 383-2859
ADDRESS: 1310 MONTE CRISTO
EDINBURG TX 78542-2132
REMIT TO: PO BOX 9464
SPRINGFIELD MO 65801-9464

BILL TO
IC 766551

HIDALGO CO SHERIFF DEPT

PO BOX 1228
EDINBURG TX 78542

SHIP TO

INVOICE NUMBER 1582-484688
INVOICE TYPE CHARGE SALE
INVOICE DATE 9/10/13

COUNTER NO.	SPECIAL INSTRUCTIONS	SHIP VIA	CUSTOMER ORDER NO.	TIME OF ORDER	FILLED BY	CHECKED BY
15182	UNIT 251	DELIVER	685416	16:19:28		

TAX	R C	QTY.	LINE	ITEM NUMBER	UNIT MEAS.	CO.	DESCRIPTION	LIST PRICE	NET PRICE	DISC %	CORE PRICE	EXTENDED PRICE
				Mechanix FastFit Gloves w/qualifying Monroe purchase. www.FirstCallPros.com								
		1	AC	10367690	EA	P	BODY CONTROL		179.60			179.60
		1	FRT	FREIGHT	EA	D	AC FREIGHT		13.00			13.00
TOTALS		2							192.60		SUB-TOTAL	192.60
											MISC.	
											TAX/FEES	.00
											TOTAL	192.60

CUSTOMER COPY

KOSTA
CUSTOMER SIGNATURE

CASH TEND.
CHANGE

ALL MERCHANDISE RETURNED MUST BE ACCOMPANIED BY THIS INVOICE

P

RECEIVED BY
COUNTY AUDITOR
2013 SEP 13 AM 9:41

UNIT# 251
2003 CHEVY 2500
VIN: 1GCHC29U33E308573
LP: 06K-GW6

P.O.# 685416
INVOICE RECEIVED BY:
V Rodriguez **ON:** 9-11-13
GOOD/SERVICES RECEIVED BY:
ERUIZ **ON:** 9-10-13
3-1100-421-00-280-001-0- 672

AI-41859 **Health & Human Services Dept. 10. A.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: Jaime Longoria, County Judge's **Submitted By:** Monica Badillo, EXECUTIVE OFFICE

Department: EXECUTIVE OFFICE

Information

CAPTION

Update on activities of Employee Wellness Committee

BACKGROUND

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/15/2013 03:40 PM
Manuel Chapa	Manuel Chapa	11/15/2013 04:52 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Monica Badillo Started On: 11/15/2013 03:19 PM

Final Approval Date: 11/15/2013

AI-41714 **Health & Human Services Dept. 10. B.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: Eddie Olivarez Submitted By: Mike Escaname, HEALTH & HUMAN SERVICES DEPT.

Department: HEALTH & HUMAN SERVICES DEPT.

Information

CAPTION

Pursuant to Chapter 465 Local Drug and Alcohol Education Programs, Sec.465.003, presentation on the Hidalgo County Health & Human Services Drug and Alcohol Abuse Advisory Commission's activities.

BACKGROUND

09/27/11 - AI-28729 - Creation of the Hidalgo County Health & Human Services Drug & Alcohol Abuse Advisory Commission.

Sec. 465.003. REPORT. The commission shall report annually to each entity that participates in the creation of the commission regarding the commission's activities.

Fiscal Impact

FISCAL YEAR: 2013 ACCT. #: N/A

FUNDS AVAILABLE Y/N?: N/A MATCHING FUNDS Y/N?: N

BUDGETARY IMPACT:

No budgetary impact.

Attachments

Chp 465

Form Review

Inbox	Reviewed By	Date
Budget & Management	Debbie Tamez	11/07/2013 10:31 AM
Auditor's Office	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Mike Escaname Started On: 11/07/2013 10:16 AM

Final Approval Date: 11/15/2013

HEALTH AND SAFETY CODE

TITLE 6. FOOD, DRUGS, ALCOHOL, AND HAZARDOUS SUBSTANCES

SUBTITLE B. ALCOHOL AND SUBSTANCE ABUSE PROGRAMS

CHAPTER 465. LOCAL DRUG AND ALCOHOL EDUCATION PROGRAMS

Sec. 465.001. COMMISSION. A municipality or county may create and support with public funds a commission to:

(1) educate the public on drug and alcohol abuse;

(2) promote drug and alcohol education at all levels of the schools;

(3) study the effectiveness of efforts, including the commission's efforts, in reducing drug and alcohol abuse; and

(4) create and administer a program to counsel or treat drug and alcohol abusers or to provide both counseling and treatment.

Amended by Acts 1991, 72nd Leg., ch. 14, Sec. 191.

Sec. 465.002. INDIVIDUAL OR JOINT ACTION. The municipality or county may create the commission by its own action or jointly by agreement with another municipality or county or a private foundation, nonprofit organization, church, or other entity. If the commission is created by agreement, all matters regarding the creation and operation of the commission are governed as provided by the agreement.

Amended by Acts 1991, 72nd Leg., ch. 14, Sec. 191.

Sec. 465.003. REPORT. The commission shall report annually to each entity that participates in the creation of the commission regarding the commission's activities.

Amended by Acts 1991, 72nd Leg., ch. 14, Sec. 191.

AI-41647 **Health & Human Services Dept. 10. C.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: Eddie Olivarez **Submitted By:** Mike Escaname, HEALTH & HUMAN SERVICES DEPT.

Department: HEALTH & HUMAN SERVICES DEPT.

Information

CAPTION

Pursuant to Health & Safety Code Chapter 121, requesting approval to appoint Dr. Ivan Melendez, Medical Director, as the Hidalgo County Local Health Authority for the period of December 6, 2013 to December 5, 2015.

BACKGROUND

In accordance with Health & Safety Code, Chapter 121, oath has to be administered on a biennium basis.

Fiscal Impact

FISCAL YEAR: 2013 **ACCT. #:** 3-1100-441-00-340-001-0-331

FUNDS AVAILABLE Y/N?: Y **MATCHING FUNDS Y/N?:** N

BUDGETARY IMPACT:

Attachments

Documents

Health and Safety Code

TAC Title 25

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/06/2013 03:40 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Mike Escaname Started On: 11/05/2013 03:37 PM

Final Approval Date: 11/15/2013

THE STATE OF TEXAS

Statement of Elected/Appointed Officer

(Please type or print legibly)

I Ivan Melendez, M.D. do solemnly swear (or affirm) that I have not directly or indirectly paid, offered, promised to pay, contributed, or promised to contribute any money or thing of value, or promised any public office or employment for the giving or withholding of a vote at the election at which I was elected or as a reward to secure my appointment or confirmation, whichever the case may be, so help me God.

_____
Affianced Signature

Ivan Melendez, M.D.
Printed Name

Hidalgo County Local Health Authority
Position to Which Elected/Appointed

Hidalgo County
City and/or County

SWORN TO and subscribed before me by affiant on this _____ day of _____ 20___.

_____
Signature of Person Authorized to Administer Oaths/Affidavits

(Seal)

Ramon Garcia
Printed Name

Hidalgo County Judge
Title

Pursuant to Tex. Const. Art. XVI, §1(b), (amended 2001). Revised by the Division for Regional and Local Health Services, February 2008.

OATH OF OFFICE

For Local Health Authorities in the State of Texas

I, Ivan Melendez, M.D., do solemnly swear (or affirm), that I will faithfully execute the duties of the office of Health Authority of the State of Texas and will to the best of my ability, preserve, protect, and defend the Constitution and laws of the United States and of this State, so help me God.

Ivan Melendez, M.D.
Affiant

3304 N. Bryan Rd, Mission, TX 78573
Mailing Address **ZIP**

(956)212-0902
(Area Code) Phone Number (day and evening)

_____
Email Address

SWORN TO and subscribed before me this _____ day of _____, 20___.

_____
Signature of Person Administering Oath

(Seal)

Ramon Garcia
Printed Name

Hidalgo County Judge
Title

Certificate of Appointment
For a
Local Health Authority

I, Ramon Garcia, acting in the capacity as a

(*Check the appropriate designation below*)

_____Non-physician and the Local Health Department Director
_____Mayor or Designee
__X___County Judge of Designee
_____Chairperson of the Public Health District

do hereby certify the physician, Ivan Melendez, M.D., who is licensed by the Texas Board of Medical Examiners, was duly appointed as the Local Health Authority for Hidalgo, Texas.

Date term of office begins December 6, 2013

Date term of office ends December 5, 2015, unless removed by law.

The Local Health Authority has been appointed and approved by the:

(Check the appropriate designation below)

_____Director, _____

_____City Council for the City of _____

___X__Commissioners Court for Hidalgo County

_____Board of Health for the _____Public Health District

I certify to the above information on this the _____ day of _____, 2013__.

_____
Signature of appointing official

(See reverse side for instructions)

Revised by the Division of Regional and Local Health Services, February 2008

HEALTH AND SAFETY CODE

TITLE 2. HEALTH

SUBTITLE F. LOCAL REGULATION OF PUBLIC HEALTH

CHAPTER 121. LOCAL PUBLIC HEALTH REORGANIZATION ACT

SUBCHAPTER A. GENERAL PROVISIONS

Sec. 121.001. SHORT TITLE. This chapter may be cited as the Local Public Health Reorganization Act.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989.

Sec. 121.002. DEFINITIONS. In this chapter:

(1) "Essential public health services" means services to:

(A) monitor the health status of individuals in the community to identify community health problems;

(B) diagnose and investigate community health problems and community health hazards;

(C) inform, educate, and empower the community with respect to health issues;

(D) mobilize community partnerships in identifying and solving community health problems;

(E) develop policies and plans that support individual and community efforts to improve health;

(F) enforce laws and rules that protect the public health and ensure safety in accordance with those laws and rules;

(G) link individuals who have a need for community and personal health services to appropriate community and private providers;

(H) ensure a competent workforce for the provision of essential public health services;

(I) research new insights and innovative solutions to community health problems; and

(J) evaluate the effectiveness, accessibility, and quality of personal and population-based health services in a community.

(2) "Physician" means a person licensed to practice medicine by the Texas State Board of Medical Examiners.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989. Amended by Acts 1999, 76th Leg., ch. 1378, Sec. 1, eff. June 19, 1999.

Sec. 121.003. POWERS OF MUNICIPALITIES AND COUNTIES. (a) The governing body of a municipality or the commissioners court of a county may enforce any law that is reasonably necessary to protect the public health.

(b) The governing bodies of municipalities and the commissioners courts of counties may cooperate with one another in making necessary improvements and providing services to promote the public health in accordance with The Interlocal Cooperation Act (Article 4413(32c), Vernon's Texas Civil Statutes).

(c) The commissioners court of a county may grant authority under this subsection to a county employee who is trained by a health authority appointed by the county under Section 121.021, by a local health department established under Section 121.031, or by a public health district established under Section 121.041 and who is not a peace officer. The court may grant to the employee the power to issue a citation in an unincorporated area of the county to enforce any law or order of the commissioners court that is reasonably necessary to protect the public health. A citation issued under this subsection must state the name of the person cited, the violation charged, and the time and place the person is required to appear in court. If a person who receives a citation under this subsection fails to appear on the return date of the citation, the court may issue a warrant for the person's arrest for the violation described in the citation.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989. Amended by Acts 1991, 72nd Leg., ch. 562, Sec. 1, eff. Aug. 26, 1991.

Sec. 121.0035. REGULATION OF MOBILE FOOD UNITS AND ROADSIDE FOOD VENDORS IN CERTAIN POPULOUS AREAS. (a) In this section, "mobile food unit" and "roadside food vendor" have the meanings assigned under Section 437.001.

(b) A municipality with a population of 1.5 million or more and

a county with a population of 3.4 million or more shall enforce state law and rules adopted under state law concerning mobile food units and roadside food vendors in the same manner that the county or municipality enforces other health and safety regulations relating to food service.

Added by Acts 2005, 79th Leg., Ch. 1288, Sec. 1, eff. September 1, 2005.

Sec. 121.004. LOCAL HEALTH UNITS. A local health unit is a division of municipal or county government that provides public health services but does not provide each service required of a local health department under Section 121.032(a) or of a public health district under Section 121.043(a).

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989.

Sec. 121.005. STATE AND LOCAL AFFILIATION; CONTRACTS. (a) A local health unit, local health department, or public health district may become affiliated with the department to facilitate the exchange of information and the coordination of public health services.

(b) To be affiliated with the department, a local health unit, local health department, or public health district must annually provide to the department information relating to:

(1) services provided;

(2) staffing patterns; and

(3) funding sources and budget.

(c) The department may contract with a local health unit, local health department, or public health district for the provision of public health services.

(d) The board may adopt rules necessary to implement this section.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989.

Sec. 121.006. PUBLIC HEALTH SERVICES FEES; STATE SUPPORT. (a) The governing body of a municipality, the commissioners court of a county, or the administrative board of a public health district may adopt ordinances or rules to charge fees for public health services.

(b) A municipality, county, or public health district may not deny public health services to an individual because of inability to pay for the services. A municipality, county, or public health district shall provide for the reduction or waiver of a fee for an individual who cannot pay for services in whole or in part.

(c) The Uniform Grant and Contract Management Act of 1981 (Article 4413(32g), Vernon's Texas Civil Statutes) and standards adopted under that Act control, if applicable, if the local health unit, local health department, or public health district receives state support for the provision of public health services.

(c-1) A fee for a public health service charged in the jurisdiction of a public health district may be uniform throughout the district regardless of which governmental entity member of the district charges the fee. The fee may be set at an amount up to the highest amount charged by any governmental entity member of the district.

(d) In this section, "public health services" means:

(1) personal health promotion and maintenance services;

(2) infectious disease control and prevention services;

(3) environmental and consumer health programs;

(4) public health education and information services;

(5) laboratory services; and

(6) administrative services.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989.
Amended by:

Acts 2007, 80th Leg., R.S., Ch. 810, Sec. 1, eff. September 1, 2007.

Sec. 121.0065. GRANTS FOR ESSENTIAL PUBLIC HEALTH SERVICES. (a) Subject to the availability of funds, the department shall administer a program under which appropriated money may be granted to counties, municipalities, public health districts, and other political subdivisions for use by the counties, municipalities, public health districts, and other political subdivisions to provide or pay for essential public health services.

(b) The grants authorized by Subsection (a) shall be distributed equally between urban and rural areas of the state.

(c) The board shall adopt rules governing:

(1) the allocation formula for grants awarded under this section;

(2) the manner in which a municipality, county, public health district, or other political subdivision applies for a grant;

(3) the procedures for awarding grants; and

(4) the minimum essential public health services to be provided under the grant and other standards applicable to the services to be provided under the grant.

(d) A municipality, county, public health district, or other political subdivision that receives a grant under this section, in consultation with the department, shall develop a plan to evaluate the effectiveness, accessibility, and quality of the essential public health services that are provided under the grant. The plan must:

(1) identify the outcomes that are intended to result from the use of the grant money and establish a mechanism to measure those outcomes; and

(2) establish performance standards for the delivery of essential public health services and a mechanism to measure compliance with those standards.

(e) The governing body of the municipality, the commissioners court of the county, or the members of a public health district may appoint a local health board to monitor the use of the money received under this section.

(f) A public health board established under Section 121.034 or 121.046 may serve as the local health board authorized under Subsection (e).

(g) The governing body of the municipality or the commissioners court of a county may serve as the local health board authorized under Subsection (e). If the governing body of the municipality or the commissioners court of the county elects to serve as the local health board, the governing body or commissioners court may appoint an advisory committee to advise the governing body or commissioners court with respect to the use of the money granted under this section.

(h) Chapter 783, Government Code, and standards adopted under that chapter control if applicable to a grant made under this section.

Added by Acts 1999, 76th Leg., ch. 1378, Sec. 2, eff. June 19, 1999.

Sec. 121.0066. ESSENTIAL PUBLIC HEALTH SERVICES PROVIDED BY DEPARTMENT. (a) Subject to the availability of funds, the department may provide essential public health services for a population for which a municipality, county, public health district, or other political subdivision is not receiving a grant to provide those services under Section 121.0065.

(b) Subject to the availability of funds, the department shall develop a plan that complies with Section 121.0065(d) to evaluate the effectiveness, accessibility, and quality of essential public health services provided under this section.

Added by Acts 1999, 76th Leg., ch. 1378, Sec. 2, eff. June 19, 1999.

Sec. 121.0067. EVALUATION AND REPORT OF DELIVERY OF ESSENTIAL PUBLIC HEALTH SERVICES. (a) The department, in cooperation with municipalities, counties, public health districts, and other political subdivisions that receive grants under Section 121.0065, and the consortium established under Subchapter F, shall evaluate:

(1) the effectiveness, accessibility, and quality of essential public health services provided under the grant program established by Section 121.0065 and under Section 121.0066; and

(2) the adequacy of funding for those services.

(b) Not later than January 1 of each odd-numbered year, the department shall file with the governor and the presiding officer of each house of the legislature a report detailing the results of the evaluation conducted under Subsection (a). The report must include recommendations relating to:

(1) legislation to improve the effectiveness, accessibility, and quality of essential public health services; and

(2) appropriate funding for those services.

Added by Acts 1999, 76th Leg., ch. 1378, Sec. 2, eff. June 19, 1999.

Sec. 121.007. PUBLIC HEALTH REGIONS. (a) The board may designate geographic areas of the state as public health regions to provide public health services.

(b) The board shall appoint a physician to serve as regional director for each public health region. The regional director is the

chief administrative officer of the region. The board shall establish the qualifications and terms of employment of a regional director.

(c) The board or its designee may require a regional director to perform the duties of a health authority. The regional director may perform those duties, as authorized by the board or commissioner, in a jurisdiction in the region in which the health authority fails to perform duties prescribed by the board under Section 121.024. The regional director shall perform the duties of a health authority in a jurisdiction in the region in which there is not a health authority.

(d), (e) Repealed by Acts 1999, 76th Leg., ch. 1378, Sec. 8, eff. June 19, 1999.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989. Amended by Acts 1991, 72nd Leg., ch. 118, Sec. 1, eff. Sept. 1, 1991; Acts 1999, 76th Leg., ch. 1378, Sec. 3, 8, eff. June 19, 1999.

Sec. 121.008. ANNUAL CONFERENCE. (a) The board shall hold an annual conference for health authorities and for directors of local health departments and public health districts. The commissioner or the commissioner's designee shall preside over the conference.

(b) A county or municipality may pay necessary expenses incurred by its health authority or director in attending the conference.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989.

SUBCHAPTER B. HEALTH AUTHORITIES

Sec. 121.021. HEALTH AUTHORITY. A health authority is a physician appointed under the provisions of this chapter to administer state and local laws relating to public health within the appointing body's jurisdiction.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989. Amended by Acts 1991, 72nd Leg., ch. 118, Sec. 2, eff. Sept. 1, 1991.

Sec. 121.022. QUALIFICATIONS. (a) A health authority must be:

(1) a competent physician with a reputable professional

standing who is legally qualified to practice medicine in this state; and

(2) a resident of this state.

(b) To be qualified to serve as a health authority, the appointee must:

(1) take and subscribe to the official oath; and

(2) file a copy of the oath and appointment with the board.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989.

Sec. 121.023. TERM OF OFFICE. A health authority serves for a term of two years and may be appointed to successive terms.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989.

Sec. 121.024. DUTIES. (a) A health authority is a state officer when performing duties prescribed by state law.

(b) A health authority shall perform each duty that is:

(1) necessary to implement and enforce a law to protect the public health; or

(2) prescribed by the board.

(c) The duties of a health authority include:

(1) establishing, maintaining, and enforcing quarantine in the health authority's jurisdiction;

(2) aiding the board in relation to local quarantine, inspection, disease prevention and suppression, birth and death statistics, and general sanitation in the health authority's jurisdiction;

(3) reporting the presence of contagious, infectious, and dangerous epidemic diseases in the health authority's jurisdiction to the board in the manner and at the times prescribed by the board;

(4) reporting to the board on any subject on which it is proper for the board to direct that a report be made; and

(5) aiding the board in the enforcement of the following in the health authority's jurisdiction:

(A) proper rules, requirements, and ordinances;

(B) sanitation laws;

(C) quarantine rules; and

(D) vital statistics collections.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989.

Sec. 121.025. REMOVAL FROM OFFICE. A health authority may be removed from office for cause under the personnel procedures applicable to the heads of departments of the local government that the health authority serves.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989.

SUBCHAPTER C. MUNICIPALITIES AND COUNTIES WITHOUT ORGANIZED LOCAL PUBLIC HEALTH DEPARTMENTS OR DISTRICTS

Sec. 121.028. APPOINTMENT OF HEALTH AUTHORITY. (a) The governing body of a municipality or the commissioners court of a county that has not established a local health department or a public health district may appoint a physician as health authority to administer state and local laws relating to public health in the municipality's or county's jurisdiction.

(b) The governing body of a municipality or the commissioners court of a county described by Subsection (a) that is receiving a grant under Section 121.0065 shall appoint a physician as health authority.

(c) An individual appointed to serve as health authority for a county or municipality may serve as the health authority for one or more other jurisdictions under an interlocal contract made in accordance with Chapter 791, Government Code.

Added by Acts 1991, 72nd Leg., ch. 118, Sec. 3, eff. Sept. 1, 1991. Amended by Acts 1999, 76th Leg., ch. 1378, Sec. 4, eff. June 19, 1999.

Sec. 121.029. DELEGATION OF AUTHORITY. (a) A health authority, unless otherwise restricted by law, may delegate a power or duty imposed on the health authority by the board, or by this or any other law, to a properly qualified physician to act while the health authority is absent or incapacitated.

(b) The physician designated by the health authority must:

(1) meet the qualifications set out in Section 121.022(a);

(2) be appointed as a designee in the same manner as the appointment of the health authority;

(3) take, subscribe, and file the official oath and appointment with the board as required by Section 121.022(b); and

(4) file a certified copy of the written delegation with the board.

(c) The delegation is effective during the term of the health authority who made the delegation; however, the health authority may limit the time to a shorter duration in the written delegation of authority.

(d) The health authority is responsible for the acts of the physician to whom the health authority has delegated the power or duty.

(e) The entity that appoints the health authority and the designee health authority must adopt procedures for the service of the designee as health authority under this section. The procedures shall prevent duplication of authority between the health authority and the designee and provide notice to the department when authority is transferred.

Added by Acts 1991, 72nd Leg., ch. 118, Sec. 3, eff. Sept. 1, 1991.

SUBCHAPTER D. LOCAL HEALTH DEPARTMENTS

Sec. 121.031. ESTABLISHMENT. The governing body of a municipality or the commissioners court of a county may establish a local health department by majority vote.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989.

Sec. 121.032. POWERS AND DUTIES. A local health department may perform all public health functions that the municipality or county that establishes the local health department may perform.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989. Amended by Acts 1999, 76th Leg., ch. 1378, Sec. 5, eff. June 19, 1999.

Sec. 121.033. DEPARTMENT DIRECTOR. (a) The governing body of a municipality or the commissioners court of a county shall appoint the director of the municipality's or county's local health department.

(b) The director is the chief administrative officer of the local health department, and if the director is a physician, the director is the health authority in the local health department's jurisdiction.

(c) The governing body of a municipality or the commissioners court of a county may designate a person to perform its appointment duties under this section.

(d) A director of a local health department who is not a physician shall appoint a physician as the health authority in the local health department's jurisdiction, subject to the approval of the governing body or the commissioners court, as appropriate, and the board.

(e) The governing body or the commissioners court, as appropriate, shall set the compensation of the director and the health authority in its jurisdiction, except that the compensation, including a salary, may be allowed only for services actually rendered.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989. Amended by Acts 1989, 71st Leg., ch. 1100, Sec. 5.07(a), eff. Sept. 1, 1989.

Sec. 121.0331. DELEGATION OF AUTHORITY. (a) A health authority, unless otherwise restricted by law, may delegate a power or duty imposed on the health authority by the board, or by this or any other law, to a properly qualified physician who is employed by the municipality's or county's local health department to act while the health authority is absent or incapacitated.

(b) The physician designated by the health authority must:

(1) meet the qualifications set out in Section 121.022(a);

(2) be appointed as a designee in the same manner as the appointment of the health authority;

(3) take, subscribe, and file the official oath and appointment with the board as required by Section 121.022(b); and

(4) file a certified copy of the written delegation with the board.

(c) The delegation is effective during the term of the health authority who made the delegation; however, the health authority may limit the delegation to a shorter duration in the written delegation of authority.

(d) The health authority is responsible for the acts of the physician to whom the health authority has delegated the power or duty.

(e) The entity or entities that appoint the health authority and the designee health authority must adopt procedures for the service of the designee as health authority under this section. The procedures shall prevent duplication of authority between the health authority and the designee and provide notice to the department when authority is transferred.

Added by Acts 1991, 72nd Leg., ch. 118, Sec. 7, eff. Sept. 1, 1991.

Sec. 121.034. PUBLIC HEALTH BOARD. (a) The governing body of a municipality that establishes a local health department may provide for the creation of an administrative or advisory public health board and the appointment of representatives to that board.

(b) The commissioners court of a county that establishes a local health department may provide for the creation of an advisory public health board and the appointment of representatives to that board.

(c) The director of the local health department is an ex officio, nonvoting member of any public health board established for the local health department.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989.

SUBCHAPTER E. PUBLIC HEALTH DISTRICTS

Sec. 121.041. ESTABLISHMENT. By a majority vote of each governing body, a public health district may be established by:

(1) two or more counties;

(2) two or more municipalities;

(3) a county and one or more municipalities in the county; or

(4) two or more counties and one or more municipalities in those counties.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989.

Sec. 121.042. ADMISSION TO DISTRICT. (a) Any governmental

entity, including a school district, may apply to become a member of a public health district.

(b) The governing body of each member shall review the application.

(c) The governmental entity may be admitted to membership on terms acceptable to the applicant and the members if a majority of the governing body of each member approves the application.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989.

Sec. 121.043. POWERS AND DUTIES. (a) A public health district may perform any public health function that any of its members may perform unless otherwise restricted by law.

(b) For purposes of Section 121.005, a public health district shall be identified by its program of public health services and shall, at a minimum, provide the services listed for a local health department under Section 121.032(b).

(c) A public health district may sue and be sued.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989. Amended by Acts 1991, 72nd Leg., ch. 476, Sec. 3, eff. Aug. 26, 1991.

Sec. 121.044. COOPERATIVE AGREEMENT. (a) The members of a public health district shall prepare a written cooperative agreement that sets out fully the terms of operation of the district.

(b) The terms in a cooperative agreement must include:

(1) organizational structure;

(2) financial administration; and

(3) procedures for:

(A) modification of the cooperative agreement;

(B) admission, withdrawal, and expulsion of members;

(C) dissolution of the district; and

(D) selection and removal of a director.

(c) A cooperative agreement must be:

(1) approved by the governing body of each member; and

(2) signed by the appropriate officers of each governing body.

(d) A modification of a cooperative agreement must be in

writing. A modification is effective on approval by the governing body of each member.

(e) A copy of a cooperative agreement and of each modification shall be:

(1) included in the minutes of the governing body of each member; and

(2) filed with the clerk of each county and municipality in the district and with the department.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989.

Sec. 121.045. DISTRICT DIRECTOR. (a) The members of a public health district shall appoint the director of the district.

(b) The director is the chief administrative officer of the public health district, and if the director is a physician, the director is the health authority in the district's jurisdiction.

(c) A member may designate a person to perform its appointment duties under this section.

(d) A director of a public health district who is not a physician shall appoint a physician as the health authority for the district, subject to the approval of the members and the board.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989. Amended by Acts 1989, 71st Leg., ch. 1100, Sec. 5.07(a), eff. Sept. 1, 1989.

Sec. 121.0451. DELEGATION OF AUTHORITY. (a) A health authority, unless otherwise restricted by law, may delegate a power or duty imposed on the health authority by the board, or by this or any other law, to a properly qualified physician who is employed by the public health district to act while the health authority is absent or incapacitated.

(b) The physician designated by the health authority must:

(1) meet the qualifications set out in Section 121.022(a);

(2) be appointed as a designee in the same manner as the appointment of the health authority;

(3) take, subscribe, and file the official oath and appointment with the board as required by Section 121.022(b); and

(4) file a certified copy of the written delegation with

the board.

(c) The delegation is effective during the term of the health authority who made the delegation; however, the health authority may limit the delegation to a shorter duration in the written delegation of authority.

(d) The health authority is responsible for the acts of the physician to whom the health authority has delegated the power or duty.

(e) The entity or entities that appoint the health authority and the designee health authority must adopt procedures for the service of the designee as health authority under this section. The procedures shall prevent duplication of authority between the health authority and the designee and provide notice to the department when authority is transferred.

Added by Acts 1991, 72nd Leg., ch. 118, Sec. 7, eff. Sept. 1, 1991.

Sec. 121.046. PUBLIC HEALTH BOARD. (a) The cooperative agreement of a public health district may provide for the creation of an advisory or administrative public health board.

(b) An advisory public health board shall advise the members and director on matters of public health.

(c) An administrative public health board may adopt substantive and procedural rules that are necessary and appropriate to promote and preserve the health and safety of the public. However, an administrative board may not adopt a rule that is not specifically authorized by state law, conflicts with a law of this state, or conflicts with an ordinance of a municipality or county in the district.

(d) A public health board may perform any function relating to the operation of the public health district that is required under the cooperative agreement.

(e) The terms of a cooperative agreement that provides for a public health board must include:

(1) the composition and number of the representatives that compose the public health board;

(2) a method for appointing representatives to the public health board;

(3) the length of the representatives' terms, which must

be staggered;

(4) a requirement that a representative must have resided in the district for at least three years before the date of the representative's appointment;

(5) a requirement that each representative serve without compensation;

(6) the manner in which a vacancy is filled for an unexpired term;

(7) the procedure and substantive criteria for the removal of a representative; and

(8) a description of the relationship between the director and the public health board.

(f) The director is an ex officio, nonvoting member of a public health board established by the cooperative agreement.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989.

Sec. 121.047. FINANCES. The members of a public health district shall pay the costs necessary to operate the district, including costs for:

(1) staff salaries;

(2) supplies;

(3) suitable offices;

(4) health and clinic centers;

(5) health services and facilities; and

(6) maintenance.

Acts 1989, 71st Leg., ch. 678, Sec. 1, eff. Sept. 1, 1989.

SUBCHAPTER F. PUBLIC HEALTH CONSORTIUM

Sec. 121.101. DEFINITION. In this chapter, "consortium" means the public health consortium established under this subchapter.

Added by Acts 1999, 76th Leg., ch. 1378, Sec. 6, eff. June 19, 1999.

Sec. 121.102. CONSORTIUM ESTABLISHED. Subject to availability of funds, the department shall establish a public health consortium composed of:

(1) The University of Texas Health Science Center at San Antonio;

(2) The University of Texas M. D. Anderson Cancer Center;

(3) The University of Texas Southwestern Medical Center at Dallas;

(4) The University of Texas Medical Branch at Galveston;

(5) The University of Texas Health Science Center at Houston;

(6) The University of Texas Health Science Center at Tyler;

(7) the Texas Tech University Health Sciences Center;

(8) The Texas A&M University Health Science Center;

(9) the University of North Texas Health Science Center at Fort Worth; and

(10) any other public institution of higher education that elects to participate in the consortium.

Added by Acts 1999, 76th Leg., ch. 1378, Sec. 6, eff. June 19, 1999.

Sec. 121.103. GENERAL DUTIES. (a) Subject to the availability of funds, the department, in consultation with the consortium and local health units, local health departments, and public health districts, shall:

(1) develop curricula to provide training to public health workers;

(2) conduct research on improving health status outcomes and methods of monitoring those outcomes;

(3) develop performance standards for local health units, local health departments, and public health districts;

(4) develop competency certification standards for public health workers; and

(5) study the technology infrastructure available to local health units, local health departments, and public health districts and improve the use of this infrastructure to permit:

(A) statewide communication relating to disease surveillance and reporting of public health information; and

(B) immediate access to public health information and collaboration among public health professionals.

(b) The training curricula described by Subsection (a)(1) may

include training for local health authorities.

Added by Acts 1999, 76th Leg., ch. 1378, Sec. 6, eff. June 19, 1999.

<<Prev Rule

Texas Administrative Code

Next Rule>>

TITLE 25	HEALTH SERVICES
PART 1	DEPARTMENT OF STATE HEALTH SERVICES
CHAPTER 85	HEALTH AUTHORITIES
SUBCHAPTER A	LOCAL PUBLIC HEALTH
RULE §85.1	**Health Authorities**

(a) A health authority is a physician appointed under the Local Public Health Reorganization Act, Health and Safety Code, Chapter 121 by the governing body of a city, county, or public health district to administer the state and local laws relating to public health.

(b) A health authority must be appointed in a municipality or county that has established a local health department or public health district.

(1) The director of a local health department or public health district, if the director is a physician, shall be the health authority within the jurisdiction of the local health department or district.

(2) If a non-physician serves as the director of a local health department or public health district, the director shall appoint a physician to serve as the health authority within the jurisdiction of such local health department or district subject to the approval of the governing body of the local health department or public health district. No action is required by the Board of Health (board) to further approve the appointment.

(c) A health authority may be appointed, but is not required to be appointed, in a municipality or county that has not established a local health department or public health district unless it falls under subsection (d) of this section. The governing body of the municipality or the commissioners court of the county may appoint the health authority within its jurisdiction.

(d) A health authority serves for a term of two years and may be appointed to successive terms.

(e) A regional director of the department shall perform the duties of a health authority for a municipality, county, public health district, or entity authorized to appoint a health authority in a jurisdiction in the regional director's region in which there is no health authority. A regional director is a physician who is employed by the department and serves as the chief administrative officer of a region. A region is a geographic area of the State of Texas designated by the department.

(f) A regional director of the department may perform some or all of the duties of a health authority if an appointed health authority fails to perform duties prescribed by the board in this section. At the request of the appointing authority, a regional director may serve as a health authority because of the absence or incapacity of the appointed health authority. No action by the board is necessary to further approve a regional director's performance or service.

(g) A health authority shall perform each duty that is necessary to implement and enforce a law to protect the public health as stated in the Health and Safety Code, §121.024.

(h) An appointed health authority shall take the official oath required by the Texas Constitution, Article 16, §1, including the statement of appointed officer and file a copy of the oath and appointment with

the appropriate regional office within ten working days of the date of taking the oath.

(i) If a health authority ceases to hold office for any reason, the appointing authority shall immediately notify the department and appropriate regional director. When a new health authority has been appointed, the person will take the action outlined in subsection (i) of this section and notify the appropriate regional office of the change.

Source Note: The provisions of this §85.1 adopted to be effective February 3, 2000, 25 TexReg 576

Next Page Previous Page

List of Titles Back to List

HOME | TEXAS REGISTER | TEXAS ADMINISTRATIVE CODE | OPEN MEETINGS | HELP |

AI-41643 **Health & Human Services Dept. 10. D.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: Eddie Olivarez **Submitted By:** Mike Escaname, HEALTH & HUMAN SERVICES DEPT.

Department: HEALTH & HUMAN SERVICES DEPT.

Information

CAPTION

1. Requesting approval of the Certification of Revenue in the amount of $25,000.00. These funds are from the Tuberculosis program income projected to be collected during the fiscal year ending 08/31/14.

2. Requesting approval of the budget appropriation in the amount of $25,000.00.

BACKGROUND

Program Income projection is based on history of previous two years:
FY 12 = $30,216.09
FY 13 = $30,446.58

Fiscal Impact

FISCAL YEAR: See below **ACCT. #:** 3-1293-441-10-340-008-4-XXX

FUNDS AVAILABLE Y/N?: Y **MATCHING FUNDS Y/N?:** N

BUDGETARY IMPACT:

County fiscal year is 2013
Grant fiscal year is 2014

Attachments

Budget appropriation
Certification of Revenues

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/06/2013 03:27 PM
Manuel Chapa	Manuel Chapa	11/15/2013 10:14 AM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Mike Escaname Started On: 11/05/2013 01:30 PM

Final Approval Date: 11/15/2013

DATE: November 19, 2013

DEPARTMENT HEAD: Eduardo Olivarez, Chief Administrative Officer

DEPARTMENT NAME: Hidalgo County Health & Human Services Department

ACCOUNT NUMBER: 3-1293-441-00-340-008-4-XXX T.B. Control (State)

SUBJECT: Budget Amendments (Increases) in Accordance with Local Government Code, Chapter 111, Subchapter C

Honorable Commissioner's Court of Hidalgo County:

I would like to request the following amendments (increase) to my department budget in accordance with Local Government Code, Chapter 111, Subchapter C.

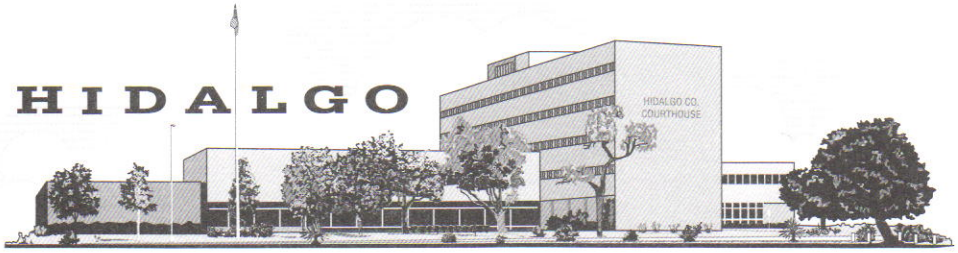
INCREASE OBJECT NUMBER(S)	ACCOUNT (OBJECT) NAME	AMOUNT -
Supplies		
3-1293-441-10-340-008-4-601	T.B. Control - Office & Comp Supplies	$ 12,000.00
3-1293-441-10-340-008-4-607	T.B. Control - Household & Janitorial Supplies	$ 7,000.00
3-1293-441-10-340-008-4-619	T.B. Control - Other Miscellaneous Supplies	$ 1,000.00
3-1293-441-10-340-008-4-661	T.B. Control - Minor Office Furniture & Equipment	$ 5,000.00
	TOTAL APPROPRIATION	$ 25,000.00
3-1293-345-40-340-008-4-000	T.B. Control - Program Income Revenue	$ 25,000.00
	TOTAL APPROPRIATION	$ 25,000.00

REASON: To appropriate the program income monies for the T.B. Control program for FY 14.

DEPARTMENT HEAD SIGNATURE

APPROVED COMMISSIONER'S C(DATE ATTEST CO. CLERK

COUNTY of HIDALGO



EDINBURG, TEXAS 78539

HIDALGO COUNTY AUDITOR'S OFFICE
Hidalgo County Administration Building
2808 South Business Highway 281
Edinburg, Texas 78539-6243
PHONE: (956) 318-2511
FAX: (956) 318-2577
WEBSITE: www.co.hidalgo.tx.us/auditor

HIDALGO COUNTY
BUDGET OFFICE
2013 NOV 14 PM 4 38

November 14, 2013

The Honorable Ramon Garcia, Hidalgo County Judge
The Honorable A.C. Cuellar, Jr., Commissioner, Precinct No. 1
The Honorable Hector "Tito" Palacios, Commissioner, Precinct No. 2
The Honorable Jose M. Flores, Commissioner, Precinct No. 3
The Honorable Joseph Palacios, Commissioner, Precinct No. 4

RE: Certification of Revenue

Dear Judge and Commissioners:

Pursuant to Local Government Code § 111.0706 SPECIAL BUDGET FOR GRANT OR AID MONEY:

> The county auditor shall certify to the commissioners' court the receipt of revenue from a new source not anticipated before the adoption of the budget and not included in the budget for that particular fiscal year. On certification, the court may adopt a special budget for the limited purpose of spending the revenue for general purposes or for any of its intended purposes.

I, Ray Eufracio, County Auditor of Hidalgo County, certify to the Hidalgo County Commissioners Court program income in the amount of $25,000.00 to be generated by the Hidalgo County Health & Human Services Department for the Tuberculosis Prevention and Control FY14 Grant. These funds may now be made available by creating a new special budget or amending a current budget for its intended purposes.

CERTIFIED BY:

Raymundo Eufracio, CPA
Hidalgo County Auditor

11/14/13
Date

HIDALGO COUNTY DISTRICT JUDGES

RICARDO P. RODRIGUEZ, JR. JUDGE, 92ND D.C. | RODOLFO DELGADO JUDGE, 93RD D.C. | J. R. "BOBBY" FLORES JUDGE, 139TH D.C. | ROSE GUERRA REYNA JUDGE, 206TH D.C. | JUAN R. PARTIDA JUDGE, 275TH D.C. | MARIO E. RAMIREZ, JR. JUDGE, 332ND D.C. | NOE GONZALEZ JUDGE, 370TH D.C. OVERSEER | LETICIA LOPEZ JUDGE, 389TH D.C. | AIDA SALINAS FLORES JUDGE, 398TH D.C. | ISRAEL RAMON, JR. JUDGE, 430TH D.C. | JESSE CONTRERAS JUDGE, 449TH D.C.

AI-41644 **Health & Human Services Dept. 10. E.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: Eddie Olivarez **Submitted By:** Mike Escaname, HEALTH & HUMAN SERVICES DEPT.

Department: HEALTH & HUMAN SERVICES DEPT.

Information

CAPTION

1. Requesting approval of the Certification of Revenue in the amount of $106,712.55. Funds are from the Health & Human Services Commission - Medicaid Administrative Claiming reimbursement.

2. Requesting approval to appropriate the MAC budget in the amount of $106,712.55.

BACKGROUND

MAC reimbursement is from quarter April - June 2013.

Fiscal Impact

FISCAL YEAR: 2013 **ACCT. #:** 3-1293-441-00-340-059-0-xxx

FUNDS AVAILABLE Y/N?: Y **MATCHING FUNDS Y/N?:** N

BUDGETARY IMPACT:

Appropriation in the amount of $106,712.55

Revenue account: 3-1293-331-12-340-059-0-000 MAC Revenues

Attachments

Award

Appropriation

Certification of Revenues

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/06/2013 03:39 PM
Manuel Chapa	Manuel Chapa	11/15/2013 11:49 AM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Mike Escaname Started On: 11/05/2013 02:27 PM

Final Approval Date: 11/15/2013

Payment Information

Tips:

- * Both the **Invoice Number** and **Invoice Description** fields display information provided by the paying agency. Contact the paying agency for additional information if needed.
  Paying Agency Contact List

Texas Identification Number	Mail Code	Payment Number	Payment Type	Paying Agency	Total
17460007176	060	5012744	DD	529	106712.55

Document Number	Invoice Number	Invoice Description	Invoice Amount	Interest Amount
9SA05772	PC1274C VOUCHERID:10054	MEDICAID ADMINISTRATIVE CLAIMS (MAC) APRIL - JUNE 2013	-49.95	0.00
9SA05772	PC1274C VOUCHERID:10054	MEDICAID ADMINISTRATIVE CLAIMS (MAC) APRIL - JUNE 2013	999.00	0.00
9SA05772	PC1274C VOUCHERID:10054	MEDICAID ADMINISTRATIVE CLAIMS (MAC) APRIL - JUNE 2013	-5,566.50	0.00
9SA05772	PC1274C VOUCHERID:10054	MEDICAID ADMINISTRATIVE CLAIMS (MAC) APRIL - JUNE 2013	111,330.00	0.00

10-22-2013

3-1293-126-20-000-013-0-000

J/E 34393 REC 4-6/13 MAC BILLG

Cindy Paslak 10/29/2013

DATE: November 19, 2013

DEPARTMENT HEAD: Eduardo Olivarez, Chief Administrative Officer

DEPARTMENT NAME: Hidalgo County Health & Human Services Department

ACCOUNT NUMBER: 3-1293-441-00-340-059-0-XXX Medicaid Administrative Claiming

SUBJECT: Budget Amendments (Increases) in Accordance with Local Government Code, Chapter 111, Subchapter C

Honorable Commissioner's Court of Hidalgo County:

I would like to request the following amendments (increase) to my department budget in accordance with Local Government Code, Chapter 111, Subchapter C.

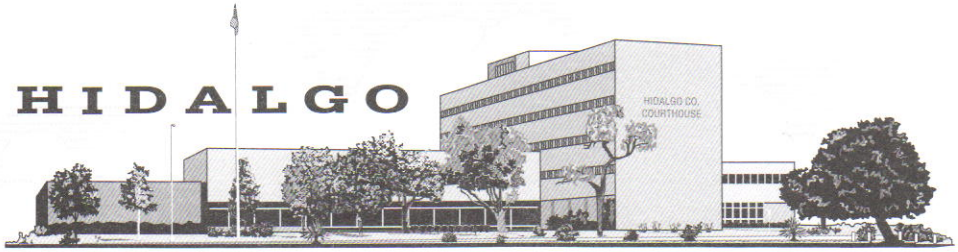
INCREASE OBJECT NUMBER(S)	ACCOUNT (OBJECT) NAME	AMOUNT -
Travel		
3-1293-441-00-340-059-0-581	MAC - In-County Travel	$ 2,000.00
Supplies		
3-1293-441-00-340-059-0-601	MAC - Office & Computer Supplies	$ 15,000.00
3-1293-441-00-340-059-0-603	MAC - Educational / Instructional Suplies	$ 5,000.00
3-1293-441-00-340-059-0-604	MAC - Medical / Laboratory Supplies	$ 15,000.00
3-1293-441-00-340-059-0-607	MAC - Household & Janitorial Supplies	$ 15,000.00
3-1293-441-00-340-059-0-661	MAC - Minor Office Furniture & Equipment	$ 5,000.00
3-1293-441-00-340-059-0-664	MAC - Other Minor Equipment	$ 5,000.00
3-1293-441-00-340-059-0-665	MAC - Minor Computer Equipment	$ 2,712.55
Other		
3-1293-441-00-340-059-0-339	MAC - Other Professional Services	$ 10,000.00
3-1293-441-00-340-059-0-432	MAC - Repair & Maintenance Services -Equipment & Veh	$ 5,000.00
3-1293-441-00-340-059-0-535	MAC - Postage	$ 2,000.00
3-1293-441-00-340-059-0-540	MAC - Advertising	$ 20,000.00
3-1293-441-00-340-059-0-550	MAC - Printing & Binding	$ 5,000.00
	TOTAL APPROPRIATION	$ 106,712.55
3-1293-331-12-340-059-0-000	MAC - Revenue	$ 106,712.55
	TOTAL APPROPRIATION	$ 106,712.55

REASON: To appropriate Medicaid Administrative Claiming funds (Quarter April through June 2013)

DEPARTMENT HEAD SIGNATURE

APPROVED COMMISSIONER'S DATE ATTEST CO. CLERK

COUNTY of HIDALGO



EDINBURG, TEXAS 78539

HIDALGO COUNTY AUDITOR'S OFFICE
Hidalgo County Administration Building
2808 South Business Highway 281
Edinburg, Texas 78539-6243
PHONE: (956) 318-2511
FAX: (956) 318-2577
WEBSITE: www.co.hidalgo.tx.us/auditor

HIDALGO COUNTY
BUDGET OFFICE
2013 NOV 14 PM 4 38

November 14, 2013

The Honorable Ramon Garcia, Hidalgo County Judge
The Honorable A.C. Cuellar, Jr., Commissioner, Precinct No. 1
The Honorable Hector "Tito" Palacios, Commissioner, Precinct No. 2
The Honorable Jose M. Flores, Commissioner, Precinct No. 3
The Honorable Joseph Palacios, Commissioner, Precinct No. 4

RE: Certification of Revenue

Dear Judge and Commissioners:

Pursuant to Local Government Code § 111.0706 SPECIAL BUDGET FOR GRANT OR AID MONEY:

> The county auditor shall certify to the commissioners court the receipt of all public or private grant or aid money that is available for disbursement in a fiscal year but not included in the budget for that fiscal year. On certification, the court shall adopt a special budget for the limited purpose of spending the grant or aid money for its intended purpose.

I, Ray Eufracio, County Auditor of Hidalgo County, certify to the Hidalgo County Commissioners Court the receipt of an award from the Health and Human Services Commission. These funds may now be made available by creating a new special budget or amending a current budget for its intended purposes.

AMOUNT	PURPOSE
$106,712.55	Medicaid Administrative Claiming (MAC)

CERTIFIED BY:

Raymundo Eufracio, CPA
Hidalgo County Auditor

11/14/13
Date

HIDALGO COUNTY DISTRICT JUDGES

RICARDO P. RODRIGUEZ, JR. JUDGE, 92ND D.C. | RODOLFO DELGADO JUDGE, 93RD D.C. | J. R. "BOBBY" FLORES JUDGE, 139TH D.C. | ROSE GUERRA REYNA JUDGE, 206TH D.C. | JUAN R. PARTIDA JUDGE, 275TH D.C. | MARIO E. RAMIREZ, JR. JUDGE, 332ND D.C. | NOE GONZALEZ JUDGE, 370TH D.C. OVERSEER | LETICIA LOPEZ JUDGE, 389TH D.C. | AIDA SALINAS FLORES JUDGE, 398TH D.C. | ISRAEL RAMON, JR. JUDGE, 430TH D.C. | JESSE CONTRERAS JUDGE, 449TH D.C.

AI-41623 **Urban County 11. A.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: Monica Leal **Submitted By:** Mary Flores, URBAN COUNTY

Department: URBAN COUNTY

Information

CAPTION

Urban County Program on behalf of the City of Mercedes is requesting authority to purchase fire station equipment (dual band base stations and dual band radios) for the Mercedes Fire Department. Purchase will be made from Motorola (contract # RA05-12) an approved vendor through Hidalgo County's membership and participation with H-GAC. The total amount of purchase is $78,569.30 (quote attached) for the Mercedes Fire Department funded thru FY 26 (2013) Mercedes – Fire Station/Equipment line item.

BACKGROUND

The fire station/equipment (dual band base stations and dual band radios) purchased will be utilized at the Mercedes Fire Department. See attached quote.

Vendor: **Motorola**
Purchase Amount: **$78,569.30**

Funds Available: $ 85,289.00 FY 26 (2013) Fire Station/Equipment

Attachments

Agenda backup

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/06/2013 11:35 AM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Mary Flores Started On: 11/04/2013 02:04 PM

Final Approval Date: 11/15/2013

COUNTY OF HIDALGO - URBAN COUNTY PROGRAM

Price Proposal Form

Price Proposal Form must be submitted to Urban County for pre-approval prior to the purchase. Use additional forms as needed.

Name Of Cooperative: HGAC Person Contacted: James Ewing

Name: Motorola Contract #: RA05-12 Phone: 956-687-8591

Item #	Description of Items	Quantity	List Price Per Unit	COOP Price Per Unit	Total Amount
1	APX7500 Dual Band Mid Power	6	2,272.00	1,704.00	10,224.00
2	Add: Enable Dual Band Operation	6	600.00	450.00	2,700.00
3	Add: 7/800MHZ Primary Band	6	0.00	0.00	0.00
4	Add: VHF MP Secondary Band	6	400.00	300.00	1,800.00
5	Enh: IMBE Astro Digital CAI Operation	6	515.00	386.25	2,317.50
6	Enh: Smartzone Operation APX	6	1,500.00	1,125.00	6,750.00
7	Add: Advanced System Key - Hardware Key	6	5.00	3.75	22.50
8	Add: P25 Trunking Software	6	300.00	225.00	1,350.00
9	Add: APX7500 05 Control Head	6	432.00	324.00	1,944.00
10	Add: Control Head Software	6	0.00	0.00	0.00
11	Add: Remote Mount	6	297.00	222.75	1,336.50
12	Add: Antenna 3DB Low-Profile 762-870MHZ	6	43.00	32.25	193.50
13	Add: VHF Ant Wideband 136-174MHZ	6	75.00	56.25	337.50
14	Add: Palm Microphone	6	72.00	54.00	324.00
15	Add: Auxilary Spkr 7.5 watt	6	60.00	45.00	270.00
16	Enh: Over the Air Provisioning	6	100.00	75.00	450.00
17	Add: RS232 Packet Data Interface	6	200.00	150.00	900.00
18	Add: GPS Activation	6	100.00	75.00	450.00
19	Add: GPS Antenna	6	75.00	56.25	337.50
20	Enh: 2 Year Repari Service Advantage	6	158.00	158.00	948.00
21	Add: Printed Test Results APEX	6	0.00	0.00	0.00
22	Services- Template #1	1	100.00	100.00	100.00
23	Services - Programming	6	45.00	45.00	270.00
24	Services - Installation (In-Shop) * JLE	6	175.00	175.00	1,050.00
25	Services - Removal (In-Field)	6	100.00	100.00	600.00
26	Services - Other Services (Install Headsets)	6	225.00	225.00	1,350.00
	Freight				
				TOTAL	**36,025.00**

Recommendation: The City recommends purchase of the APX7500 Dual Band Mid Power with all components for the Mercedes Fire Station/Equipment.

Requested By: _____ 10/31/2013
(USE BLUE INK Date

UCP Deputy _____ 11/3/13
(USE BLUE INK) Date

MOTOROLA
Authorized Radio System Specialist

MERCEDES-CITY OF-
FIRE DPEARTMENT
321 SOUTH OHIO STREET
MERCEDES, TX. 78570

DATE:	10/31/2013
QUOTE #:	13-100499-4
BY:	308
ATTN:	JAIME GARCIA
PHONE:	956-565-7755
FAX:	956-565-8592
EMAIL:	IGARCIA@CITYOFMERCEDES.NET
USER CONTACT	JAIME GARCIA
CONTACT #	956-565-7755

HGAC CONTRACT # RA05-12

APX 7500 MOBILE - O5/O3 - P25 - 700/800 - VHF

SYSTEM CONFIGURATIONS:
ASTRO 25 DIGITAL TRUNKING, ASTRO ANALOG AND DIGITAL TRUNKING, AND ANALOG AND DIGITAL CONVENTIONAL ••• 1000 - CHANNEL / MODES ••• 700/800 MHZ DUAL BAND (764-870MHZ) ••• 10-35 WATT ••• INTEGRATED VOICE AND DATA, STATUS MESSAGE SERVICE ••• STD OR HAND HELD **CONTROL HEADS** ••• USB/RS232 CONNECTIVITY DASH OR REMOTE MOUNT MULTI-CONTROL HEAD CAPABILITY
O3 HANDHELD CONTROL HEAD ••• 4-LINE/14/2 ICONS CHARACTER ALPHANUMERIC DISPLAY ••• 2.4 W X 5.0 L KEYPAD MICROPHONE WITH UP TO 24 PROGRAMMABLE SOFT KEYS ••• PORTABLE STYLE USER INTERFACE AND COLOR DISPLAY
O5 CONTROL HEAD ••• 4-LINE / 14 CHARACTER, CUSTOMIZABLE, ULTRA-READABLE, TRI-COLOR LCD DISPLAY ••• 2.75 W X 4 L KEYPAD MICROPHONE ACCESSORY WITH 3 PROGRAMMABLE SOFT KEYS ••• 5 PROGRAMMABLE SOFT KEY BUTTONS ••• 5 SCROLL THROUGH MENUS WITH UP TO 24 PROGRAMMABLE SOFT KEYS ••• MULTIPLE CONTROL HEAD CONFIGURATIONS TO FULLY CONTROL A SINGLE RADIO FROM UP TO 4 DIFFERENT WIRED LOCATIONS
ENHANCED ENCRYPTION ••• TYPE III AND TYPE IV ENCRYPTION INCLUDING DES, DES-XL, DES-OFB, DVI-XL, DVP-XL AND AES ALGORITHMS, WITH MULTI-KEY OR ADVANCED DIGITAL PRIVACY (ADP) ••• FLASHPORT SW UPGRDS ••• CONTROL STATION OPERATION ••• MIL SPEC - 810 C, D, E, F

ITEM	APC	QTY.	MODEL	DESCRIPTION	UNIT LIST	HGAC UNIT	HGAC EXTENDED
				MODELS AND OPTIONS			
	656	6	M30TSS9PW1 N	APX7500 DUAL BAND MID POWER	$ 2,272.00	$ 1,704.00	$ 10,224.00
	656	6	GA00579	ADD: ENABLE DUAL BAND OPERATION	$ 600.00	$ 450.00	$ 2,700.00
	656	6	GA00244	ADD: 7/800MHZ PRIMARY BAND	$ -	$ -	$ -
	656	6	GA00308	ADD: VHF MP SECONDARY BAND	$ 400.00	$ 300.00	$ 1,800.00
	656	6	G806	ENH: IMBE ASTRO DIGITAL CAI OPERATION	$ 515.00	$ 386.25	$ 2,317.50
	656	6	G51	ENH: SMARTZONE OPERATION APX	$ 1,500.00	$ 1,125.00	$ 6,750.00
	655	6	QA01648AA	ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	$ 5.00	$ 3.75	$ 22.50
	656	6	G361	ADD: P25 TRUNKING SOFTWARE	$ 300.00	$ 225.00	$ 1,350.00
	656	6	G442	ADD: APX7500 O5 CONTROL HEAD	$ 432.00	$ 324.00	$ 1,944.00
	656	6	G444	ADD: CONTROL HEAD SOFTWARE	$ -	$ -	$ -
	656	6	G67	ADD: REMOTE MOUNT	$ 297.00	$ 222.75	$ 1,336.50
	656	6	G174	ADD: ANTENNA 3DB LOW-PROFILE 762-870MHZ	$ 43.00	$ 32.25	$ 193.50
	656	6	G792	ADD:VHF ANT WIDEBAND 136-174 MHZ	$ 75.00	$ 56.25	$ 337.50
	656	6	W22	ADD: PALM MICROPHONE	$ 72.00	$ 54.00	$ 324.00
	656	6	B18CR	ADD: AUXILARY SPKR 7.5 WATT	$ 60.00	$ 45.00	$ 270.00
	656	6	G996	ENH: OVER THE AIR PROVISIONING	$ 100.00	$ 75.00	$ 450.00
	656	6	W947	ADD: RS232 PACKET DATA INTERFACE	$ 200.00	$ 150.00	$ 900.00
	656	6	GA00229	ADD: GPS ACTIVATION	$ 100.00	$ 75.00	$ 450.00
	656	6	GA00226	ADD: GPS ANTENNA	$ 75.00	$ 56.25	$ 337.50
	185	6	G78	ENH: 2 YEAR REPAIR SERVICE ADVANTAGE	$ 158.00	$ 158.00	$ 948.00
	656	6	G799	ADD: PRINTED TEST RESULTS APEX	$ -	$ -	$ -
				EQUIPMENT			$ 32,655.00
		1		SERVICES - TEMPLATE # 1	$ 100.00	$ 100.00	$ 100.00
		6		SERVICES - PROGRAMMING	$ 45.00	$ 45.00	$ 270.00
		6		SERVICES - INSTALLATION (IN-SHOP) * JLE	$ 175.00	$ 175.00	$ 1,050.00
		6		SERVICES - REMOVAL (IN-FIELD)	$ 100.00	$ 100.00	$ 600.00
		6		SERVICES - OTHER SERVICES (INSTALL HEADSETS)	$ 225.00	$ 225.00	$ 1,350.00
				TOTAL SERVICES WITH EQUIPMENT			$ 36,025.00
				ESTIMATED HGAC HANDLING FEE - 1.5% - INCLUDED			$ -
				GRAND TOTAL			**$ 36,025.00**

NOTE:
1 TERMS AND CONDITIONS SUBJECT TO HGAC AGREEMENTS
2 OFFER GOOD THROUGH **11/30/2013**
3 **THIS OFFER IS FOR BUDGETARY PURPOSES ONLY AND IS NOT AN OFFER FOR SALE.**

QUOTE TERMS AND CONDITIONS :

1 QUOTES ARE EXCLUSIVE OF ALL INSTALLATION AND PROGRAMMING CHARGES (UNLESS EXPRESSLY STATED) AND ALL APPLICABLE TAXES.
2 PURCHASER WILL BE RESPONSIBLE FOR SHIPPING COSTS, WHICH WILL BE ADDED TO THE INVOICE.
3 TITLE WILL PASS UPON SHIPMENT, RISK OF LOSS WILL PASS UPON DELIVERY TO PURCHASER'S FACILITY.

COUNTY OF HIDALGO - URBAN COUNTY PROGRAM

Price Proposal Form

Price Proposal Form must be submitted to Urban County for pre-approval prior to the purchase. Use additional forms as needed.

Name Of Cooperative: HGAC
Person Contacted: James Ewing
Name: Motorola
Contract #: RA05-12
Phone: 956-687-8591

Item #	Description of Items	Quantity	List Price Per Unit	COOP Price Per Unit	Total Amount
1	APX7000XE Digital Portable Radio	4	3,400.00	2,550.00	10,200.00
2	Add: 7/800 MHZ Primary Band	4	0.00	0.00	0.00
3	Add: VHF Secondary Band	4	0.00	0.00	0.00
4	Add: Large Color Display and Full Keypad	4	500.00	375.00	1,500.00
5	Add: Enable Dual Band Operation	4	1,000.00	750.00	3,000.00
6	Add: Astro Digital CAI Operation	4	515.00	386.25	1,545.00
7	Add: Smartzone Operation	4	1,500.00	1,125.00	4,500.00
8	Add: P25 9600 BAUD Trunking	4	300.00	225.00	900.00
9	Add: Advanced System Key - Hardware Key	4	5.00	3.75	15.00
10	Add: Programming Over P25 (OTAP)	4	100.00	75.00	300.00
11	Add: Radio Packet Data	4	200.00	150.00	600.00
12	ALT: Impact Green	4	25.00	18.75	75.00
13	Enh: 2 Years Srvc Warranty	4	102.00	102.00	408.00
14	Add: Single Unit Packaging	4	0.00	0.00	0.00
15	Batt IMP FM R LI ION 2300M 2350T	4	140.00	112.00	448.00
16	APX 7000XE Universal Carry Holder for Model 1.5	4	29.00	21.75	87.00
17	APX 7000 Impres Single Unit Charger US/NA/CA/LA	4	125.00	93.75	375.00
18	IMPRES XE RSM with Toggle Volume switch, Emergency button	4	335.00	268.00	1,072.00
	Strobe light control button and Programmable button, Windporting				
	and Rugged FM	1	100.00	100.00	100.00
19	Services- Template #1	4	45.00	45.00	180.00
20	Services - Programming				
	Freight			TOTAL	25,305.00

Recommendation: The City recommends purchase of the APX7500 Digital Portable Radio with all components for the Mercedes Fire Station/Equipment.

Requested By: Olga Rosas (USE BLUE INK) 10/24/2013 Date

UCP Deputy (USE BLUE INK) 10/28/13 Date

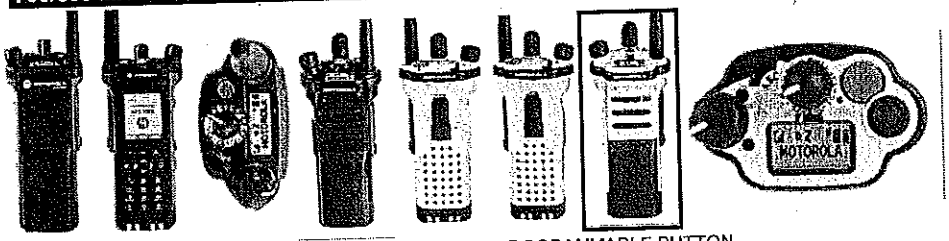
MOTOROLA
Authorized Radio System Specialist

MERCEDES-CITY OF-
FIRE DPEARTMENT
321 SOUTH OHIO STREET
MERCEDES, TX. 78570

DATE: 10/18/2013
QUOTE #: 13-100500 - 2
BY: 308
ATTN: JAIME GARCIA
PHONE: 956-565-7755
FAX: 956-565-8592
EMAIL: IGARCIA@CITYOFMERCEDES.NET
USER CONTACT JAIME GARCIA
CONTACT # 956-565-7755

HGAC CONTRACT # RA05-12

ASTRO® Digital APX 7000™ Portable Series 700/800 MHz & VHF



SYSTEM CONFIGURATIONS:
DUAL MICROPHONE, 3 PROGRAMMABLE SIDE BUTTONS, 1 WATT RATED AUDIO ORANGE PROGRAMMABLE BUTTON INTEGRATED GPS HARDWARE CAPABLE* 16 POSITION MODE ROTARY SELECT SWITCH, SEAMLESS WIDEBAND SCAN ANGLED ON/OFF VOLUME KNOB, DETACHABLE BELT CLIP FOR TOP DISPLAY LOW BATTERY ALERT TONE, IP67 STANDARD ANTENNA (DEPENDENT ON FREQUENCY BAND AND TYPE), LIION 2900 MAH BATTERY, NOISE CANCELLATION SOFTWARE, INTELLIGENT LIGHTING, 1 TOP MOUNTED PROGRAMMABLE 3 POSITION TOGGLE SWITCH, TOP DISPLAY: 1 LINE OF TEXT, 1 LINE OF ICONS, 0 MENU LINES
ASTRO DIGITAL APX 7000 DUAL DISPLAY MODEL ALSO INCLUDES:
UNIVERSAL CARRY HOLDER FRONT COLOR DISPLAY: 4 LINES OF TEXT, 2 LINES OF ICON, 1 MENU LINE UNIFIED CALL LIST RADIO PROFILES, DUAL SPEAKERS FULL KEYPAD: 3 X 4 ALPHA-NUMERIC 3 PROGRAMMABLE BUTTON, 4 WAY NAVIGATION, HOME AND DATA BUTTONS

ITEM	APC	QTY.	MODEL	DESCRIPTION	UNIT LIST	HGAC UNIT	HGAC EXTENDED
				ASTRO® DIGITAL APX 7000™ PORTABLE SERIES 700/800 MHZ & VHF			
655	4	4	H49TGD9PW1 N	*APX7000XE* DIGITAL PORTABLE RADIO	$ 3,400.00	$ 2,550.00	$ 10,200.00
655	4	4	QA00569	ADD: 7/800MHZ PRIMARY BAND	$ -	$ -	$ -
655	4	4	QA00574	ADD: VHF SECONDARY BAND	$ -	$ -	$ -
655	4	4	QA00577AA	ADD: LARGE COLOR DISPLAY AND FULL KEYPAD	$ 500.00	$ 375.00	$ 1,500.00
655	4	4	QA00579AA	ADD: ENABLE DUAL BAND OPERATION	$ 1,000.00	$ 750.00	$ 3,000.00
655	4	4	Q806	ADD: ASTRO DIGITAL CAI OPERATION	$ 515.00	$ 386.25	$ 1,545.00
655	4	4	H38	ADD: SMARTZONE OPERATION	$ 1,500.00	$ 1,125.00	$ 4,500.00
655	4	4	Q361	ADD: P25 9600 BAUD TRUNKING	$ 300.00	$ 225.00	$ 900.00
655	4	4	QA01648AA	ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	$ 5.00	$ 3.75	$ 15.00
655	4	4	G996	ADD: PROGRAMMING OVER P25 (OTAP)	$ 100.00	$ 75.00	$ 300.00
655	4	4	Q947	ADD: RADIO PACKET DATA	$ 200.00	$ 150.00	$ 600.00
655	4	4	QA01427	ALT: IMPACT GREEN	$ 25.00	$ 18.75	$ 75.00
185	4	4	Q58	ENH: 2 YEARS SVC WARRANTY	$ 102.00	$ 102.00	$ 408.00
655	4	4	H842	ADD: SINGLE UNIT PACKAGING	$ -	$ -	$ -
453	4	4	NNTN8092	BATT IMP FM R LI ION 2300M 2350T	$ 140.00	$ 112.00	$ 448.00
	4	4	PMLN6102	*APX 7000XE* UNIVERSAL CARRY HOLDER FOR MODEL 1.5	$ 29.00	$ 21.75	$ 87.00
795	4	4	WPLN7080A	APX 7000 IMPRES SINGLE UNIT CHARGER US/NA/CA/LA	$ 125.00	$ 93.75	$ 375.00
372	4	4	NNTN8203	*IMPRES XE RSM* WITH TOGGLE VOLUME SWITCH, EMERGENCY BUTTON, STROBE LIGHT, STROBE LIGHT CONTROL BUTTON AND PROGRAMMABLE BUTTON. WINDPORTING AND RUGGED. FM	$ 335.00	$ 268.00	$ 1,072.00
							$ 25,025.00
		1		EQUIPMENT	$ 100.00	$ 100.00	$ 100.00
		4		SERVICES - TEMPLATE # 1	$ 45.00	$ 45.00	$ 180.00
				SERVICES - PROGRAMMING			
				TOTAL SERVICES WITH EQUIPMENT			$ 25,305.00
				ESTIMATED HGAC HANDLING FEE - 1.5% - INCLUDED			$ -
				GRAND TOTAL			**$ 25,305.00** ✓

2 PURCHASER WILL BE RESPONSIBLE FOR SHIPPING COSTS, WHICH WILL BE ADDED TO THE INVOICE.

3 TITLE WILL PASS UPON SHIPMENT, RISK OF LOSS WILL PASS UPON DELIVERY TO PURCHASER'S FACILITY.

4 ORDERED EQUIPMENT MAY BE RETURNED FOR A FULL REFUND, LESS A 20% RESTOCKING FEE, IF THE EQUIPMENT IS RETURNED UNUSED AND UNDAMAGED IN ITS ORIGINAL PACKAGING WITH IN SIX MONTHS AFTER SHIPMENT.

5 PRICES QUOTED ARE VALID FOR THIRTY (30) DAYS FROM THE DATE OF THIS QUOTE.

6 UNLESS OTHERWISE STATED, PAYMENT WILL BE DUE WITHIN THIRTY DAYS AFTER INVOICE.

7 MOTOROLA'S STANDARD EQUIPMENT WARRANTY (WHICH WILL BE FURNISHED UPON REQUEST) APPLIES TO ALL ORDERED EQUIPMENT.

8 MOTOROLA DISCLAIMS ALL OTHER WARRANTIES WITH RESPECT TO THE ORDERED PRODUCTS,EXPRESS OR IMPLIED INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

9 MOTOROLA'S TOTAL LIABILITY ARISING FROM THE ORDERED PRODUCTS WILL BE LIMITTED TO THE PURCHASE PRICE OF THE PRODUCTS WITH RESPECT TO WHICH

10 LOSSES OR DAMAGES ARE CLAIMED. IN NO EVENT WILL MOTOROLA BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

11 THESE TERMS WILL PREVAIL OVER ANY INCONSISTENT OR ADDITIONAL TERMS ON ANY PURCHASE ORDER SUBMITTED BY THE PURCHASER.

PROPOSED BY	
PRINTED NAME	
TITLE:	
DATE:	___/___/___

BEFORE SIGNING, PLEASE READ THIS PROPOSAL CAREFULLY. YOUR SIGNATURE IS AN OFFER TO PURCHASE THE PRODUCTS AND SERVICES LISTED ABOVE, WHICH IF ACCEPTED BY MOTOROLA, WILL BE A PURCHASE CONTRACT.

CUSTOMER ACCEPTANCE:	
PRINTED NAME	
TITLE:	
PURCHASE ORDER #	
DATE:	___/___/___

COUNTY OF HIDALGO - URBAN COUNTY PROGRAM

Price Proposal Form

Price Proposal Form must be submitted to Urban County for pre-approval prior to the purchase. Use additional forms as needed.

Name Of Cooperative: HGAC Person Contacted: James Ewing

Name: Motorola Contract #: RA05-12 Phone: 956-687-8591

Item #	Description of Items	Quantity	List Price Per Unit	COOP Price Per Unit	Total Amount
1	APX7500 Dual Band Mid Power	2	2,272.00	1,704.00	3,408.00
2	Add: Enable Dual Band Operation	2	600.00	450.00	900.00
3	Add: 7/800MHZ Primary Band	2	0.00	0.00	0.00
4	Add: VHF MP Secondary Band	2	400.00	300.00	600.00
5	Enh: IMBE Astro Digital CAI Operation	2	515.00	386.25	772.50
6	Enh: Smartzone Operation APX	2	1,500.00	1,125.00	2,250.00
7	Add: Advanced System Key - Hardware Key	2	5.00	3.75	7.50
8	Add: P25 Trunking Software	2	300.00	225.00	450.00
9	Add: APX7500 05 Control Head	2	432.00	324.00	648.00
10	Add: Control Head Software	2	0.00	0.00	0.00
11	Add: Dash Mount	2	125.00	93.75	187.50
12	Add: No Antenna Needed	2	0.00	0.00	0.00
13	Alt: Control Station Microphone	2	169.00	126.75	253.50
14	Del: Omit Speaker	2	0.00	0.00	0.00
15	Add: Control Station Power Supply	2	269.00	201.75	403.50
16	Add: Control Station Operation	2	70.00	52.50	105.00
17	Enh: Over the Air Provisioning	2	100.00	75.00	150.00
18	Add: RS232 Packet Data Interface	2	200.00	150.00	300.00
19	Add: No GPS Antenna Needed	2	0.00	0.00	0.00
20	Add: Printed Test Results APEX	2	0.00	0.00	0.00
21	RF Antenna System				
22	Image OMNI Antenna Trunk (806-869MHZ)	2	523.00	470.70	941.40
23	1/2" N Male Ring Flare Conn	2	27.25	24.53	49.06
24	1/2" LDF Heliax Poly JKT per FT	200	3.50	3.15	630.00
25	1/2" N Male Ring Flare Conn	2	27.25	24.53	49.06
26	ISB50LNC2 Bulkhead Arrestor 125-100 C/S	2	66.00	52.80	105.60
27	1/2" N Male Plated S Flex	2	55.00	49.50	99.00
28	1/2" Superflex Poly JKT per Foot	40	4.70	4.23	169.20
29	1/2" N Male Plated S Flex	2	55.00	49.50	99.00
30	ISOBLOK20 Direct Plug Surge Suppressor	2	38.00	34.20	68.40
31	Fallback UPS 1500 VA Input NEMA 5-15P/Output: 6 NEMA 5-15R	2	720.00	648.00	1,296.00
32	Services- Template #1	1	100.00	100.00	100.00
33	Services - Programming	2	45.00	45.00	90.00
34	Services - Installation (In-Field)	2	250.00	250.00	500.00
	Freight				
				TOTAL	**14,632.22**

Recommendation: The City recommends purchase of the APX7500 Dual Band Mid Power with all components for the Mercedes Fire Station/Equipment.

Requested By: Olga Rosas 10/24/2013 (USE BLUE INK) Date

UCP Deputy (USE BLUE INK) 10/28/13 Date

MOTOROLA
Authorized Radio System Specialist

DATE:	10/22/2013
QUOTE #:	13-100501-3
BY:	308
ATTN:	JAIME GARCIA
PHONE:	956-565-7755
FAX:	956-565-8592
EMAIL:	IGARCIA@CITYOFMERCEDES.NET
USER CONTACT	JAIME GARCIA
CONTACT #	956-565-7755

MERCEDES-CITY OF-
FIRE DPEARTMENT
321 SOUTH OHIO STREET
MERCEDES, TX. 78570

HGAC CONTRACT # RA05-12

APX 7500 MOBILE - O5/O3 - P25 - 700/800 - VHF

SYSTEM CONFIGURATIONS:
ASTRO 25 DIGITAL TRUNKING, ASTRO ANALOG AND DIGITAL TRUNKING, AND ANALOG AND DIGITAL CONVENTIONAL ••• 1000 - CHANNEL / MODES ••• 700/800 MHZ DUAL BAND (764-870MHZ) ••• 10-35 WATT ••• INTEGRATED VOICE AND DATA, STATUS MESSAGE SERVICE ••• STD OR HAND HELD **CONTROL HEADS** ••• USB/RS232 CONNECTIVITY DASH OR REMOTE MOUNT MULTI-CONTROL HEAD CAPABILITY
O3 HANDHELD CONTROL HEAD ••• 4-LINE/14/2 ICONS CHARACTER ALPHANUMERIC DISPLAY ••• 2.4 W X 5.0 L KEYPAD MICROPHONE WITH UP TO 24 PROGRAMMABLE SOFT KEYS ••• PORTABLE STYLE USER INTERFACE AND COLOR DISPLAY
O5 CONTROL HEAD ••• 4-LINE / 14 CHARACTER, CUSTOMIZABLE, ULTRA-READABLE, TRI-COLOR LCD DISPLAY ••• 2.75 W X 4 L KEYPAD MICROPHONE ACCESSORY WITH 3 PROGRAMMABLE SOFT KEYS ••• 5 PROGRAMMABLE SOFT KEY BUTTONS ••• 5 SCROLL THROUGH MENUS WITH UP TO 24 PROGRAMMABLE SOFT KEYS ••• MULTIPLE CONTROL HEAD CONFIGURATIONS TO FULLY CONTROL A SINGLE RADIO FROM UP TO 4 DIFFERENT WIRED LOCATIONS
ENHANCED ENCRYPTION ••• TYPE III AND TYPE IV ENCRYPTION INCLUDING DES, DES-XL, DES-OFB, DVI-XL, DVP-XL AND AES ALGORITHMS, WITH MULTI-KEY OR ADVANCED DIGITAL PRIVACY (ADP) ••• FLASHPORT SW UPGRDS ••• CONTROL STATION OPERATION ••• MIL SPEC - 810 C, D, E, F

ITEM	APC	QTY.	MODEL	DESCRIPTION	UNIT LIST	HGAC UNIT	HGAC EXTENDED
				MODELS AND OPTIONS			
	656	2	M30TSS9PW1 N	APX7500 DUAL BAND MID POWER	$ 2,272.00	$ 1,704.00	$ 3,408.00
	656	2	GA00579	ADD: ENABLE DUAL BAND OPERATION	$ 600.00	$ 450.00	$ 900.00
	656	2	GA00244	ADD: 7/800MHZ PRIMARY BAND	$ -	$ -	$ -
	656	2	GA00308	ADD: VHF MP SECONDARY BAND	$ 400.00	$ 300.00	$ 600.00
	656	2	G806	ENH: IMBE ASTRO DIGITAL CAI OPERATION	$ 515.00	$ 386.25	$ 772.50
	656	2	G51	ENH: SMARTZONE OPERATION APX	$ 1,500.00	$ 1,125.00	$ 2,250.00
	655	2	QA01648AA	ADD: ADVANCED SYSTEM KEY - HARDWARE KEY	$ 5.00	$ 3.75	$ 7.50
	656	2	G361	ADD: P25 TRUNKING SOFTWARE	$ 300.00	$ 225.00	$ 450.00
	656	2	G442	ADD: APX7500 O5 CONTROL HEAD	$ 432.00	$ 324.00	$ 648.00
	656	2	G444	ADD: CONTROL HEAD SOFTWARE	$ -	$ -	$ -
	656	2	G66	ADD: DASH MOUNT	$ 125.00	$ 93.75	$ 187.50
	656	2	G89	ADD: NO ANTENNA NEEDED	$ -	$ -	$ -
	656	2	W382	ALT: CONTROL STATION MICROPHNE	$ 169.00	$ 126.75	$ 253.50
	656	2	G142	DEL: OMIT SPEAKER	$ -	$ -	$ -
	656	2	G91	ADD: CONTROL STATION POWER SUPPLY	$ 269.00	$ 201.75	$ 403.50
	656	2	W665	ADD: CONTROL STATION OPERATION	$ 70.00	$ 52.50	$ 105.00
	656	2	G996	ENH: OVER THE AIR PROVISIONING	$ 100.00	$ 75.00	$ 150.00
	656	2	W947	ADD: RS232 PACKET DATA INTERFACE	$ 200.00	$ 150.00	$ 300.00
	656	2	GA00235	ADD: NO GPS ANTENNA NEEDED	$ -	$ -	$ -
	656	2	G799	ADD: PRINTED TEST RESULTS APEX	$ -	$ -	$ -
				RF ANTENNA SYSTEM			
	207	2	DSDB583XT	IMAGE OMNI ANTENNA TRUNK (806-869MHZ)	$ 523.00	$ 470.70	$ 941.40
	207	2	DDN1088	1/2" N MALE RING FLARE CONN	$ 27.25	$ 24.53	$ 49.06
	207	200	L1705	1/2" LDF HELIAX POLY JKT PER FT	$ 3.50	$ 3.15	$ 630.00
	207	2	DDN1088	1/2" N MALE RING FLARE CONN	$ 27.25	$ 24.53	$ 49.06
	417	2	DSISB50LNC2	ISB50LNC2 BULKHEAD ARRESTOR 125-100 C/S	$ 66.00	$ 52.80	$ 105.60
	207	2	CDN6579	1/2" N MALE PLATED S FLEX	$ 55.00	$ 49.50	$ 99.00
	207	40	L1702	1/2" SUPERFLEX POLY JKT PER FOOT	$ 4.70	$ 4.23	$ 169.20
	207	2	CDN6579	1/2" N MALE PLATED S FLEX	$ 55.00	$ 49.50	$ 99.00
	262	2	DSIBLOCK20	ISOBLOK20 DIRECT PLUG SURGE SUPPRESSOR	$ 38.00	$ 34.20	$ 68.40
	207	2	DSSMART1500	FALLBACK UPS 1500 VA INPUT NEMA 5-15P / OUTPUT: 6 NEMA 5-15R	$ 720.00	$ 648.00	$ 1,296.00
				EQUIPMENT			$ 13,942.22
		1		SERVICES - TEMPLATE # 1	$ 100.00	$ 100.00	$ 100.00
		2		SERVICES - PROGRAMMING	$ 45.00	$ 45.00	$ 90.00
		2		SERVICES - INSTALLATION (IN-FIELD)	$ 250.00	$ 250.00	$ 500.00
				TOTAL SERVICES WITH EQUIPMENT			$ 14,632.22
				ESTIMATED HGAC HANDLING FEE - 1.5% - INCLUDED			$ -
				GRAND TOTAL			$ 14,632.22 ✓

NOTE:
1 TERMS AND CONDITIONS SUBJECT TO HGAC AGREEMENTS
2 OFFER GOOD THROUGH 11/21/2013
3 **THIS OFFER IS FOR BUDGETARY PURPOSES ONLY AND IS NOT AN OFFER FOR SALE.**

QUOTE TERMS AND CONDITIONS :

1 QUOTES ARE EXCLUSIVE OF ALL INSTALLATION AND PROGRAMMING CHARGES (UNLESS EXPRESSLY STATED) AND ALL APPLICABLE TAXES.

NOTE:

1 TERMS AND CONDITIONS SUBJECT TO HGAC AGREEMENTS
2 OFFER GOOD THROUGH 11/17/2013
3 **THIS OFFER IS FOR BUDGETARY PURPOSES ONLY AND IS NOT AN OFFER FOR SALE.**

QUOTE TERMS AND CONDITIONS :

1 QUOTES ARE EXCLUSIVE OF ALL INSTALLATION AND PROGRAMMING CHARGES (UNLESS EXPRESSLY STATED) AND ALL APPLICABLE TAXES.
2 PURCHASER WILL BE RESPONSIBLE FOR SHIPPING COSTS, WHICH WILL BE ADDED TO THE INVOICE.
3 TITLE WILL PASS UPON SHIPMENT, RISK OF LOSS WILL PASS UPON DELIVERY TO PURCHASER'S FACILITY.
4 ORDERED EQUIPMENT MAY BE RETURNED FOR A FULL REFUND, LESS A 20% RESTOCKING FEE, IF THE EQUIPMENT IS RETURNED UNUSED AND UNDAMAGED IN ITS ORIGINAL PACKAGING WITH IN SIX MONTHS AFTER SHIPMENT.
5 PRICES QUOTED ARE VALID FOR THIRTY (30) DAYS FROM THE DATE OF THIS QUOTE.
6 UNLESS OTHERWISE STATED, PAYMENT WILL BE DUE WITHIN THIRTY DAYS AFTER INVOICE.
7 MOTOROLA'S STANDARD EQUIPMENT WARRANTY (WHICH WILL BE FURNISHED UPON REQUEST) APPLIES TO ALL ORDERED EQUIPMENT.
8 MOTOROLA DISCLAIMS ALL OTHER WARRANTIES WITH RESPECT TO THE ORDERED PRODUCTS,EXPRESS OR IMPLIED INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
9 MOTOROLA'S TOTAL LIABILITY ARISING FROM THE ORDERED PRODUCTS WILL BE LIMITTED TO THE PURCHASE PRICE OF THE PRODUCTS WITH RESPECT TO WHICH
10 LOSSES OR DAMAGES ARE CLAIMED. IN NO EVENT WILL MOTOROLA BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.
11 THESE TERMS WILL PREVAIL OVER ANY INCONSISTENT OR ADDITIONAL TERMS ON ANY PURCHASE ORDER SUBMITTED BY THE PURCHASER.

PROPOSED BY	_____
PRINTED NAME	_____
TITLE:	_____
DATE:	____/____/____
BEFORE SIGNING, PLEASE READ THIS PROPOSAL CAREFULLY. YOUR SIGNATURE IS AN OFFER TO PURCHASE THE PRODUCTS AND SERVICES LISTED ABOVE, WHICH IF ACCEPTED BY MOTOROLA, WILL BE A PURCHASE CONTRACT.	
CUSTOMER ACCEPTANCE:	_____
PRINTED NAME	_____
TITLE:	_____
PURCHASE ORDER #	_____
DATE:	____/____/____

COUNTY OF HIDALGO - URBAN COUNTY PROGRAM

Price Proposal Form

Price Proposal Form must be submitted to Urban County for pre-approval prior to the purchase. Use additional forms as needed.

Name Of Cooperative: HGAC Person Contacted: James Ewing

Name: Motorola Contract #: RA05-12 Phone: 956-687-8591

Item #	Description of Items	Quantity	List Price Per Unit	COOP Price Per Unit	Total Amount
1	Surege Protection / Uninteruptible Power Supply				
2	Seven and a Half Foot Rack	1	495.00	445.50	445.50
3	19 inch Black Shelf	1	249.00	224.10	224.10
4	Rack Mount Ground Bar, 19 in for TSJ and WPH Series Data				
5	SPDS	1	88.00	79.20	79.20
6	Brkt, CBL Support	1	99.75	89.78	89.78
7	Grounding Bus Bar	1	125.00	112.50	112.50
8	SPD, Type 3, 120V Rack Mount, 15A Plug-In with (6) 15A Outlets	1	298.00	268.20	268.20
9	3000VA UPS Smartpro Rack/Tower Line-Interactive 3KVA 120V	1	863.00	776.70	776.70
10	48V External Battery Pack, Smart UPS 48V RM 2U External	1	679.00	611.10	611.10
11	Services- Template #1	0	100.00	100.00	0.00
12	Services - Programming	0	45.00	45.00	0.00
13	Services - Removal (In-Field)	0	2,200.00	1,000.00	0.00
	Freight				
				TOTAL	2,607.08

Recommendation: The City recommends purchase of the Surge Protection / Uniteruptable Power Supply for the Mercedes Fire Station/Equipment

Requested By: Ofelia Rojas (USE BLUE INK) 10/24/2013 Date **UCP Deputy** (USE BLUE INK) 10/28/13 Date

MOTOROLA
Authorized Radio System Specialist

MERCEDES-CITY OF-
FIRE DPEARTMENT
321 SOUTH OHIO STREET
MERCEDES, TX. 78570

DATE: 10/18/2013
QUOTE #: 13-100502-2
BY: 308
ATTN: JAIME GARCIA
PHONE: 956-565-7755
FAX: 956-565-8592
EMAIL: JGARCIA@CITYOFMERCEDES.NET
USER CONTACT JAIME GARCIA
CONTACT # 956-565-7755

HGAC CONTRACT # RA05-12

PD DISPATCH CENTER CONSOLETTES

APX 7500 CONTROL STATION - P25 - 700/800 - VHF

ITEM	APC	QTY.	MODEL	DESCRIPTION	UNIT LIST	HGAC UNIT	HGAC EXTENDED
				SURGE PROTECTION / UNINTERUPTIBLE POWER SUPPLY			
	207	1	TRN7343	SEVEN AND A HALF FOOT RACK	$ 495.00	$ 445.50	$ 445.50
	207	1	DDN9748	19 INCH BLACK SHELF	$ 249.00	$ 224.10	$ 224.10
	207	1	DSTSJADP	RACK MOUNT GROUND BAR, 19 IN FOR TSJ AND WPH SERIES DATA SPDS	$ 88.00	$ 79.20	$ 79.20
	280	1	0784469Y02	BRKT, CBL SUPPORT	$ 99.75	$ 89.78	$ 89.78
	112	1	3185913Y02	GROUNDING BUS BAR	$ 125.00	$ 112.50	$ 112.50
	207	1	DSRMP615A	SPD, TYPE 3, 120V RACK MOUNT, 15A PLUG-IN WITH (6) 15A OUTLETS	$ 298.00	$ 268.20	$ 268.20
	207	1	DSSMART3000RMXL2U	3000VA UPS SMARTPRO RACK/TOWER LINE-INTERACTIVE 3KVA 120V	$ 863.00	$ 776.70	$ 776.70
	207	1	DSBP48V242U	48V EXTERNAL BATTERY PACK, SMART UPS 48V RM 2U EXTERNAL	$ 679.00	$ 611.10	$ 611.10
				EQUIPMENT			$ 2,607.08
		0		SERVICES - TEMPLATE # 1	$ 100.00	$ 100.00	$ -
		0		SERVICES - PROGRAMMING	$ 45.00	$ 45.00	$ -
		0		SERVICES - INSTALLATION (IN-FIELD)	$ 2,200.00	$ 1,000.00	$ -
				TOTAL SERVICES WITH EQUIPMENT			$ 2,607.08
				ESTIMATED HGAC HANDLING FEE - 1.5% - INCLUDED			$ -
				GRAND TOTAL			**$ 2,607.08**

4 ORDERED EQUIPMENT MAY BE RETURNED FOR A FULL REFUND, LESS A 20% RESTOCKING FEE, IF THE EQUIPMENT IS RETURNED UNUSED AND UNDAMAGED IN ITS ORIGINAL PACKAGING WITH IN SIX MONTHS AFTER SHIPMENT.

5 PRICES QUOTED ARE VALID FOR THIRTY (30) DAYS FROM THE DATE OF THIS QUOTE.

6 UNLESS OTHERWISE STATED, PAYMENT WILL BE DUE WITHIN THIRTY DAYS AFTER INVOICE.

7 MOTOROLA'S STANDARD EQUIPMENT WARRANTY (WHICH WILL BE FURNISHED UPON REQUEST) APPLIES TO ALL ORDERED EQUIPMENT.

8 MOTOROLA DISCLAIMS ALL OTHER WARRANTIES WITH RESPECT TO THE ORDERED PRODUCTS,EXPRESS OR IMPLIED INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

9 MOTOROLA'S TOTAL LIABILITY ARISING FROM THE ORDERED PRODUCTS WILL BE LIMITTED TO THE PURCHASE PRICE OF THE PRODUCTS WITH RESPECT TO WHICH

10 LOSSES OR DAMAGES ARE CLAIMED. IN NO EVENT WILL MOTOROLA BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

11 THESE TERMS WILL PREVAIL OVER ANY INCONSISTENT OR ADDITIONAL TERMS ON ANY PURCHASE ORDER SUBMITTED BY THE PURCHASER.

PROPOSED BY	_____
PRINTED NAME	_____
TITLE:	_____
DATE:	____/____/____

BEFORE SIGNING, PLEASE READ THIS PROPOSAL CAREFULLY. YOUR SIGNATURE IS AN OFFER TO PURCHASE THE PRODUCTS AND SERVICES LISTED ABOVE, WHICH IF ACCEPTED BY MOTOROLA, WILL BE A PURCHASE CONTRACT.

CUSTOMER ACCEPTANCE:	_____
PRINTED NAME	_____
TITLE:	_____
PURCHASE ORDER #	_____
DATE:	____/____/____

HOUSTON GALVESTON AREA COUNCIL OF GOVERNMENT – H-GAC

Motorola Equipment Order Processing - Effective June 1, 2012

Step # 1 - Make Purchase Order out to:

Motorola Solutions, Inc.
1313 East Algonquin Rd.
Schaumburg, IL 60196

Step # 2 - Purchase Order MUST include the words:

⇨ **"HGAC FEE INCLUDED" per HGAC CONTRACT # RA05-12**

Step # 3 - Purchase Order MUST include the words: "TERMS = NET 30"

Step # 4 - Purchase Order MUST include the words:

Ship to address:	**and**	**Ultimate destination Address**	
South Texas Communications		Your end user	Name
709 East Pecan			Address
McAllen, Texas 78501			City, State, Zip Code

STEP# 5 - Fax or Emails scanned, signed Purchase Order and Copy of Equipment Quote to:

South Texas Communications	Email:	info@stcradios.com
Phone (956) 687-8591	Fax	(956) 687-1735

STEP# 6 - *Mail original copy to STC*

South Texas Communications
PO Box 3712
McAllen, Texas 78502-3712

STEP# 7 - Fax or Emails scanned, signed Purchase Order and Copy of Equipment Quote to:

Motorola Souotions, Inc.

Attn: Ron Martin - **(512) 801-4660**
ron.martin@motorolasolutions.com

David Champion - **(956) 532-8659**
David.Champion@MotorolaSolutions.com

STEP# 8 - Fax or Emails a scanned, signed Purchase Order and Copy of Radio Quote to:

Purchase Order copy that you send to H-GAC must include these words:

ORIGINAL COPY SENT TO MOTORLA - DO NOT DUPLICATE

H-GAC	Attn:	Latonya Venters	LaTonya.Venters@h-gac.com
Phone (713) 993-2485	Fax	(713) 993-4548	

For additional information visit the H-GAC website at: www.hgacbuy.comm

Go to the how to use the program section for complete details.

Thank you for your business and order.

COMMUNICATIONS EQUIPMENT & SERVICES

RADIO COMMUNICATION, EMERGENCY RESPONSE & MOBILE INTEROPERABILITY EQUIPMENT

Contract No.: RA05-12

Effective Date: May 1, 2012 thru Apr 30, 2015

A wide variety of Radio Communication/Emergency Response & Mobile Interoperable Equipment is available thru the H-GAC Cooperative Purchasing Program. Please contact the appropriate supplier to discuss your needs, and to obtain a price quotation based on theH-GAC contract.

- Communications-Applied Technology
- Commercial Wireless Solutions, L.P.
- Daniels Electronics Ltd.
- E. F. Johnson Company
- Harris Communications
- Icom America, Inc.
- Intrado Inc.
- Kenwood U.S.A. Corporation
- Motorola
- Relm Wireless Corporation
- Tait North America Inc.
- Utility Associates
- Ultralife Corporation
- Vertex Standard USA, Inc.

Communications-Applied Technology

Products Offered

Incident Commanders Radio Interface Interoperability Bridge and Accesories

Back to top

Commercial Wireless Solutions, L.P.

Products Offered

Mobile and Portable radios, Base stations, Trunking Systems, Dispatch Consoles, Mobile Data Systems, Mobile Data Subscribers, Mobile Computing Devices, Broadband Wireless Mesh Infrastructure and Subscribers, Video and Biometrics, Radio Infrastructure (Towers, Shelters, UPSs and, Generators), LTE Equipment/Services, Next Gen 911 Equipment/Services Integrated Command Control Equipment, System Integration Services Trailers, System Integration Services Project Management, System Engineering, System Technologist,Training, Advanced Services

Back to top

Daniels Electronics Ltd.

Products Offered

Daniels Electronics MT-3 and MT-4 series of Land Mobile Radio Systems are built up from the radio modules (e.g. transmitters and receivers) which are custom configured to create radio base stations and repeaters based on the customer's requirements. Daniels supplies both analog and P25 digital systems. Bands supported: VHF Lowband, VHF Highband, VHF AM, UHF and T-Band, 700 MHz, 800 MHz, 900 MHz.

Back to top

E. F. Johnson Company

Products Offered

EFJohnson delivers a smarter way to P25 with the ATLAS™ P25 Systems Solution. Our patented, distributed architecture eliminates the need for a large, expensive central controller and makes the system resilient enough to withstand multiple points of communication failure without affecting the rest of the system. EFJohnson's portable and mobile radios have remarkable versatility because of their interoperability with Project 25 trunked and conventional modes, APCO 16 Motorola SMARTNET®/SmartZone®, and an upgrade capability for Project 25 Phase 2 TDMA

Back to top

Harris Communications

Contractors

H-GAC CONTACTS

- **LaWanda James**
  (P): 713-993-4536
  (F): 713-993-4548
  lawanda.james@h-gac.com

VENDOR CONTACTS

- **Blair Communications Inc.**
  Ed Burge
  (P): 214-247-4901
  Click here for Email
- **Breakthrough Communications**
  Brian Perry
  (P): 817-732-7791
  Click here for Email
- **Commercial Wireless Solutions, L.P.**
  Sam Shimfessel
  (P): 713-472-9700
  (F): 713-472-9705
  Click here for Email
- **Communications International, Inc.**
  Linda Reed
  (P): 772-569-5355
  (F): 772-567-2292
  Click here for Email
- **Communications-Applied Technology**
  Seth Leyman
  (P): 703-481-0068
  (F): 703-471-4428
  Click here for Email
- **Dailey and Wells Communications, Inc.**
  Jim Sawyer
  (P): 210-893-6701
  (F): 210-893-6702
  Click here for Email
- **Daniels Electronics Ltd.**
  John MacDonald
  (P): 800-664-4066
  (F): 877-250-0004
  Click here for Email
- **DFW Communications, Inc.**
  Craig Sikes
  (P): 972-730-4339
  (F): 972-445-0915
  Click here for Email
- **E.F. Johnson Company**
  Cale Teeter
  (P): 939-650-9994
  (F): 972-819-0201
  Click here for Email
- **Eastern Communications, LTD.**
  Kevin O'Brien
  (P): 718-729-2044
  (F): 718-729-2241
  Click here for Email
- **Harris RFCD, A Division of Harris Corporation**
  Keith Williams
  (P): 972-212-4583
  (F): 972-550-2360
  Click here for Email
- **Harris RFCD, A Division of Harris Corporation**
  Kelley Adley

Harris Corp., Communications International, Inc. , Dailey & Wells Communications, Inc., Eastern Communications, LTD, RACOM Corporation

Products Offered

Harris products and services includes, Land Mobile Radio Infrastructure, Multi-Mode Mobile and Portable Radios, DMR (Momentum), OpenSky Infrastructure and Technology, Base Stations, Trunking Systems, Dispatch Consoles, Mobile Data Systems and Subscribers, LTE Broadband Wireless Devices and Infrastructure, Video Surveillance, System Engineering and Radio Equipment Services, Training and Project Management.

Back to top

Icom America, Inc.

Products Offered

Land Mobile Radios Analog and Digital (P25 and IDAS NXDN) Mobiles, Portables, Base Stations, Repeaters, Trunking systems, Control Stations, Virtual radio software, IP linked systems, Multitrunk systems and Accessories for Icom radios.

Back to top

Intrado Inc.

Contractors

Intrado Inc.

Products Offered

The Intrado THOR Shield(SM) is a mobile 9-1-1 communications and command center service, intended for use in planned or unplanned public safety events and is an alternative to traditional brick and mortar backup facilities. THOR Shield(sm) may be used as replacement of, or augmentation to a 9-1-1 centers emergency management technologies. THOR Shield(sm) services includes use of tractor, trailer, and equipment and is supported by a specialized, dedicated staff, and technical support that may be deployed for emergency management and/or when 9-1-1 emergency services are impacted. This unique solution gives public safety agencies a flexible asset that can be valuable at every stage of a major event.

Back to top

Kenwood U.S.A. Corporation

Products Offered

Portables, Mobiles, Base Stations, Repeaters & Accessories

Back to top

Motorola

Contractors

Motorola Solutions Inc,. Texas Communications., Total Safety U.S. Inc., Victoria Communication Services, Inc., DFW Communications, Inc.

Products Offered

Mobile and Portable radios, Base stations, Trunking Systems, Dispatch Consoles, Mobile Data Systems, Mobile Data Subscribers, Mobile Computing Devices, Broadband Wireless Mesh Infrastructure and Subscribers, Video and Biometrics, Radio Infrastructure (Towers, Shelters, UPSs and, Generators), LTE Equipment/Services, Next Gen 911 Equipment/Services Integrated Command Control Equipment, System Integration Services Trailers, System Integration Services Project Management, System Engineering, System Technologist,Training, Advanced Services

Back to top

Relm Wireless Corporation

Products Offered

Portables, Mobiles, Base Stations, Repeaters & Accessories.

Back to top

Tait North America Inc.

Products Offered

Tait Communications specializes in the design, manufacturing and deployment of voice and data solutions for Public Safety, Government and Utility markets. All APCO 25 (P25) digital products are CAP tested ensuring buyers of P25 equipment that radios and networks from participating manufacturers will work seamlessly. P25 CAP is a partnership of

(P): 972-550-2303
(F): 972-550-2360
Click here for Email

- **Icom America, Inc.**
  Government Customer Service Team
  (P): 425-450-6090
  (F): 425-450-6063
  Click here for Email
- **Intrado Inc.**
  Valorie Taylor
  (P): 512-268-3911
  (F): 720-494-6600
  Click here for Email
- **Kenwood U.S.A. Corporation**
  Jay Thompson
  (P): 800-746-3826
  (F): 888-324-3682
  Click here for Email
- **Motorola Solutions, Inc.**
  George M. Ebelt
  (P): 281-955-2688
  (F): 281-955-7801
  Click here for Email
- **Northwest Communications**
  Don Cameron
  (P): 281-890-4724
  Click here for Email
- **RACOM Corporation**
  Mike Miller
  (P): 641-752-5820
  (F): 641-752-0674
  Click here for Email
- **RACOM Corporation**
  Terry Rennan
  (P): 319-339-4414
  (F): 319-339-4417
  Click here for Email
- **Relm Wireless Corporation**
  Shari Sharp
  (P): 321-953-7952
  (F): 321-676-4403
  Click here for Email
- **Tait North America Inc.**
  Paul Bannister
  (P): 281-944-3567
  (F): 281-829-3300
  Click here for Email
- **Texas Communications**
  Jim Sheldon
  (P): 979-775-6239
  (F): 979-222-0126
  Click here for Email
- **Total Safety U.S., Inc. dba H2WR**
  Ricky Wagnon
  (P): 281-802-0230
  (F): 713-681-5940
  Click here for Email
- **Ultralife Corporation**
  Walter Whately
  (P): 757-419-2410
  (F): 757-961-5953
  Click here for Email
- **Utility Associates**
  Herschel Sova
  (P): 512-731-7935
  (F): 678-982-8383
  Click here for Email
- **Vertex Standar USA, Inc.**
  Rick Andrews
  (P): 619-204-6574
  (F): 619-328-0711
  Click here for Email
- **Victoria Communications Services, Inc.**
  Dorothy Mikulenka
  (P): 361-575-7417
  (F): 361-575-2369
  Click here for Email

the DHS, National Institute of Standards and Technology, the P25 radio industry and the emergency response communities.

Back to top

Utility Associates

Products Offered

Utility's 4G LTE Rocket, mobile communications gateway providing vehicle fleets with secure cellular and dual WiFi wireless connectivity. Automatically switches between WiFi, 3G and 4G networks, ensuring reliable high-speed connectivity. The Rocket seamlessly interfaces with GPS, RFID tracking, engine diagnostic, and navigation applications.

Back to top

Ultralife Corporation

Products Offered

The RIOS Interoperability Gateway interconnects IP, Radio, Smartphones, Cameras, Satellite and many other devices under one platform. Can be networked via IP or standalone. We have rack mount, remote or tactical configurations.

Back to top

Vertex Standard USA, Inc.

Contractors

Vertex Standard USA, Inc., Motorola Solutions, Inc.

Products Offered

Mobile and Portable radios, Base stations, Trunking Systems and Dispatch Consoles.

Back to top

Copyright © 2013 H-GAC. All Rights Reserved.

Monica Leal

From: Olga Rosas [orosas@cityofmercedes.net]
Sent: Thursday, October 24, 2013 4:59 PM
To: Monica Leal
Subject: Fwd: Contract No. RA05-12

Moni;

Please include this email to to the Fire Department packet that was delivered to you today. I just received this email from HGAC and so therefore was not included in the package. Thank you.

---------- Forwarded message ----------
From: **James, Lawanda** <lawanda.james@h-gac.com>
Date: Thu, Oct 24, 2013 at 3:50 PM
Subject: RE: Contract No. RA05-12
To: Olga Rosas <orosas@cityofmercedes.net>

Olga,

This quote is in compliance with HGACBuy Contract# RA05-12 thru Motorola Solutions, Inc..

La Wanda James

HGACBuy

Sr. Procurement Specialist

Cooperative Purchasing

713.993.4536

From: Olga Rosas [mailto:orosas@cityofmercedes.net]
Sent: Monday, October 21, 2013 11:53 AM
To: James, Lawanda
Subject: Contract No. RA05-12

Good Morning;

I would like to verify hgac pricing prior to issuing a purchase order on the attached quotes. Please provide me with a response at your earliest convenience. Thank you.

--

Olga Irene Rosas

Grants/Fixed Asset Coord.

City of Mercedes

400 S. Ohio Ave.

Mercedes, Texas 78570

Phn: (956) 565-3114, Ext. 129

Fax: (956) 565-2209

Email: orosas@cityofmercedes.net

--

Olga Irene Rosas
Grants/Fixed Asset Coord.
City of Mercedes
400 S. Ohio Ave.
Mercedes, Texas 78570
Phn: (956) 565-3114, Ext. 129
Fax: (956) 565-2209
Email: orosas@cityofmercedes.net

AI-41672 **Urban County 11. B.**
CC REGULAR
Meeting Date: 11/19/2013
Submitted For: Irene Montoya **Submitted By:** Mary Flores, URBAN COUNTY
Department: URBAN COUNTY

Information

CAPTION

The Urban County Program is requesting the award of bids and approval of contracts for the demolition and reconstruction of the following:

1. (1) Unit in the City of Granjeno in the amount of $55,890.00 to Argo Construction, LLC.
2. (1) Unit in the City of Granjeno and (1) unit in the City of Mercedes in the amount of $72,850.00 to A-One Insulation

BACKGROUND

The applicants were approved to receive assistance under the Owner-Occupied Housing Rehabilitation Program by the County Commissioners' Court on May 14, 2013 and September 3, 2013. Bids were received and opened at the Hidalgo County Purchasing Department on Wednesday, October 30, 2013.

FY'11 Rehab Prog.
Funds Available: $176,478.08

APPROVED AS TO FORM
Atlas & Hall, L.L.P.
By Steve Crain
Date: June 19, 2013

Attachments

Loan Agreement
Loan Agreement
Loan Agreement
Bid Tabulation
Ins.
Fonseca
Rendon
Robledo
ins
INS

Form Review

Inbox	Reviewed By	Date

Budget & Management	Obdett Calzada	11/07/2013 09:41 AM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Mary Flores Started On: 11/06/2013 11:23 AM

Final Approval Date: 11/15/2013

CONSTRUCTION LOAN AGREEMENT

OWNER-OCCUPIED REHABILITATION LOAN PROGRAM

This Construction Loan Agreement (this "Agreement"), is entered into effective as **November 19, 2013**, among Borrower, Lender and Contractor who are identified and whose addresses are stated below. This Agreement relates to the manner of disbursement of the loan proceeds on the Note for the benefit of Borrower for the rehabilitation and/or renovation of the Improvements on the Property under the Lender's Owner-Occupied Housing Rehabilitation Program. The Note is secured by liens on the Property and Improvements granted the Mechanic's Lien Contract and the Deed of Trust.

BORROWER: **Gilberto & Genoveva Fonseca**

BORROWER'S ADDRESS:

255 S. Indian
Mercedes, TX 78570

LENDER: County of Hidalgo, a political subdivision of the State of Texas

LENDER'S ADDRESS:

County of Hidalgo, Urban County Program
Owner-Occupied Rehabilitation Loan Program
3304 W. Alberta Rd.,
Edinburg, TX 78539

CONTRACTOR: **Raymundo Carrisales, A-One Insulation**

CONTRACTOR'S ADDRESS:

1006 E. Ferguson Ave.
Pharr, Texas 78577

NOTE:

Mechanic's Lien Note ("Mechanic's Lien Note") of even date herewith, in the original principal amount of **$56,350.00**, executed by Borrower, and payable to the order of Contractor, which note has been renewed and extended into a Promissory Note of even date herewith, in the original principal amount of **$56,350.00**, executed by Borrower, and payable to Lender.

CONTRACT:

Mechanic's Lien Contract and Transfer of Lien of even date herewith, executed by Borrower and Contractor providing for the rehabilitation and/or renovation to the Improvements and (i) granting Contractor liens against the Property to secure payment of the Mechanic's Lien Note; and (ii) transferring such liens to Lender.

SECURITY FOR PAYMENT:

Mechanic's and materialman's lien on the Property granted by Borrower to Contractor in the Mechanic's Lien Contract and Transfer of Lien (the "Mechanic's Lien Contract"), which liens were transferred thereunder to Lender, which Mechanic's Lien Contract and Transfer of Lien is recorded in the Real Property Records of Hidalgo County, Texas, and a deed of trust lien on the Property granted by Borrower for the benefit of Lender in a Deed of Trust ("Deed of Trust") of even date herewith, which Deed of Trust is recorded in the Real Property Records of Hidalgo County, Texas

PROPERTY: See Exhibit "A" attached hereto and made a part hereof for all purposes

IMPROVEMENTS:

Renovation and/or rehabilitation to Borrower's residence located on the Property according to: (i) Plans and Specifications, Timetable and Budget attached hereto as Exhibit "B"; (ii) an Owner-Occupied Rehabilitation Loan Program Contract (the "Rehabilitation Contract") of even date herewith entered into by and between Borrower and Lender; and (iii) the accepted bid submitted to Lender by Contractor.

AMOUNT AVAILABLE FOR CONSTRUCTION: **$56,350.00**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Borrower, Lender and Contractor agree as follows:

1. Purpose and Limitation of Advances.

(a) Subject to the provisions of this Agreement, and in compliance with Subchapter K, Chapter 53, Texas Property Code, Lender will advance funds to Contractor for the benefit of Borrower in the aggregate amount of the Note. Provided Contractor has obtained the performance bond required in Paragraph 1 (b) of this Agreement, Lender will advance the Amount Available for Construction during the course of the construction of the Improvements, in accordance with this Agreement. The Amount Available for Construction will be advanced solely to pay Contractor for costs of labor performed and materials furnished by Contractor pursuant to the Contract.

(b) Contractor may furnish a performance bond ("Bond"), at Contractor's sole cost and expense, to be kept in force throughout the period of this Agreement, in an amount equal to the Amount Available for Construction. The Bond shall: (i) cover Contractor's faithful performance of the Contract, free of liens upon the Property; (ii) name as obligees both Borrower and Lender, jointly and severally; (iii) be written by surety companies qualified to do business in the State of Texas; and (iv) be in such form and with such sureties as the Lender may approve.

(c) Construction advances are to be made by Lender to Borrower for work done.

(d) If Contractor has provided Lender and Borrower the Bond permitted by this Agreement, Contractor may submit a request for 40% of the Amount Available for Construction ("Initial Advance") when 50% of the work related to the Improvements have been completed and Contractor and Borrower have complied with the provisions of Paragraph 3 of this Agreement. A second request for construction advance for 50% of the Amount Available for Construction ("Final Advance") may be submitted when the Improvements have been completed and accepted by Borrower and Lender and Contractor and Borrower have complied with the provisions of Paragraph 4 of this Agreement.

(e) If Contractor has not provided Lender and Borrower the Bond permitted by this Agreement, Contractor may submit a request for 90% of the Amount Available for Construction when the Improvements have been completed and accepted by Borrower and Lender, and Contractor and Borrower have complied with the provisions of Paragraph 4 (except as to the Bond) of this Agreement.

(f) All requests for construction advances shall comply with Subchapter K, Chapter 53, Texas Property Code, and be made on forms approved by Lender. Each construction advance shall be in an amount equal to the Amount Available for Construction times the applicable percentage as determined by Lender and/or its inspectors. Lender may prepare a chart for determining the percentage of completion and the schedule of advances to be made by Lender, and Lender may limit advances according to the schedule based on the percentage of the Improvements that are complete at the time of any request for construction advance.

(g) Whenever in the sole opinion of Lender the cost of completing the Improvements pursuant to the plans and specifications approved by Lender exceeds the total amount of unadvanced loan proceeds, Borrower, at Lender's request, shall pay such excess to the satisfaction of Lender prior to any further advances under the Note.

2. Lender's Payments on Behalf of Borrower. Lender shall make payments for the cost of construction of the Improvements by check payable to the Owner and Contractor, or to Contractor, and in Lender's discretion, following Contractor's default under this Agreement or the Contract, jointly to Contractor and Contractor's subcontractors or suppliers.

3. Conditions to Initial Advance. Lender shall have no obligation to make the Initial Advance of funds to Borrower unless and until Contractor has furnished Borrower and Lender the Bond permitted by this Contract, and the following conditions have been satisfied:

(a) Borrower has executed and delivered to Lender this Agreement, the Contract, the Note, the Deed of Trust, the Owner-Occupied Rehabilitation Loan Program Contract of even date herewith by and between Borrower and Lender, and Affidavit of Commencement and other documents securing the loan evidenced by the Note; and Contractor has executed and delivered to Lender this Agreement, the Contract, an Affidavit of Commencement and other documents securing the loan evidenced by the Note;

(b) Borrower and Contractor have furnished Lender all documents required by Lender to evidence compliance with Subchapter K, Chapter 53, Texas Property Code;

(c) To the extent applicable, Contractor has furnished Lender evidence that Contractor has established a construction account in compliance with Chapter 162, Texas Property Code;

(d) Contractor has provided Lender a copy of the final plans and specifications for the construction of the Improvements acceptable to Lender, along with a timetable and budget for completion of the Improvements as required by this Agreement and the Contractor's accepted bid;

(e) Contractor has provided Lender a copy of the building permit for the Improvements;

(f) Contractor has provided Borrower and Lender a list of all subcontractors used or to be used for completion of the Improvements, and executed partial releases and lien waivers from Contractor and any subcontractors and suppliers who performed work and/or materials at any time in connection with the Improvements, in a form acceptable to Lender, for all amounts to be disbursed to Contractor against the Amount Available for Construction;

(g) Contractor has provided Lender a copy of all insurance policies, which Contractor is required to maintain under the Contract, or in lieu thereof, a certificate of insurance which confirms Contractor has obtained all insurance required under the Contract;

(h) Contractor has provided Lender evidence that Contractor is in compliance with Chapter 416, Texas Property Code; and

(i) Borrower and Contractor have provided Lender such other items as Lender shall reasonably require.

4. Final Advance. The Final Advance (except for retainage, which will be disbursed in accordance with paragraph 5) shall be disbursed at the completion of the Improvements when Contractor has delivered to Lender all documents required under Paragraph 3 and the following:

(a) an affidavit of completion executed by Borrower and Contractor (the "Affidavit of Completion"), a final bills- paid affidavit executed by Contractor (the "Final Bills-Paid Affidavit"), and final waivers of lien and releases executed by Contractor and any subcontractors and suppliers who performed work and/or materials at any time in connection with the Improvements (collectively, the "Releases"), which documents comply with Subchapter K, Chapter 53, Texas Property Code and are acceptable to Lender, together with supporting evidence that: (i) the construction work for the Improvements has been fully completed; and (ii) all bills for labor and material have been paid in full;

(b) Evidence that Borrower and Contractor have complied with all applicable laws pertaining to the location, development, and construction of the Improvements and that all governmental authorities having jurisdiction have approved: (i) the location, development, and construction of the Improvements to the Property; and (ii) all other matters requiring approval by governmental authorities; and

(c) Borrower and Contractor have provided such other items as Lender shall reasonably require.

5. Disbursement of Retainage. The retainage will not be disbursed until: (i) (a) the Releases have been filed in the Real Property Records of Hidalgo County, Texas, (b) the deadline to file an affidavit claiming a lien against the Property in connection with the Improvements (that is, the fifteenth (15^{th}) day of the third calendar month after the day the indebtedness accrues) has expired and no such affidavits have been filed, or (c) if any affidavits claiming a lien against the Property in connection with the Improvements have been filed, the claims set forth in such affidavits have been resolved and the affidavits have been released of record; (iii) the Affidavit of Completion and the Final Bills-Paid Affidavit have been filed in the Real Property Records of Hidalgo County, Texas; and (iv) Borrower and Contractor have complied with Paragraph 4 of this Agreement.

6. Inspections. Lender shall be entitled to: (i) use its own personnel; or (ii) to designate an architect, engineer or other third party; to make any inspections or certifications required by Lender, and Lender shall not be required to make any loan advance until Lender has received inspections and certifications satisfactory to it. Prior to each loan advance, and at such other times as Lender may require, either Borrower or Contractor will be required to call for a physical inspection by Lender or other party designated by Lender.

7. Borrower's and Contractor's Additional Obligations. Borrower and Contractor further agree that:

(a) The Improvements will be constructed and fully equipped in a good and workmanlike manner with materials of high quality, using all new materials, strictly in accordance with the plans and specifications approved by Lender, and that the Improvements will comply with: (i) all applicable Housing Quality Standards contained in 24 Code of Federal Regulations, as amended, if the Property is located outside the jurisdiction of a municipality; or (ii) all applicable local building codes and ordinances of the municipality if the Property is located within the jurisdiction of a municipality, unless the municipality has no local building codes and ordinances, in

which event Owner shall comply with all applicable Housing Quality Standards contained in 24 Code of Federal Regulations, as amended;

(b) No changes will be made in the plans and specifications submitted to Lender except on the written approval of the same by Lender;

(c) No extras shall be allowed to any contractor or subcontractor or any change made in any contract or subcontract without the Lender's prior written approval and consent;

(d) Contractor will promptly furnish Lender, at Lender's request, after execution thereof, executed copies of all contracts between Contractor and subcontractors, and of all contracts between Contractor and its suppliers, as well as contracts between subcontractors and their suppliers;

(e) Borrower and Contractor will cooperate with Lender in arranging for inspections by representatives of Lender of the progress of construction from time to time and will promptly comply with Lender's requirements or satisfy any objections regarding construction of the Improvements or the progress thereof;

(f) Borrower and Contractor will not suffer or permit any mechanics' or materialmen's lien claims to be filed or otherwise asserted against the Property and will promptly discharge the same in case of the filing of any claims for lien or proceedings for the enforcement thereof; provided, however, that Borrower shall have the right to contest in good faith and with reasonable diligence the validity of any such lien or claim on furnishing to Lender such security or indemnity as it may require;

(g) Borrower will pay all real estate taxes and assessments of every kind on the Property before the same become delinquent, and Lender may at any time require Borrower to provide evidence that taxes have been paid current;

(h) In the event that Lender shall expend any amount in performance of any of Borrower's covenants or agreements under the Note or any document securing the Note, such amounts shall constitute additional indebtedness secured under the Contract;

(i) All of the personal property, fixtures, attachments, and equipment delivered on, attached to, or used in connection with the construction of the Improvements or the operation thereof will be kept free and clear of all liens, encumbrances, and security interests whatsoever, and Borrower will be the absolute owner of such personal property, fixtures, attachments, and equipment and Contractor and Borrower will, from time to time, furnish Lender with satisfactory evidence of such ownership, including searches of applicable public records;

(j) Borrower and Contractor will comply with their respective obligations under this Agreement and the Contract and with all applicable laws, rules, ordinances and regulations;

(k) Borrower and Contractor will comply with the Special Conditions, if any, set forth in Exhibit "C" attached hereto;

(l) Contractor will pay all premiums on all insurance policies required from time to time during the progress of construction, and furnish to Lender additional and renewal insurance policies with companies, coverage, and amounts satisfactory to Lender; and

(m) Contractor will keep accurate and proper books and records of the construction of the Improvements, and will at all reasonable hours allow Lender or its representative to examine such books and records and all contracts and bills relating to the construction of the Improvements.

(l) Contractor shall not discriminate against any employee or applicant for employment because of sex, race, creed, color, national origin or handicap and shall take affirmative action to ensure that during the application process and during employment applicants and employees are treated without regard to their race, creed, color, national origin or handicap. Such action shall include, but not be limited to hiring and employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation; and selection for training, including apprenticeship. Contractor shall continuously post in conspicuous places, readily available to employees and applicants for employment, notices to be provided or approved by the County of Hidalgo, setting forth the provisions of this non-discrimination provision and such other notices as may be required by law.

8. Actions For Lender's Benefit Only. **THE AUTHORITY HEREIN CONFERRED ON LENDER AND ANY ACTION TAKEN BY LENDER IN MAKING INSPECTIONS OF THE PROPERTY, PROCURING SWORN STATEMENTS AND WAIVERS OF LIENS, APPROVING CONTRACTS AND SUBCONTRACTS AND APPROVING PLANS AND SPECIFICATIONS WILL BE TAKEN BY LENDER FOR ITS OWN PROTECTION ONLY, AND LENDER SHALL NOT BE DEEMED TO HAVE ASSUMED ANY RESPONSIBILITY TO BORROWER OR ANY OTHER PERSON WITH RESPECT TO ANY SUCH ACTION HEREIN AUTHORIZED OR TAKEN BY LENDER OR WITH RESPECT TO THE PROPER CONSTRUCTION OF THE IMPROVEMENTS, PERFORMANCE OF CONTRACTS OR SUBCONTRACTS BY ANY CONTRACTORS OR SUBCONTRACTORS, OR PREVENTION OF CLAIMS FOR MECHANIC'S LIEN.**

9. Non-Waiver By Lender. No waiver of any breach or default hereunder shall constitute or be construed as a waiver by Lender of any subsequent breach or default or of any breach or default of any other provision. No waiver of any term or provision of this Agreement shall be binding unless executed in writing by the party entitled to the benefit thereof. Pursuit by Lender of any remedies set forth in this Agreement does not preclude pursuit by Lender of other remedies in this Agreement or provided by law.

10. Conflict of Interest. **BORROWER AND CONTRACTOR REPRESENT AND WARRANT TO LENDER THAT, TO THE BEST OF THEIR KNOWLEDGE, NO EMPLOYEE, AGENT, CONSULTANT, OFFICER, OR ELECTED OR APPOINTED OFFICIAL OF LENDER WHO EXERCISES OR HAS EXERCISED ANY FUNCTIONS OR RESPONSIBILITIES WITH RESPECT TO THE ACTIVITIES ASSISTED WITH THE LENDER'S OWNER-OCCUPIED REHABILITATION LOAN PROGRAM OR WHO ARE IN A POSITION TO PARTICIPATE IN A DECISION MAKING PROCESS OR GAIN INSIDE INFORMATION WITH REGARD TO THESE ACTIVITIES, DURING THEIR TENURE OR WITHIN ONE YEAR THEREAFTER, HAS A FINANCIAL INTEREST OR BENEFIT IN THE LOAN RELATED TO THIS AGREEMENT, OR THE PROCEEDS THEREUNDER, EITHER FOR THEMSELVES OR THOSE WITH WHOM THEY HAVE FAMILY OR BUSINESS TIES.**

11. Dispute Resolution. All disputes between Contractor and Borrower regarding the construction project which is the subject of this Agreement, including, but not limited to, all disputes with regard to the Contract and this Agreement, shall, in the first instance, be submitted, in writing, with supporting documentation, within ten (10) days of the incident giving rise to the dispute, to Lender's program director having responsibility for the Lender's owner-occupied rehabilitation loan program for resolution. Except for good cause shown, any dispute not submitted within such ten (10) day period shall be deemed waived. While a dispute is pending, Contractor and Borrower shall otherwise proceed to perform all obligations under the Contract and this Agreement not otherwise in dispute.

12. Sole and Only Agreement. This Agreement and its exhibits and the instruments executed in connection therewith constitute the sole and only agreement of the parties hereto and supersedes any prior understandings or written or oral agreements between the parties respecting the within subject matter.

13. Severability. If one or more provisions of this Agreement are held to be unenforceable under applicable law, such provisions shall be excluded from this Agreement and the balance of this Agreement shall be interpreted as if such provisions were so excluded and shall be enforceable in accordance with its terms.

14. Interpretation. No provision of this Agreement will be interpreted in favor of, or against, any of the parties hereto by reason of the extent to which any such party or its counsel participated in the drafting thereof or by reason of the extent to which any such provision in inconsistent with any prior draft hereof or thereof. In the event of a conflict between this Agreement, the Mechanic's Lien Contract and/or the Rehabilitation Contract, the provisions in the document containing the most stringent requirement for the matter in dispute shall control

15. Jurisdiction and Venue. The parties agree that any suit, action or proceeding brought by a party against the other in connection with or arising from this Agreement ("Judicial Action") shall be brought only in any United States Federal or Texas state court located in Hidalgo County,

Texas and the parties hereby consent to the exclusive jurisdiction of such courts (and the appropriate appellate courts) in any such Judicial Action and waives any objection to venue laid therein. If either party is a prevailing party in a Judicial Action, such party is entitled to recover from the non-prevailing party all costs of such proceeding and reasonable attorney's fees.

16. General Provisions. This Agreement:

a. may not be assigned by Owner or Contractor without the prior written consent of County;

b. may not be amended or modified, in whole or in part, unless such amendment or modification is executed in writing by both parties;

c. binds and inures to the benefit of the parties and their respective heirs, successors and permitted assigns; and

d. is for the sole benefit of the parties hereto and their respective heirs, successors and permitted assigns. Nothing herein shall give, or be construed to give, any legal or equitable rights hereunder to any other person or entity other than the parties hereto and their respective heirs, successors and permitted assigns.

NOTICE

ANY HOLDER OF THIS CONSUMER CREDIT CONTRACT IS SUBJECT TO ALL CLAIMS AND DEFENSES WHICH THE DEBTOR COULD ASSERT AGAINST THE SELLER OF GOODS OR SERVICES OBTAINED PURSUANT HERETO OR WITH THE PROCEEDS HEREOF. RECOVERY HEREUNDER BY THE DEBTOR SHALL NOT EXCEED AMOUNTS PAID BY THE DEBTOR HEREUNDER.

IMPORTANT NOTICE: YOU AND YOUR CONTRACTOR ARE RESPONSIBLE FOR MEETING THE TERMS AND CONDITIONS OF THIS CONTRACT. IF YOU SIGN THIS CONTRACT AND YOU FAIL TO MEET THE TERMS AND CONDITIONS OF THIS CONTRACT, YOU MAY LOSE YOUR LEGAL OWNERSHIP RIGHTS IN YOUR HOME. KNOW YOUR RIGHTS AND DUTIES UNDER THE LAW.

RESIDENTIAL CONSTRUCTION LIABILITY ACT (RCLA) NOTICE

This contract is subject to Chapter 27 of the Texas Property Code. The provisions of that chapter may affect your right to recover damages arising from the performance of this contract. If you have a complaint concerning a construction defect arising from the performance of this contract and that defect has not been corrected through normal warranty service, you must provide the notice required by Chapter 27 of the Texas Property Code to the contractor by certified mail, return receipt requested, not later than the 60th day before the date you file suit to recover damages in a court of law or initiate arbitration. The notice must refer to Chapter 27 of the Texas Property Code and must describe the construction defect. If

requested by the contractor, you must provide the contractor an opportunity to inspect and cure the defect as provided by Section 27.004 of the Texas Property Code.

BORROWER:

Gilberto Fonseca

Genoveva Fonseca

YOU, THE OWNER, MAY CANCEL THIS TRANSACTION AT ANY TIME BEFORE MIDNIGHT OF THE THIRD BUSINESS DAY AFTER THE DATE OF THIS TRANSACTION. SEE THE ATTACHED NOTICE OF CANCELLATION FORM FOR AN EXPLANATION OF THIS RIGHT.

LENDER:

COUNTY OF HIDALGO, a political subdivision of the State of Texas

By: **Diana R. Serna**
Its: **Director of Urban County Program**

CONTRACTOR:

(Contractor's Printed Name)
Raymundo Carissales

OR

By: **Raymundo Carrisales**
Its: **Owner of A-One Insulation**

APPROVED AS TO FORM
Atlas & Hall, L.L.P.
By: Steve Crain
Date: June 19, 2013

STATE OF TEXAS §
§
COUNTY OF HIDALGO §

This instrument was acknowledged before me on this _____ day of _____, by **Diana R. Serna, Director of Urban County Program of the County of Hidalgo**, a political subdivision of the State of Texas, on behalf of said political subdivision.

_____
NOTARY PUBLIC, STATE OF TEXAS

STATE OF TEXAS §
§
COUNTY OF HIDALGO §

This instrument was acknowledged before me on this **19th** day of **November 2013**, by **Gilberto Fonseca.**

_____
NOTARY PUBLIC, STATE OF TEXAS

STATE OF TEXAS §
§
COUNTY OF HIDALGO §

This instrument was acknowledged before me on this **19th** day of **November 2013**, by **Genoveva Fonseca.**

_____
NOTARY PUBLIC, STATE OF TEXAS

STATE OF TEXAS §
§
COUNTY OF HIDALGO §

This instrument was acknowledged before me on this **19th** day of **November 2013**, by **Raymundo Carrisales, Owner of the A-One Insulation,** a **Contractor of the State of Texas**, on behalf of said **Hidalgo County**.

_____
NOTARY PUBLIC, STATE OF TEXAS

YOU MAY CANCEL THIS TRANSACTION, WITHOUT ANY PENALTY OR OBLIGATION, WITHIN THREE BUSINESS DAYS FROM THE ABOVE DATE.

IF YOU CANCEL, ANY PROPERTY TRADED IN, ANY PAYMENTS MADE BY YOU UNDER THE CONTRACT OR SALE, AND ANY NEGOTIABLE INSTRUMENT EXECUTED BY YOU WILL BE RETURNED WITHIN TEN BUSINESS DAYS FOLLOWING RECEIPT BY THE MERCHANT OF YOUR CANCELLATION NOTICE, AND ANY SECURITY INTEREST ARISING OUT OF THE TRANSACTION WILL BE CANCELED.

IF YOU CANCEL YOU MUST MAKE AVAILABLE TO THE MERCHANT AT YOUR RESIDENCE, IN SUBSTANTIALLY AS GOOD CONDITION AS WHEN RECEIVED, ANY GOODS DELIVERED TO YOU UNDER THIS CONTRACT OR SALE; OR YOU MAY IF YOU WISH, COMPLY WITH THE INSTRUCTIONS OF THE MERCHANT REGARDING THE RETURN SHIPMENT OF THE GOODS AT THE MERCHANT'S EXPENSE AND RISK.

IF YOU DO NOT AGREE TO RETURN THE GOODS TO THE MERCHANT OR IF THE MERCHANT DOES NOT PICK THEM UP WITHIN TWENTY DAYS OF THE DATE OF YOUR NOTICE OF CANCELLATION, YOU MAY RETAIN OR DISPOSE OF THE GOODS WITHOUT ANY FURTHER OBLIGATION.

TO CANCEL THIS TRANSACTION, MAIL OR DELIVER A SIGNED AND DATED COPY OF THIS CANCELLATION NOTICE OR ANY OTHER WRITTEN NOTICE, OR SEND A TELEGRAM, TO RAYMUNDO CARRISALES, A-ONE INSULATION, AT 1006 E. FERGUSON ST., PHARR, TEXAS 78577 NOT LATER THAN MIDNIGHT OF NOVEMBER 22, 2013.

I HEREBY CANCEL THIS TRANSACTION.

Dated: _____.

OWNER:

_____

Gilberto Fonseca

_____

Genoveva Fonseca

EXHIBIT "A"
LEGAL DESCRIPTION OF THE PROPERTY

All of Lot 10 Gross Subdivision, of Block 105 Townsite of Mercedes, Hidalgo County Texas.

EXHIBIT "B"
PLANS AND SPECIFICATIONS,
TIMETABLE
AND
BUDGET

EXHIBIT "C"
SPECIAL CONDITIONS

None.

CONSTRUCTION LOAN AGREEMENT

OWNER-OCCUPIED REHABILITATION LOAN PROGRAM

This Construction Loan Agreement (this "Agreement"), is entered into effective as **November 19, 2013**, among Borrower, Lender and Contractor who are identified and whose addresses are stated below. This Agreement relates to the manner of disbursement of the loan proceeds on the Note for the benefit of Borrower for the rehabilitation and/or renovation of the Improvements on the Property under the Lender's Owner-Occupied Housing Rehabilitation Program. The Note is secured by liens on the Property and Improvements granted the Mechanic's Lien Contract and the Deed of Trust.

BORROWER: **Maria Rendon**

BORROWER'S ADDRESS:

6627 El Camino Real
Mission, TX 78572

LENDER: County of Hidalgo, a political subdivision of the State of Texas

LENDER'S ADDRESS:

County of Hidalgo, Urban County Program
Owner-Occupied Rehabilitation Loan Program
3304 W. Alberta Rd.,
Edinburg, TX 78539

CONTRACTOR: **Raymundo Carrisales, A-One Insulation**

CONTRACTOR'S ADDRESS:

1006 E. Ferguson Ave.
Pharr, Texas 78577

NOTE:

Mechanic's Lien Note ("Mechanic's Lien Note") of even date herewith, in the original principal amount of **$16,500.00**, executed by Borrower, and payable to the order of Contractor, which note has been renewed and extended into a Promissory Note of even date herewith, in the original principal amount of **$16,500.00**, executed by Borrower, and payable to Lender.

CONTRACT:

Mechanic's Lien Contract and Transfer of Lien of even date herewith, executed by Borrower and Contractor providing for the rehabilitation and/or renovation to the Improvements and (i) granting Contractor liens against the Property to secure payment of the Mechanic's Lien Note; and (ii) transferring such liens to Lender.

SECURITY FOR PAYMENT:

Mechanic's and materialman's lien on the Property granted by Borrower to Contractor in the Mechanic's Lien Contract and Transfer of Lien (the "Mechanic's Lien Contract"), which liens were transferred thereunder to Lender, which Mechanic's Lien Contract and Transfer of Lien is recorded in the Real Property Records of Hidalgo County, Texas, and a deed of trust lien on the Property granted by Borrower for the benefit of Lender in a Deed of Trust ("Deed of Trust") of even date herewith, which Deed of Trust is recorded in the Real Property Records of Hidalgo County, Texas

PROPERTY: See Exhibit "A" attached hereto and made a part hereof for all purposes

IMPROVEMENTS:

Renovation and/or rehabilitation to Borrower's residence located on the Property according to: (i) Plans and Specifications, Timetable and Budget attached hereto as Exhibit "B"; (ii) an Owner-Occupied Rehabilitation Loan Program Contract (the "Rehabilitation Contract") of even date herewith entered into by and between Borrower and Lender; and (iii) the accepted bid submitted to Lender by Contractor.

AMOUNT AVAILABLE FOR CONSTRUCTION: **$16,500.00**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Borrower, Lender and Contractor agree as follows:

1. Purpose and Limitation of Advances.

(a) Subject to the provisions of this Agreement, and in compliance with Subchapter K, Chapter 53, Texas Property Code, Lender will advance funds to Contractor for the benefit of Borrower in the aggregate amount of the Note. Provided Contractor has obtained the performance bond required in Paragraph 1 (b) of this Agreement, Lender will advance the Amount Available for Construction during the course of the construction of the Improvements, in accordance with this Agreement. The Amount Available for Construction will be advanced solely to pay Contractor for costs of labor performed and materials furnished by Contractor pursuant to the Contract.

(b) Contractor may furnish a performance bond ("Bond"), at Contractor's sole cost and expense, to be kept in force throughout the period of this Agreement, in an amount equal to the Amount Available for Construction. The Bond shall: (i) cover Contractor's faithful performance of the Contract, free of liens upon the Property; (ii) name as obligees both Borrower and Lender, jointly and severally; (iii) be written by surety companies qualified to do business in the State of Texas; and (iv) be in such form and with such sureties as the Lender may approve.

(c) Construction advances are to be made by Lender to Borrower for work done.

(d) If Contractor has provided Lender and Borrower the Bond permitted by this Agreement, Contractor may submit a request for 40% of the Amount Available for Construction ("Initial Advance") when 50% of the work related to the Improvements have been completed and Contractor and Borrower have complied with the provisions of Paragraph 3 of this Agreement. A second request for construction advance for 50% of the Amount Available for Construction ("Final Advance") may be submitted when the Improvements have been completed and accepted by Borrower and Lender and Contractor and Borrower have complied with the provisions of Paragraph 4 of this Agreement.

(e) If Contractor has not provided Lender and Borrower the Bond permitted by this Agreement, Contractor may submit a request for 90% of the Amount Available for Construction when the Improvements have been completed and accepted by Borrower and Lender, and Contractor and Borrower have complied with the provisions of Paragraph 4 (except as to the Bond) of this Agreement.

(f) All requests for construction advances shall comply with Subchapter K, Chapter 53, Texas Property Code, and be made on forms approved by Lender. Each construction advance shall be in an amount equal to the Amount Available for Construction times the applicable percentage as determined by Lender and/or its inspectors. Lender may prepare a chart for determining the percentage of completion and the schedule of advances to be made by Lender, and Lender may limit advances according to the schedule based on the percentage of the Improvements that are complete at the time of any request for construction advance.

(g) Whenever in the sole opinion of Lender the cost of completing the Improvements pursuant to the plans and specifications approved by Lender exceeds the total amount of unadvanced loan proceeds, Borrower, at Lender's request, shall pay such excess to the satisfaction of Lender prior to any further advances under the Note.

2. Lender's Payments on Behalf of Borrower. Lender shall make payments for the cost of construction of the Improvements by check payable to the Owner and Contractor, or to Contractor, and in Lender's discretion, following Contractor's default under this Agreement or the Contract, jointly to Contractor and Contractor's subcontractors or suppliers.

3. Conditions to Initial Advance. Lender shall have no obligation to make the Initial Advance of funds to Borrower unless and until Contractor has furnished Borrower and Lender the Bond permitted by this Contract, and the following conditions have been satisfied:

(a) Borrower has executed and delivered to Lender this Agreement, the Contract, the Note, the Deed of Trust, the Owner-Occupied Rehabilitation Loan Program Contract of even date herewith by and between Borrower and Lender, and Affidavit of Commencement and other documents securing the loan evidenced by the Note; and Contractor has executed and delivered to Lender this Agreement, the Contract, an Affidavit of Commencement and other documents securing the loan evidenced by the Note;

(b) Borrower and Contractor have furnished Lender all documents required by Lender to evidence compliance with Subchapter K, Chapter 53, Texas Property Code;

(c) To the extent applicable, Contractor has furnished Lender evidence that Contractor has established a construction account in compliance with Chapter 162, Texas Property Code;

(d) Contractor has provided Lender a copy of the final plans and specifications for the construction of the Improvements acceptable to Lender, along with a timetable and budget for completion of the Improvements as required by this Agreement and the Contractor's accepted bid;

(e) Contractor has provided Lender a copy of the building permit for the Improvements;

(f) Contractor has provided Borrower and Lender a list of all subcontractors used or to be used for completion of the Improvements, and executed partial releases and lien waivers from Contractor and any subcontractors and suppliers who performed work and/or materials at any time in connection with the Improvements, in a form acceptable to Lender, for all amounts to be disbursed to Contractor against the Amount Available for Construction;

(g) Contractor has provided Lender a copy of all insurance policies, which Contractor is required to maintain under the Contract, or in lieu thereof, a certificate of insurance which confirms Contractor has obtained all insurance required under the Contract;

(h) Contractor has provided Lender evidence that Contractor is in compliance with Chapter 416, Texas Property Code; and

(i) Borrower and Contractor have provided Lender such other items as Lender shall reasonably require.

4. Final Advance. The Final Advance (except for retainage, which will be disbursed in accordance with paragraph 5) shall be disbursed at the completion of the Improvements when Contractor has delivered to Lender all documents required under Paragraph 3 and the following:

(a) an affidavit of completion executed by Borrower and Contractor (the "Affidavit of Completion"), a final bills- paid affidavit executed by Contractor (the "Final Bills-Paid Affidavit"), and final waivers of lien and releases executed by Contractor and any subcontractors and suppliers who performed work and/or materials at any time in connection with the Improvements (collectively, the "Releases"), which documents comply with Subchapter K, Chapter 53, Texas Property Code and are acceptable to Lender, together with supporting evidence that: (i) the construction work for the Improvements has been fully completed; and (ii) all bills for labor and material have been paid in full;

(b) Evidence that Borrower and Contractor have complied with all applicable laws pertaining to the location, development, and construction of the Improvements and that all governmental authorities having jurisdiction have approved: (i) the location, development, and construction of the Improvements to the Property; and (ii) all other matters requiring approval by governmental authorities; and

(c) Borrower and Contractor have provided such other items as Lender shall reasonably require.

5. Disbursement of Retainage. The retainage will not be disbursed until: (i) (a) the Releases have been filed in the Real Property Records of Hidalgo County, Texas, (b) the deadline to file an affidavit claiming a lien against the Property in connection with the Improvements (that is, the fifteenth (15^{th}) day of the third calendar month after the day the indebtedness accrues) has expired and no such affidavits have been filed, or (c) if any affidavits claiming a lien against the Property in connection with the Improvements have been filed, the claims set forth in such affidavits have been resolved and the affidavits have been released of record; (iii) the Affidavit of Completion and the Final Bills-Paid Affidavit have been filed in the Real Property Records of Hidalgo County, Texas; and (iv) Borrower and Contractor have complied with Paragraph 4 of this Agreement.

6. Inspections. Lender shall be entitled to: (i) use its own personnel; or (ii) to designate an architect, engineer or other third party; to make any inspections or certifications required by Lender, and Lender shall not be required to make any loan advance until Lender has received inspections and certifications satisfactory to it. Prior to each loan advance, and at such other times as Lender may require, either Borrower or Contractor will be required to call for a physical inspection by Lender or other party designated by Lender.

7. Borrower's and Contractor's Additional Obligations. Borrower and Contractor further agree that:

(a) The Improvements will be constructed and fully equipped in a good and workmanlike manner with materials of high quality, using all new materials, strictly in accordance with the plans and specifications approved by Lender, and that the Improvements will comply with: (i) all applicable Housing Quality Standards contained in 24 Code of Federal Regulations, as amended, if the Property is located outside the jurisdiction of a municipality; or (ii) all applicable local building codes and ordinances of the municipality if the Property is located within the jurisdiction of a municipality, unless the municipality has no local building codes and ordinances, in

which event Owner shall comply with all applicable Housing Quality Standards contained in 24 Code of Federal Regulations, as amended;

(b) No changes will be made in the plans and specifications submitted to Lender except on the written approval of the same by Lender;

(c) No extras shall be allowed to any contractor or subcontractor or any change made in any contract or subcontract without the Lender's prior written approval and consent;

(d) Contractor will promptly furnish Lender, at Lender's request, after execution thereof, executed copies of all contracts between Contractor and subcontractors, and of all contracts between Contractor and its suppliers, as well as contracts between subcontractors and their suppliers;

(e) Borrower and Contractor will cooperate with Lender in arranging for inspections by representatives of Lender of the progress of construction from time to time and will promptly comply with Lender's requirements or satisfy any objections regarding construction of the Improvements or the progress thereof;

(f) Borrower and Contractor will not suffer or permit any mechanics' or materialmen's lien claims to be filed or otherwise asserted against the Property and will promptly discharge the same in case of the filing of any claims for lien or proceedings for the enforcement thereof; provided, however, that Borrower shall have the right to contest in good faith and with reasonable diligence the validity of any such lien or claim on furnishing to Lender such security or indemnity as it may require;

(g) Borrower will pay all real estate taxes and assessments of every kind on the Property before the same become delinquent, and Lender may at any time require Borrower to provide evidence that taxes have been paid current;

(h) In the event that Lender shall expend any amount in performance of any of Borrower's covenants or agreements under the Note or any document securing the Note, such amounts shall constitute additional indebtedness secured under the Contract;

(i) All of the personal property, fixtures, attachments, and equipment delivered on, attached to, or used in connection with the construction of the Improvements or the operation thereof will be kept free and clear of all liens, encumbrances, and security interests whatsoever, and Borrower will be the absolute owner of such personal property, fixtures, attachments, and equipment and Contractor and Borrower will, from time to time, furnish Lender with satisfactory evidence of such ownership, including searches of applicable public records;

(j) Borrower and Contractor will comply with their respective obligations under this Agreement and the Contract and with all applicable laws, rules, ordinances and regulations;

(k) Borrower and Contractor will comply with the Special Conditions, if any, set forth in Exhibit "C" attached hereto;

(l) Contractor will pay all premiums on all insurance policies required from time to time during the progress of construction, and furnish to Lender additional and renewal insurance policies with companies, coverage, and amounts satisfactory to Lender; and

(m) Contractor will keep accurate and proper books and records of the construction of the Improvements, and will at all reasonable hours allow Lender or its representative to examine such books and records and all contracts and bills relating to the construction of the Improvements.

(l) Contractor shall not discriminate against any employee or applicant for employment because of sex, race, creed, color, national origin or handicap and shall take affirmative action to ensure that during the application process and during employment applicants and employees are treated without regard to their race, creed, color, national origin or handicap. Such action shall include, but not be limited to hiring and employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation; and selection for training, including apprenticeship. Contractor shall continuously post in conspicuous places, readily available to employees and applicants for employment, notices to be provided or approved by the County of Hidalgo, setting forth the provisions of this non-discrimination provision and such other notices as may be required by law.

8. Actions For Lender's Benefit Only. **THE AUTHORITY HEREIN CONFERRED ON LENDER AND ANY ACTION TAKEN BY LENDER IN MAKING INSPECTIONS OF THE PROPERTY, PROCURING SWORN STATEMENTS AND WAIVERS OF LIENS, APPROVING CONTRACTS AND SUBCONTRACTS AND APPROVING PLANS AND SPECIFICATIONS WILL BE TAKEN BY LENDER FOR ITS OWN PROTECTION ONLY, AND LENDER SHALL NOT BE DEEMED TO HAVE ASSUMED ANY RESPONSIBILITY TO BORROWER OR ANY OTHER PERSON WITH RESPECT TO ANY SUCH ACTION HEREIN AUTHORIZED OR TAKEN BY LENDER OR WITH RESPECT TO THE PROPER CONSTRUCTION OF THE IMPROVEMENTS, PERFORMANCE OF CONTRACTS OR SUBCONTRACTS BY ANY CONTRACTORS OR SUBCONTRACTORS, OR PREVENTION OF CLAIMS FOR MECHANIC'S LIEN.**

9. Non-Waiver By Lender. No waiver of any breach or default hereunder shall constitute or be construed as a waiver by Lender of any subsequent breach or default or of any breach or default of any other provision. No waiver of any term or provision of this Agreement shall be binding unless executed in writing by the party entitled to the benefit thereof. Pursuit by Lender of any remedies set forth in this Agreement does not preclude pursuit by Lender of other remedies in this Agreement or provided by law.

10. Conflict of Interest. **BORROWER AND CONTRACTOR REPRESENT AND WARRANT TO LENDER THAT, TO THE BEST OF THEIR KNOWLEDGE, NO EMPLOYEE, AGENT, CONSULTANT, OFFICER, OR ELECTED OR APPOINTED OFFICIAL OF LENDER WHO EXERCISES OR HAS EXERCISED ANY FUNCTIONS OR RESPONSIBILITIES WITH RESPECT TO THE ACTIVITIES ASSISTED WITH THE LENDER'S OWNER-OCCUPIED REHABILITATION LOAN PROGRAM OR WHO ARE IN A POSITION TO PARTICIPATE IN A DECISION MAKING PROCESS OR GAIN INSIDE INFORMATION WITH REGARD TO THESE ACTIVITIES, DURING THEIR TENURE OR WITHIN ONE YEAR THEREAFTER, HAS A FINANCIAL INTEREST OR BENEFIT IN THE LOAN RELATED TO THIS AGREEMENT, OR THE PROCEEDS THEREUNDER, EITHER FOR THEMSELVES OR THOSE WITH WHOM THEY HAVE FAMILY OR BUSINESS TIES.**

11. Dispute Resolution. All disputes between Contractor and Borrower regarding the construction project which is the subject of this Agreement, including, but not limited to, all disputes with regard to the Contract and this Agreement, shall, in the first instance, be submitted, in writing, with supporting documentation, within ten (10) days of the incident giving rise to the dispute, to Lender's program director having responsibility for the Lender's owner-occupied rehabilitation loan program for resolution. Except for good cause shown, any dispute not submitted within such ten (10) day period shall be deemed waived. While a dispute is pending, Contractor and Borrower shall otherwise proceed to perform all obligations under the Contract and this Agreement not otherwise in dispute.

12. Sole and Only Agreement. This Agreement and its exhibits and the instruments executed in connection therewith constitute the sole and only agreement of the parties hereto and supersedes any prior understandings or written or oral agreements between the parties respecting the within subject matter.

13. Severability. If one or more provisions of this Agreement are held to be unenforceable under applicable law, such provisions shall be excluded from this Agreement and the balance of this Agreement shall be interpreted as if such provisions were so excluded and shall be enforceable in accordance with its terms.

14. Interpretation. No provision of this Agreement will be interpreted in favor of, or against, any of the parties hereto by reason of the extent to which any such party or its counsel participated in the drafting thereof or by reason of the extent to which any such provision in inconsistent with any prior draft hereof or thereof. In the event of a conflict between this Agreement, the Mechanic's Lien Contract and/or the Rehabilitation Contract, the provisions in the document containing the most stringent requirement for the matter in dispute shall control

15. Jurisdiction and Venue. The parties agree that any suit, action or proceeding brought by a party against the other in connection with or arising from this Agreement ("Judicial Action") shall be brought only in any United States Federal or Texas state court located in Hidalgo County,

Texas and the parties hereby consent to the exclusive jurisdiction of such courts (and the appropriate appellate courts) in any such Judicial Action and waives any objection to venue laid therein. If either party is a prevailing party in a Judicial Action, such party is entitled to recover from the non-prevailing party all costs of such proceeding and reasonable attorney's fees.

16. General Provisions. This Agreement:

a. may not be assigned by Owner or Contractor without the prior written consent of County;

b. may not be amended or modified, in whole or in part, unless such amendment or modification is executed in writing by both parties;

c. binds and inures to the benefit of the parties and their respective heirs, successors and permitted assigns; and

d. is for the sole benefit of the parties hereto and their respective heirs, successors and permitted assigns. Nothing herein shall give, or be construed to give, any legal or equitable rights hereunder to any other person or entity other than the parties hereto and their respective heirs, successors and permitted assigns.

NOTICE

ANY HOLDER OF THIS CONSUMER CREDIT CONTRACT IS SUBJECT TO ALL CLAIMS AND DEFENSES WHICH THE DEBTOR COULD ASSERT AGAINST THE SELLER OF GOODS OR SERVICES OBTAINED PURSUANT HERETO OR WITH THE PROCEEDS HEREOF. RECOVERY HEREUNDER BY THE DEBTOR SHALL NOT EXCEED AMOUNTS PAID BY THE DEBTOR HEREUNDER.

IMPORTANT NOTICE: YOU AND YOUR CONTRACTOR ARE RESPONSIBLE FOR MEETING THE TERMS AND CONDITIONS OF THIS CONTRACT. IF YOU SIGN THIS CONTRACT AND YOU FAIL TO MEET THE TERMS AND CONDITIONS OF THIS CONTRACT, YOU MAY LOSE YOUR LEGAL OWNERSHIP RIGHTS IN YOUR HOME. KNOW YOUR RIGHTS AND DUTIES UNDER THE LAW.

RESIDENTIAL CONSTRUCTION LIABILITY ACT (RCLA) NOTICE

This contract is subject to Chapter 27 of the Texas Property Code. The provisions of that chapter may affect your right to recover damages arising from the performance of this contract. If you have a complaint concerning a construction defect arising from the performance of this contract and that defect has not been corrected through normal warranty service, you must provide the notice required by Chapter 27 of the Texas Property Code to the contractor by certified mail, return receipt requested, not later than the 60th day before the date you file suit to recover damages in a court of law or initiate arbitration. The notice must refer to Chapter 27 of the Texas Property Code and must describe the construction defect. If

requested by the contractor, you must provide the contractor an opportunity to inspect and cure the defect as provided by Section 27.004 of the Texas Property Code.

BORROWER:

Maria Rendon

YOU, THE OWNER, MAY CANCEL THIS TRANSACTION AT ANY TIME BEFORE MIDNIGHT OF THE THIRD BUSINESS DAY AFTER THE DATE OF THIS TRANSACTION. SEE THE ATTACHED NOTICE OF CANCELLATION FORM FOR AN EXPLANATION OF THIS RIGHT.

LENDER:

COUNTY OF HIDALGO, a political subdivision of the State of Texas

By: **Diana R. Serna**
Its: **Director of Urban County Program**

CONTRACTOR:

(Contractor's Printed Name)
Raymundo Carissales

OR

APPROVED AS TO FORM
Atlas & Hall, L.L.P.
By: Steve Crain
Date: June 19, 2013

By: **Raymundo Carrisales**
Its: **Owner of A-One Insulation**

STATE OF TEXAS §
§
COUNTY OF HIDALGO §

This instrument was acknowledged before me on this _____ day of _____, by **Diana R. Serna, Director of Urban County Program of the County of Hidalgo**, a political subdivision of the State of Texas, on behalf of said political subdivision.

_____
NOTARY PUBLIC, STATE OF TEXAS

STATE OF TEXAS §
§
COUNTY OF HIDALGO §

This instrument was acknowledged before me on this **19th** day of **November 2013**, by **Maria Rendon.**

_____
NOTARY PUBLIC, STATE OF TEXAS

STATE OF TEXAS §
§
COUNTY OF HIDALGO §

This instrument was acknowledged before me on this **19th** day of **November 2013**, by **Raymundo Carrisales, Owner of the A-One Insulation,** a **Contractor of the State of Texas**, on behalf of said **Hidalgo County**.

_____
NOTARY PUBLIC, STATE OF TEXAS

YOU MAY CANCEL THIS TRANSACTION, WITHOUT ANY PENALTY OR OBLIGATION, WITHIN THREE BUSINESS DAYS FROM THE ABOVE DATE.

IF YOU CANCEL, ANY PROPERTY TRADED IN, ANY PAYMENTS MADE BY YOU UNDER THE CONTRACT OR SALE, AND ANY NEGOTIABLE INSTRUMENT EXECUTED BY YOU WILL BE RETURNED WITHIN TEN BUSINESS DAYS FOLLOWING RECEIPT BY THE MERCHANT OF YOUR CANCELLATION NOTICE, AND ANY SECURITY INTEREST ARISING OUT OF THE TRANSACTION WILL BE CANCELED.

IF YOU CANCEL YOU MUST MAKE AVAILABLE TO THE MERCHANT AT YOUR RESIDENCE, IN SUBSTANTIALLY AS GOOD CONDITION AS WHEN RECEIVED, ANY GOODS DELIVERED TO YOU UNDER THIS CONTRACT OR SALE; OR YOU MAY IF YOU WISH, COMPLY WITH THE INSTRUCTIONS OF THE MERCHANT REGARDING THE RETURN SHIPMENT OF THE GOODS AT THE MERCHANT'S EXPENSE AND RISK.

IF YOU DO NOT AGREE TO RETURN THE GOODS TO THE MERCHANT OR IF THE MERCHANT DOES NOT PICK THEM UP WITHIN TWENTY DAYS OF THE DATE OF YOUR NOTICE OF CANCELLATION, YOU MAY RETAIN OR DISPOSE OF THE GOODS WITHOUT ANY FURTHER OBLIGATION.

TO CANCEL THIS TRANSACTION, MAIL OR DELIVER A SIGNED AND DATED COPY OF THIS CANCELLATION NOTICE OR ANY OTHER WRITTEN NOTICE, OR SEND A TELEGRAM, TO RAYMUNDO CARRISALES, A-ONE INSULATION, AT 1006 E. FERGUSON ST., PHARR, TEXAS 78577 NOT LATER THAN MIDNIGHT OF NOVEMBER 22, 2013.

I HEREBY CANCEL THIS TRANSACTION.

Dated: _____.

OWNER:

_____

Maria Rendon

EXHIBIT "A"
LEGAL DESCRIPTION OF THE PROPERTY

The West 82 feet of a tract or parcel of land out of the Nic Bocanegra Survey of lands in Porciones 58 and 59 in Hidalgo County Texas.

EXHIBIT "B"
PLANS AND SPECIFICATIONS,
TIMETABLE
AND
BUDGET

EXHIBIT "C"
SPECIAL CONDITIONS

None.

CONSTRUCTION LOAN AGREEMENT

OWNER-OCCUPIED REHABILITATION LOAN PROGRAM

This Construction Loan Agreement (this "Agreement"), is entered into effective as **November 19, 2013**, among Borrower, Lender and Contractor who are identified and whose addresses are stated below. This Agreement relates to the manner of disbursement of the loan proceeds on the Note for the benefit of Borrower for the rehabilitation and/or renovation of the Improvements on the Property under the Lender's Owner-Occupied Housing Rehabilitation Program. The Note is secured by liens on the Property and Improvements granted the Mechanic's Lien Contract and the Deed of Trust.

BORROWER: **Pedro Robledo**

BORROWER'S ADDRESS:

6588 S FM 494
Granjeno, TX 78572

LENDER: County of Hidalgo, a political subdivision of the State of Texas

LENDER'S ADDRESS:

County of Hidalgo, Urban County Program
Owner-Occupied Rehabilitation Loan Program
3304 W. Alberta Rd.,
Edinburg, TX 78539

CONTRACTOR: **Arnold Gonzalez, ARGO CONTRACTORS**

CONTRACTOR'S ADDRESS:

814 Cimarron Dr.,
Mission TX 78572

NOTE:

Mechanic's Lien Note ("Mechanic's Lien Note") of even date herewith, in the original principal amount of **$55,890.00**, executed by Borrower, and payable to the order of Contractor, which note has been renewed and extended into a Promissory Note of even date herewith, in the original principal amount of **$55,890.00**, executed by Borrower, and payable to Lender.

CONTRACT:

Mechanic's Lien Contract and Transfer of Lien of even date herewith, executed by Borrower and Contractor providing for the rehabilitation and/or renovation to the Improvements and (i) granting Contractor liens against the Property to secure payment of the Mechanic's Lien Note; and (ii) transferring such liens to Lender.

SECURITY FOR PAYMENT:

Mechanic's and materialman's lien on the Property granted by Borrower to Contractor in the Mechanic's Lien Contract and Transfer of Lien (the "Mechanic's Lien Contract"), which liens were transferred thereunder to Lender, which Mechanic's Lien Contract and Transfer of Lien is recorded in the Real Property Records of Hidalgo County, Texas, and a deed of trust lien on the Property granted by Borrower for the benefit of Lender in a Deed of Trust ("Deed of Trust") of even date herewith, which Deed of Trust is recorded in the Real Property Records of Hidalgo County, Texas

PROPERTY: See Exhibit "A" attached hereto and made a part hereof for all purposes

IMPROVEMENTS:

Renovation and/or rehabilitation to Borrower's residence located on the Property according to: (i) Plans and Specifications, Timetable and Budget attached hereto as Exhibit "B"; (ii) an Owner-Occupied Rehabilitation Loan Program Contract (the "Rehabilitation Contract") of even date herewith entered into by and between Borrower and Lender; and (iii) the accepted bid submitted to Lender by Contractor.

AMOUNT AVAILABLE FOR CONSTRUCTION: **$55,890.00**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Borrower, Lender and Contractor agree as follows:

1. Purpose and Limitation of Advances.

(a) Subject to the provisions of this Agreement, and in compliance with Subchapter K, Chapter 53, Texas Property Code, Lender will advance funds to Contractor for the benefit of Borrower in the aggregate amount of the Note. Provided Contractor has obtained the performance bond required in Paragraph 1 (b) of this Agreement, Lender will advance the Amount Available for Construction during the course of the construction of the Improvements, in accordance with this Agreement. The Amount Available for Construction will be advanced solely to pay Contractor for costs of labor performed and materials furnished by Contractor pursuant to the Contract.

(b) Contractor may furnish a performance bond ("Bond"), at Contractor's sole cost and expense, to be kept in force throughout the period of this Agreement, in an amount equal to the Amount Available for Construction. The Bond shall: (i) cover Contractor's faithful performance of the Contract, free of liens upon the Property; (ii) name as obligees both Borrower and Lender, jointly and severally; (iii) be written by surety companies qualified to do business in the State of Texas; and (iv) be in such form and with such sureties as the Lender may approve.

(c) Construction advances are to be made by Lender to Borrower for work done.

(d) If Contractor has provided Lender and Borrower the Bond permitted by this Agreement, Contractor may submit a request for 40% of the Amount Available for Construction ("Initial Advance") when 50% of the work related to the Improvements have been completed and Contractor and Borrower have complied with the provisions of Paragraph 3 of this Agreement. A second request for construction advance for 50% of the Amount Available for Construction ("Final Advance") may be submitted when the Improvements have been completed and accepted by Borrower and Lender and Contractor and Borrower have complied with the provisions of Paragraph 4 of this Agreement.

(e) If Contractor has not provided Lender and Borrower the Bond permitted by this Agreement, Contractor may submit a request for 90% of the Amount Available for Construction when the Improvements have been completed and accepted by Borrower and Lender, and Contractor and Borrower have complied with the provisions of Paragraph 4 (except as to the Bond) of this Agreement.

(f) All requests for construction advances shall comply with Subchapter K, Chapter 53, Texas Property Code, and be made on forms approved by Lender. Each construction advance shall be in an amount equal to the Amount Available for Construction times the applicable percentage as determined by Lender and/or its inspectors. Lender may prepare a chart for determining the percentage of completion and the schedule of advances to be made by Lender, and Lender may limit advances according to the schedule based on the percentage of the Improvements that are complete at the time of any request for construction advance.

(g) Whenever in the sole opinion of Lender the cost of completing the Improvements pursuant to the plans and specifications approved by Lender exceeds the total amount of unadvanced loan proceeds, Borrower, at Lender's request, shall pay such excess to the satisfaction of Lender prior to any further advances under the Note.

2. Lender's Payments on Behalf of Borrower. Lender shall make payments for the cost of construction of the Improvements by check payable to the Owner and Contractor, or to Contractor, and in Lender's discretion, following Contractor's default under this Agreement or the Contract, jointly to Contractor and Contractor's subcontractors or suppliers.

3. Conditions to Initial Advance. Lender shall have no obligation to make the Initial Advance of funds to Borrower unless and until Contractor has furnished Borrower and Lender the Bond permitted by this Contract, and the following conditions have been satisfied:

(a) Borrower has executed and delivered to Lender this Agreement, the Contract, the Note, the Deed of Trust, the Owner-Occupied Rehabilitation Loan Program Contract of even date herewith by and between Borrower and Lender, and Affidavit of Commencement and other documents securing the loan evidenced by the Note; and Contractor has executed and delivered to Lender this Agreement, the Contract, an Affidavit of Commencement and other documents securing the loan evidenced by the Note;

(b) Borrower and Contractor have furnished Lender all documents required by Lender to evidence compliance with Subchapter K, Chapter 53, Texas Property Code;

(c) To the extent applicable, Contractor has furnished Lender evidence that Contractor has established a construction account in compliance with Chapter 162, Texas Property Code;

(d) Contractor has provided Lender a copy of the final plans and specifications for the construction of the Improvements acceptable to Lender, along with a timetable and budget for completion of the Improvements as required by this Agreement and the Contractor's accepted bid;

(e) Contractor has provided Lender a copy of the building permit for the Improvements;

(f) Contractor has provided Borrower and Lender a list of all subcontractors used or to be used for completion of the Improvements, and executed partial releases and lien waivers from Contractor and any subcontractors and suppliers who performed work and/or materials at any time in connection with the Improvements, in a form acceptable to Lender, for all amounts to be disbursed to Contractor against the Amount Available for Construction;

(g) Contractor has provided Lender a copy of all insurance policies, which Contractor is required to maintain under the Contract, or in lieu thereof, a certificate of insurance which confirms Contractor has obtained all insurance required under the Contract;

(h) Contractor has provided Lender evidence that Contractor is in compliance with Chapter 416, Texas Property Code; and

(i) Borrower and Contractor have provided Lender such other items as Lender shall reasonably require.

4. Final Advance. The Final Advance (except for retainage, which will be disbursed in accordance with paragraph 5) shall be disbursed at the completion of the Improvements when Contractor has delivered to Lender all documents required under Paragraph 3 and the following:

(a) an affidavit of completion executed by Borrower and Contractor (the "Affidavit of Completion"), a final bills- paid affidavit executed by Contractor (the "Final Bills-Paid Affidavit"), and final waivers of lien and releases executed by Contractor and any subcontractors and suppliers who performed work and/or materials at any time in connection with the Improvements (collectively, the "Releases"), which documents comply with Subchapter K, Chapter 53, Texas Property Code and are acceptable to Lender, together with supporting evidence that: (i) the construction work for the Improvements has been fully completed; and (ii) all bills for labor and material have been paid in full;

(b) Evidence that Borrower and Contractor have complied with all applicable laws pertaining to the location, development, and construction of the Improvements and that all governmental authorities having jurisdiction have approved: (i) the location, development, and construction of the Improvements to the Property; and (ii) all other matters requiring approval by governmental authorities; and

(c) Borrower and Contractor have provided such other items as Lender shall reasonably require.

5. Disbursement of Retainage. The retainage will not be disbursed until: (i) (a) the Releases have been filed in the Real Property Records of Hidalgo County, Texas, (b) the deadline to file an affidavit claiming a lien against the Property in connection with the Improvements (that is, the fifteenth (15^{th}) day of the third calendar month after the day the indebtedness accrues) has expired and no such affidavits have been filed, or (c) if any affidavits claiming a lien against the Property in connection with the Improvements have been filed, the claims set forth in such affidavits have been resolved and the affidavits have been released of record; (iii) the Affidavit of Completion and the Final Bills-Paid Affidavit have been filed in the Real Property Records of Hidalgo County, Texas; and (iv) Borrower and Contractor have complied with Paragraph 4 of this Agreement.

6. Inspections. Lender shall be entitled to: (i) use its own personnel; or (ii) to designate an architect, engineer or other third party; to make any inspections or certifications required by Lender, and Lender shall not be required to make any loan advance until Lender has received inspections and certifications satisfactory to it. Prior to each loan advance, and at such other times as Lender may require, either Borrower or Contractor will be required to call for a physical inspection by Lender or other party designated by Lender.

7. Borrower's and Contractor's Additional Obligations. Borrower and Contractor further agree that:

(a) The Improvements will be constructed and fully equipped in a good and workmanlike manner with materials of high quality, using all new materials, strictly in accordance with the plans and specifications approved by Lender, and that the Improvements will comply with: (i) all applicable Housing Quality Standards contained in 24 Code of Federal Regulations, as amended, if the Property is located outside the jurisdiction of a municipality; or (ii) all applicable local building codes and ordinances of the municipality if the Property is located within the jurisdiction of a municipality, unless the municipality has no local building codes and ordinances, in

which event Owner shall comply with all applicable Housing Quality Standards contained in 24 Code of Federal Regulations, as amended;

(b) No changes will be made in the plans and specifications submitted to Lender except on the written approval of the same by Lender;

(c) No extras shall be allowed to any contractor or subcontractor or any change made in any contract or subcontract without the Lender's prior written approval and consent;

(d) Contractor will promptly furnish Lender, at Lender's request, after execution thereof, executed copies of all contracts between Contractor and subcontractors, and of all contracts between Contractor and its suppliers, as well as contracts between subcontractors and their suppliers;

(e) Borrower and Contractor will cooperate with Lender in arranging for inspections by representatives of Lender of the progress of construction from time to time and will promptly comply with Lender's requirements or satisfy any objections regarding construction of the Improvements or the progress thereof;

(f) Borrower and Contractor will not suffer or permit any mechanics' or materialmen's lien claims to be filed or otherwise asserted against the Property and will promptly discharge the same in case of the filing of any claims for lien or proceedings for the enforcement thereof; provided, however, that Borrower shall have the right to contest in good faith and with reasonable diligence the validity of any such lien or claim on furnishing to Lender such security or indemnity as it may require;

(g) Borrower will pay all real estate taxes and assessments of every kind on the Property before the same become delinquent, and Lender may at any time require Borrower to provide evidence that taxes have been paid current;

(h) In the event that Lender shall expend any amount in performance of any of Borrower's covenants or agreements under the Note or any document securing the Note, such amounts shall constitute additional indebtedness secured under the Contract;

(i) All of the personal property, fixtures, attachments, and equipment delivered on, attached to, or used in connection with the construction of the Improvements or the operation thereof will be kept free and clear of all liens, encumbrances, and security interests whatsoever, and Borrower will be the absolute owner of such personal property, fixtures, attachments, and equipment and Contractor and Borrower will, from time to time, furnish Lender with satisfactory evidence of such ownership, including searches of applicable public records;

(j) Borrower and Contractor will comply with their respective obligations under this Agreement and the Contract and with all applicable laws, rules, ordinances and regulations;

(k) Borrower and Contractor will comply with the Special Conditions, if any, set forth in Exhibit "C" attached hereto;

(l) Contractor will pay all premiums on all insurance policies required from time to time during the progress of construction, and furnish to Lender additional and renewal insurance policies with companies, coverage, and amounts satisfactory to Lender; and

(m) Contractor will keep accurate and proper books and records of the construction of the Improvements, and will at all reasonable hours allow Lender or its representative to examine such books and records and all contracts and bills relating to the construction of the Improvements.

(l) Contractor shall not discriminate against any employee or applicant for employment because of sex, race, creed, color, national origin or handicap and shall take affirmative action to ensure that during the application process and during employment applicants and employees are treated without regard to their race, creed, color, national origin or handicap. Such action shall include, but not be limited to hiring and employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation; and selection for training, including apprenticeship. Contractor shall continuously post in conspicuous places, readily available to employees and applicants for employment, notices to be provided or approved by the County of Hidalgo, setting forth the provisions of this non-discrimination provision and such other notices as may be required by law.

8. Actions For Lender's Benefit Only. **THE AUTHORITY HEREIN CONFERRED ON LENDER AND ANY ACTION TAKEN BY LENDER IN MAKING INSPECTIONS OF THE PROPERTY, PROCURING SWORN STATEMENTS AND WAIVERS OF LIENS, APPROVING CONTRACTS AND SUBCONTRACTS AND APPROVING PLANS AND SPECIFICATIONS WILL BE TAKEN BY LENDER FOR ITS OWN PROTECTION ONLY, AND LENDER SHALL NOT BE DEEMED TO HAVE ASSUMED ANY RESPONSIBILITY TO BORROWER OR ANY OTHER PERSON WITH RESPECT TO ANY SUCH ACTION HEREIN AUTHORIZED OR TAKEN BY LENDER OR WITH RESPECT TO THE PROPER CONSTRUCTION OF THE IMPROVEMENTS, PERFORMANCE OF CONTRACTS OR SUBCONTRACTS BY ANY CONTRACTORS OR SUBCONTRACTORS, OR PREVENTION OF CLAIMS FOR MECHANIC'S LIEN.**

9. Non-Waiver By Lender. No waiver of any breach or default hereunder shall constitute or be construed as a waiver by Lender of any subsequent breach or default or of any breach or default of any other provision. No waiver of any term or provision of this Agreement shall be binding unless executed in writing by the party entitled to the benefit thereof. Pursuit by Lender of any remedies set forth in this Agreement does not preclude pursuit by Lender of other remedies in this Agreement or provided by law.

10. Conflict of Interest. **BORROWER AND CONTRACTOR REPRESENT AND WARRANT TO LENDER THAT, TO THE BEST OF THEIR KNOWLEDGE, NO EMPLOYEE, AGENT, CONSULTANT, OFFICER, OR ELECTED OR APPOINTED OFFICIAL OF LENDER WHO EXERCISES OR HAS EXERCISED ANY FUNCTIONS OR RESPONSIBILITIES WITH RESPECT TO THE ACTIVITIES ASSISTED WITH THE LENDER'S OWNER-OCCUPIED REHABILITATION LOAN PROGRAM OR WHO ARE IN A POSITION TO PARTICIPATE IN A DECISION MAKING PROCESS OR GAIN INSIDE INFORMATION WITH REGARD TO THESE ACTIVITIES, DURING THEIR TENURE OR WITHIN ONE YEAR THEREAFTER, HAS A FINANCIAL INTEREST OR BENEFIT IN THE LOAN RELATED TO THIS AGREEMENT, OR THE PROCEEDS THEREUNDER, EITHER FOR THEMSELVES OR THOSE WITH WHOM THEY HAVE FAMILY OR BUSINESS TIES.**

11. Dispute Resolution. All disputes between Contractor and Borrower regarding the construction project which is the subject of this Agreement, including, but not limited to, all disputes with regard to the Contract and this Agreement, shall, in the first instance, be submitted, in writing, with supporting documentation, within ten (10) days of the incident giving rise to the dispute, to Lender's program director having responsibility for the Lender's owner-occupied rehabilitation loan program for resolution. Except for good cause shown, any dispute not submitted within such ten (10) day period shall be deemed waived. While a dispute is pending, Contractor and Borrower shall otherwise proceed to perform all obligations under the Contract and this Agreement not otherwise in dispute.

12. Sole and Only Agreement. This Agreement and its exhibits and the instruments executed in connection therewith constitute the sole and only agreement of the parties hereto and supersedes any prior understandings or written or oral agreements between the parties respecting the within subject matter.

13. Severability. If one or more provisions of this Agreement are held to be unenforceable under applicable law, such provisions shall be excluded from this Agreement and the balance of this Agreement shall be interpreted as if such provisions were so excluded and shall be enforceable in accordance with its terms.

14. Interpretation. No provision of this Agreement will be interpreted in favor of, or against, any of the parties hereto by reason of the extent to which any such party or its counsel participated in the drafting thereof or by reason of the extent to which any such provision in inconsistent with any prior draft hereof or thereof. In the event of a conflict between this Agreement, the Mechanic's Lien Contract and/or the Rehabilitation Contract, the provisions in the document containing the most stringent requirement for the matter in dispute shall control

15. Jurisdiction and Venue. The parties agree that any suit, action or proceeding brought by a party against the other in connection with or arising from this Agreement ("Judicial Action") shall be brought only in any United States Federal or Texas state court located in Hidalgo County,

Texas and the parties hereby consent to the exclusive jurisdiction of such courts (and the appropriate appellate courts) in any such Judicial Action and waives any objection to venue laid therein. If either party is a prevailing party in a Judicial Action, such party is entitled to recover from the non-prevailing party all costs of such proceeding and reasonable attorney's fees.

16. General Provisions. This Agreement:

a. may not be assigned by Owner or Contractor without the prior written consent of County;

b. may not be amended or modified, in whole or in part, unless such amendment or modification is executed in writing by both parties;

c. binds and inures to the benefit of the parties and their respective heirs, successors and permitted assigns; and

d. is for the sole benefit of the parties hereto and their respective heirs, successors and permitted assigns. Nothing herein shall give, or be construed to give, any legal or equitable rights hereunder to any other person or entity other than the parties hereto and their respective heirs, successors and permitted assigns.

NOTICE

ANY HOLDER OF THIS CONSUMER CREDIT CONTRACT IS SUBJECT TO ALL CLAIMS AND DEFENSES WHICH THE DEBTOR COULD ASSERT AGAINST THE SELLER OF GOODS OR SERVICES OBTAINED PURSUANT HERETO OR WITH THE PROCEEDS HEREOF. RECOVERY HEREUNDER BY THE DEBTOR SHALL NOT EXCEED AMOUNTS PAID BY THE DEBTOR HEREUNDER.

IMPORTANT NOTICE: YOU AND YOUR CONTRACTOR ARE RESPONSIBLE FOR MEETING THE TERMS AND CONDITIONS OF THIS CONTRACT. IF YOU SIGN THIS CONTRACT AND YOU FAIL TO MEET THE TERMS AND CONDITIONS OF THIS CONTRACT, YOU MAY LOSE YOUR LEGAL OWNERSHIP RIGHTS IN YOUR HOME. KNOW YOUR RIGHTS AND DUTIES UNDER THE LAW.

RESIDENTIAL CONSTRUCTION LIABILITY ACT (RCLA) NOTICE

This contract is subject to Chapter 27 of the Texas Property Code. The provisions of that chapter may affect your right to recover damages arising from the performance of this contract. If you have a complaint concerning a construction defect arising from the performance of this contract and that defect has not been corrected through normal warranty service, you must provide the notice required by Chapter 27 of the Texas Property Code to the contractor by certified mail, return receipt requested, not later than the 60th day before the date you file suit to recover damages in a court of law or initiate arbitration. The notice must refer to Chapter 27 of the Texas Property Code and must describe the construction defect. If

requested by the contractor, you must provide the contractor an opportunity to inspect and cure the defect as provided by Section 27.004 of the Texas Property Code.

BORROWER:

Pedro Robledo

YOU, THE OWNER, MAY CANCEL THIS TRANSACTION AT ANY TIME BEFORE MIDNIGHT OF THE THIRD BUSINESS DAY AFTER THE DATE OF THIS TRANSACTION. SEE THE ATTACHED NOTICE OF CANCELLATION FORM FOR AN EXPLANATION OF THIS RIGHT.

LENDER:

COUNTY OF HIDALGO, a political subdivision of the State of Texas

By: **Diana R. Serna**
Its: **Director of Urban County Program**

CONTRACTOR:

(Contractor's Printed Name)
Arnold Gonzalez

APPROVED AS TO FORM
Atlas & Hall, L.L.P.
By: Steve Crain
Date: June 19, 2013

By: **Arnold Gonzalez**
Its: **Owner of ARGO CONTRACTORS**

STATE OF TEXAS §
§
COUNTY OF HIDALGO §

This instrument was acknowledged before me on this _____ day of _____, by **Diana R. Serna, Director of Urban County Program of the County of Hidalgo**, a political subdivision of the State of Texas, on behalf of said political subdivision.

_____
NOTARY PUBLIC, STATE OF TEXAS

STATE OF TEXAS §
§
COUNTY OF HIDALGO §

This instrument was acknowledged before me on this **19th** day of **November 2013**, by **Pedro Robledo.**

_____
NOTARY PUBLIC, STATE OF TEXAS

STATE OF TEXAS §
§
COUNTY OF HIDALGO §

This instrument was acknowledged before me on this **19th** day of **November 2013**, by **Arnold Gonzalez , Owner of the ARGO CONTRACTORS,** a **Contractor of the State of Texas**, on behalf of said **Hidalgo County**.

_____
NOTARY PUBLIC, STATE OF TEXAS

YOU MAY CANCEL THIS TRANSACTION, WITHOUT ANY PENALTY OR OBLIGATION, WITHIN THREE BUSINESS DAYS FROM THE ABOVE DATE.

IF YOU CANCEL, ANY PROPERTY TRADED IN, ANY PAYMENTS MADE BY YOU UNDER THE CONTRACT OR SALE, AND ANY NEGOTIABLE INSTRUMENT EXECUTED BY YOU WILL BE RETURNED WITHIN TEN BUSINESS DAYS FOLLOWING RECEIPT BY THE MERCHANT OF YOUR CANCELLATION NOTICE, AND ANY SECURITY INTEREST ARISING OUT OF THE TRANSACTION WILL BE CANCELED.

IF YOU CANCEL YOU MUST MAKE AVAILABLE TO THE MERCHANT AT YOUR RESIDENCE, IN SUBSTANTIALLY AS GOOD CONDITION AS WHEN RECEIVED, ANY GOODS DELIVERED TO YOU UNDER THIS CONTRACT OR SALE; OR YOU MAY IF YOU WISH, COMPLY WITH THE INSTRUCTIONS OF THE MERCHANT REGARDING THE RETURN SHIPMENT OF THE GOODS AT THE MERCHANT'S EXPENSE AND RISK.

IF YOU DO NOT AGREE TO RETURN THE GOODS TO THE MERCHANT OR IF THE MERCHANT DOES NOT PICK THEM UP WITHIN TWENTY DAYS OF THE DATE OF YOUR NOTICE OF CANCELLATION, YOU MAY RETAIN OR DISPOSE OF THE GOODS WITHOUT ANY FURTHER OBLIGATION.

TO CANCEL THIS TRANSACTION, MAIL OR DELIVER A SIGNED AND DATED COPY OF THIS CANCELLATION NOTICE OR ANY OTHER WRITTEN NOTICE, OR SEND A TELEGRAM, TO RAYMUNDO CARRISALES, A-ONE INSULATION, AT 1006 E. FERGUSON ST., PHARR, TEXAS 78577 NOT LATER THAN MIDNIGHT OF NOVEMBER 22, 2013.

I HEREBY CANCEL THIS TRANSACTION.

Dated: _____.

OWNER:

_____

Pedro Robledo

EXHIBIT "A"
LEGAL DESCRIPTION OF THE PROPERTY

The North one-half (N ½) of a tract of land containing (0.60) of one (1) acre of Porcion 58 & 59 and 60 lying between Granjeno Banco #44 and the Northerly branch of the Military Road, Hidalgo County Texas.

EXHIBIT "B"
PLANS AND SPECIFICATIONS,
TIMETABLE
AND
BUDGET

EXHIBIT "C"
SPECIAL CONDITIONS

None.

HIDALGO COUNTY PURCHASING DEPARTMENT BID TABULATION SHEET

DEPT NAME: COUNTY OF HIDALGO URBAN COUNTY PROGRAM

Bid Opening Date: October 30, 2013 Bid Opening Time: 9:30 am

Description of Bid: Rehabilitation of one (1) Unit in the City of Granjeno, the Demolition and Reconstruction of One (1) Unit in the City of Granjeno, and one (1) Unit in the City of Mercedes.

Grant #: M-12-UC-48-0501-ET-03

ARGO CONSTRUCTION, LLC

	UNITS	TOTAL BID AMOUNT	BID BOND/CASHIER'S CHECK INCLUDED
1	P. ROBLEDO	$55,890.00	CC INCLUDED
2	M. RENDON	NO BID	N/A
3	G. FONSECA	$57,490.00	CC INCLUDED

A ONE

	UNITS	TOTAL BID AMOUNT	BID BOND/CASHIER'S CHECK INCLUDED
1	P. ROBLEDO	$56,350.00	BB INCLUDED
2	M. RENDON	16,500.00	BB INCLUDED
3	G. FONSECA	$56,350.00	BB INCLUDED

3 GENERAL CONSTRUCTION

	UNITS	TOTAL BID AMOUNT	BID BOND/CASHIER'S CHECK INCLUDED
1	P. ROBLEDO	$65,042.00	CC INCLUDED
2	M. RENDON	$40,080.00	CC INCLUDED
3	G. FONSECA	$58,442.11	CC INCLUDED

***TYPED AS READ AT BID OPENING, AMOUNTS NOT VERIFIED/CALCULATED**

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 07/23/2013

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Sylvia Briones	
Bert Whisenant Insurance 816 E. Hackberry Mcallen TX 78501	PHONE (A/C, No, Ext): 956-686-8323	FAX (A/C, No): 888-512-2080
	E-MAIL ADDRESS: sbriones@bwi-ins.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A : Atlantic Casualty Ins Co. (MHI)	
INSURED A-One Insulation Raymundo Carrisales 1006 E. Ferguson Pharr TX 78577	INSURER B : Texas Mutual Insurance Co	
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	GENERAL LIABILITY ☑ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☐ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☑ POLICY ☐ PRO-JECT ☐ LOC	Y		L086804784	06/18/2013	06/18/2014	EACH OCCURRENCE	$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 100,000
							MED EXP (Any one person)	$ 5,000
							PERSONAL & ADV INJURY	$ 1,000,000
							GENERAL AGGREGATE	$ 2,000,000
							PRODUCTS - COMP/OP AGG	$ 2,000,000
								$
	AUTOMOBILE LIABILITY ☐ ANY AUTO ☐ ALL OWNED AUTOS ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ☐ NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident)	$
							BODILY INJURY (Per person)	$
							BODILY INJURY (Per accident)	$
							PROPERTY DAMAGE (Per accident)	$
								$
	☐ UMBRELLA LIAB ☐ OCCUR ☐ EXCESS LIAB ☐ CLAIMS-MADE ☐ DED ☐ RETENTION $						EACH OCCURRENCE	$
							AGGREGATE	$
								$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y / N: Y If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		SBP0001231365	12/02/2012	12/02/2013	☑ WC STATU-TORY LIMITS ☐ OTH-ER	
							E.L. EACH ACCIDENT	$ 100,000
							E.L. DISEASE - EA EMPLOYEE	$ 100,000
							E.L. DISEASE - POLICY LIMIT	$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER	CANCELLATION
Urban County Program 3304 W. Alberta Rd Edinburg TX 78539	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE B. R. Whisenant Jr. B. R. Whisenant Jr.

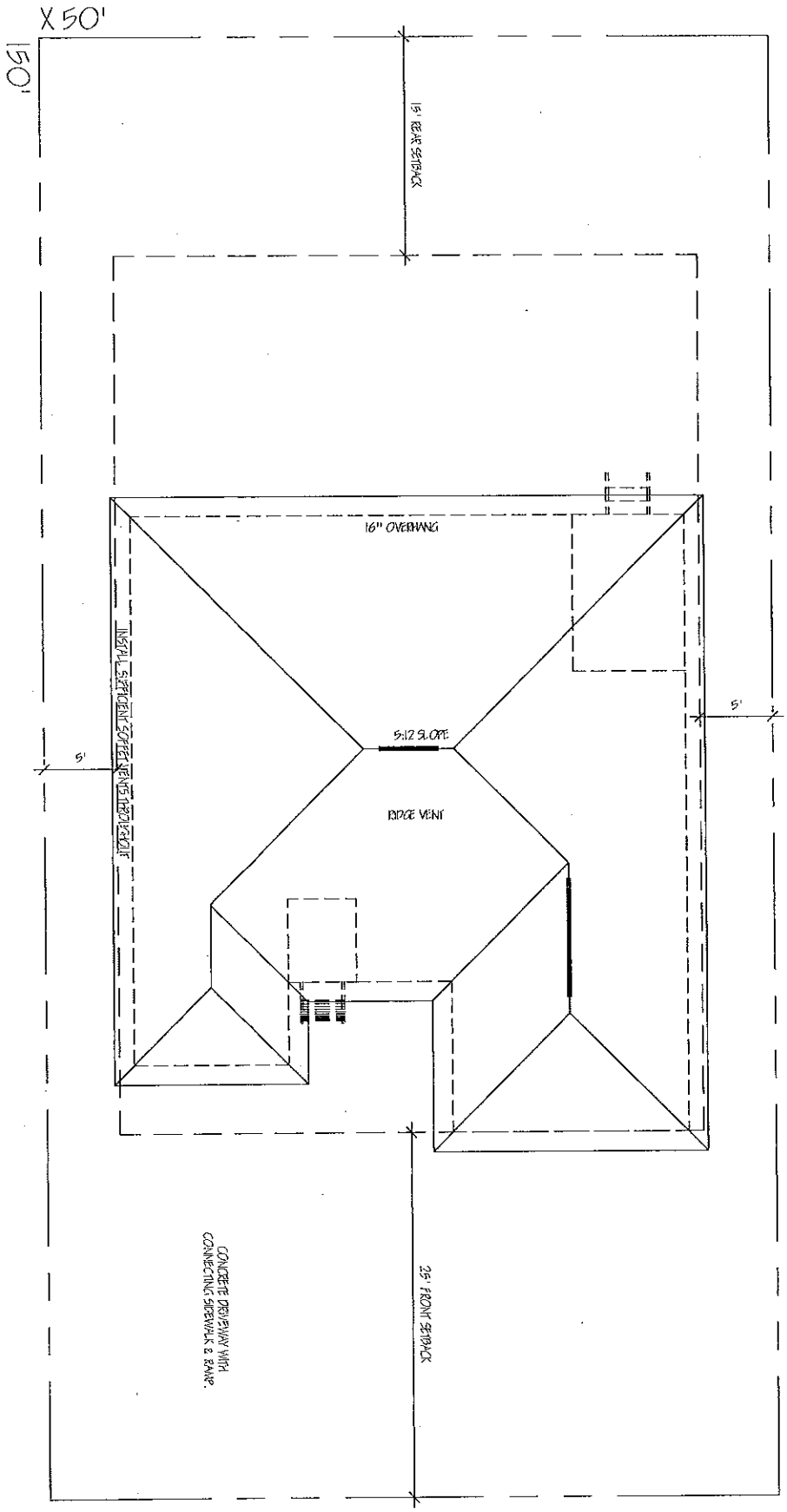
© 1988-2010 ACORD CORPORATION. All rights reserved.
The ACORD name and logo are registered marks of ACORD

1 OF 7	URBAN COUNTY PROGRAM OWNER OCCUPIED HOUSING REHABILITATION PROGRAM	LIVING AREA 1596 SQ. FT.
	GILBERTO FONSECA 255 S. INDIANA ST. MERCEDES, TX	

FONSECA RESIDENCE

GILBERTO FONSECA
255 S. INDIANA ST. MERCEDES
(956) 407-2163

URBAN COUNTY PROGRAM
1916 TESORO BLVD. - Pharr, TX
(956) 787-8127



1

ROOF / PLOT PLAN

N.T.S.

URBAN COUNTY PROGRAM

OWNER OCCUPIED HOUSING REHABILITATION PROGRAM

2 OF 7

GILIBERTO FONSECA

255 S. INDIANA ST. MERCEDES, TX

LIVING AREA

1396 SQ. FT.

URBAN COUNTY PROGRAM

OWNER OCCUPIED HOUSING REHABILITATION PROGRAM

ALBERTO FONSECA
255 S. INDIANA ST. MERCEDES, TX

LIVING AREA
1396 SQ. FT.

A-EXTERIOR BEAM

-EXTERIOR BEAMS TO BE 12"X30" WITH 4 #5 BARS CONT. TOP & BOTTOM WITH #3 STIRRUPS AT 24" O.C AND A MIN. OF 6" IN DEPTH TO UNDISTURBED SOIL.

B-INTERIOR BEAM

-INTERIOR BEAMS TO BE 12"X24" WITH 4 #5 BARS CONT. TOP & BOTTOM WITH #3 STIRRUPS AT 24" O.C AND A MIN. OF 6" IN DEPTH TO UNDISTURBED SOIL.

GENERAL NOTES

-4" THICK SLAB ON GRADE W/ #3 BARS @ 16" O.C. EACH WAY AT MID-DEPTH OF SLAB OVER 6 MIL VISQUEEN OVER APPROVED COMPACTED FILL.

-EXTERIOR BEAMS TO BE 12"X30" WITH 4 #5 BARS CONT. TOP & BOTTOM WITH #3 STIRRUPS AT 24" O.C AND A MIN. OF 6" IN DEPTH TO UNDISTURBED SOIL.

-INTERIOR BEAMS TO BE 12"X24" WITH 4 #5 BARS CONT. TOP & BOTTOM WITH #3 STIRRUPS AT 24" O.C AND A MIN. OF 6" IN DEPTH TO UNDISTURBED SOIL.

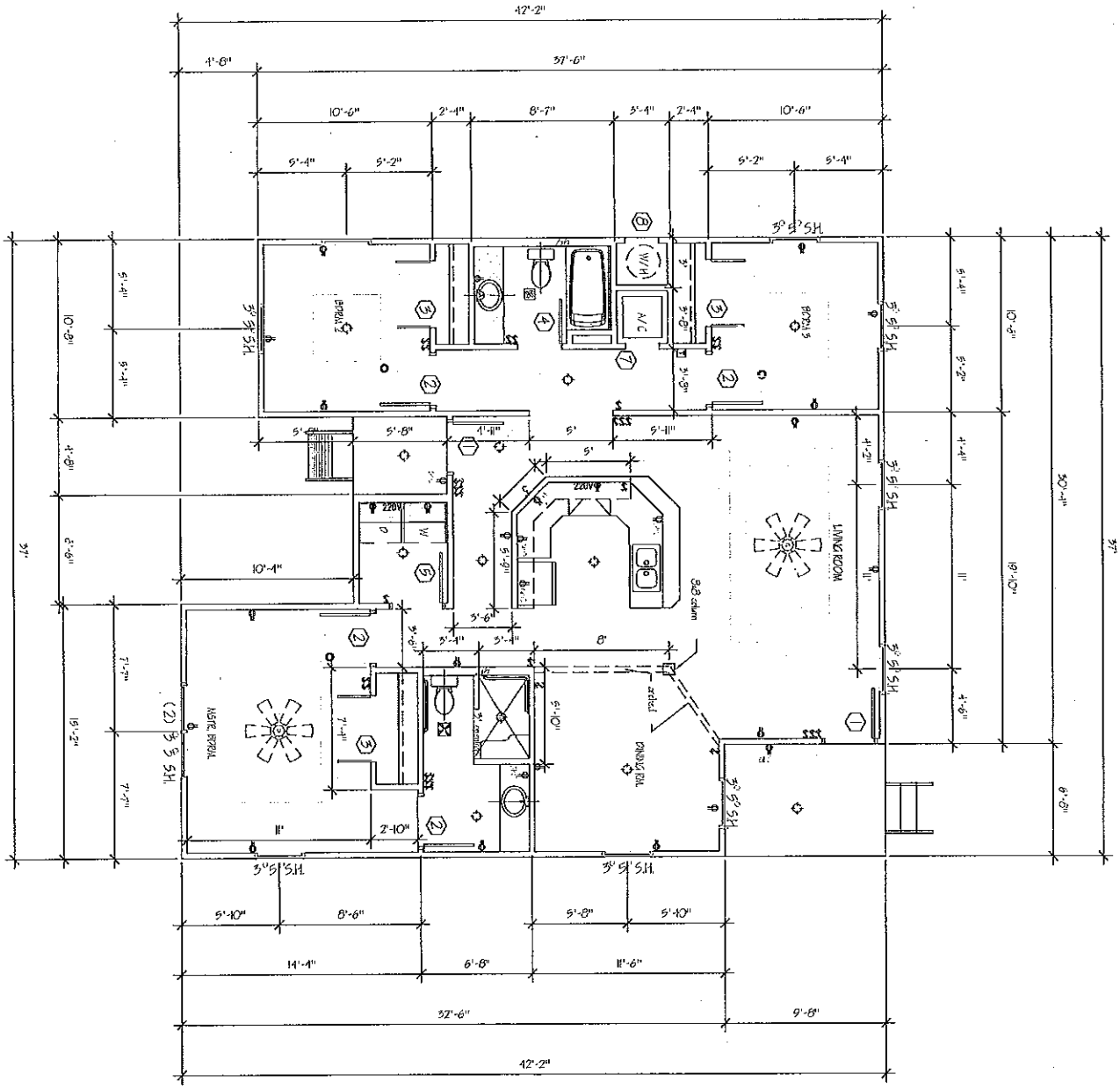
-CORNER BARS AT ALL CORNERS & INTERSECTIONS 2'X2' - #5 APPLY 6X6 #6 WIRE MESH AT SIDEWALKS AND DRIVEWAYS.

-INSTALL ACHOR BOLTS AT PERIMETER AT 4' O.C.

-USE ONLY COMPACTED SELECTED FILL DIRT. FINISH FLOOR TO BE 18" FROM TOP OF CURB. UNLESS OTHERWISE NOTED.

1 FOUNDATION PLAN

X8EF



SQUARE FOOTAGE

LIVING AREA	1396
PORCH/PATIO	108
TOTAL SQ. FT.	1496

ELECTRICAL LEGEND

WH	WATER HEATER		LIGHT FIXTURE
	DUPLEX ELECTRICAL RECEPT.	S	LIGHT SWITCH
220V	220 VOLT ELECTRICAL RECEPTACLE	T	TELEVISION/TAP
GFI	GROUND FAULT CIRCUIT INTERRUPTER		SMOKE DETECTOR

DOOR SCEDULE

DR#	TASK	SIZE W	SIZE H	TYPE	LOCKS
1	INSTALL NEW UNIT W/ DUAL PREP HOLES	3'0"		METAL W/ LOW PROFILE THRESH.	LEVER TYPE ENTRY LOCK W/ DEADBOLT
2	INSTALL NEW UNIT	3'0"		HOLLOW CORE	LEVER TYPE PRIVACY
3	INSTALL NEW UNIT	(2) 2'0"		HOLLOW CORE	PASSAGE
4	INSTALL NEW UNIT	2'8"		HOLLOW CORE	PASSAGE
5	INSTALL NEW UNIT	3'0"		HOLLOW CORE	PASSAGE
6	INSTALL NEW UNIT	3'0"		POCKET DOOR	PRIVACY LOCK
7	INSTALL NEW UNIT	2'0"		HOLLOW CORE	PASSAGE
8	INSTALL NEW UNIT	2'0"		METAL DOOR	LOCK WITH DEADBOLT

GENERAL NOTES

-5/12 SLOPE WITH 18" OVERHANG
-SUPPLY RIDGE / SOFFIT VENTS WHERE NEEDED
-INSTALL PORCH RAILING WHERE FINISH GRADE IS LOWER THAN 1' FROM PORCH FLOOR.
-INSTALL PORCH STEPS WHERE FINISH GRADE IS LOWER THAN 6" FROM PORCH FLOOR.
-INSTALL CONNECTIONS FOR A NATURAL GAS/ PROPANE/ OR ELECTRICAL STOVE
-INSTALL A MIN. OF 2 CABLE CONNECTIONS & 2 PHONE JACKS PER CHAMBERS RECUEST.

INT. TRIM: SOLID CORE INT. WALL: ANTIQUE WHITE 6114
EXT. TRIM: WHITE EXT. WALL: SQUETTAIL 1018

I HAVE READ AND FULLY AGREE WITH THE WRITE-UP AND PLANS AS PRESENTED TO ME THIS 1 DAY OF OCT 2013

Gilberto Fonseca

1 FLOOR PLAN

XDEEP

N.T.S.

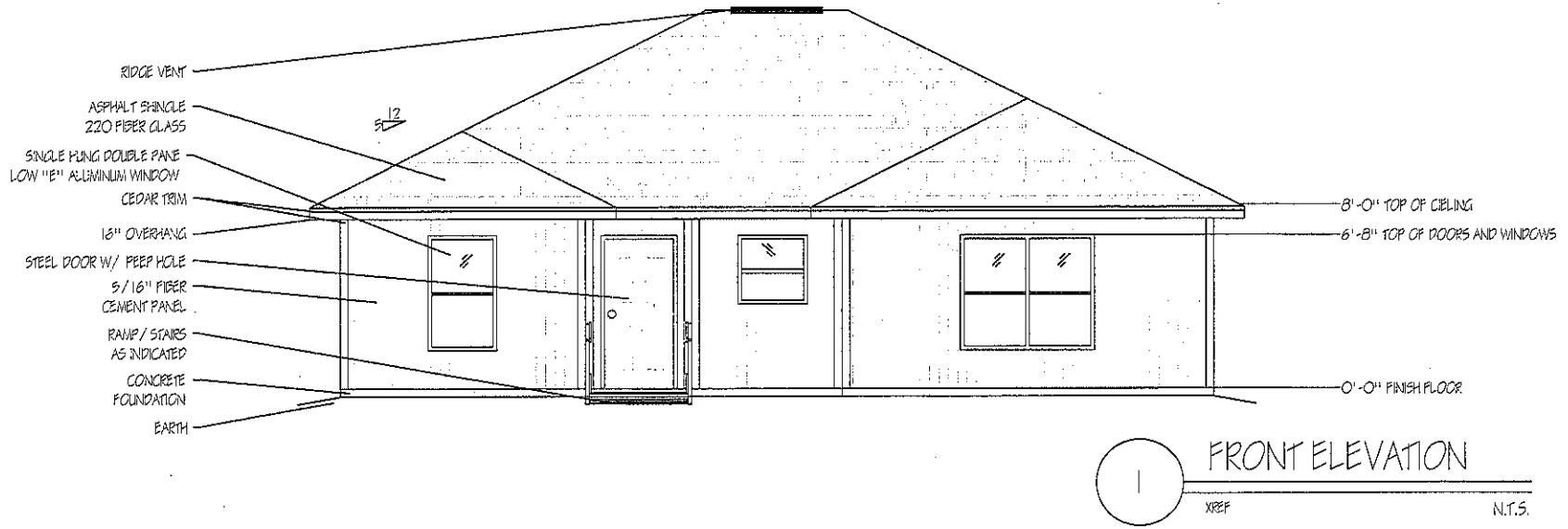
URBAN COUNTY PROGRAM

OWNER OCCUPIED HOUSING REHABILITATION PROGRAM

4 OF 6

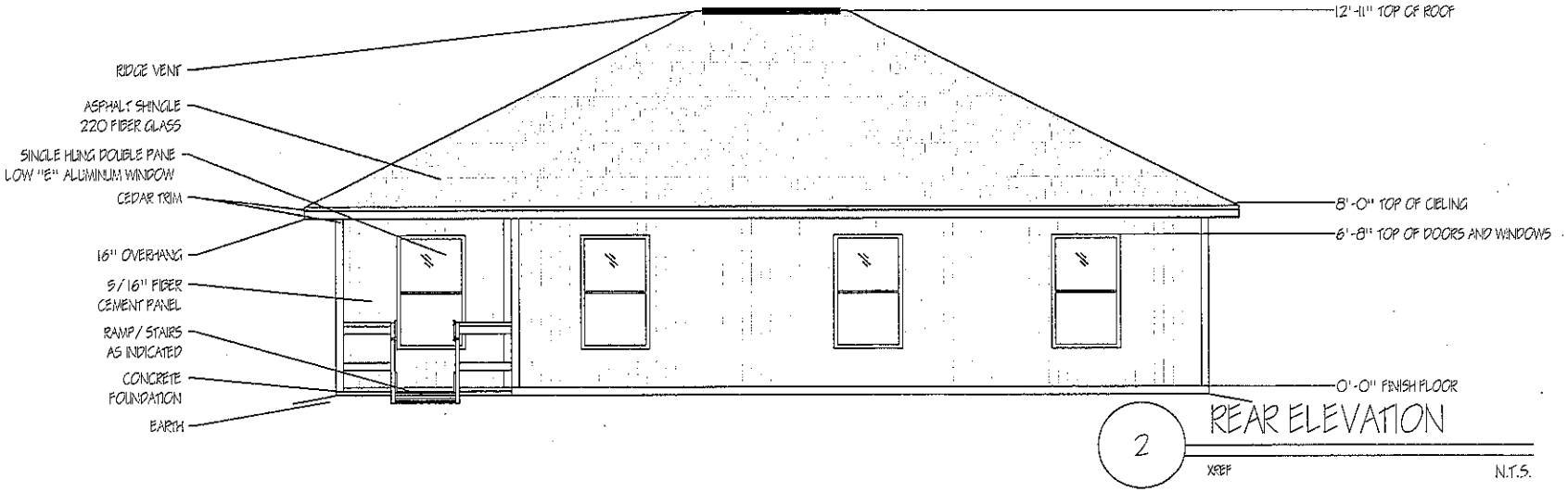
GILBERTO FONSECA
255 S. INDIANA ST. MERCEDES, TX

LIVING AREA
1396 SQ. FT.



1 FRONT ELEVATION

XREF N.T.S.



2 REAR ELEVATION

XREF N.T.S.

URBAN COUNTY PROGRAM

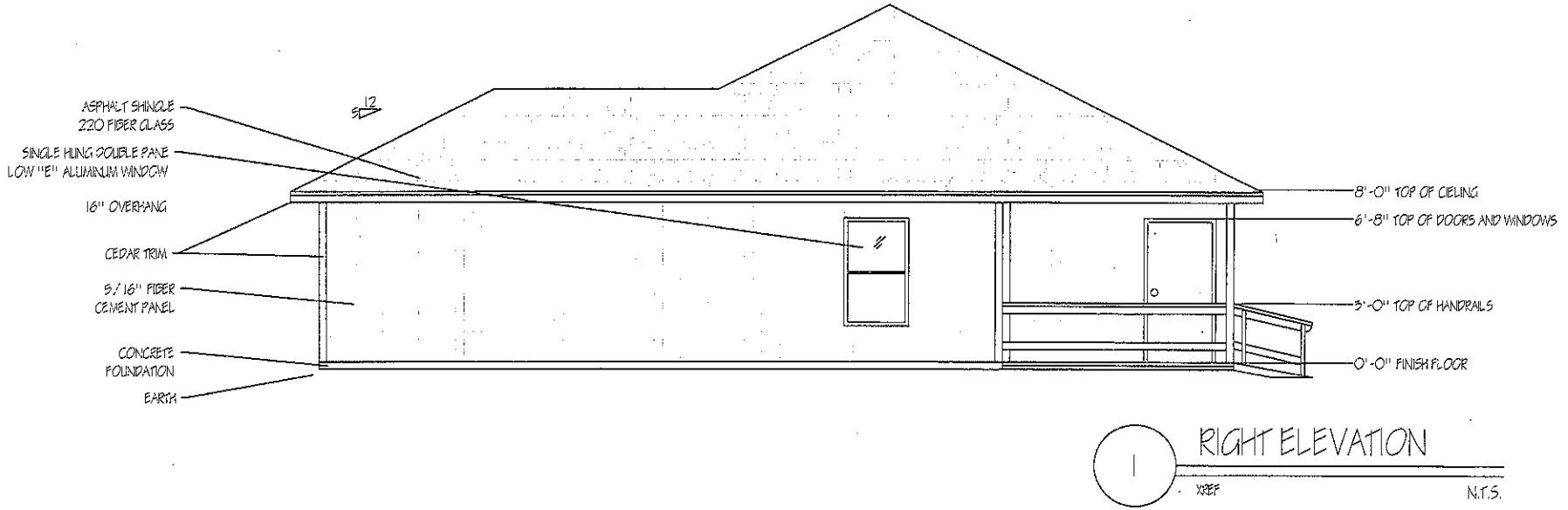
OWNER OCCUPIED HOUSING REHABILITATION PROGRAM

GILBERTO FONSECA

255 S. INDIANA ST. MERCEDES, TX

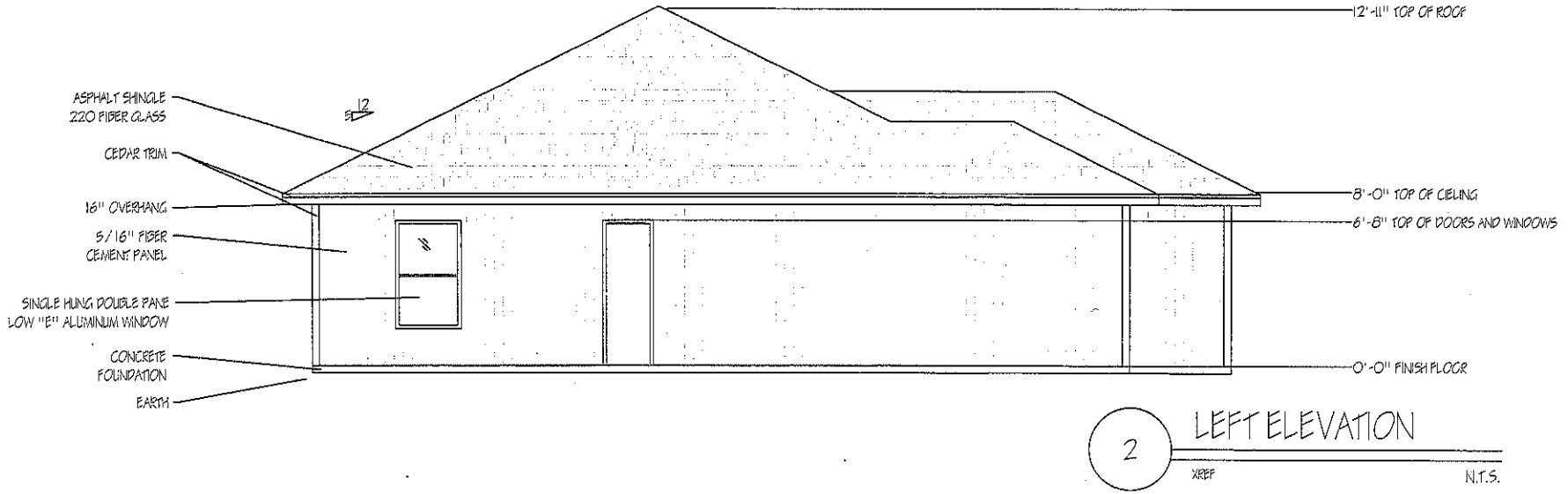
LIVING AREA
1396 SQ. FT.

5 OF 7



1 RIGHT ELEVATION

XREF N.T.S.



2 LEFT ELEVATION

XREF N.T.S.

URBAN COUNTY PROGRAM

OWNER OCCUPIED HOUSING REHABILITATION PROGRAM

GILBERTO FONSECA
255 S. INDIANA ST. MERCEDES, TX

LIVING AREA
1396 SQ. FT.

6 OF 7

SPECIFICATIONS

ALL *SPECIFICATIONS* SHALL ASSUME THE USE OF *CONTRACTOR'S MINIMUM GENERAL SPECIFICATIONS MANUAL*

OWNER (S) GILBERTO FONSECA CASE NO.: ME 50-12-02 DATE: 10-1-13 ADDRESS: 255 S. INDIANA ST., MERCEDES, TX PHONE: 956-407-2163 BY: ERIC TREVINO

1. FOUNDATION WORK:

BUILD A NEW CONCRETE FOUNDATION TO COMPLY WITH PLANS, SPECS, CITY AND / COUNTY REQUIREMENTS. PROJECTS TO BE 18" ABOVE CENTER LINE OF STREET OR 18" ABOVE NATURAL GROUND, WHICHEVER IS GREATER. PROVIDE CONCRETE SLAB FOR A/C UNIT & A MIN. OF 12 X 25 DRIVEWAY (depending on city).

2. PLUMBING GENERAL: (SEE SPECS)

ALL PLUMBING ROUGH SHALL BE AS FOLLOWS:

- WATER SUPPLY TO HOUSE SHALL HAVE A ¾" CUTOFF VALVE BEFORE ENTRY TO HOUSE.
- INTERIOR WATER SUPPLY LINES FOR HOUSE SHALL BE ALL NEW PEX OF APPROPRIATE DIAMETER
- NEW PEX PIPES AND FITTINGS:
  - OF 1" MINIMUM DIAMETER FOR ALL EXTERIOR WATER SUPPLY LINES BELOW GROUND.
  - OF APROPRIATE DIAMETER FOR DWV (DRAIN, WASTE, AND VENTS).
- SEWER CONNECTION SHALL HAVE (1) PLASTIC PVC SEWER CLEAN OUT.

ALL PLUMBING FINISH SHALL BE AS FOLLOWS:

- RELATED PLUMBING ITEMS:
  - (2) EXTERIOR HOSE BRASS BIB FAUCETS:
  - ½" CUTOFF VALVES WITH ESCUTCHEONS FOR ALL FIXTURES.

FIXTURES:

- PLUMBING SEALANT FOR ALL DRAINS, AND SINK PERIMETERS
- ALL OTHER RELATED PLUMBING (SEE SPECS)

FIXTURES: (SEE SPECS)

- KITCHEN SINK W/ RELATED PLUMBING & FAUCETS
- PEDESTAL SINK W/ RELATED PLUMBING & FAUCETS
- TOILET OF MATCHING COLOR
- SHOWER WITH RELATED PLUMBING AND HANDICAP ACCESSIBLE.
- SHOWER FAUCETS & REMOVABLE SHOWER HEAD
- MEDICINE CABINETS/TOWEL RACKS/ T.P. DISPENCER/ TOOTHBRUSH & SOAP HOLDER, & SHOWER ROD (SEE SPECS)
- WATER HEATER INSTALLED AS-PER SPECS. (GAS OR ELECTRIC AS PER OWNER REQUEST)

OTHER RELATED ITEMS

- RANGE CONNECTIONS AS PER OWNERS REQUST.(SEE SECTION 23.)
- 4" DRYER EXAUST VENT.
- IN WALL WASHING MACHINE BOX, WITH BRASS FAUCETS & RELATED PLUMBING.

HOOK UP ALL DRAINAGE LINES TO CITY SEWER SYSTEM IF AVAILABLE. SEE CITY FOR INFORMATION.TEST SEPTIC SYSTEM IF EXISTING FOR INTEGRITY AND REPLACE IF NECESSARY AND MORE THAN 10 YEARS OF AGE

3. INTERIOR/EXTERIOR WALLS & CEILINGS:

ALL INTERIOR AND EXTERIOR WALL FRAMING:

- 2"x4" (#2 OR BETTER) FOR USE IN: SOLE PLATES (TREATED LUMBER)
  - DOUBLE TOP PLATES
  - 92 5/8" PRE-CUT STUDS @ 16" O.C.
  - WINDOW SILLS
  - CEILING JOIST CHAIN BLOCKING @ 48" O.C.
- 2"x6" (#2 OR BETTER) FOR USE IN:
  - WINDOW & DOOR HEADERS WITH 1"/2" SPACER.
  - CEILING JOIST @ 24" O.C., FOR CLEARANCES LARGER THAN 12' CEILING JOIST SHALL BE @ 16" O.C.
  - INSTALL BOOT TIES IN EVERY CORNER OF THE HOUSE ALONG WITH METAL ANCHORS ON BOTH BOTTOM AND TOP PLATES OF HOME

ALL EXTERIOR CEILING COVERINGS:

- 3/8" CD EXTERIOR PLYWOOD FOR PORCH CEILINGS.

ALL INTERIOR WALL & CEILING COVERINGS.

- ½" SHEETROCK FINISHED AS PER SPECS.
- ½ "DAMP RESISTANT SHEETROCK FOR BATH AREAS.

ALL INTERIOR CEILINGS SHALL HAVE ORANGE PEEL TEXTURE.
ALL INTERIOR WALL SURFACESS SHALL HAVE ORANGE PEEL TEXTURE.
ALL EXTERTIOR TRIMMINGS SHOULD CONSIST OF CEDAR WOOD.

4. ROOF:(SLOPE=5/12)

ROOF SHALL HAVE:

- A HIP/GABLE STYLE ROOF WITH 16" OVERHANGS.
- A HIP/GABLE STYLE FRONT PORCH AS PER PLANS.
- PORCH COLUMNS MUST BE FASTENED TO CONCRETE.
- AN ADEQUATE COMBINATION OF RIDGE & SOFFIT VENTS WITH AIR CHUTES.
- ADEQUATE RAIN GUTTERS WITH DOWN SPOUTS FOR THE ROOF AREA THAT MAY AFFECT OWNERS.
- SHINGLES TO BE OF LIGHT COLOR (no black shingles)

5. PORCH & CANOPY FLOORS:

THE HOUSE SHALL HAVE PORCH FLOORS AS FOLLOWS:

- A FRONT PORCH FLOOR.
- A SIDE/BACK PORCH FLOOR.

PROVIDE RAMP & (2)-HANDRAILS TO EACH FRONT AND/OR SIDE PORCH STEPS

6. INSULATION:

INSULATE:

- ALL LIVING AREA CEILINGS WITH BLOWN IN INSULATION TO AN **R-49 FACTOR.** (need a combined R-30 & R-19 to meet requirement)
- **INFILTRATION FOAM** SHALL BE USED AROUND ALL WINDOWS, WIRES, PLUMBING, ELECTRICAL, 2X4 BOTTOM PLATES, AND ALL PENETRATED AREAS.
- ALL PERIMETER WALLS WITH **R-15 F.G. BATT.**
- ALL EXTERIOR PIPES EXPOSED TO WEATHER.

7. INTERIOR FINISH:

ALL TRIM SHALL BE INSTALLED AS PER SPECS.
ALL PAINT SHALL BE APPLIED AS PER SPECS (2-COATS) WITH PAINT ***COMPARABLE IN QUALITY TO SHERWIN WILLIAMS.*** *ALLOW A VARIETY OF DIFFERENT COLORS FOR CLIENT TO CHOOSE FROM. (2 COLOR CHOICE MIN).*

8. EXTERIOR FINISH:

PAINT ENTIRE HOUSE AS PER SPECS WITH PAINT ***COMPARABLE IN QUALITY TO SHERWIN WILLIAMS. PRIMER TO BE OIL BASED & PAINT MUST BE EQUIVALENT TO A-100.*** *(2 COLOR CHOICE MIN).*

9. SIDING:

THE SIDING SHALL BE 5/16" FIBER CEMENT WITH ALL CEDAR TRIM TO ENTIRE HOUSE.

10. WINDOWS:

SHALL BE NEW LOW "E" DOUBLE PANE INSULATED ALUMINUM WINDOWS, SIZE AS PER PLAN.

11. CABINETS GENERAL:

BUILD AND/OR INSTALL NEW KITCHEN CABINETS TO INCLUDE:

- A RANGE CABINET.
- A KTCHEN/ BATHROOM FORMICA COUNTER TOP OF MATCHING COLOR.

BUILD AND / OR INSTALL A NEW VANITY CABINET (IF APPLICABLE) FOR BATHROOM WITH FORMICA TO MATCH LAVATORY, SINK, AND WALLS. ALL CABINETRY PIECES SHOULD BE NEW AND COMPLETE AND BUILT TO PROFESSIONAL STANDARDS.

12. FLOOR, SUBFLOOR, & FINISH FLOORING:

APPLY VCT FLOOR TILE TO ALL LIVING AREA HOUSE FLOORS.

13. ELECTRICAL GENERAL

ALL ELECTRICAL INSTALLATIONS & WORK AS PER ELECTRICAL CODE WITH THE FOLLOWING CONDITIONS:

- PROVIDE RANGE OUTLET AS PER OWNER'S REQUEST.
- PROVIDE APPROPRIATE WASHER & DRYER CONNECTION.
- (2) 52" CEILING FANS (CEILING HUGGER STYLE) **COMPARABLE IN QUALITY** TO THE "HUNTER" BRAND, THE CONTACTOR SHALL ALLOW $120.00 FOR MATERIAL & LABOR, LOCATON AS PER OWNER REQUEST.
- INSTALL GFCI OUTLETS IN BATHROOMS, KITCHEN, AND EXTERIOR WALLS.
- EACH ELECTRICAL PANEL OR BREAKERBOX, LIGHT SWITCH, & THERMOSTAT NO HIGHER THAN 48" ABOVE FLOOR
- EACH ELECTRICAL PLUG TO BE 15" ABOVE THE FLOOR
- ANY OUTLETS WITHIN 6' FROM KITCHEN OR BATHROOM SINKS MUST BE GFCI

14. RANGE HOOD:

INSTALL A RANGE HOOD TO FIT OWNER'S RANGE SIZE (30" OR 36") AND VENT TO EXTERIOR.

15. BATHROOM ACCESSORIES:

ALL ACCESSORIES & MEDICINE CABINETS AS PER SPECS. INCLUDE CURTAIN ROD & PLASTIC THRESHOLD TO HELP PREVENT WATER FROM ESCAPING SHOWER. INSTALL PEDESTAL SINK AND CABINET ABOVE TOILET. (ALSO INCLUDE TOILET PAPER, TOOTHBRUSH, AND SOAP HOLDER.)

16. ACCESS FOR PHYSICAL DISABILITIES:

INSTALL ONE CONC. RAMP AS PER OWNERS REQUEST THAT CONNECTS WITH 12 X 25 DRIVEWAY AND STEPS WITH HANDRAILS
BATHROOM SHOULD ACCOMMODATE GRAB BARS WHERE INDICATED IN PLANS

17. HEATING & A/C:

PROVIDE & INSTALL A 14 SEER CENTRAL AIR CONDITIONING ***COMPARABLE IN QUALITY*** *TO A CARRIER BRAND UNIT FOR THE ENTIRE HOUSE. INCLUDE DIGITAL THERMOSTAT.*

18. SMOKE DETECTORS:

INSTALL A SMOKE DETECTOR INSIDE EACH SLEEPING ROOM, OUTSIDE SLEEPING ROOMS, ALL WIRED IN SERIES.

19. GENERAL NOTES.

CONTRACTOR IS RESPONSIBLE FOR:

- YOUR BID TO INCLUDE ANY COST RELATED TO REQUIREMENTS FROM CITY. CHANGE ORDERS FOR THIS PARTICULAR PURPOSE WILL NOT BE ACCEPTED OR PROCESSED TO CORRECT THE ABOVE MENTIONED.
- YOUR BID TO INCLUDE ANY COST RELATED TO RES-CHECK & ENERGY COMPLIANCE REQUIREMENTS.
- THE DEMOLISH AND DISPOSAL EXISTING STRUCTURE.
- THE COMPLIANCE OF ALL THE REQUIRED BUILDING ELEVATIONS.
- PROVIDE 6" OF LANDSCAPE DIRT AROUND THE HOUSE ALONG WITH SUFFICIENT GRASS SEEDS UP TO 10' OF PERIMETER.
- PROVIDING THE APPROPRIATE ELECTRICAL AND /OR GAS CONNECTIONS FOR RANGE AS PER APPICANT'S REQUEST AND ACCORDING TO APPLICABLE PLUMBING/ELECTRICAL CODE.
- PROVIDE PHONE JACKS & CABLE CONNECTIONS IN EVERY BDRM & LIVING SPACE. KITCHEN PHONE IF REQUESTED.
- PROVIDE TERMITE PRE-TREATMENT TO ENTIRE HOUSE.
- OBTAINING, DISPLAYING, AND SUBMITTING ALL PROPER PERMTIS & INSPECTIONS.
- ALL CONTRACTORS WILL BE RESPONSIBLE FOR ANY ADDITIONAL PLANS, SPECIFICATIONS AND/OR DETAILS THAT ARE REQUIRED BY CITIES OR COUNTY AT THE TIME OF ATTAINING PERMITS.
- MINIMUM 12x-25 CONC. DRIVEWAY WITH CONNECTING SIDEWALK TO RAMP FOR HANDICAP APPLICANTS.
- ALL THE GENERAL INFORMATION CONTAINED WITHIN **SECTION 23. GENERAL NOTES** OF THE CONTRACTOR'S GENERAL SPECIFICATIONS MANUAL.
- PROVIDE AND INSTALL PROJECTS SIGNS AT EACH CONSTRUCTION SITE
- CONTRACTOR IS RESPONSIBLE FOR SUPPLYING PORT A POTTY TRHOUGHOUT CONSTRUCTION PROCESS *(demo to final inspection)*
- SHOWER ENTRANCES TO BE 36" WIDE
- ALL UCP HOMES MUST COMPLY WITH TEXAS GOVERNMENT CODE §2306.514

THE HOMEOWNER SHALL BE RESPONSIBLE FOR

- REMOVE AND DISPOSE OF ALL DEBRIS ON SITE BEFORE THE BEGINNING OFCONSTRUCTION, INCLUDING BUT NOT LIMITED TO TIRES, ABANDONEDVEHICLES, OLD LUMBER, ETC.
- MAKING NECESSARY DEPOSITS FOR ANY UTILITIES TO BE CONNECTED TO THE NEW DWELLING.

I HAVE READ AND FULLY AGREE WITH THE WRITE-UP AND PLANS AS PRESENTED TO ME.

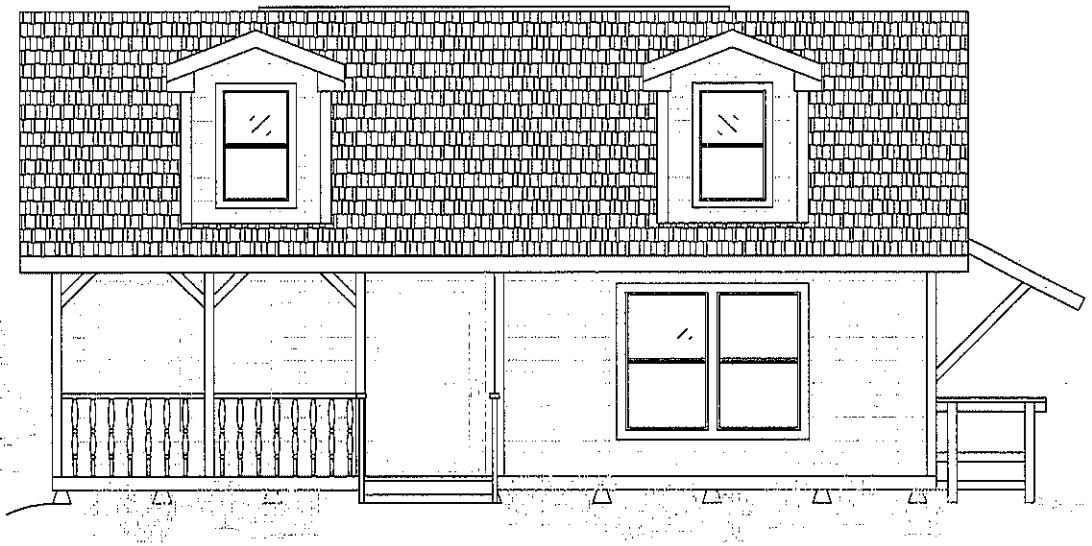
Gilberto Fonseca

NAME OF APPLICANT

Genoveva Fonseca

NAME OF CO-APPLICANT

RENDON RESIDENCE



Maria O. Rendon
6627 El Camino Real - Granjeno
(956) 432-8132

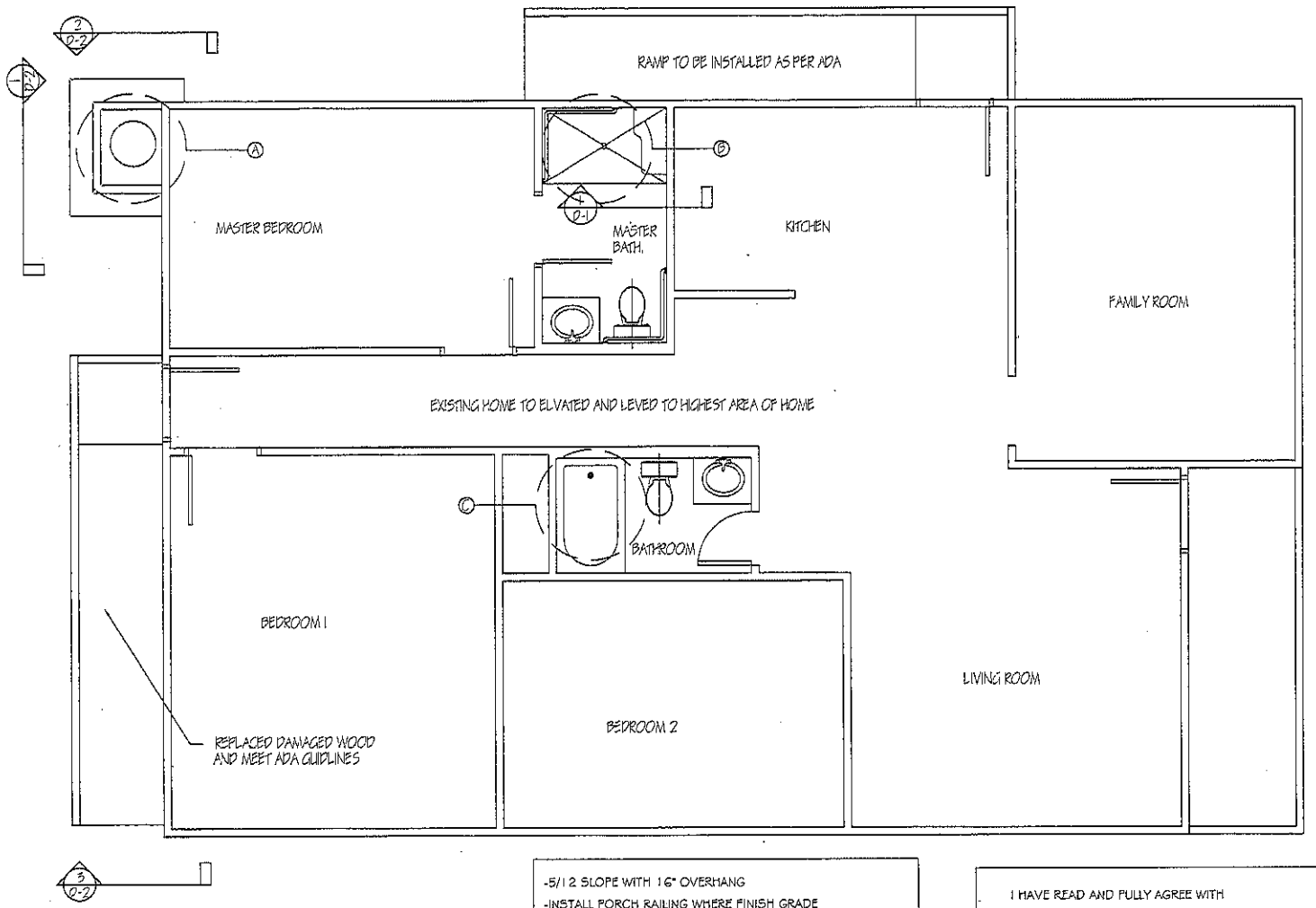
URBAN COUNTY PROGRAM
1916 TESORO BLVD. - Pharr, TX
(956) 787-8127

URBAN COUNTY PROGRAM
OWNER OCCUPIED HOUSING REHABILITATION PROGRAM

MARIA RENDO
6627 CAMINO REAL - GRANJENO, TX

TOTAL AREA
1050 SQ. FT.

1 OF 8



EXISTING HOME TO ELVATED AND LEVED TO HIGHEST AREA OF HOME

AREAS OF INTREST CIRCLED AND LABELD - SEE SECTION DETAILS FOR SPECIFICATIONS

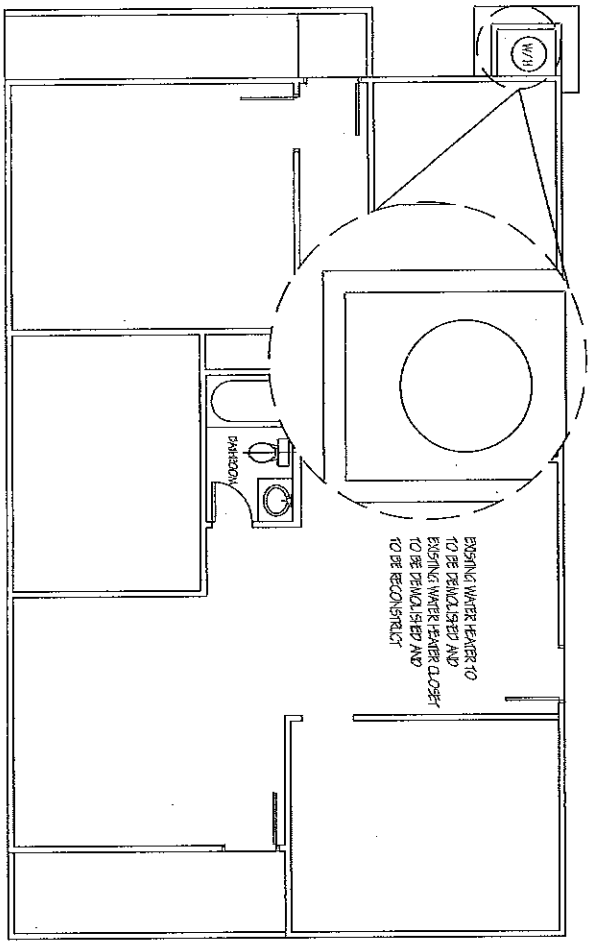
-5/12 SLOPE WITH 16" OVERHANG
-INSTALL PORCH RAILING WHERE FINISH GRADE IS LOWER THAN 1' FROM PORCH FLOOR.
-INTERIOR CHOSEN COLORS ARE AS FOLLOWED:
~~SAND FROST DUNE~~ AND WIMPE
-EXTERIOR CHOSEN COLORS ARE AS FOLLOWED:
SMOKEY GRAY AND WHITE

I HAVE READ AND FULLY AGREE WITH
THE WRITE-UP AND PLANS AS PRESENTED
TO ME THIS 24 DAY OF SEPT. 2013
Maria O. Rendon

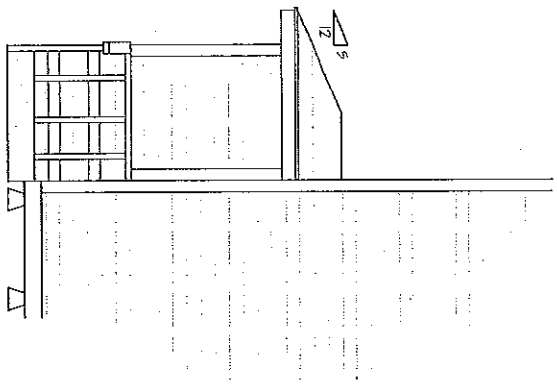
URBAN COUNTY PROGRAM
OWNER OCCUPIED HOUSING REHABILITATION PROGRAM

TOTAL AREA
1050 SQ. FT.

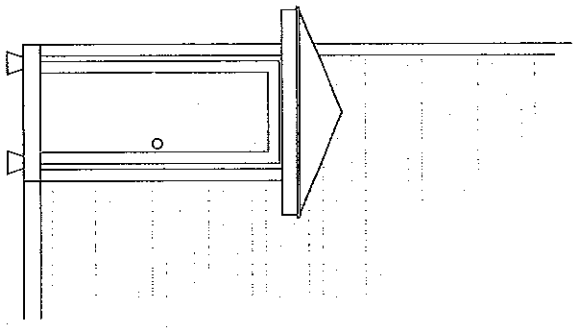
MARIA RENDO
6627 CAMINO REAL - LAREDO, TX



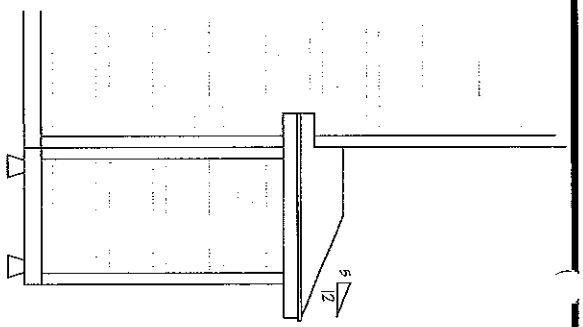
1 LEFT ELEVATION
D-2 SCALE: NTS



2 SHOWER SECTION
D-2 SCALE: NTS



3 SHOWER SECTION
D-2 SCALE: NTS



A - SECTION DETAILS

SCALE: NTS

URBAN COUNTY PROGRAM

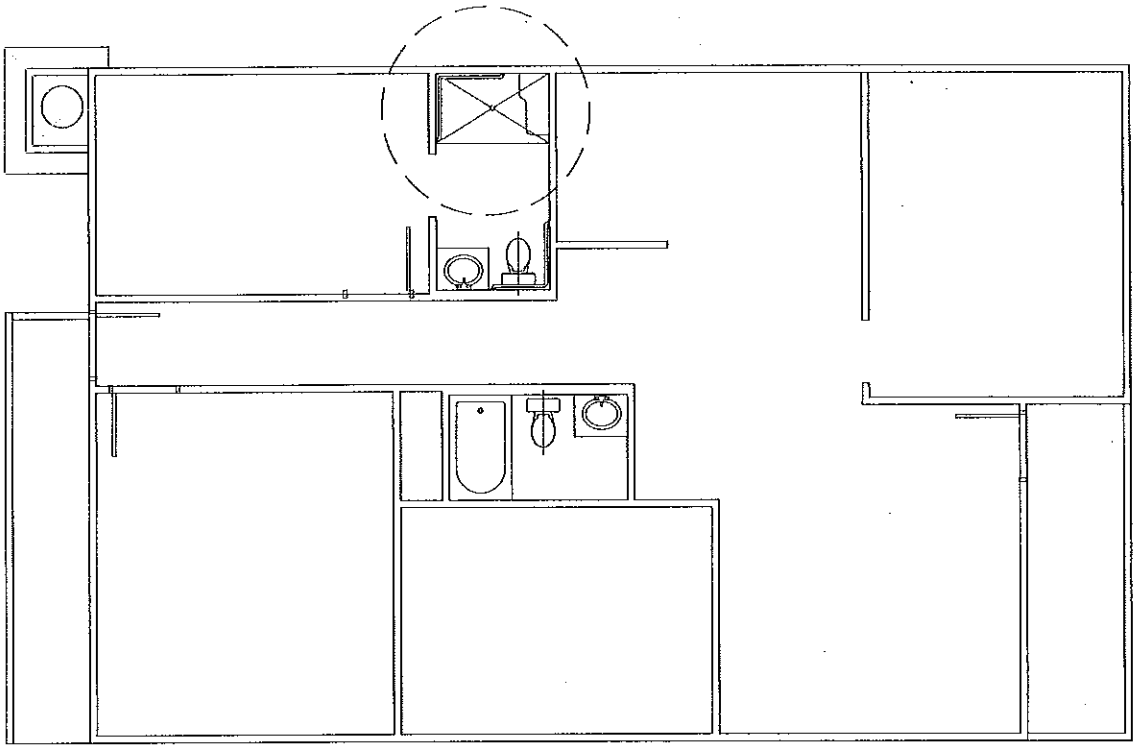
OWNER OCCUPIED HOUSING REHABILITATION PROGRAM

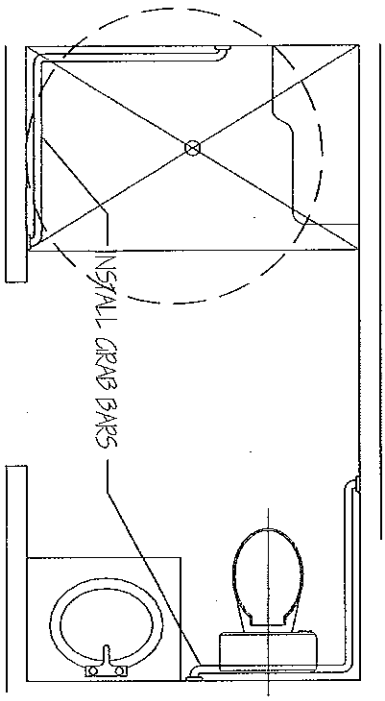
3 OF 8

MARIA RENDO

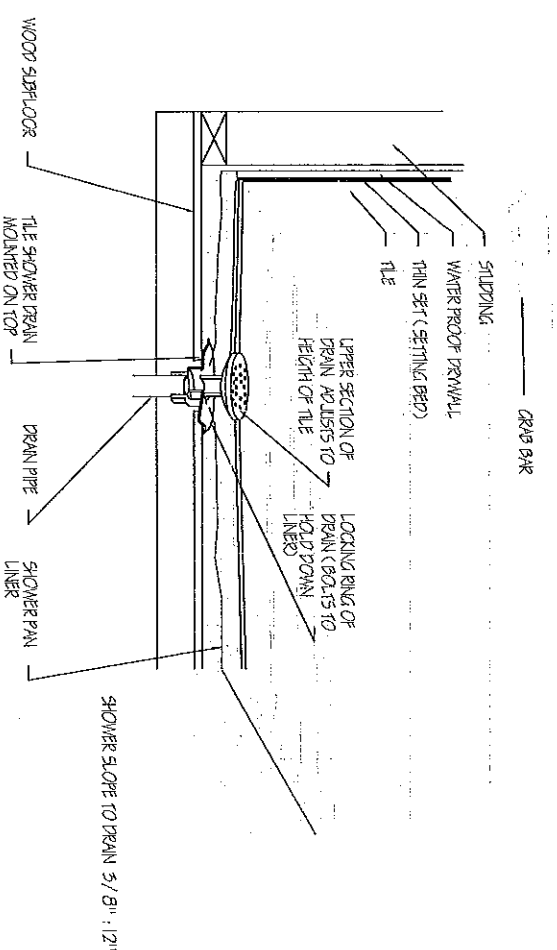
6627 CAMINO REAL - CRANJENO, TX

TOTAL AREA
1620 SQ. FT.





B - SECTION DETAIL
SCALE: NTS



1 SHOWER SECTION
D-1 SCALE: NTS

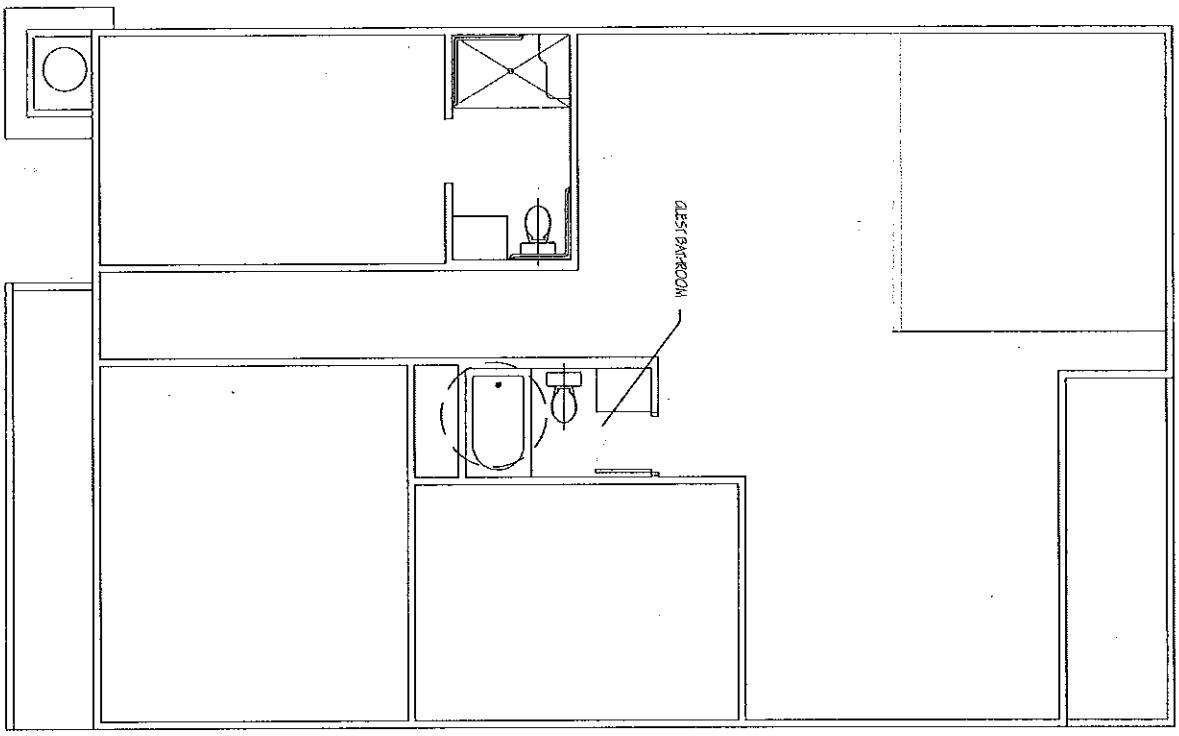
URBAN COUNTY PROGRAM

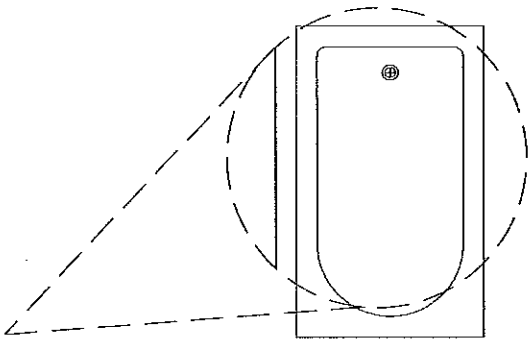
OWNER OCCUPIED HOUSING REHABILITATION PROGRAM

4 OF 8

MARIA RENDO
6627 CAMINO REAL - ORANJENO, TX

TOTAL AREA
1620 SQ. FT.





SHOWER PRESSURE IS LOW AND TO BE ADJUSTED SHOULD HAVE A STRONG FLOW OF WATER. WATER PRESSURE TO BE ABOVE 40 PSI AND NOT TO BE GREATER THAN 80 PSI.

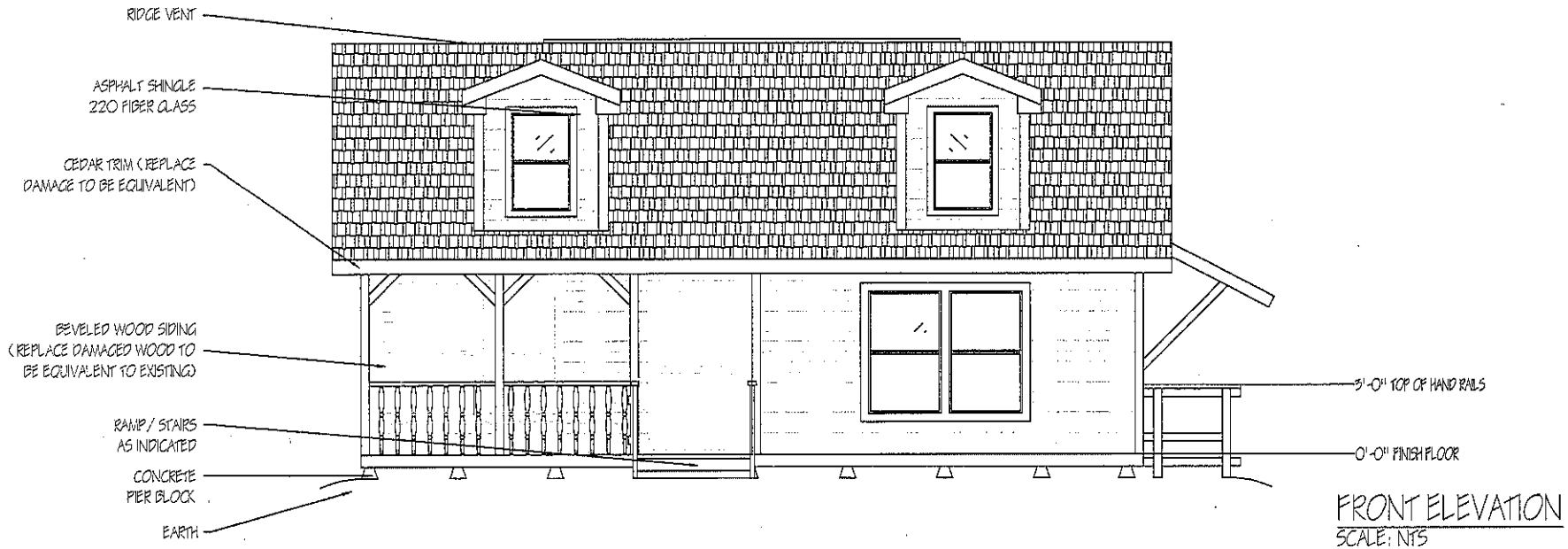
C - SECTION DETAIL
SCALE: NTS

URBAN COUNTY PROGRAM

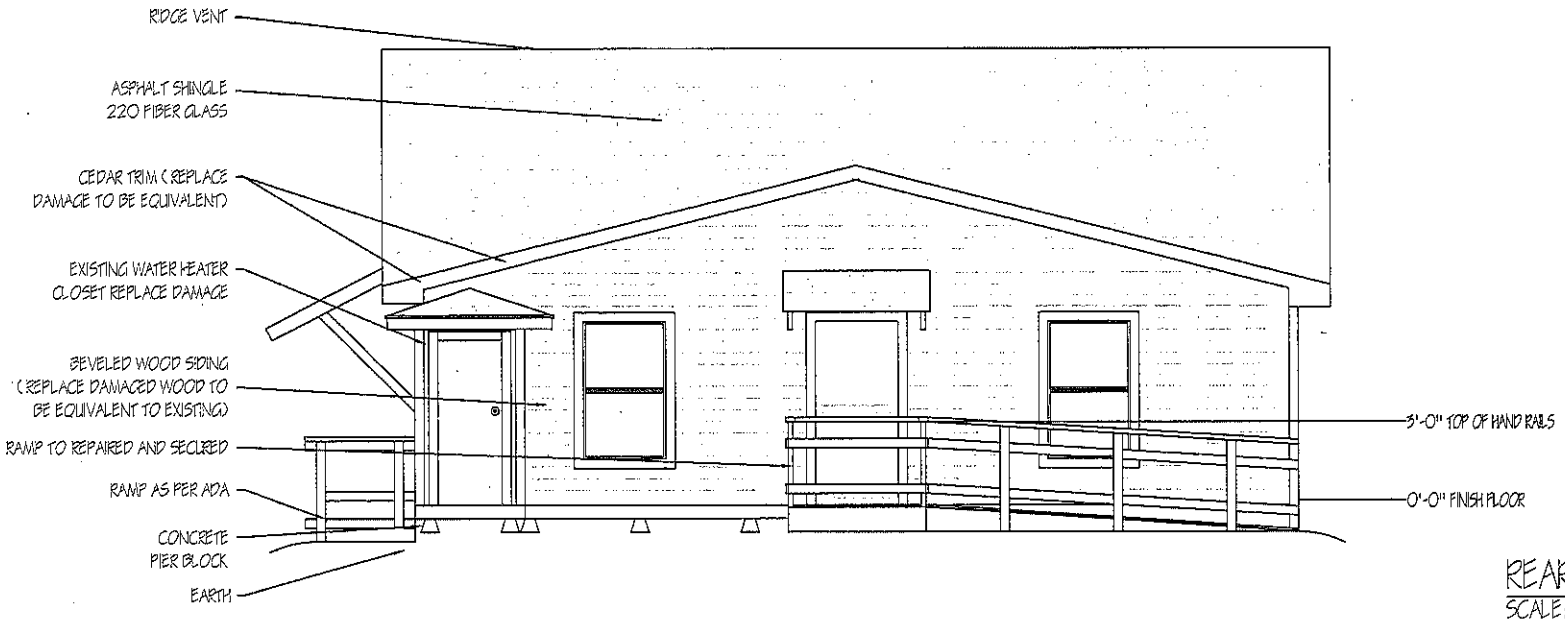
OWNER OCCUPIED HOUSING REHABILITATION PROGRAM

MARIA RENDO
6627 CAMINO REAL - GRANJENO, TX

TOTAL AREA
1030 SQ. FT.



FRONT ELEVATION
SCALE: NTS



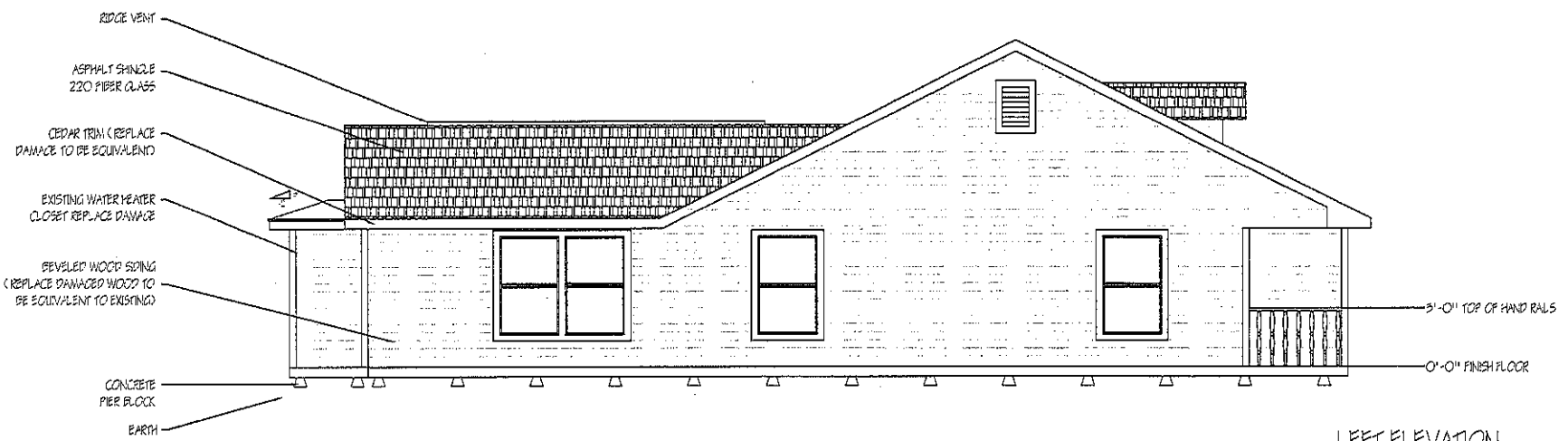
REAR ELEVATION
SCALE: NTS

URBAN COUNTY PROGRAM
OWNER OCCUPIED HOUSING REHABILITATION PROGRAM

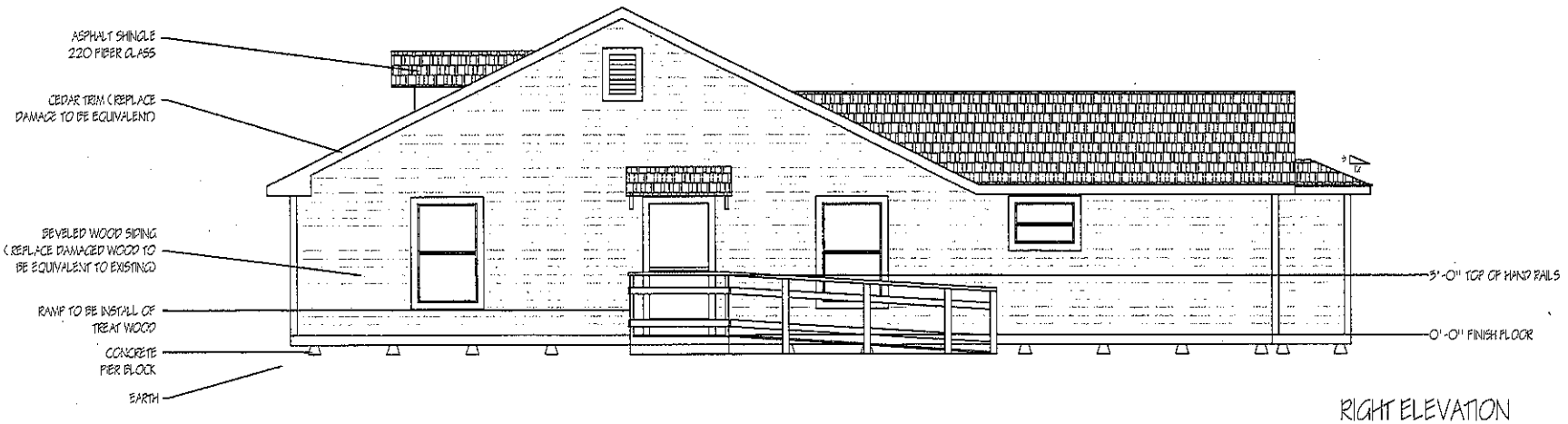
TOTAL AREA
1050 SQ. FT.

MARIA RENDO
6627 CAMINO REAL - ORANJENO, TX

6 OF 8



LEFT ELEVATION
SCALE: NTS



RIGHT ELEVATION
SCALE: NTS

TOTAL AREA
1050 SQ. FT.

URBAN COUNTY PROGRAM
OWNER OCCUPIED HOUSING REHABILITATION PROGRAM

MARIA RENDO
6627 CAMINO REAL - CRANJENO, TX

7 OF 8

SPECIFICATIONS

ALL *SPECIFICATIONS* SHALL ASSUME THE USE OF *CONTRACTOR'S MINIMUM GENERAL SPECIFICATIONS MANUAL*

OWNER (S) MARIA O. RENDON CASE NO.: G 30-07-03 DATE: 9/24/13 ADDRESS: 6627 EL CAMINO REAL ST., GRANJENO, TX PHONE: 956-432-8132 BY: ERIC TREVINO

1. FOUNDATION WORK:

REMOVE AND REPLACE ALL DAMAGE FLOOR JOISTS WITH 2X8 TREATED WOOD. HOUSE AND PORCH IS TO BE LEVELED TO HIGHEST FLOOR AREA (INSTALL SHIMS (STRIPS OF PRESSURE TREATED PLYWOOD) BETWEEN THE MUDSILL AND THE FOUNDATION WHERE NEEDED. TO COMPLY WITH PLANS, SPECS, CITY AND / COUNTY REQUIREMENTS. PROJECTS TO BE 18" ABOVE CENTER LINE OF STREET OR 18" ABOVE NATURAL GROUND, WHICHEVER IS GREATER. A MIN. OF 12 X 25 DRIVEWAY WITH A 36" WIDE WALKWAY CONNECTING TO RAMP

2. PLUMBING GENERAL: (SEE SPECS)

ALL PLUMBING ROUGH SHALL BE AS FOLLOWS: .

FIXTURES:

- PLUMBING SEALANT FOR ALL DRAINS, AND SINK PERIMETERS
- ALL OTHER RELATED PLUMBING (SEE SPECS)

FIXTURES: (SEE SPECS)

- PEDESTAL SINK W/ RELATED PLUMBING & FAUCETS
- TOILET OF MATCHING COLOR
- SHOWER WITH RELATED PLUMBING AND HANDICAP ACCESSIBLE.
- SHOWER FAUCETS & REMOVABLE SHOWER HEAD
- MEDICINE CABINETS/TOWEL RACKS/ T.P. DISPENCER/ TOOTHBRUSH & SOAP HOLDER, & SHOWER ROD (SEE SPECS)
- WATER HEATER INSTALLED AS-PER SPECS. (GAS OR ELECTRIC AS PER OWNER REQUEST)

3. INTERIOR/EXTERIOR WALLS & CEILINGS:

ALL INTERIOR AND EXTERIOR WALL FRAMING:

- 2"x4" (#2 OR BETTER) FOR USE IN; SOLE PLATES (TREATED LUMBER)
  - DOUBLE TOP PLATES
  - 92 5/8" PRE-CUT STUDS @ 16" O.C.
  - CEILING JOIST CHAIN BLOCKING @ 48" O.C.
- 2"x6" (#2 OR BETTER) FOR USE IN:
  - CEILING JOIST @ 24" O.C., **FOR CLEARANCES LARGER THAN 12' CEILING JOIST SHALL BE @ 16" O.C.**

ALL EXTERIOR CEILING COVERINGS:

- 3/8" CD EXTERIOR PLYWOOD FOR PORCH CEILINGS.

ALL INTERIOR WALL & CEILING COVERINGS.

- ½" SHEETROCK FINISHED AS PER SPECS.
- ½ "DAMP RESISTANT SHEETROCK FOR BATH AREAS.

ALL INTERIOR CEILINGS SHALL HAVE ORANGE PEEL TEXTURE.

ALL INTERIOR WALL SURFACESS SHALL HAVE ORANGE PEEL TEXTURE.

ALL EXTERTIOR TRIMMINGS SHOULD CONSIST OF CEDAR WOOD.

4. ROOF:(SLOPE=5/12)

ROOF SHALL HAVE:

- A HIP/GABLE STYLE ROOF WITH 16" OVERHANGS.
- AN ADEQUATE COMBINATION OF RIDGE & SOFFIT VENTS WITH AIR CHUTES.
- ADEQUATE RAIN GUTTERS WITH DOWN SPOUTS FOR THE ROOF AREA THAT MAY AFFECT OWNERS.

5. PORCH & CANOPY FLOORS:

THE HOUSE SHALL HAVE PORCH FLOORS AS FOLLOWS:

- A FRONT PORCH FLOOR.
- A SIDE/BACK PORCH FLOOR.

PROVIDE RAMP & (2)-HANDRAILS TO EACH FRONT AND/OR SIDE PORCH STEPS

6. INSULATION:

INSULATE:

- ALL LIVING AREA CEILINGS WITH BLOWN IN INSULATION TO AN **R-49 FACTOR.** (need a combined R-30 & R-19 to meet requirement)
- ALL EXTERIOR PIPES EXPOSED TO WEATHER.

7. INTERIOR FINISH:

In master bathroom only: ALL TRIM SHALL BE INSTALLED AS PER SPECS.

*ALL PAINT SHALL BE APPLIED AS PER SPECS (2-COATS) WITH PAINT **COMPARABLE IN QUALITY TO SHERWIN WILLIAMS.** ALLOW A VARIETY OF DIFFERENT COLORS FOR CLIENT TO CHOOSE FROM. (2 COLOR CHOICE MIN).*

8. EXTERIOR FINISH:

*REMOVE EXISTING PAINT AS PER PAINT WITH LEAD GUIDELINES UNDER THE EPA LEAD RENOVATON, REPAIR AND PAINTING RULES (RRP RULE) AND PAINT ENTIRE HOUSE AS PER SPECS WITH PAINT **COMPARABLE IN QUALITY TO SHERWIN WILLIAMS. PRIMER TO BE OIL BASED & PAINT MUST BE EQUIVALENT TO A-100.** (2 COLOR CHOICE MIN).*

9. SIDING:

*THE SIDING SHALL BE OF SAME MATERIALS AS EXISTING AND TO REPLACE ALL DAMAGED AND ROTTED SIDING **ALL CEDAR TRIM TO ENTIRE HOUSE.***

10. CABINETS GENERAL:

BUILD AND/OR INSTALL NEW KITCHEN CABINETS TO INCLUDE:

- BATHROOM **FORMICA COUNTER TOP** OF MATCHING COLOR.

BUILD AND / OR INSTALL A NEW VANITY CABINET (IF APPLICABLE) FOR BATHROOM WITH FORMICA TO MATCH LAVATORY, SINK, AND WALLS. ALL CABINETRY PIECES SHOULD BE NEW AND COMPLETE AND BUILT TO PROFESSIONAL STANDARDS.

11. FLOOR, SUBFLOOR, & FINISH FLOORING:

REMOVE EXISTING TILE AND APPLY VCT FLOOR TILE TO ALL LIVING AREA HOUSE FLOORS.

12. ELECTRICAL GENERAL

- ANY OUTLETS WITHIN 6' FROM KITCHEN OR BATHROOM SINKS MUST BE GFCI

13. RANGE HOOD:

INSTALL A RANGE HOOD TO FIT OWNER'S RANGE SIZE (30" OR 36") AND VENT TO EXTERIOR.

14. BATHROOM ACCESSORIES:

ALL ACCESSORIES & MEDICINE CABINETS AS PER SPECS.

INCLUDE CURTAIN ROD & PLASTIC THRESHOLD TO HELP PREVENT WATER FROM ESCAPING SHOWER.

INSTALL PEDESTAL SINK AND CABINET ABOVE TOILET.

(ALSO INCLUDE TOILET PAPER, TOOTHBRUSH, AND SOAP HOLDER.)

15. ACCESS FOR PHYSICAL DISABILITIES:

INSTALL ONE CONC. RAMP AS PER OWNERS REQUEST THAT CONNECTS WITH 12 X 25 DRIVEWAY AND STEPS WITH HANDRAILS

BATHROOM SHOULD ACCOMMODATE GRAB BARS WHERE INDICATED IN PLANS

16. SMOKE DETECTORS:

INSTALL A SMOKE DETECTOR INSIDE EACH SLEEPING ROOM, OUTSIDE SLEEPING ROOMS, ALL WIRED IN SERIES.

17. GENERAL NOTES.

CONTRACTOR IS RESPONSIBLE FOR:

- EPA'S LEAD RENOVATION, REPAIR AND PAINTING RULE (RRP RULE) REQUIRES THAT FIRMS PERFORMING RENOVATION, REPAIR, AND PAINTING PROJECTS THAT DISTURB LEAD-BASED PAINT IN HOMES, CHILD CARE FACILITIES AND PRE-SCHOOLS BUILT BEFORE 1978 HAVE THEIR FIRM CERTIFIED BY EPA (OR AN EPA AUTHORIZED STATE), CERTIFIED RENOVATORS WHO ARE TRAINED by EPA-approved training providers and follow lead-safe work practices.
- MUST BE EPA CERTIFIED RENOVATOR FOR LEAD REMOVAL AND DISPOSAL.
- MUST ALWAYS BE WITHIN A (15) FIFTEEN MINUTE OF PROJECT SITE.
- YOUR BID TO INCLUDE ANY COST RELATED TO REQUIREMENTS FROM CITY. CHANGE ORDERS FOR THIS PARTICULAR PURPOSE WILL NOT BE ACCEPTED OR PROCESSED TO CORRECT THE ABOVE MENTIONED.
- YOUR BID TO INCLUDE ANY COST RELATED TO RES-CHECK & ENERGY COMPLIANCE REQUIREMENTS.
- THE DEMOLISH AND DISPOSAL EXISTING STRUCTURE.
- THE COMPLIANCE OF ALL THE REQUIRED BUILDING ELEVATIONS.
- PROVIDE TERMITE PRE-TREATMENT TO ENTIRE HOUSE.
- OBTAINING, DISPLAYING, AND SUBMITTING ALL PROPER PERMTIS & INSPECTIONS.
- ALL CONTRACTORS WILL BE RESPONSIBLE FOR ANY ADDITIONAL PLANS, SPECIFICATIONS AND/OR DETAILS THAT ARE REQUIRED BY CITIES OR COUNTY AT THE TIME OF ATTAINING PERMITS.
- MINIMUM 12x-25 CONC. DRIVEWAY WITH CONNECTING SIDEWALK TO RAMP FOR HANDICAP APPLICANTS.
- ALL THE GENERAL INFORMATION CONTAINED WITHIN **SECTION 23. GENERAL NOTES** OF THE CONTRACTOR'S GENERAL SPECIFICATIONS MANUAL.
- PROVIDE AND INSTALL PROJECTS SIGNS AT EACH CONSTRUCTION SITE
- CONTRACTOR IS RESPONSIBLE FOR SUPPLYING PORT A POTTY TRHOUGHOUT CONSTRUCTION PROCESS ***(demo to final inspection)***
- SHOWER ENTRANCES TO BE 36" WIDE
- ALL UCP HOMES MUST COMPLY WITH TEXAS GOVERNMENT CODE §2306.514

THE HOMEOWNER SHALL BE RESPONSIBLE FOR

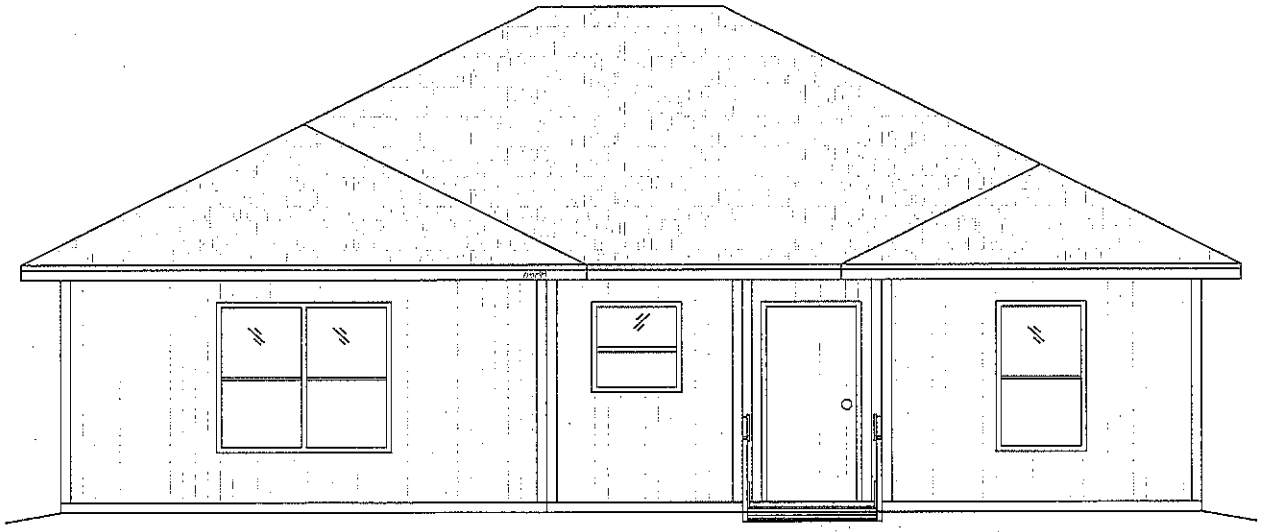
- REMOVE AND DISPOSE OF ALL DEBRIS ON SITE BEFORE THE BEGINNING OFCONSTRUCTION, INCLUDING BUT NOT LIMITED TO TIRES, ABANDONEDVEHICLES, OLD LUMBER, ETC.
- MAKING NECESSARY DEPOSITS FOR ANY UTILITIES TO BE CONNECTED TO THE NEW DWELLING.

I HAVE READ AND FULLY AGREE WITH THE WRITE-UP AND PLANS AS PRESENTED TO ME.

Maria O. Rendon

NAME OF APPLICANT

ROBLEDO RESIDENCE



PEDRO ROBLEDO
6588 S. FM 494 RD. GRANJENO
(956) 585-2634

URBAN COUNTY PROGRAM
1916 TESORO BLVD. - Pharr, TX
(956) 787-8127

URBAN COUNTY PROGRAM

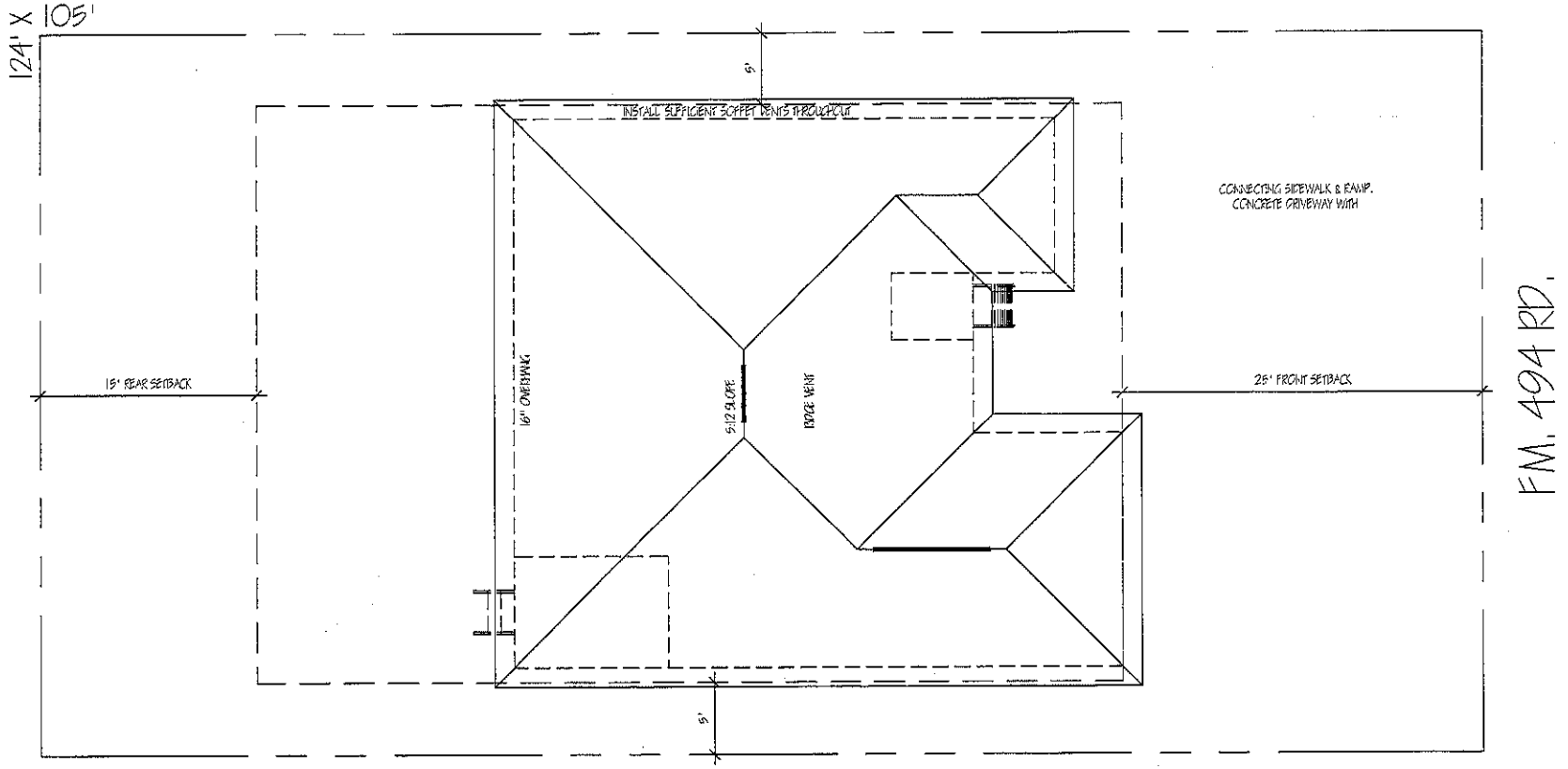
OWNER OCCUPIED HOUSING REHABILITATION PROGRAM

PEDRO ROBLEDO
6588 S. FM 494 RD. GRANJENO

LIVING AREA
1396 SQ. FT.

1 OF 7

N. 1/2 OF 60/100 PORCIONES 58, 59 & 60 GRANJO RANCH



NOTE:

Please verify with city/ county on setbacks and for any requirements requarding sidewalk, landscaping and any other obligations as per city regulations/ ordinances. HOWEVER, any house that is made for handicap accessibility WILL ALWAYS, require driveway with connecting sidewalk to ramp.

Remember to provide 6" of landscape dirt around house with sufficient grass seed up to 10' of perimeter.
Install both a ramp, steps and railings as per owners request of location.
In addition, remember to replace septic tank if needed and is more than 10 yrs old.
House to be built on original location.

Driveway to be 12'X 25' minimum, remain distance is to street if any is to be of asphalt, caliche or concrete.

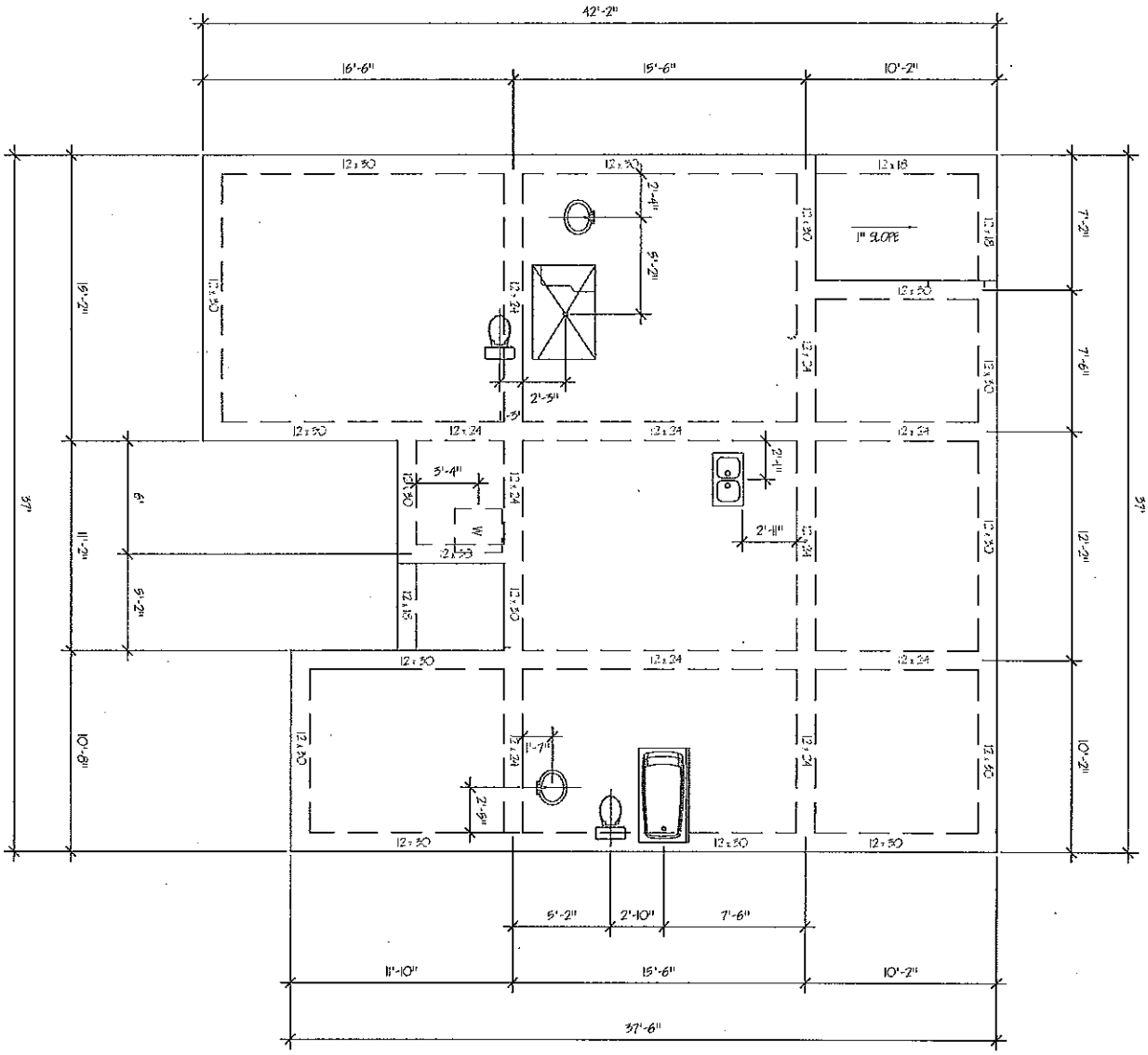
1 ROOF/PLOT PLAN
XREF N.T.S.

URBAN COUNTY PROGRAM
OWNER OCCUPIED HOUSING REHABILITATION PROGRAM

LIVING AREA
1596 SQ. FT.

PEDRO ROBLEDO
6588 S. FM 494 RD. GRANJENO

2 OF 7



1 FOUNDATION PLAN
XREF

GENERAL NOTES

-4" THICK SLAB ON GRADE W/ #3 BARS @ 16" O.C. EACH WAY AT MID-DEPTH OF SLAB OVER 6 MIL VISQUEEN OVER APPROVED COMPACTED FILL

-EXTERIOR BEAMS TO BE 12"X30" WITH 4 #5 BARS CONT. TOP & BOTTOM WITH #3 STIRRUPS AT 24" O.C AND A MIN. OF 6" IN DEPTH TO UNDISTURBED SOIL

-INTERIOR BEAMS TO BE 12"X24" WITH 4 #5 BARS CONT. TOP & BOTTOM WITH #3 STIRRUPS AT 24" O.C. AND A MIN. OF 6" IN DEPTH TO UNDISTURBED SOIL.

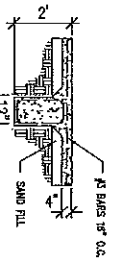
-CORNER BARS: AT ALL CORNERS & INTERSECTIONS 2'X2' - #5 APPLY 6X6 #6 WIRE MESH AT SIDEWALKS AND DRIVEWAYS.

-INSTALL ACHOR BOLTS AT PERIMETER AT 4' O.C.

-USE ONLY COMPACTED SELECTED FILL DIRT. FINISH FLOOR TO BE 18", FROM TOP OF CURB. UNLESS OTHERWISE NOTED.

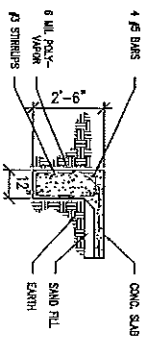
B-INTERIOR BEAM

-INTERIOR BEAMS TO BE 12"X24" WITH 4 #5 BARS CONT. TOP & BOTTOM WITH #3 STIRRUPS AT 24" O.C. AND A MIN. OF 6" IN DEPTH TO UNDISTURBED SOIL



A-EXTERIOR BEAM

-EXTERIOR BEAMS TO BE 12"X30" WITH 4 #5 BARS CONT. TOP & BOTTOM WITH #3 STIRRUPS AT 24" O.C AND A MIN. OF 6" IN DEPTH TO UNDISTURBED SOIL



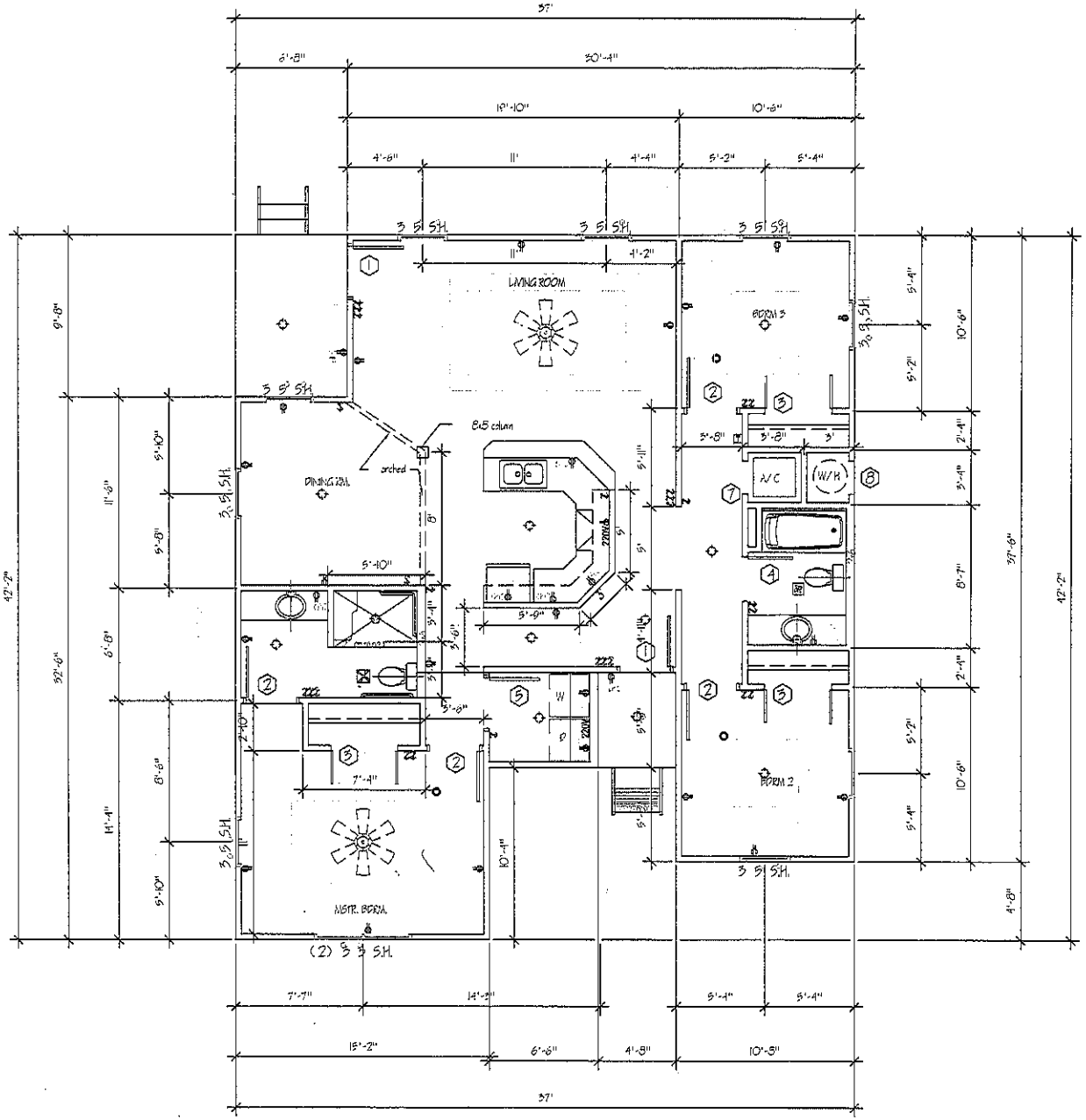
URBAN COUNTY PROGRAM

OWNER OCCUPIED HOUSING REHABILITATION PROGRAM

3 OF 7

PEDRO ROBLEDO
6588 S. FM 494 RD. CRANJENO

LIVING AREA
1396 SQ. FT.



SQUARE FOOTAGE

LIVING AREA	1290
PORCH/ PATIO	108
TOTAL SQ. FT.	1428

ELECTRICAL LEGEND

WH WATER HEATER	LIGHT FIXTURE
DUPLEX ELECTRICAL RECEPT.	$ LIGHT SWITCH
220V 220V DUPLEX ELECTRICAL RECEPTACLE	T THERMOSTAT
GFI CIRCUIT FAULT CIRCUIT INTERRUPTER	SMOKE DETECTOR

DOOR SCEDULE

DR#	TASK	SZ X 6 8	TYPE	LOCKS
1	INSTALL NEW UNIT W/ DUAL PEEP HOLES	5⁰	METAL W/ LOW PROFILE THRSH.D.	LEVER TYPE ENTRY LOCK W/ DEADBOLT.
2	INSTALL NEW UNIT	3⁰	HOLLOW CORE	LEVER TYPE PRIVACY
3	INSTALL NEW UNIT	(2) 2⁰	HOLLOW CORE	PASSAGE
4	INSTALL NEW UNIT	2⁶	HOLLOW CORE	PASSAGE
5	INSTALL NEW UNIT	5⁰	HOLLOW CORE	PASSAGE
6	INSTALL NEW UNIT	3⁰	POCKET DOOR	PRIVACY LOCK
7	INSTALL NEW UNIT	2⁰	HOLLOW CORE	PASSAGE
8	INSTALL NEW UNIT	2⁰	METAL DOOR	LOCK WITH DEADBOLT

GENERAL NOTES

-5/12 SLOPE WITH 16" OVERHANG

-SUPPLY RIDGE / SOFFIT VENTS WHERE NEEDED

-INSTALL PORCH RAILING WHERE FINISH GRADE IS LOWER THAN 1" FROM PORCH FLOOR.

-INSTALL PORCH STEPS WHERE FINISH GRADE IS LOWER THAN 6" FROM PORCH FLOOR.

-INSTALL CONNECTIONS FOR A NATURAL GAS/ PROPANE/ OR ELECTRICAL STOVE w/ ELECTRIC OUTLET

-INSTALL A MIN. OF 2 CABLE CONNECTIONS & 2 PHONE JACKS PER OWNERS RECUEST.

INT. TRIM WHITE 6150 INT. WALL UNIVERSAL KHAKI 6BT

EXT. TRIM CLOUDBURST EXT. WALL RAINDROP 6485

I HAVE READ AND FULLY AGREE WITH THE WRITE-UP AND PLANS AS PRESENTED TO ME THIS 2 DAY OF OCT. 2013

Pedro Robledo

1 FLOOR PLAN

XREF N.T.S.

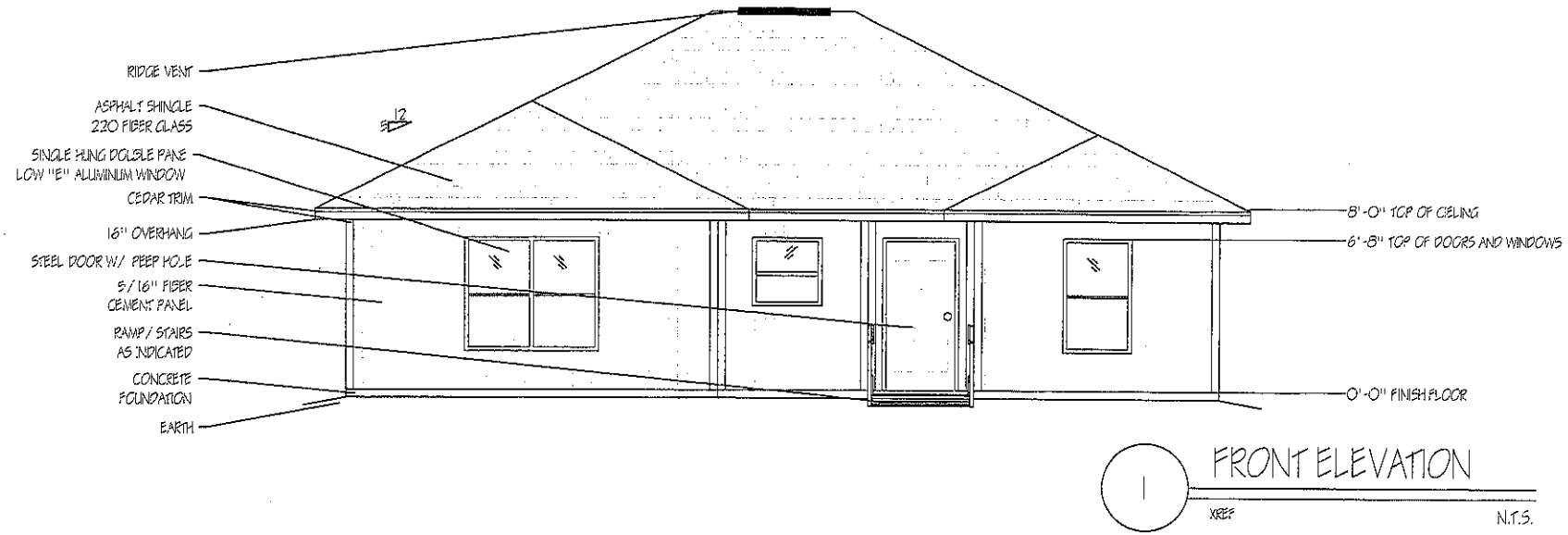
URBAN COUNTY PROGRAM

OWNER OCCUPIED HOUSING REHABILITATION PROGRAM

PEDRO ROBLEDO
6588 S. FM 494 RD. GRANJENO

LIVING AREA
1396 SQ. FT.

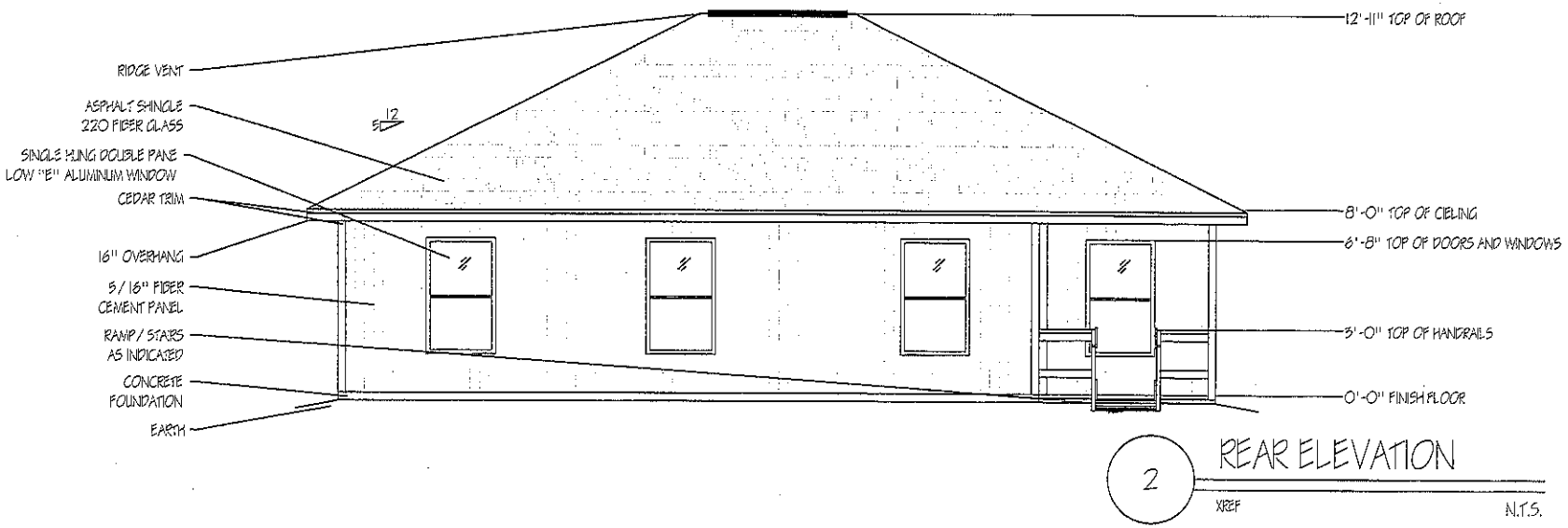
4 OF 6



1 FRONT ELEVATION

XREF

N.T.S.



2 REAR ELEVATION

XREF

N.T.S.

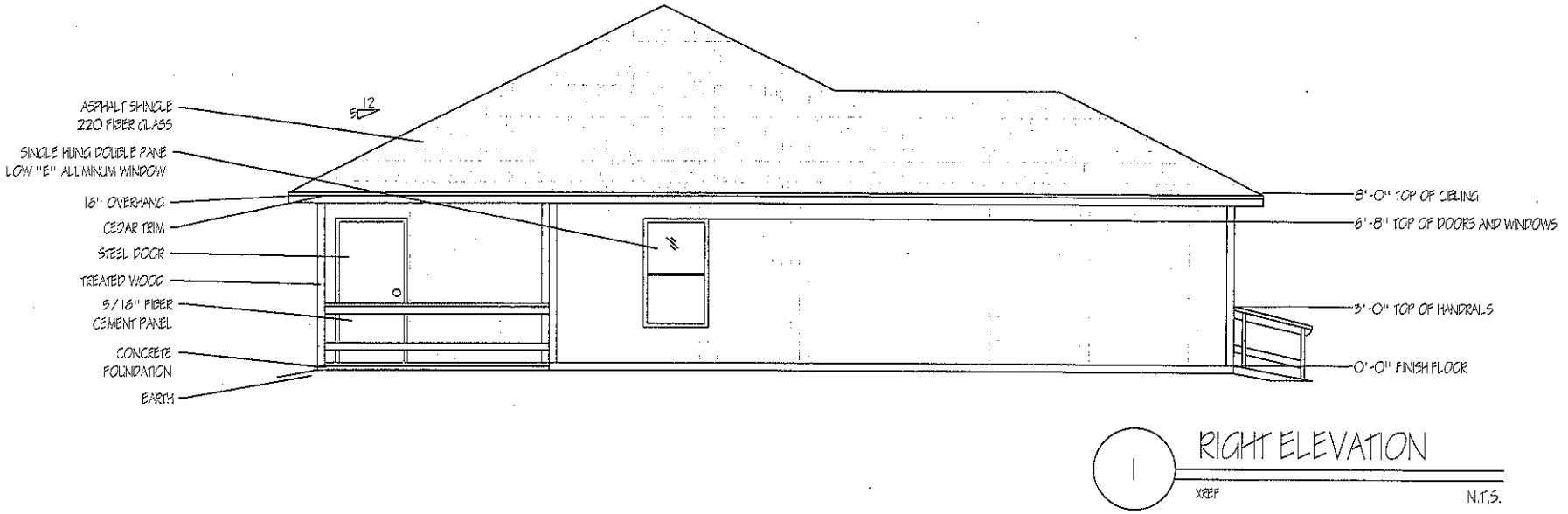
URBAN COUNTY PROGRAM

OWNER OCCUPIED HOUSING REHABILITATION PROGRAM

LIVING AREA
1396 SQ. FT.

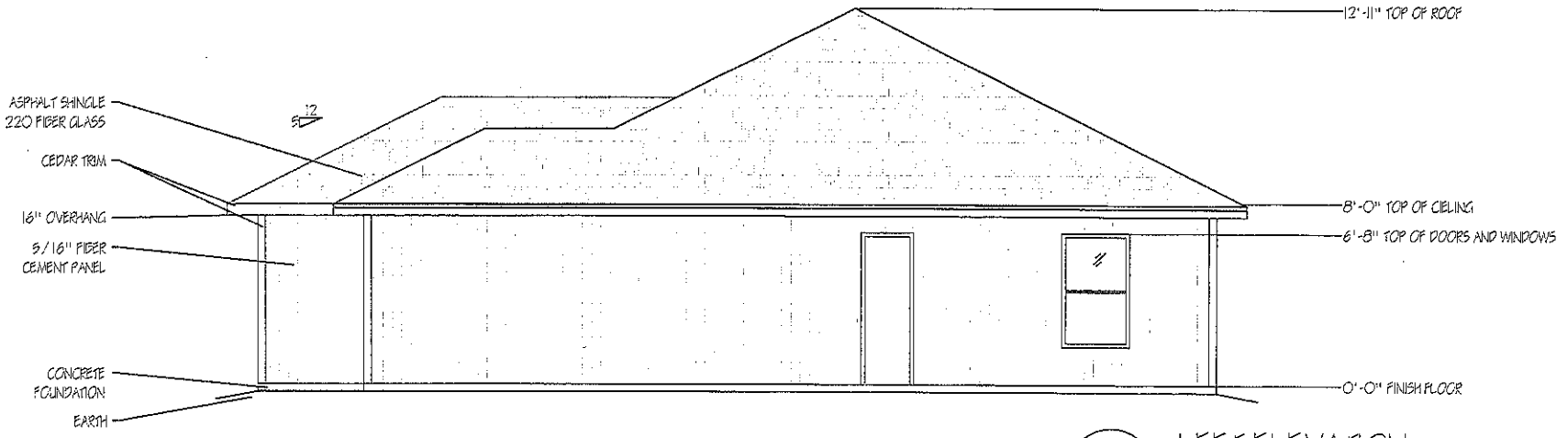
PEDRO ROBLEDO
6588 S. FM 494 RD. GRANJENO

5 OF 7



1 RIGHT ELEVATION

XREF N.T.S.



2 LEFT ELEVATION

XREF N.T.S.

URBAN COUNTY PROGRAM

OWNER OCCUPIED HOUSING REHABILITATION PROGRAM

PEDRO ROBLEDO
6588 S. FM 494 RD. GRANLENO

LIVING AREA
1396 SQ. FT.

6 OF 7

SPECIFICATIONS

ALL *SPECIFICATIONS* SHALL ASSUME THE USE OF *CONTRACTOR'S MINIMUM GENERAL SPECIFICATIONS MANUAL*

OWNER (S) Pedro Robledo CASE NO.: G 30-07-02 DATE: 10-2-13 ADDRESS: 6588 S. FM 494 RD Granjeno PHONE: (956) 585-2634 BY: Eric Trevino

1. FOUNDATION WORK:

BUILD A NEW CONCRETE FOUNDATION TO COMPLY WITH PLANS, SPECS, CITY AND / COUNTY REQUIREMENTS. CW PROJECTS TO BE 18" ABOVE CENTER LINE OF STREET OR 18" ABOVE NATURAL GROUND, WHICHEVER IS GREATER. INCLUDE CONCRETE SLAB FOR A/C UNIT.

2. PLUMBING GENERAL: (SEE SPECS)

ALL PLUMBING ROUGH SHALL BE AS FOLLOWS:

- WATER SUPPLY TO HOUSE SHALL HAVE A ¾" CUTOFF VALVE BEFORE ENTRY TO HOUSE.
- INTERIOR WATER SUPPLY LINES FOR HOUSE SHALL BE ALL NEW PEX OF APPROPRIATE DIAMETER
- NEW PEX PIPES AND FITTINGS:
  - OF 1" MINIMUM DIAMETER FOR ALL EXTERIOR WATER SUPPLY LINES BELOW GROUND.
  - OF APROPRIATE DIAMETER FOR DWV (DRAIN, WASTE, AND VENTS).
- SEWER CONNECTION SHALL HAVE (1) PLASTIC PVC SEWER CLEAN OUT.

ALL PLUMBING FINISH SHALL BE AS FOLLOWS:

- RELATED PLUMBING ITEMS:
  - (2) EXTERIOR HOSE BRASS BIB FAUCETS:
  - ½" CUTOFF VALVES WITH ESCUTCHEONS FOR ALL FIXTURES.

FIXTURES:

- PLUMBING SEALANT FOR ALL DRAINS, AND SINK PERIMETERS
- ALL OTHER RELATED PLUMBING (SEE SPECS)

FIXTURES: (SEE SPECS)

- KITCHEN SINK/ FAUCETS/RELATED PLUMBING.
- CABINET SINK WITH FORMICA COUNTERTOP/ FAUCETS
- SHOWER/TUB WITH RELATED PLUMBING & FIXTURES
- TOILET OF MATCHING COLOR
- MEDICINE CABINETS/TOWEL RACKS/ T.P. DISPENCER/ TOOTHBRUSH, SOAP HOLDER, & SHOWER ROD (SEE SPECS)
- WATER HEATER INSTALLED AS-PER SPECS. (GAS OR ELECTRIC AS PER OWNER REQUEST)

OTHER RELATED ITEMS

- RANGE CONNECTIONS AS PER OWNERS REQUST.(SEE SECTION 23.)
- 4" DRYER EXAUST VENT.
- IN WALL WASHING MACHINE BOX, WITH BRASS FAUCETS & RELATED PLUMBING.

HOOK UP ALL DRAINAGE LINES TO CITY SEWER SYSTEM IF AVAILABLE. SEE CITY FOR INFORMATION.TEST SEPTIC SYSTEM IF EXISTING FOR INTEGRITY AND REPLACE IF NECESSARY AND MORE THAN 10 YEARS OF AGE

3. INTERIOR/EXTERIOR WALLS & CEILINGS:

ALL INTERIOR AND EXTERIOR WALL FRAMING:

- 2"x4" (#2 OR BETTER) FOR USE IN: SOLE PLATES (TREATED LUMBER)
  - DOUBLE TOP PLATES
  - 92 5/8" PRE-CUT STUDS @ 16" O.C.
  - WINDOW SILLS
  - CEILING JOIST CHAIN BLOCKING @ 48" O.C.
  - **INSTALL BOOT TIES IN EVERY CORNER** OF THE HOUSE ALONG WITH METAL ANCHORS ON BOTH BOTTOM AND TOP PLATES OF HOME
- 2"x6" (#2 OR BETTER) FOR USE IN:
  - WINDOW & DOOR HEADERS WITH 1"/2" SPACER.
  - CEILING JOIST @ 24" O.C., **FOR CLEARANCES LARGER THAN 12' CEILING JOIST SHALL BE @ 16" O.C.**
  - **(2) 2X12 WHERE NEEDED.**

ALL EXTERIOR CEILING COVERINGS:

- 3/8" CD EXTERIOR PLYWOOD FOR PORCH CIELINGS.

ALL INTERIOR WALL & CEILING COVERINGS.

- ¼" SHEETROCK FINISHED AS PER SPECS.
- ½ " DAMP RESISTANT SHEETROCK FOR BATH AREAS.

ALL INTERIOR CEILINGS & WALLS TO HAVE ORANGE PEEL TEXTURE.

ALL EXTERTIOR TRIMMINGS SHOULD CONSIST OF CEDAR WOOD.

4. ROOF:(SLOPE=5/12)

ROOF SHALL HAVE:

- A HIP/GABLE STYLE ROOF WITH 16" OVERHANGS.
- A HIP/GABLE STYLE FRONT PORCH AS PER PLANS.
- PORCH COLUMNS MUST BE FASTENED TO CONCRETE.
- AN ADEQUATE COMBINATION OF RIDGE & SOFFIT VENTS WITH AIR CHUTES.
- ADEQUATE RAIN GUTTERS WITH DOWN SPOUTS FOR THE ROOF AREA THAT MAY AFFECT OWNERS.
- SHINGLES TO BE OF LIGHT COLOR **(no black shingles)**

5. PORCH & CANOPY FLOORS:

THE HOUSE SHALL HAVE PORCH FLOORS AS FOLLOWS:

- A FRONT PORCH FLOOR.
- A SIDE/BACK PORCH FLOOR.

PROVIDE RAMP & (2)-HANDRAILS TO EACH FRONT AND/OR SIDE PORCH STEPS IF FINISH GRADE IS MORE THAN 6" ABOVE ORIGINAL GROUND LEVEL OF PROPERTY.

6. INSULATION:

INSULATE:

- ALL LIVING AREA CEILINGS WITH BLOWN IN INSULATION TO AN **R-49 FACTOR.**
- INFILTRATION FOAM SHALL BE USED AROUND ALL WINDOWS, WIRES, PLUMBING, ELECTRICAL, 2X4 BOTTOM PLATES, AND ALL PENETRATED AREAS.
- ALL PERIMETER WALLS WITH **R-15 F.G. BATT.**
- ALL EXTERIOR PIPES EXPOSED TO WEATHER.

7. INTERIOR FINISH:

ALL TRIM SHALL BE INSTALLED AS PER SPECS.

ALL PAINT SHALL BE APPLIED AS PER SPECS (2-COATS) AND SHOULD BE COMPARABLE IN QUALITY TO SHERWIN WILLIAMS PAINT. ALLOW A VARIETY OF DIFFERENT COLORS FOR CLIENT TO CHOOSE FROM. (2 COLOR CHOICE MIN).

8. EXTERIOR FINISH:

*PAINT ENTIRE HOUSE AS PER SPECS WITH PAINT **COMPARABLE IN QUALITY TO SHERWIN WILLIAMS. PRIMER TO BE OIL BASED & PAINT MUST BE EQUIVALENT TO A-100.** (2 COLOR CHOICE MIN).*

9. SIDING:

THE SIDING SHALL BE 5/16" FIBER CEMENT WITH ALL CEDAR TRIM TO ENTIRE HOUSE.

10. WINDOWS:

SHALL BE NEW LOW "E" DOUBLE PANE INSULATED ALUMINUM WINDOWS, SIZE AS PER PLAN.

11. CABINETS GENERAL:

BUILD AND/OR INSTALL NEW KITCHEN CABINETS TO INCLUDE:

- A RANGE CABINET.
- A KTCHEN FORMICA COUNTER TOP OF MATCHING COLOR.

BUILD AND / OR INSTALL A NEW VANITY CABINET FOR EACH BATHROOM WITH FORMICA TO MATCH LAVATORY, SINK,TOILET AND WALLS. ALL CABINETRY PIECES SHOULD BE NEW AND COMPLETE AND BUILT TO PROFESSIONAL STANDARDS.

12. FLOOR, SUBFLOOR, & FINISH FLOORING:

APPLY VCT FLOOR TILE TO ALL LIVING AREA HOUSE FLOORS.
SECOND FLOOR TO BE BUILT WITH 2 X 12 FLOOR JOISTS @ 16" O.C.

13. ELECTRICAL GENERAL

ALL ELECRICAL INSTALLATIONS & WORK AS PER ELECTRICAL CODE WITH THE FOLLOWING CONDITIONS:

- PROVIDE RANGE OUTLET AS PER OWNER'S REQUEST.
- PROVIDE APPROPRIATE WASHER & DRYER CONNECTION.
- (2) 52" CEILING FANS (CEILING HUGGER STYLE) **COMPARABLE IN QUALITY** TO THE "HUNTER" BRAND, THE CONTACTOR SHALL ALLOW $120.00 FOR MATERIAL & LABOR, LOCATON AS PER OWNER REQUEST. INSTALL GFCI OUTLETS IN BATHROOMS, KITCHEN, AND EXTERIOR WALLS.
- EACH ELECTRICAL PANEL OR BREAKER BOX, LIGT SWITCH, OR THERMOSTAT NO HIGHER THAN 48" ABOVE FLOOR.
- EACH ELECTRIACL OUTLET TO BE PLACED 15" ABOVE THE FLOOR
- ALL RECEPTICALS PLACED WITHIN 6' FROM KITCHEN OR BATHROOM SINKS MUST BE GFCI

14. RANGE HOOD:

INSTALL A RANGE TO FIT OWNER'S RANGE SIZE (30" OR 36").

15. BATHROOM ACCESSORIES:

ALL ACCESSORIES & MEDICINE CABINET AS PER SPECS.
(CURTAIN ROD, TOILET PAPER,TOOTHBRUSH & SOAP HOLDER)

16. HEATING & A/C:

*PROVIDE & INSTALL A **14 SEER CENTRAL** AIR CONDITIONING **COMPARABLE IN QUALITY** TO A CARRIER BRAND UNIT FOR THE ENTIRE HOUSE.* INSTALL DIGITAL THERMOSTAT. PLANS MUST BE REVIEWED BY A LICENSED A/C TECHNICIAN TO DETERMINE PROPER INSTALLATION OF VENTS, DUCTS, AND REQUIRED 2' X 2' A/C CHASE.

17. SMOKE DETECTORS:

INSTALL A SMOKE DETECTOR INSIDE EACH SLEEPING ROOM, OUTSIDE SLEEPING ROOMS, ALL WIRED IN SERIES.

18. GENERAL NOTES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR:

- YOUR BID TO INCLUDE ANY COST RELATED TO REQUIREMENTS FROM CITY. CHANGE ORDERS FOR THIS PARTICULAR PURPOSE WILL NOT BE ACCEPTED OR PROCESSED TO CORRECT THE ABOVE MENTIONED.
- YOUR BID TO INCLUDE ANY COST RELATED TO RES-CHECK & ENERGY COMPLIANCE REQUIREMENTS.
- THE DEMOLISH AND DISPOSAL EXISTING STRUCTURE.
- THE COMPLIANCE OF ALL THE REQUIRED BUILDING ELEVATIONS.
- PROVIDE 6" OF LANDSCAPE DIRT AROUND THE HOUSE ALONG WITH SUFFICIENT GRASS SEEDS UP TO 10' OF PERIMETER.
- PROVIDING THE APPROPRIATE ELECTRICAL AND /OR GAS CONNECTIONS FOR RANGE AS PER APPICANT'S REQUEST AND ACCORDING TO APPLICABLE PLUMBING/ELECTRICAL CODE.
- PROVIDE PHONE JACKS & CABLE CONNECTIONS IN EACH BDRM & LIVING ROOM. KITCHEN PHONE IF REQUESTED.
- PROVIDE TERMITE PRE-TREATMENT TO ENTIRE HOUSE.
- OBTAINING, DISPLAYING, AND SUBMITTING ALL PROPER PERMTIS & INSPECTIONS.
- ALL CONTRACTORS WILL BE RESPONSIBLE FOR ANY ADDITIONAL PLANS, SPECIFICATIONS AND/OR DETAILS THAT ARE REQUIRED BY CITIES OR COUNTY AT THE TIME OF ATTAINING PERMITS.
- ALL THE GENERAL INFORMATION CONTAINED WITHIN **SECTION 23 GENERAL NOTES** OF THE CONTRACTOR'S GENERAL SPECIFICATIONS MANUAL.
- PROVIDE AND INSTALL PROJECTS SIGNS AT EACH CONSTRUCTION SITE
- CONTRACTOR IS RESPONSIBLE FOR SUPPLYING PORT A POTTY TRHOUGHOUT CONSTRUCTION PROCESS ***(demo to final inspection)***
- SHOWER ENTRANCES TO BE 36" WIDE
- ALL UCP HOMES MUST COMPLY WITH TEXAS GOVERNMENT CODE §2306.514

THE HOMEOWNER SHALL BE RESPONSIBLE FOR

- REMOVE AND DISPOSE OF ALL DEBRIS ON SITE BEFORE THE BEGINNING OFCONSTRUCTION, INCLUDING BUT NOT LIMITED TO TIRES, ABANDONEDVEHICLES, OLD LUMBER, ETC.
- MAKING NECESSARY DEPOSITS FOR ANY UTILITIES TO BE CONNECTED TO THE NEW DWELLING.

I HAVE READ AND FULLY AGREE WITH THE WRITE-UP AND PLANS AS PRESENTED TO ME.

NAME OF APPLICANT

ACORD INSURANCE BINDER

DATE 11/07/2013

THIS BINDER IS A TEMPORARY INSURANCE CONTRACT, SUBJECT TO THE CONDITIONS SHOWN ON THE REVERSE SIDE OF THIS FORM.

PRODUCER
PHONE (A/C, No, Ext): 956-487-5555
FAX (A/C, No): 956-487-2451

Garza Insurance Agency
414 E Main Street
Rio Grande City, TX 78582

CODE: SUB CODE:
AGENCY CUSTOMER ID:

INSURED
ARGO CONSTRUCTION
ARNOLDO GONZALEZ
814 CIMARRON DR.
MISSION, TX 78572

COMPANY: ESSEX INSURANCE COMPANY
BINDER #:

EFFECTIVE DATE: 11/07/2013 TIME: ☐ AM ☐ PM
EXPIRATION DATE: 11/07/2014 TIME: ☐ 12:01 AM ☐ NOON

☐ THIS BINDER IS ISSUED TO EXTEND COVERAGE IN THE ABOVE NAMED COMPANY PER EXPIRING POLICY #:

DESCRIPTION OF OPERATIONS/VEHICLES/PROPERTY (Including Location)
814 CIMARRON DR.
MISSION, TX 78572

COVERAGES

TYPE OF INSURANCE	COVERAGE/FORMS	LIMITS		
		DEDUCTIBLE	COINS %	AMOUNT
PROPERTY CAUSES OF LOSS ☐ BASIC ☐ BROAD ☐ SPEC				
GENERAL LIABILITY ✓ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS MADE ✓ OCCUR	ESSEX INSURANCE COMPANY	EACH OCCURRENCE		$ 300,000
		DAMAGE TO RENTED PREMISES		$ 100,000
		MED EXP (Any one person)		$ 5,000
		PERSONAL & ADV INJURY		$ 500,000
		GENERAL AGGREGATE		$ 500,000
	RETRO DATE FOR CLAIMS MADE:	PRODUCTS - COMP/OP AGG		$ 500,000
AUTOMOBILE LIABILITY ☐ ANY AUTO ☐ ALL OWNED AUTOS ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ☐ NON-OWNED AUTOS		COMBINED SINGLE LIMIT		$
		BODILY INJURY (Per person)		$
		BODILY INJURY (Per accident)		$
		PROPERTY DAMAGE		$
		MEDICAL PAYMENTS		$
		PERSONAL INJURY PROT		$
		UNINSURED MOTORIST		$
				$
AUTO PHYSICAL DAMAGE DEDUCTIBLE ☐ COLLISION: ☐ OTHER THAN COL:	☐ ALL VEHICLES ☐ SCHEDULED VEHICLES	☐ ACTUAL CASH VALUE ☐ STATED AMOUNT ☐ OTHER		$
GARAGE LIABILITY ☐ ANY AUTO		AUTO ONLY - EA ACCIDENT		$
		OTHER THAN AUTO ONLY: EACH ACCIDENT		$
		AGGREGATE		$
EXCESS LIABILITY ☐ UMBRELLA FORM ☐ OTHER THAN UMBRELLA FORM		EACH OCCURRENCE		$
		AGGREGATE		$
	RETRO DATE FOR CLAIMS MADE:	SELF-INSURED RETENTION		$
WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY		☐ WC STATUTORY LIMITS		
		E.L. EACH ACCIDENT		$
		E.L. DISEASE - EA EMPLOYEE		$
		E.L. DISEASE - POLICY LIMIT		$
SPECIAL CONDITIONS/ OTHER COVERAGES		FEES		$
		TAXES		$
		ESTIMATED TOTAL PREMIUM		$

NAME & ADDRESS

☐ MORTGAGEE ☐ ADDITIONAL INSURED
☐ LOSS PAYEE

LOAN #

AUTHORIZED REPRESENTATIVE

© ACORD CORPORATION 1993

ACORD™ INSURANCE BINDER

DATE 11/15/2013

THIS BINDER IS A TEMPORARY INSURANCE CONTRACT, SUBJECT TO THE CONDITIONS SHOWN ON THE REVERSE SIDE OF THIS FORM.

PRODUCER		COMPANY	BINDER #
PHONE (A/C, No, Ext): 956-487-5555 FAX (A/C, No): 956-487-2451		ESSEX INSURANCE COMPANY	

Garza Insurance Agency
414 E Main Street
Rio Grande City, TX 78582

EFFECTIVE DATE	TIME		EXPIRATION DATE	TIME	
11/07/2013		AM / PM	11/07/2014	12:01 AM / NOON	

☐ THIS BINDER IS ISSUED TO EXTEND COVERAGE IN THE ABOVE NAMED COMPANY PER EXPIRING POLICY #:

CODE: SUB CODE:

AGENCY CUSTOMER ID:

INSURED
ARGO CONSTRUCTION
ARNOLDO GONZALEZ
814 CIMARRON DR.
MISSION, TX 78572

DESCRIPTION OF OPERATIONS/VEHICLES/PROPERTY (Including Location)
814 CIMARRON DR.
MISSION, TX 78572

COVERAGES

TYPE OF INSURANCE	COVERAGE/FORMS	LIMITS: DEDUCTIBLE	COINS %	AMOUNT
PROPERTY CAUSES OF LOSS ☐ BASIC ☐ BROAD ☐ SPEC				
GENERAL LIABILITY ✓ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS MADE ✓ OCCUR	ESSEX INSURANCE COMPANY POLICY # 3DQ7137	EACH OCCURRENCE		$ 300,000
		DAMAGE TO RENTED PREMISES		$ 100,000
		MED EXP (Any one person)		$ 5,000
		PERSONAL & ADV INJURY		$ 500,000
		GENERAL AGGREGATE		$ 500,000
	RETRO DATE FOR CLAIMS MADE:	PRODUCTS - COMP/OP AGG		$ 500,000
AUTOMOBILE LIABILITY ☐ ANY AUTO ☐ ALL OWNED AUTOS ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ☐ NON-OWNED AUTOS		COMBINED SINGLE LIMIT		$
		BODILY INJURY (Per person)		$
		BODILY INJURY (Per accident)		$
		PROPERTY DAMAGE		$
		MEDICAL PAYMENTS		$
		PERSONAL INJURY PROT		$
		UNINSURED MOTORIST		$
				$
AUTO PHYSICAL DAMAGE DEDUCTIBLE ☐ ALL VEHICLES ☐ SCHEDULED VEHICLES ☐ COLLISION: ☐ OTHER THAN COL:		☐ ACTUAL CASH VALUE ☐ STATED AMOUNT ☐ OTHER		$
GARAGE LIABILITY ☐ ANY AUTO		AUTO ONLY - EA ACCIDENT		$
		OTHER THAN AUTO ONLY: EACH ACCIDENT		$
		AGGREGATE		$
EXCESS LIABILITY ☐ UMBRELLA FORM ☐ OTHER THAN UMBRELLA FORM	RETRO DATE FOR CLAIMS MADE:	EACH OCCURRENCE		$
		AGGREGATE		$
		SELF-INSURED RETENTION		$
WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY		☐ WC STATUTORY LIMITS		
		E.L. EACH ACCIDENT		$
		E.L. DISEASE - EA EMPLOYEE		$
		E.L. DISEASE - POLICY LIMIT		$
SPECIAL CONDITIONS/ OTHER COVERAGES		FEES		$
		TAXES		$
		ESTIMATED TOTAL PREMIUM		$

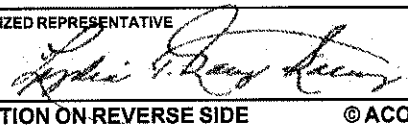
NAME & ADDRESS

HIDALGO COUNTY
URBAN COUNTY PROGRAM
3304 W. ALBERTA RD.
EDINBURG TX, 78539

☐ MORTGAGEE ✓ ADDITIONAL INSURED
☐ LOSS PAYEE

LOAN #

AUTHORIZED REPRESENTATIVE



© ACORD CORPORATION 1993

AI-41771 **Urban County 11. C.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: LUPITA V. GARCIA **Submitted By:** Olga Lerma, URBAN COUNTY

Department: URBAN COUNTY

Information

CAPTION

Requesting approval of a program amendment for Hidalgo County Urban County Program for the City of Palmview, the proposed program amendment is for the Fiscal Year 25 (2012) work plan. The Program Amendment will include an additional street improvements project to allow for the completion of the Bentsen Palm Drive Bridge Project. The existing street improvement project will also be completed.

BACKGROUND

A Public Hearing was held on November 5, 2013 at 6:00 P.M. at the Palmview City Hall and citizen participation requirements have been met. The city of Palmview proposed that the Bentsen Palm Drive Bridge Project be added to the existing workplan for fiscal year 25 (2012) to allow for additional funds in the amount of $150,000.00 be utilized for the completion of the project's construction phase. (See attached copy of Public Hearing Notice and city minutes).

Attachments

City of Palmview proposed amendment

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/12/2013 03:15 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Olga Lerma Started On: 11/12/2013 02:34 PM

Final Approval Date: 11/15/2013

CITY OF PALMVIEW

Mayor
Jorge G. Garcia

Mayor Pro-Tem
Gerardo Perez

Councilmen
Noe Ruben Munoz
Ricardo Villarreal
Joel Garcia Jr.

Councilwomen
Graciela S. Flores

City Manager
Johnn V. Alaniz

Asst. Manager
Ramon Segovia

City Secretary
Aida Rivas

To: Guadalupe Garcia, UCP Coordinator

From: Mrs. Aida Rivas, City Secretary

Date: November 6, 2013

Re: November 5, 2013 Minutes

I, Aida Rivas, City Secretary for the City of Palmview attest that this are the minutes for the November 5, 2013 Urban County Program Public Hearing. This minutes will be approved by the council members on our next scheduled meeting set for November 19, 2013.

Aida Rivas
Palmview City Secretary

PUBLIC HEARING NOTICE
CITY OF PALMVIEW

Published On: October 31, 2013

PROGRAM AMENDMENT

In compliance with Community Development Block Grant (CDBG) requirements, **City of Palmview** will conduct a Public Hearing to solicit input from interested parties on the City's proposed program amendment to its Urban County Program, **Year 25 (2012).**

En cumplimiento de los requisitos del Programa de Desarrollo Comunitario de Vecas del Bloque del Condado de Hidalgo, (CDBG), Ciudad de Palmview llevará a cabo una audiencia pública para solicitar la opinión de las partes interesadas en la propuesta de modificación del programa de la Ciudad para su Programa Urbano del Condado de Hidalgo, año 25 (2012).

The Public Hearing will be held on, **Tuesday, November 5th, 2013 at 6:00 P.M. at the City of Palmview City Hall located at 400 West Veterans Blvd., Palmview Texas 78572.**

*La Audiencia Pública se llevará a cabo en, **Martes, 5 de Noviembre año 2013** a las **6:00 PM** en la **ciudad de Palmview City Hall ubicado en 400 West Veterans Blvd. Palmview, Texas 78572.***

Existing	Year 25 (2012) Activities	Proposed
$276,355.42	Street Improvements	$ 276,355.42

The proposed amendment will decrease the project description for the existing Abram Road and Edinburg Canal project. The city completed a segment of the project in conjunction with the Hidalgo County Irrigation District #1, therefore, allowing for surplus funds. The proposed program amendment will include additional street improvements to the already environmentally cleared Bentsen Palm Drive Bridge Project to include the removal and rehabilitation of existing concrete rail section and existing concrete wing walls, coffer dams, new concrete rip-rap, rehabilitation of existing piles, payment of advertisement, material testing, engineering fees, and related appurtenances as they pertain to project completion within the same general vicinity. Funding needed is an estimated $150,000.00 from the existing budget line item. The remaining balance will continue to fund the Abram road project for the pending items as necessary for project completion.

La propuesta enmienda disminuirá la descripción del proyecto para el vigente carretera Abram y el proyecto de Edinburg Canal. El proyecto fue parcialmente completo por la ciudad en conjunto con el Distrito de Riego del Condado de Hidalgo # 1, por lo tanto, teniendo en cuenta los fondos excedentes. La modificación del programa propuesto incluirá mejoras de calles adicionales al Proyecto de Puente de la calle Bentsen Palm Drive, ya despejado el medio ambiente para incluir la eliminación y rehabilitación de sección de carril concreto existente y las paredes laterales de concreto existentes, ataguías, el concreto nuevo rip-rap, la rehabilitación de las pilas existentes, el pago de la publicidad, ensayos de materiales, honorarios de ingeniería y sus accesorios relacionados a la finalización del proyecto que pertenece dentro de la misma área general. Los fondos que se necesitan es un estimado de $ 150,000.00 de la linea de presupuesto existente. El saldo restante continuará financiando el proyecto de carretera Abram de los puntos pendientes que sean necesarias para la realización del proyecto.

Accommodations for individuals with handicaps shall be provided upon request.
Alojamiento para las personas con discapacidad se puede proporcionar a petición.

The public hearing will be conducted in Spanish upon request.
Las presentaciones se haran en espanol para aquellas personas que asi lo deseen.

For more information, please come by our office at: 3304 West Alberta Road, Edinburg, Texas 78539 or call: (956) 787-8127.
Para obtener más información, por favor venga a nuestra oficina localizada:
3304 West Alberta Road., Edinburg, Texas 78539 o por llamada
al (956) 787-8127.

Written comments may be forwarded to:
Los comentarios escritos pueden ser enviados a:

Mayor/Alcalde: Jorge Garcia
City of Palmview
400 West Veternas Blvd.
Palmview, Texas 78572
(956) 581-7411

NOTICE OF A SPECIAL MEETING
PALMVIEW CITY COUNCIL
NOVEMBER 5, 2013

MEMBERS PRESENT

Ricardo Villarreal,	Mayor Pro-Tem
Graciela S. Flores,	Commissioner
Jerry Perez,	Commissioner
Noe R. Munoz,	Commissioner
Joel Garcia, Jr.,	Commissioner

MEMBERS ABSENT

Jorge G. Garcia,	Mayor

STAFF PRESENT
Ramon Segovia, City Manager
Aida Rivas, City Secretary
David Nacanceno, Code Enforcement Officer

OTHERS PRESENT
Lupita Razo
Mr. & Mrs. Valente Alaniz
Mr. & Mrs. Faustino Estrada
Juan Pena
Ricardo Rodriguez
Andie Figueroa
Luis Manuel Singleterry

I. Call to Order

Being a quorum present Mayor Pro-Tem Villarreal called the meeting to order at 6:00 p.m.

II. Invocation And Pledge of Allegiance

Mayor Pro-Tem Villarreal recited the invocation and proceeded with the pledge of allegiance.

III. Certify Posting of Agenda

Mrs. Rivas certified that the agenda had been posted 72 hours prior to the meeting.

IV. Consideration And Possible Action Items.

1. **Program Amendment Public Hearing To Satisfy Urban County Program Funding Requirements.**

   a) opening of public hearing
   b) Public Comments
   c) Closing of Public Hearing

Commissioner Perez made the motion to open the public hearing. Commissioner Garcia seconded the motion. Motion carried. (Allowing ten minutes for any public comments)

Commissioner Garcia made the motion to close public hearing. Commissioner Flores seconded the Motion. Motion carried.

No public comments or concerns were expressed

2. **Request For Approval Of Program Amendment As Presented To Decrease The Abram Road Street Improvements by $150,000.00 and Include Additional Street Improvements To Bentsen Palm Drive Bridge Project, Allocating The Additional Funding For The Completion Of Bridge Project.**

   Commissioner Munoz made a motion to approve items one (1) and two (2) and seconded by Commissioner Garcia. Motion carried.

3. **Consideration and Possible Action To Accept The Resignation Of Municipal Judge Rene Flores.**

   Commissioner Perez made the motion to accept the municipal judge resignation for Judge Rene Flores. Commissioner Munoz seconded the motion. Motion carried.

4. **Consideration And Possible Action To Appoint A New Municipal Judge For The City Of Palmview.**

   Commissioner Perez made the motion to appoint Johnn V. Alaniz as municipal judge. Commissioner Flores seconded the motion. Motion carried.

V. Public Comments

Johnn V. Alaniz approached the bench and thanked the board for his appointment as municipal judge.

VI. Adjournment

Being no further business to discuss, Commissioner Perez made the motion to adjourn meeting, Commissioner Munoz seconded the motion. Motion carried.

Mayor Jorge G. Garcia

Attest:

Aida Rivas
City Secretary

AI-41773 **Urban County 11. D.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: LUPITA V. GARCIA **Submitted By:** Olga Lerma, URBAN COUNTY

Department: URBAN COUNTY

Information

CAPTION

1. Requesting exemption from competitive bidding requirements under the Texas Local Government Code 262.024 (a)(4) for professional engineering services;

2. Presentation of the scoring grid for the purposes of ranking by CC of at least three (3) engineering firms from the County's approved "pool" as graded and evaluated by the City of San Juan, Urban County Program, and Hidalgo County Purchasing Department, in connection with and funded through Hidalgo County Urban County Program Year 26 (2013) San Juan Street Improvement funds.

Professional Service Firm	Grade	Ranked
Halff Associates, Inc.	95.34%	1
Cruz-Hogan Consultants, Inc.	94.34%	2
Javier Hinojosa Engineers	90.67%	3

3. Authority to negotiate a professional engineering service contract with the No. 1 ranked firm of for the provision of architectural services for an Urban County Program Year 26 (2013) San Juan Street Improvements project.

BACKGROUND

The three (3) architectural firms rated from the County's approved "pool" are: Javier Hinojosa Engineering, Halff Associates, Inc., and Cruz-Hogan Consultants, Inc. for the Street Improvements project- the project includes the lowering of a canal crossing and installation of drainage boxes, widening the street section of the crossing and construction of sidewalks and related appurtenances.

Funds Available: **$ 274,0002.00- 2013 Street Improvements**

Attachments

San Juan Street Improvment funds

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/12/2013 03:15 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Olga Lerma Started On: 11/12/2013 02:49 PM

Final Approval Date: 11/15/2013

San Juanita Sanchez
MAYOR
Armando Garza, Jr.
MAYOR PRO-TEM
Roberto "Bob" Garza
COMMISSIONER
Luis Ramos
COMMISSIONER
Eddie Suarez
COMMISSIONER

November 8, 2013

Guadalupe V. Garcia
UCP Coordinator II
Hidalgo County Urban County Program
3304 West Alberta Road
Edinburg, Texas 78539

RE: San Juan – 2013 Street Improvements

Dear Ms. Garcia:

Attached are three (3) Evaluation Criteria Forms for the procurement of Professional Engineering Services for the above project. As previously noted, the forms were completed for Halff Associates, Inc., Cruz-Hogan Consultants, Inc, and Javier Hinojosa Engineering.

Please refer the matter to the Hidalgo County Commissioners' Court to complete the selection process. I hereby request that the County proceed to negotiate a professional engineering services contract with the highest rated firm.

Should you have any questions, you may call me at (956)223-2206. I will be glad to assist you.

Sincerely,

Juan J. Rodriguez
City Manager

709 S. Nebraska Ave. • San Juan, Texas 78589-2649
Ph. (956)223-2206 ·Fax: (956) 223-2604

San Juan
Engineering Services
Street Improvements
Years 26 (2013)
Grading-Ranking Grid

Criteria	Halff Associates, Inc.			Cruz-Hogan Consultants, Inc.			Javier Hinojosa Engineering		
	Grader 1	Grader 2	Grader 3	Grader 1	Grader 2	Grader 3	Grader 1	Grader 2	Grader 3
Professional Qualifications of Team	19	25	20	19	25	15	18	25	20
Experience of Project Team	24	20	22	24	20	22	20	20	18
Experience/ Availability of Project Manager	19	20	20	19	20	20	18	20	20
Understanding of Project	24	22	25	25	23	25	21	21	25
Familiarity with Applicable Rules & Regulations	9	7	10	9	7	10	9	7	10
TOTALS	95	94	97	96	95	92	86	93	93
AVERAGES	286 % 3 = 95.34%			283 % 3 = 94.34%			272 % 3 = 90.67%		
RATING	1			2			3		

EVALUATION CRITERIA
PROFESSIONAL ENGINEERING SERVICES POOL
RFQ No. 2013-002-12-05-YZV

NOV - 7 2013

Selection Criteria	Points	Score
1. Professional Qualifications of Project Team (20 pts maximum)		
➢ Registered and licenses to practice in the State of Texas (i.e. certifications/registrations and other pertinent information that demonstrates their qualifications to perform the contract)	10	10
➢ Provides information on proposed professional Team qualifications to perform various types of contracts	5	3
➢ Team members identified in the organizational chart.	5	5
Comments/Rationale For Points: Team members are well versed in general civil engineering work, however, have performed limited design work in light of the proposed scope of work.		TOTAL 18
2. Experience of Project Team/Ability to Commit Resources (25 pts maximum)		
➢ Designate engineering staff members in an appendix form	5	4
➢ Identifying the project composition, project leadership, reporting responsibilities	10	7
➢ Experience of engineering staff to completely and efficiently perform the work.	10	9
➢		
Comments/Rationale For Points: Project team appears to have limited experience in drainage design and specifications.		TOTAL 20
3. Methodology/Experience/Availability of Project Manager (20 pts maximum)		
➢ Firm's approach to the methodology and management to the scope of services for the project(s).	5	4
➢ Must be a Professional Engineer registered in the State of Texas and must be included in Appendix	5	5
➢ Project Manager must have five (5) types of projects plus be 85-100 % involvement with technical development of project	10	9
Comments/Rationale For Points: Although the project engineer is well versed in all phases of engineering, it appears that he may not be as available do to other demands imposed by others.		TOTAL 18
4. Understanding of Project/Similar Projects (25 pts maximum)		
➢ Demonstrate and understanding of the scope of services	5	4
➢ Address appropriate Federal/ State/ Local regulations and policies. Knowledge and experience of working with multiple entities, counties, cities, etc.	5	5
➢ Identify information to be gathered or obtained/proposed approach to complete the scope	5	4
➢ RFQ responsiveness. Response is clear, well organized, easy to evaluate, and appropriate to this RFQ.	5	4
➢ Reference Information including contact persons and telephone numbers.	5	4
Comments/Rationale For Points: Expect that the firm will have a good grasp of the project as it is not very complex.		TOTAL 21
5. Familiarity with Applicable Rules and Regulations (10 pts maximum)		
➢ Indicate passed experience of the proposed Firm knowledge of governmental regulations, appropriate codes, guidelines, professional standards and policies	5	5
➢ Must contain a narrative that outlines applicable regulations, guideline, standards, and policies	5	4
Comments/Rationale For Points: Expect that firm will comply with all requirements.		TOTAL 9
Total Score		86

Firm/Participant's Name: Javier Hinojosa Engineering

Evaluator: _____ Department: Urban County Program

Project Name: 2013 San Juan Street Improvements Date: November 7, 2013

NOV - 7 2013

EVALUATION CRITERIA
PROFESSIONAL ENGINEERING SERVICES POOL
RFQ No. 2013-002-12-05-YZV

Selection Criteria	Points	Score
1. Professional Qualifications of Project Team (20 pts maximum)		
➢ Registered and licenses to practice in the State of Texas (i.e. certifications/registrations and other pertinent information that demonstrates their qualifications to perform the contract)	10	10
➢ Provides information on proposed professional Team qualifications to perform various types of contracts	5	4
➢ Team members identified in the organizational chart.	5	5
Comments/Rationale For Points: Team members are well versed in general civil engineering work.		TOTAL 19
2. Experience of Project Team/Ability to Commit Resources (25 pts maximum)		
➢ Designate engineering staff members in an appendix form	5	5
➢ Identifying the project composition, project leadership, reporting responsibilities	10	9
➢ Experience of engineering staff to completely and efficiently perform the work.	10	10
➢		
Comments/Rationale For Points: Engineering firm has several engineers locally and also available through other branches within the state. The firm appears to have adequate experience		TOTAL 24
3. Methodology/Experience/Availability of Project Manager (20 pts maximum)		
➢ Firm's approach to the methodology and management to the scope of services for the project(s).	5	5
➢ Must be a Professional Engineer registered in the State of Texas and must be included in Appendix	5	5
➢ Project Manager must have five (5) types of projects plus be 85-100 % involvement with technical development of project	10	9
Comments/Rationale For Points: Unlike most firms, the firm will commit two engineers to the project.		TOTAL 19
4. Understanding of Project/Similar Projects (25 pts maximum)		
➢ Demonstrate and understanding of the scope of services	5	5
➢ Address appropriate Federal/ State/ Local regulations and policies. Knowledge and experience of working with multiple entities, counties, cities, etc.	5	5
➢ Identify information to be gathered or obtained/proposed approach to complete the scope	5	4
➢ RFQ responsiveness. Response is clear, well organized, easy to evaluate, and appropriate to this RFQ.	5	5
➢ Reference Information including contact persons and telephone numbers.	5	5
Comments/Rationale For Points: Expect that the firm will have a good grasp of the project as it is not very complex.		TOTAL 24
5. Familiarity with Applicable Rules and Regulations (10 pts maximum)		
➢ Indicate passed experience of the proposed Firm knowledge of governmental regulations, appropriate codes, guidelines, professional standards and policies	5	5
➢ Must contain a narrative that outlines applicable regulations, guideline, standards, and policies	5	4
Comments/Rationale For Points: Expect that firm will comply with all requirements.		TOTAL 9
Total Score		95

Firm/Participant's Name: Halff Associates, Inc.

Evaluator: _____ Department: Urban County Program

Project Name: 2013 San Juan Street Improvements Date: November 7, 2013

NOV -1 2013

EVALUATION CRITERIA
PROFESSIONAL ENGINEERING SERVICES POOL
RFQ No. 2013-002-12-05-YZV

Selection Criteria	Points	Score
1. Professional Qualifications of Project Team (20 pts maximum)		
➢ Registered and licenses to practice in the State of Texas (i.e. certifications/registrations and other pertinent information that demonstrates their qualifications to perform the contract)	10	10
➢ Provides information on proposed professional Team qualifications to perform various types of contracts	5	5
➢ Team members identified in the organizational chart.	5	4
Comments/Rationale For Points: The firm has undertaken similar design in the past. The firm should have adequate expertise to understand the proposed project		TOTAL 19
2. Experience of Project Team/Ability to Commit Resources (25 pts maximum)		
➢ Designate engineering staff members in an appendix form	5	5
➢ Identifying the project composition, project leadership, reporting responsibilities	10	9
➢ Experience of engineering staff to completely and efficiently perform the work.	10	10
➢		
Comments/Rationale For Points: Firm team members have had experience with similar projects. The firm has worked on other projects in San Juan that involve the same scope of work.		TOTAL 24
3. Methodology/Experience/Availability of Project Manager (20 pts maximum)		
➢ Firm's approach to the methodology and management to the scope of services for the project(s).	5	5
➢ Must be a Professional Engineer registered in the State of Texas and must be included in Appendix	5	5
➢ Project Manager must have five (5) types of projects plus be 85-100 % involvement with technical development of project	10	9
Comments/Rationale For Points: Project Manager takes a "hand on" approach and in the past has shown interest by not over delegating to subordinates. In particular, tasks that are critical.		TOTAL 19
4. Understanding of Project/Similar Projects (25 pts maximum)		
➢ Demonstrate and understanding of the scope of services	5	5
➢ Address appropriate Federal/ State/ Local regulations and policies. Knowledge and experience of working with multiple entities, counties, cities, etc.	5	5
➢ Identify information to be gathered or obtained/proposed approach to complete the scope	5	5
➢ RFQ responsiveness. Response is clear, well organized, easy to evaluate, and appropriate to this RFQ.	5	5
➢ Reference Information including contact persons and telephone numbers.	5	5
Comments/Rationale For Points: The firm in its capacity as City Engineer recently completed design of identical infrastructure. The firm is very aware of the needs for this project.		TOTAL 25
5. Familiarity with Applicable Rules and Regulations (10 pts maximum)		
➢ Indicate passed experience of the proposed Firm knowledge of governmental regulations, appropriate codes, guidelines, professional standards and policies	5	5
➢ Must contain a narrative that outlines applicable regulations, guideline, standards, and policies	5	4
Comments/Rationale For Points: Expect that the firm will comply with all applicable rules.		TOTAL 9
Total Score		96

Firm/Participant's Name: Cruz-Hogan Consultants, Inc.

Evaluator: _____ Department: Urban County Program

Project Name: 2013 San Juan Street Improvements Date: November 7, 2013

EXHIBIT "B"

Evaluation Criteria and Form

Hidalgo County

(Including all funding sources, programs, and entities)

"Professional Engineering Services-Geotechnical and Construction Materials Testing Pool"

RFQ NO: 2013-003-12-05-SMA

SELECTION CRITERIA	POINTS	SCORE
1) STAFFING OF PROJECT TEAM -- (25 points maximum)		
➢ Provide information on their proposed professional team members	10	10
➢ Experience in performing various types of contracts for counties, cities or other clients as stated	10	10
➢ A list of various projects for comparative purposes	5	5
Comments/Rationale for points: Meets All Criteria	TOTAL	25
2) EXPERIENCE OF PROJECT TEAM/ABILITY TO COMMIT RESOURCES (20 points maximum)		
➢ Designate experienced engineering staff to efficiently perform the work.	10	10
➢ Identify the project team composition, project leadership, reporting responsibilities etc.	10	10
Comments/Rationale for points: Meets all criteria	TOTAL	20
3) METHODOLOGY (20 points maximum)		
➢ Knowledge, experience, and the equipment to provide the anticipated services	10	10
➢ Management Plan for the anticipated services that will be highly responsive to the needs and interests of the County	10	10
Comments/Rationale for points: Meets all criteria	TOTAL	20
4) UNDERSTANDING OF PROJECT/SIMILAR PROJECTS (25) points maximum)		
➢ Demonstrate an understanding of the scope of services	10	10
➢ Address appropriate Federal/State/Local regulations and policies. Knowledge and experience of working with multiple entities, counties, cities, etc.	5	4
➢ Identify information to be gathered or obtained/proposed approach to complete the scope	5	5
➢ RFQ responsiveness. Response is clear, well organized, easy to evaluate and appropriate to this RFQ	5	4
Comments/Rationale for points: Meets most criteria, but needs to address Appropriate Federal/State & Local Regulations	TOTAL	23
5) FAMILIARITY WITH APPLICABLE RULES and REGULATIONS (10 points maximum))		
➢ Indicate passed experience of the proposed Firm knowledge of governmental regulations, appropriate codes, guidelines, professional standards and policies	5	4
➢ Must contain a narrative that outlines applicable regulations, guidelines, standard and polices	5	3
Comments/Rationale for points: Does NOT Address Experience with Federal/State & Local Regulations but their work experience indicates their knowledge	TOTAL	7
	TOTAL SCORE:	95

Project Name:: 2013 San Juan Street Improvements

Department:: Urban County Program

Firm/Participant Name: Cruz-Hogan Consultants, Inc.

Evaluator: Antonio BARCO Date: 10/31/13

EXHIBIT "B"

Evaluation Criteria and Form

Hidalgo County

(Including all funding sources, programs, and entities)

"Professional Engineering Services-Geotechnical and Construction Materials Testing Pool"

RFQ NO: 2013-003-12-05-SMA

SELECTION CRITERIA	POINTS	SCORE
1) STAFFING OF PROJECT TEAM -- (25 points maximum)		
➢ Provide information on their proposed professional team members	10	10
➢ Experience in performing various types of contracts for counties, cities or other clients as stated	10	10
➢ A list of various projects for comparative purposes	5	5
Comments/Rationale for points: Meets all criteria	TOTAL	25
2) EXPERIENCE OF PROJECT TEAM/ABILITY TO COMMIT RESOURCES (20 points maximum)		
➢ Designate experienced engineering staff to efficiently perform the work.	10	10
➢ Identify the project team composition, project leadership, reporting responsibilities etc.	10	10
Comments/Rationale for points: Meets all criteria	TOTAL	20
3) METHODOLOGY (20 points maximum)		
➢ Knowledge, experience, and the equipment to provide the anticipated services	10	10
➢ Management Plan for the anticipated services that will be highly responsive to the needs and interests of the County	10	10
Comments/Rationale for points: Meets all criteria	TOTAL	20
4) UNDERSTANDING OF PROJECT/SIMILAR PROJECTS (25) points maximum)		
➢ Demonstrate an understanding of the scope of services	10	10
➢ Address appropriate Federal/State/Local regulations and policies. Knowledge and experience of working with multiple entities, counties, cities, etc.	5	3
➢ Identify information to be gathered or obtained/proposed approach to complete the scope	5	5
➢ RFQ responsiveness. Response is clear, well organized, easy to evaluate and appropriate to this RFQ	5	4
Comments/Rationale for points: Meets most criteria, but needs to identify experience with Federal/State & Local Regulations and responsiveness	TOTAL	22
5) FAMILIARITY WITH APPLICABLE RULES and REGULATIONS (10 points maximum))		
➢ Indicate passed experience of the proposed Firm knowledge of governmental regulations, appropriate codes, guidelines, professional standards and policies	5	4
➢ Must contain a narrative that outlines applicable regulations, guidelines, standard and polices	5	3
Comments/Rationale for points: Firm is knowledgable of Federal State & Local Regulations but did not address and does not contain narrative	TOTAL	7
	TOTAL SCORE:	94

Project Name:: 2013 San Juan Street Improvements

Department:: Urban County Program

Firm/Participant Name: Halff Associates, Inc.

Evaluator: Antonio Barco Date: 10/31/13

EXHIBIT "B"

Evaluation Criteria and Form

Hidalgo County

(Including all funding sources, programs, and entities)

"Professional Engineering Services-Geotechnical and Construction Materials Testing Pool"

RFQ NO: 2013-003-12-05-SMA

SELECTION CRITERIA	POINTS	SCORE
1) STAFFING OF PROJECT TEAM -- (25 points maximum)		
➢ Provide information on their proposed professional team members	10	10
➢ Experience in performing various types of contracts for counties, cities or other clients as stated	10	10
➢ A list of various projects for comparative purposes	5	5
Comments/Rationale for points: Meets all criteria	TOTAL	25
2) EXPERIENCE OF PROJECT TEAM/ABILITY TO COMMIT RESOURCES (20 points maximum)		
➢ Designate experienced engineering staff to efficiently perform the work.	10	10
➢ Identify the project team composition, project leadership, reporting responsibilities etc.	10	10
Comments/Rationale for points: Meets all criteria	TOTAL	20
3) METHODOLOGY (20 points maximum)		
➢ Knowledge, experience, and the equipment to provide the anticipated services	10	10
➢ Management Plan for the anticipated services that will be highly responsive to the needs and interests of the County	10	10
Comments/Rationale for points: Meets all criteria	TOTAL	20
4) UNDERSTANDING OF PROJECT/SIMILAR PROJECTS (25) points maximum)		
➢ Demonstrate an understanding of the scope of services	10	10
➢ Address appropriate Federal/State/Local regulations and policies. Knowledge and experience of working with multiple entities, counties, cities, etc.	5	3
➢ Identify information to be gathered or obtained/proposed approach to complete the scope	5	5
➢ RFQ responsiveness. Response is clear, well organized, easy to evaluate and appropriate to this RFQ	5	3
Comments/Rationale for points: Meets most criteria, but needs to improve on addressing Federal/State & Local regulations and responsiveness	TOTAL	21 B
5) FAMILIARITY WITH APPLICABLE RULES and REGULATIONS (10 points maximum))		
➢ Indicate passed experience of the proposed Firm knowledge of governmental regulations, appropriate codes, guidelines, professional standards and policies	5	4
➢ Must contain a narrative that outlines applicable regulations, guidelines, standard and polices	5	3
Comments/Rationale for points: Work indicates that firm is knowledgeable of governmental Regulations, but address knowledge & Experience	TOTAL	7
	TOTAL SCORE:	93

Project Name:: 2013 San Juan Street Improvements

Department:: Urban County Program

Firm/Participant:Name: Javier Hinojosa Engineering

Evaluator: ANTONIO BARCO Date: Oct. 31, 2013

EVALUATION CRITERIA
PROFESSIONAL ENGINEERING SERVICES POOL
RFQ No. 2013-002-12-05-YZV

Selection Criteria	Points	Score
1. Professional Qualifications of Project Team (20 pts maximum)		
➢ Registered and licenses to practice in the State of Texas (i.e. certifications/registrations and other pertinent information that demonstrates their qualifications to perform the contract)	10	5
➢ Provides information on proposed professional Team qualifications to perform various types of contracts	5	5
➢ Team members identified in the organizational chart.	5	5
Comments/Rationale For Points: Meets Criteria as requested; however no certifications provided for staff		TOTAL 15
2. Experience of Project Team/Ability to Commit Resources (25 pts maximum)		
➢ Designate engineering staff members in an appendix form	5	2
➢ Identifying the project composition, project leadership, reporting responsibilities	10	10
➢ Experience of engineering staff to completely and efficiently perform the work.	10	10
➢		
Comments/Rationale For Points: No appendix entry as requested, good references on staff & reporting responsibilities		TOTAL 22
3. Methodology/Experience/Availability of Project Manager (20 pts maximum)		
➢ Firm's approach to the methodology and management to the scope of services for the project(s).	5	5
➢ Must be a Professional Engineer registered in the State of Texas and must be included in Appendix	5	5
➢ Project Manager must have five (5) types of projects plus be 85-100 % involvement with technical development of project	10	10
Comments/Rationale For Points: Meets Criteria		TOTAL 20
4. Understanding of Project/Similar Projects (25 pts maximum)		
➢ Demonstrate and understanding of the scope of services	5	5
➢ Address appropriate Federal/ State/ Local regulations and policies. Knowledge and experience of working with multiple entities, counties, cities, etc.	5	5
➢ Identify information to be gathered or obtained/proposed approach to complete the scope	5	5
➢ RFQ responsiveness. Response is clear, well organized, easy to evaluate, and appropriate to this RFQ.	5	5
➢ Reference information including contact persons and telephone numbers.	5	5
Comments/Rationale For Points: Meets Criteria		TOTAL 25
5. Familiarity with Applicable Rules and Regulations (10 pts maximum)		
➢ Indicate passed experience of the proposed Firm knowledge of governmental regulations, appropriate codes, guidelines, professional standards and policies	5	5
➢ Must contain a narrative that outlines applicable regulations, guideline, standards, and policies	5	5
Comments/Rationale For Points: Meets Criteria		TOTAL 10
Total Score		92

Firm/Participant's Name: Cruz-Hogan Consultants, Inc.

Evaluator: Oscar Garza, Program Coordinator Department: UCP

Project Name: San Juan 2013 Street Imp. Date: November 05, 2013

EVALUATION CRITERIA
PROFESSIONAL ENGINEERING SERVICES POOL
RFQ No. 2013-002-12-05-YZV

Selection Criteria	Points	Score
1. Professional Qualifications of Project Team (20 pts maximum)		
➢ Registered and licenses to practice in the State of Texas (i.e. certifications/registrations and other pertinent information that demonstrates their qualifications to perform the contract)	10	10
➢ Provides information on proposed professional Team qualifications to perform various types of contracts	5	5
➢ Team members identified in the organizational chart.	5	5
Comments/Rationale For Points: Meets Criteria as requested		TOTAL 20
2. Experience of Project Team/Ability to Commit Resources (25 pts maximum)		
➢ Designate engineering staff members in an appendix form	5	2
➢ Identifying the project composition, project leadership, reporting responsibilities	10	10
➢ Experience of engineering staff to completely and efficiently perform the work.	10	10
➢		
Comments/Rationale For Points: No appendix entry as requested, good references on staff certification & reporting responsibilities		TOTAL 22
3. Methodology/Experience/Availability of Project Manager (20 pts maximum)		
➢ Firm's approach to the methodology and management to the scope of services for the project(s).	5	5
➢ Must be a Professional Engineer registered in the State of Texas and must be included in Appendix	5	5
➢ Project Manager must have five (5) types of projects plus be 85-100 % involvement with technical development of project	10	10
Comments/Rationale For Points: Meets Criteria		TOTAL 20
4. Understanding of Project/Similar Projects (25 pts maximum)		
➢ Demonstrate and understanding of the scope of services	5	5
➢ Address appropriate Federal/ State/ Local regulations and policies. Knowledge and experience of working with multiple entities, counties, cities, etc.	5	5
➢ Identify information to be gathered or obtained/proposed approach to complete the scope	5	5
➢ RFQ responsiveness. Response is clear, well organized, easy to evaluate, and appropriate to this RFQ.	5	5
➢ Reference information including contact persons and telephone numbers.	5	5
Comments/Rationale For Points: Meets Criteria		TOTAL 25
5. Familiarity with Applicable Rules and Regulations (10 pts maximum)		
➢ Indicate passed experience of the proposed Firm knowledge of governmental regulations, appropriate codes, guidelines, professional standards and policies	5	5
➢ Must contain a narrative that outlines applicable regulations, guideline, standards, and policies	5	5
Comments/Rationale For Points: Meets Criteria		TOTAL 10
Total Score		97

Firm/Participant's Name: Halff & Associates, Inc.

Evaluator: Jesse Garza, Program Coordinator Department: UCP

Project Name: San Juan 2013 Street Imp. Date: November 05, 2013

EVALUATION CRITERIA
PROFESSIONAL ENGINEERING SERVICES POOL
RFQ No. 2013-002-12-05-YZV

Selection Criteria	Points	Score
1. Professional Qualifications of Project Team (20 pts maximum)		
➢ Registered and licenses to practice in the State of Texas (i.e. certifications/registrations and other pertinent information that demonstrates their qualifications to perform the contract)	10	10
➢ Provides information on proposed professional Team qualifications to perform various types of contracts	5	5
➢ Team members identified in the organizational chart.	5	5
Comments/Rationale For Points: Meets Criteria as requested		TOTAL 20
2. Experience of Project Team/Ability to Commit Resources (25 pts maximum)		
➢ Designate engineering staff members in an appendix form	5	2
➢ Identifying the project composition, project leadership, reporting responsibilities	10	8
➢ Experience of engineering staff to completely and efficiently perform the work.	10	8
➢		
Comments/Rationale For Points: No appendix entry as requested, not clear on reporting responsibilities & staff to complete/perform work on RFQ		TOTAL 18
3. Methodology/Experience/Availability of Project Manager (20 pts maximum)		
➢ Firm's approach to the methodology and management to the scope of services for the project(s).	5	5
➢ Must be a Professional Engineer registered in the State of Texas and must be included in Appendix	5	5
➢ Project Manager must have five (5) types of projects plus be 85-100 % involvement with technical development of project	10	10
Comments/Rationale For Points: Meets Criteria		TOTAL 20
4. Understanding of Project/Similar Projects (25 pts maximum)		
➢ Demonstrate and understanding of the scope of services	5	5
➢ Address appropriate Federal/ State/ Local regulations and policies. Knowledge and experience of working with multiple entities, counties, cities, etc.	5	5
➢ Identify information to be gathered or obtained/proposed approach to complete the scope	5	5
➢ RFQ responsiveness. Response is clear, well organized, easy to evaluate, and appropriate to this RFQ.	5	5
➢ Reference Information including contact persons and telephone numbers.	5	5
Comments/Rationale For Points: Meets Criteria		TOTAL 25
5. Familiarity with Applicable Rules and Regulations (10 pts maximum)		
➢ Indicate passed experience of the proposed Firm knowledge of governmental regulations, appropriate codes, guidelines, professional standards and policies	5	5
➢ Must contain a narrative that outlines applicable regulations, guideline, standards, and policies	5	5
Comments/Rationale For Points: Meets Criteria		TOTAL 10
Total Score		93

Firm/Participant's Name: Javier Hinojosa Engineering

Evaluator: Oscar Garza, Program Coordinator Department: UCP

Project Name: San Juan 2013 Street Imp. Date: November 05, 2013

AI-41805 **Colonia Access Program 12. A.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: Agapito Vargas, Jr. **Submitted By:** Yolanda Cisneros, COMM. PCT. #2

Department: COMM. PCT. #2

Information

CAPTION

1. Approval to renew Border Colonia Access Program (BCAP) Financial Agreement.

2. Approval to revise correspondence dated 30th July 2013 and approved by CC on 6th August 2013. Revised letter will delete one (1) project and add eight (8) additional project for the final BCAP Financial Agreement.

Delete:
Blue Star Enterprises: (CSJ: 3C1080111)

Add:
Barbosa-Lopez No.3: (CSJ: 3C1080642)
Flora Subdivision: (CSJ: 3C1080270)
La Pampa: (CSJ: 3C1080394)
Martin: (CSJ: 3C1080894)
Southern Valley Estates: (CSJ: 3C10800691)
Las Fuentes: (CSJ: 3C1080411)
Havana Lomas No.4: (CSJ: 3C1080310)
Havana Lomas No.5: (CSJ: 3C1080311)

BACKGROUND

Fiscal Impact

FISCAL YEAR: **ACCT. #:** Fund 1312

FUNDS AVAILABLE Y/N?: **MATCHING FUNDS Y/N?:**

BUDGETARY IMPACT:

Fund 1312

Attachments

balances

balances

Letter

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/14/2013 04:08 PM
Manuel Chapa	Manuel Chapa	11/15/2013 04:52 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Yolanda Cisneros Started On: 11/13/2013 02:23 PM

Final Approval Date: 11/15/2013

Detail #	TWDB ID #	Colonia Name	Project Length (mi)	Authorized Project Amount			Hidalgo County Remaining Balances		
				Drainage	Max. Roadway	Total	Drainage Balance	Roadway Balance	Total Amount
Active Projects									
3C1080103	M1080103	Bernal Heights No. 1 -- Added Am. 5 (plans done in 2nd cal	0.16	$22,744.00	$62,921.52	$85,665.52	$20,117.20	$60,322.90	$80,440.10
3C1080230	M1080230	Dimas No. 3 -- Added Am. 5 (plans done in 2nd call)	0.43	$117,764.00	$177,785.13	$295,549.13	$117,764.00	$169,320.53	$287,084.53
3C1080600	M1080600	Randolph Barnett #1 -- X per Am. 1, added Am. 6	0.12	$32,650.00	$61,553.03	$94,203.03	$32,650.00	$53,098.05	$85,748.05
3C1080587	M1080587	Ramirez Subd. (comp. app.) -- X per Am. 1, added Am. 6	0.10	$0.00	$46,753.53	$46,753.53	$0.00	$39,510.57	$39,510.57
3C1080588	M1080588	Ramirez Subd. #2 (comp. app.) -- X per Am. 1, added Am. 6	0.10	$41,700.00	$50,000.00	$91,700.00	$41,700.00	$41,331.44	$83,031.44
3C1080589	M1080589	Ramirez Subd. #3 (comp. app.) -- X per Am. 1, added Am. 6	0.14	$34,650.00	$71,000.00	$105,650.00	$34,650.00	$61,130.16	$95,780.16
3C1080606	M1080606	Regal Estates -- X per Am. 1, added Am. 6	0.24	$65,200.00	$121,000.00	$186,200.00	$65,200.00	$106,078.90	$171,278.90
	M1080329	Hoehn Drive Subd.	1.60	$105,322.00	$351,700.63	$457,022.63	$70,167.15	$287,141.16	$357,308.31
									$1,200,182.06
New Projects									
3C1080855	M1080855	Ash Country	0.22	$32,400.00	$97,905.35	$130,305.35	$32,400.00	$85,861.96	$118,261.96
3C1080220	M1080220	Delta West Subd.	0.76	$41,600.00	$313,968.53	$355,568.53	$41,600.00	$279,595.92	$321,195.92
3C1080388	M1080388	La Milpa -- Added Am 6	0.15	$39,520.00	$59,864.79	$99,384.79	$39,520.00	$56,103.96	$95,623.96
3C1080727	M1080727	Tiejerina Estates -- Added Am. 5 (plans done in 1st call)	0.43	$111,307.45	$163,850.88	$275,158.33	$111,307.45	$163,637.09	$274,944.54
3C1080422		Lorenzana Subdivision							
3C1080314		Heidelburg Subdivision							
	M1080310	Havana Lomas #4	0.21	$28,710.00	$104,890.95	$133,600.95	$28,710.00	$104,890.95	$133,600.95
	M1080311	Havana Lomas #5	0.13	$25,150.00	$65,000.00	$90,150.00	$25,150.00	$65,000.00	$90,150.00
3C1080603	M1080603	Rankin Subdivision -- Added Am 6	0.55	$304,387.84	$275,000.00	$579,387.84	$304,387.84	$239,382.59	$543,770.43
3C1080260	M1080260	Engleman Estates -- Added Am 6	0.46	$43,954.00	$155,607.53	$199,561.53	$43,954.00	$142,975.95	$186,929.95
3C1080752	M1080752	Trenton Terrace	0.27	$140,840.00	$135,000.00	$275,840.00	$140,840.00	$105,922.66	$246,762.66
3D1080536	M1080536	Palm Lake Estates #1 (both)	1.28	$57,227.00	$140,622.00	$197,849.00	$57,227.00	$140,622.00	$197,849.00
3C1080780	M1080780	Vereda Tropical	0.24	$25,660.00	$119,307.18	$144,967.18	$25,660.00	$107,305.89	$132,965.89
									$2,342,055.26
To Be Deleted									
3C1080215	M1080215	De Anda Subd. (comp. app.)	0.12	$12,600.00	$51,725.18	$64,325.18	$12,600.00	$45,466.79	$58,066.79
3C1080779	M1080779	Valley View Estates -- Added Am. 1	0.32	$8,368.00	$136,555.34	$144,923.34	$8,368.00	$125,603.25	$133,971.25
3C1080790	M1080790	Village Grove #2	0.26	$0.00	$42,407.91	$42,407.91	$0.00	$37,596.92	$37,596.92
3C1080348	M1080348	Jardin Terrace Subd. -- X per Am. 1, added Am. 6	0.30	$55,600.00	$142,044.99	$197,644.99	$55,600.00	$142,044.99	$197,644.99
									$427,279.95

Project Totals	$3,542,237.32
BCAP 3rd Call Available Balance	$5,336,307.41
BCAP 3rd Call Unobligated Balance	**$1,794,070.09**

*Updated spreadsheet on 10/02/13 - Removed Blue Star Enterprises #2 as per email from Agapito Vargas on 09/26/13 and added Havana Lomas #4 & #5.

*Updated spreadsheet on 10/04/13 - processed invoice #57.

Detail #	TWDB ID #	Colonia Name	Project Length (mi)	Authorized Project Amount			Hidalgo County Remaining Balances		
				Drainage	Max. Roadway	Total	Drainage Balance	Roadway Balance	Total Amount
Active Projects									
3C1080103	M1080103	Bernal Heights No. 1 -- Added Am. 5 (plans done in 2nd call	0.16	$22,744.00	$62,921.52	$85,665.52	$20,117.20	$60,322.90	$80,440.10
3C1080230	M1080230	Dimas No. 3 -- Added Am. 5 (plans done in 2nd call)	0.43	$117,764.00	$177,785.13	$295,549.13	$117,764.00	$169,320.53	$287,084.53
3C1080600	M1080600	Randolph Barnett #1 -- X per Am. 1, added Am. 6	0.12	$32,650.00	$61,553.03	$94,203.03	$32,650.00	$53,098.05	$85,748.05
3C1080587	M1080587	Ramirez Subd. (comp. app.) -- X per Am. 1, added Am. 6	0.10	$0.00	$46,753.53	$46,753.53	$0.00	$39,510.57	$39,510.57
3C1080588	M1080588	Ramirez Subd. #2 (comp. app.) -- X per Am. 1, added Am. 6	0.10	$41,700.00	$50,000.00	$91,700.00	$41,700.00	$41,331.44	$83,031.44
3C1080589	M1080589	Ramirez Subd. #3 (comp. app.) -- X per Am. 1, added Am. 6	0.14	$34,650.00	$71,000.00	$105,650.00	$34,650.00	$61,130.16	$95,780.16
3C1080606	M1080606	Regal Estates -- X per Am. 1, added Am. 6	0.24	$65,200.00	$121,000.00	$186,200.00	$65,200.00	$106,078.90	$171,278.90
	M1080329	Hoehn Drive Subd.	1.60	$105,322.00	$351,700.63	$457,022.63	$70,167.15	$287,141.16	$357,308.31
									$1,200,182.06
New Projects									
3C1080855	M1080855	Ash Country	0.22	$32,400.00	$97,905.35	$130,305.35	$32,400.00	$85,861.96	$118,261.96
3C1080220	M1080220	Delta West Subd.	0.76	$41,600.00	$313,968.53	$355,568.53	$41,600.00	$279,595.92	$321,195.92
3C1080388	M1080388	La Milpa -- Added Am 6	0.15	$39,520.00	$59,864.79	$99,384.79	$39,520.00	$56,103.96	$95,623.96
3C1080727	M1080727	Tiejerina Estates -- Added Am. 5 (plans done in 1st call)	0.43	$111,307.45	$163,850.88	$275,158.33	$111,307.45	$163,637.09	$274,944.54
3C1080422	M1080422	Lorenzana Subdivision	0.196	$25,934.30	$98,074.46	$124,008.76	$25,934.30	$98,074.46	$124,008.76
3C1080314	M1080314	Heidelburg Subdivision	1.48	$97,300.00	$690,051.84	$787,351.84	$97,300.00	$690,051.84	$787,351.84
3C1080310	M1080310	Havana Lomas #4	0.21	$28,710.00	$104,890.95	$133,600.95	$28,710.00	$104,890.95	$133,600.95
3C1080311	M1080311	Havana Lomas #5	0.13	$25,150.00	$65,000.00	$90,150.00	$25,150.00	$65,000.00	$90,150.00
3C1080603	M1080603	Rankin Subdivision -- Added Am 6	0.55	$304,387.84	$275,000.00	$579,387.84	$304,387.84	$239,382.59	$543,770.43
3C1080260	M1080260	Engleman Estates -- Added Am 6	0.46	$43,954.00	$155,607.53	$199,561.53	$43,954.00	$142,975.95	$186,929.95
3C1080752	M1080752	Trenton Terrace	0.27	$140,840.00	$135,000.00	$275,840.00	$140,840.00	$105,922.66	$246,762.66
3D1080536	M1080536	Palm Lake Estates #1 (both)	1.28	$57,227.00	$140,622.00	$197,849.00	$57,227.00	$140,622.00	$197,849.00
3C1080780	M1080780	Vereda Tropical	0.24	$25,660.00	$119,307.18	$144,967.18	$25,660.00	$107,305.89	$132,965.89
3C1080642	M1080642	Barboza-Lopez No. 3	0.24	$25,488.00	$119,575.55	$145,063.55	$25,488.00	$119,575.55	$145,063.55
3C1080270	M1080270	Flora Subdivision	0.23	$23,152.00	$92,110.11	$115,262.11	$23,152.00	$92,110.11	$115,262.11
3C1080394	M1080394	La Pampa	0.25	$9,900.00	$93,460.46	$103,360.46	$9,900.00	$93,460.46	$103,360.46
3C10808894	M1080894	Martin Subdivision	0.199	$26,196.00	$82,317.02	$108,513.02	$26,196.00	$82,317.02	$108,513.02
3C1080691	M1080691	Southern Valley Estates	0.231	$50,858.00	$115,369.35	$166,227.35	$50,858.00	$115,369.35	$166,227.35
3C1080411	M1080411	Las Fuentes Subdivision	0.35	$66,252.70	$178,030.30	$244,283.00	$66,252.70	$178,030.30	$244,283.00
									$4,136,125.35
To Be Deleted									
3C1080215	M1080215	De Anda Subd. (comp. app.)	0.12	$12,600.00	$51,725.18	$64,325.18	$12,600.00	$45,466.79	$58,066.79
3C1080779	M1080779	Valley View Estates -- Added Am. 1	0.32	$8,368.00	$136,555.34	$144,923.34	$8,368.00	$125,603.25	$133,971.25
3C1080790	M1080790	Village Grove #2	0.26	$0.00	$42,407.91	$42,407.91	$0.00	$37,596.92	$37,596.92
3C1080348	M1080348	Jardin Terrace Subd. -- X per Am. 1, added Am. 6	0.30	$55,600.00	$142,044.99	$197,644.99	$55,600.00	$142,044.99	$197,644.99
									$427,279.95

Project Totals	$5,336,307.41
BCAP 3rd Call Available Balance	$5,336,307.41
BCAP 3rd Call Unobligated Balance	**$0.00**

*Updated spreadsheet on 10/02/13 - Removed Blue Star Enterprises #2 as per email from Agapito Vargas on 09/26/13 and added Havana Lomas #4 & #5.
*Updated spreadsheet on 10/04/13 - processed invoice #57.

COLONIA ACCESS PROGRAM
County of Hidalgo

Agapito Vargas, Jr.
Executive Director

19th November 2013

Toribio Garza, P.E., District Engineer, Pharr District
Attention: Carlos Peralez, P.E. Materials Engineer Supervisor
Judy Sanchez, Colonia Project Manager
Texas Department of Transportation
P.O. Box 1717
Pharr, TX 78577

Re: Amending Correspondence Dated 30th July 2013 Requesting Deletion and Additions of Third Call Border Colonia Projects and Requesting to renew Border Colonias Access Program Financial Agreement

Mr. Toribio Garza:

On 19th November 2013 Commissioner's Court approved a request to revise 3rd Call Border Colonias Projects (BCAP) to delete and add new projects including the remaining 3rd Call projects. Additionally the County approved to enter into a new BCAP financial agreement to expense the balances of BCAP funds and add new projects to the existing projects. The County is now submitting this request to the Texas Department of Transportation for your consideration.

Hidalgo County is requesting to delete the following 3rd Call BCAP projects:

Precinct 1:
- De Anda Subdivision (CSJ: 3C1080215)
- Valley View Subdivision (CSJ: 3C1080779)
- Village Grove Subdivision (CSJ: 3C1080790)

Precinct 3:
- Jardin Terrace Subdivision (CSJ: 3C1080348)
- Blue Star Enterprises: (CSJ: 3C1080111)

BCAP projects Valley View, Village Grove, Blue Star Enterprises and Jardin Terrace are being deleted as they were reconstructed by either the county or municipalities. De Anda Subdivision is being deleted as the subdivision is land-locked and there are issues relating to the acquisition of (ROW) Right of Way.

The County is also requesting to include the following new projects:

Precinct 1:
- Lorenzana Subdivision: (CSJ: 3C1080422)
- Heidelburg Subdivision: (CSJ: 3C1080314)
- Barbosa-Lopez No.3: (CSJ: 3C1080642)
- Flora Subdivision: (CSJ: 3C1080270)
- La Pampa: (CSJ: 3C1080394)
- Martin: (CSJ: 3C1080894)
- Southern Valley Estates: (CSJ: 3C1080691)

Precinct 2:
- Las Fuentes: (CSJ: 3C1080411)

Precinct 3:
- Havana Lomas No. 4: (CSJ: 3C1080310)
- Havana Lomas No. 5: (CSJ: 3C1080311)

County is requesting to include the remaining projects to new Financial Agreement. These projects are:

Precinct 1:
- Ash County: (3C1080855)
- La Milpa: (3C1080388)
- Tijerina: (3C1080727)
- Delta West: (3C1080220)

Precinct 3:
- Palm Lake: (3C1080536)
- Vereda Tropical: (3C1080780)
- Ramirez I: (3C1080587)
- Ramirez II: (3C1080588)
- Ramirez III: (3C1080589)
- Regal Estates: (3C1080606)
- Randolph Barnett No. 1: (3C1080600)

Precinct 4:
- Trenton Terrace: (3C1080752)
- Hoehn Drive: (3C1080329)
- Rankin: (3C1080603)
- Engelman: (3C1080260)

Based on figures provided by your staff, spreadsheet dated 18th July 2013, the County has available balances to cover the cost of these additional projects. Please review the attached spreadsheet which includes the estimate cost of the additional projects and the balances of the existing projects.

If you require additional information, please let me know.

Cordially,

Agapito Vargas, Jr.
Director, Hidalgo County Colonias Access Program

Cc: Commissioner A.C. Cuellar, Hidalgo County Precinct 1
Commissioner Hector "Tito" Palacios, Hidalgo County Precinct 2
Commissioner Jose M. Flores, Hidalgo County Precinct 3
Commissioner Joseph Palacios, Hidalgo County Precinct 4
Valde Guerra, Commissioner's Court Executive Officer (email)
Raul Lozano, Chief Administrator, Precinct 1
Raul Silguero, Chief Administrator, Precinct 2
Norma Ceballos, Executive Assistant, Precinct 3
Marcos Lopez, Executive Assistant, Precinct 4
John Paul Lugo, BCAP County-Wide Coordinator
Ray Eufracio, CPA; Hidalgo County Auditor
Martha Salazar, Hidalgo County Purchaser

AI-41725 **Precinct #1** **13. A.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted By: Monica Badillo, EXECUTIVE OFFICE

Department: EXECUTIVE OFFICE

Information

CAPTION

Resolution in Honor of Andy Veliz

BACKGROUND

Attachments

Resolution

Form Review

Inbox	Reviewed By	Date
Budget & Management	Debbie Tamez	11/07/2013 04:01 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Monica Badillo Started On: 11/07/2013 03:28 PM

Final Approval Date: 11/15/2013

RESOLUTION IN HONOR OF ANDY VELIZ

WHEREAS, Andy Veliz was born on February 2, 1943 in Sebastian, Texas and is a native of Weslaco, Texas; he began singing at the age of 5 years old and got his first break on live TV on the Ty Cobb Show in Weslaco; and

WHEREAS, Veliz grew up with music in his life however new that education is key to success, he graduated from Lyford High school in 1961, and aspired to become a teacher; in 1965 he achieved his aspiration by earning a Bachelor degree in Education at Texas A&I University; he then attended the University of Texas at Austin in 1974 where he earned a Master degree in Education Administration; and

WHEREAS, during his career as a public educator, Veliz still pursued his love of music, and in 1980 while driving home from a performance, he came up with an idea for a hit song; he wrote a song called "Lonely Nights Without You," though the song did not receive immediate fame with local radio stations, Veliz continued to lobby his song and got a break with KRGE Radio, soon after the song became a statewide hit in 1980; and

WHEREAS, Veliz garnered a successful public education career where he taught English and Math at several High Schools throughout the Valley and held numerous administration positions, however his love of music always followed him and he became known as the "The Singing Principal"; and

WHEREAS, after 29 years of public education, Veliz retired in 2001 and is currently a Professor at the University of Texas – Pan American beginning his college teaching career at the College of Education, Office of Field Experiences; he is also actively involved in the City of Weslaco serving on the Board of Appeals and Adjustments of Zoning for 25 years;

WHEREAS, Veliz music career led him to write and produce the hit songs; "Come Along to Heaven" and "Lonely Nights Without You," he recently released a compilation album he recorded with high school students called "Through the Years"; and

WHEREAS, Veliz is married to Thelma E. Veliz; they have one daughter, Sheree who is married to Carlos Gonzalez; they have three grandchildren Patrick, Andres, and Evie Rose Gonzalez.

NOW, THEREFORE, BE IT RESOLVED that the Hidalgo County Commissioners Court hereby recognizes and honors Andy Veliz for his tenacity to achieve his aspirations in life by becoming an educator to Hidalgo County students and by using song to express his passion for music.

Approved this 19th day of November, 2013.

_____
RAMON GARCIA
County Judge

_____
A.C. CUELLAR, JR.
County Commissioner, Pct. 1

_____
HECTOR "TITO" PALACIOS
County Commissioner, Pct. 2

_____
JOE M. FLORES
County Commissioner, Pct. 3

_____
JOSEPH PALACIOS
County Commissioner, Pct. 4

_____
Attest: ARTURO GUAJARDO, JR.
Hidalgo County Clerk

AI-41784 **Precinct #2 14. A.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted By: Angela Garcia, COMM. PCT. #2

Department: COMM. PCT. #2

Information

CAPTION

Requesting approval to submit application for Electricity Services with deposit and application fees in the amount of $125.00 for the new Botanical Greenhouse located at the San Juan CRC Center at 509 E. Earling Road, San Juan, TX, payable to Magic Valley Electric Cooperative, Inc., with authority for County Auditor to complete review and processing procedures and for County Treasurer to issue payment.

BACKGROUND

Fiscal Impact

FISCAL YEAR: 2013 **ACCT. #:** 3-1100-452-00-122-008-0-890

FUNDS AVAILABLE Y/N?: y **MATCHING FUNDS Y/N?:**

BUDGETARY IMPACT:

available funding in req. # 247070

Attachments

application

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/13/2013 03:34 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Angela Garcia Started On: 11/13/2013 09:23 AM

Final Approval Date: 11/15/2013

M V E C

MAGIC VALLEY ELECTRIC COOPERATIVE, INC.
P.O. Box 267
Mercedes, Texas 78570
Ph: 1-866-225-5683 Fax: (956) 565-0457

STANDARD APPLICATION FOR MEMBERSHIP

The undersigned (hereinafter called the Applicant) hereby applies for membership in the Magic Valley Electric Cooperative, (hereinafter called the Cooperative) upon in the following terms and conditions.

* *The Applicant will pay to the Cooperative the sum of $5.00 which, upon acceptance, will constitute the Applicant's membership fee.*
* *Upon request by the Cooperative, the Applicant will deposit with the Cooperative a sum of monies or other valuable considerations equal to two average monthly bills for service furnished or to be furnished as estimated by the Cooperative.*
* *The Applicant agrees to comply with and be bound by the provisions of the Articles of Incorporation and Bylaws of the Cooperative, and such rules and regulations as may from time to time be adopted by the Board of Directors of the Cooperative.*
* *The Applicant agrees to pay for all electric energy used in accordance with and subject to the limitations st out in the Cooperative's applicable rate schedule.*
* *It is also agreed that membership in the Cooperative shall begin when service is connected and shall terminated when Applicant's service is disconnected and Applicant is no longer receiving electric service.*
* *In the event this membership is terminated, and subsequent thereto the applicant should desire to again become a member, this application for membership will be applicable for any and all future requests for membership. However, each request for membership must be subject to approval by the Board of Directors of the Cooperative.*

	Hidalgo County
Dated	Applicant
	509 E. Earling
Account Number	Address
	San Juan Tx 78589
Social Security Number	City, State, & Zip Code
MVEC Employee	Applicant's Signature

GENERAL INFORMATION

*Request for New Meter

Date: 11/7/13

Name: Hidalgo County Pct 2 CRC - San Juan (Rear)

Mailing Address: 509 E. Earling San Juan, Tx 78589

Telephone Number: 956-787-1891

Business or Occupation: Hidalgo County Pct 2 Community Resource Center

Employer: Hidalgo County Pct. 2 Number of Years:

Employer Address: 300 W. Hall Acres Suite 6

Telephone Number: 956-787-1891

Are you the owner of the land and facilities being served? Yes ☑ No ☐

Have you received service from the Cooperative before? Yes ☑ No ☐

Previous Address: 509 E. Earling San Juan Tx. 78589

Location of Service (Give Directions): San Juan CRC Center Botanical Greenhouse Earling Road (Nolana) between Raul Longoria + Cesar Chavez.

Additional Information: $100 deposit for new meter for botanical greenhouse
$25 activation fee

AI-41845 **Precinct #4** **15. A.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: Comm. J. Palacios **Submitted By:** Veronica Lopez, COMM. PCT. #4

Department: COMM. PCT. #4

Information

CAPTION

Pct. #4- Misc. Reimbursements (1200):
1. Approval of Certification of Revenues as certified by the County Auditor for Pct. #4 Edinburg Effluent Line and Faysville Drain Project.

2. Approval of 2013 appropriation of funds for Pct. #4 Edinburg Effluent Line and Faysville Drain Project in the amount of $22,737.79 for labor, fuel, and equipment for pay periods 15 & 17 .

BACKGROUND

Fiscal Impact

FISCAL YEAR: 2013 **ACCT. #:** 3-1200-431-00-124-007-0-890

FUNDS AVAILABLE Y/N?: Yes **MATCHING FUNDS Y/N?:**

BUDGETARY IMPACT:

Approval of 2013 appropriation of funds in the amount of $22,737.79 for Pct. #4 Edinburg Effluent Line and Faysville Drain Projects (pp# 15 and pp#17).

Revenue account:
3-1200-341-50-124-003-0-000 Edinburg Effluent LIne $3,644.96
3-1200-341-50-124-004-0-000 Faysville Drain Project $19,092.83

Attachments

BA Misc Reimbursements

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/15/2013 01:59 PM
Glinda Pacheco	Glinda Pacheco	11/15/2013 03:59 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Veronica Lopez Started On: 11/14/2013 04:14 PM

Final Approval Date: 11/15/2013

DATE: November 15, 2013

DEPARTMENT HEAD: Commissioner J. Palacios

DEPARTMENT NAME: Pct. # 4- Rd. Maint.

ACCOUNT NUMBER: 3-1200-431-00-124-007-0-XXX

Contact Person: Veronica Lopez Ph#: (956) 383-3112 Ext. 4019

2013
Appropriation
AI-41845

SUBJECT: **Budget Amendments** (increase (decrease)) in accordance with Local Government Code, Chapter 111, § 111.070, Item C (2).

Honorable Commissioners' Court of Hidalgo County:

I would like to request the following Budget Amendments (increase (decrease)) in accordance with Local Government Code, Chapter 111, § 111.070, Item C (2).

INCREASE ACCOUNT NUMBER(S)	ACCOUNT (OBJECT) NAME		AMOUNT
3-1200-431-00-124-007-0- 890	Pct 4 Rd Maint-	Other	$22,737.79
3-1200-341-50-124-003-0- 000	*Pct 4 DD#1-*	*Edinburg Effluent Line*	*$3,644.96*
3-1200-341-50-124-004-0- 000	*Pct 4 DD#1-*	*Faysville Drain Project*	*$19,092.83*
	TOTAL BUDGET INCREASE (DECREASE)		**$22,737.79**

REASON: Appropriation of misc. reimbursements (Edinburg Effluent Line & Faysville Drain Project) for labor, fuel, and equipment for pay periods 15 & 17.

DEPARTMENT HEAD SIGNATURE

APPROVED COMMISSIONERS' COURT

____/____/____
DATE

ATTEST COUNTY CLERK

AI-41840 **Precinct #4** **15. B.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: Comm. J. Palacios **Submitted By:** Veronica Lopez, COMM. PCT. #4

Department: COMM. PCT. #4

Information

CAPTION

Requesting authorization for survey metes & bounds for utility easement for Pct. #4 Motor Pool Project located at 1124 N. M Rd.

BACKGROUND

Fiscal Impact

FISCAL YEAR: 2013 **ACCT. #:** 3-1342-419-40-124-126-0-739

FUNDS AVAILABLE Y/N?: Y **MATCHING FUNDS Y/N?:** N

BUDGETARY IMPACT:

Req # 246774
Dos Land Surveying, LLC $3,416.64
Funds available as of 11/14/13

Attachments

Dos Land

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/14/2013 04:17 PM
Glinda Pacheco	Glinda Pacheco	11/15/2013 10:37 AM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Veronica Lopez Started On: 11/14/2013 02:48 PM

Final Approval Date: 11/15/2013

From : Jose Ochoa <jose.ochoa@co.hidalgo.tx.us>
Subject : Re: HELP ON EASEMENT
To : Richard Miller <rimiller@aep.com>

Tue, Oct 29, 2013 04:28 PM
1 attachment

This is an EXTERNAL email. STOP. THINK before you CLICK links or OPEN attachments.

Mr. Miller,

Quick question. Will AEP be purchasing this easement or does it have to be dedicated.

Sent from my iPhone

On Oct 29, 2013, at 2:28 PM, Richard Miller <rimiller@aep.com> wrote:

<image001.jpg>
Mr. Ochoa,

AEP will draft the easement document. We do not accept easements other than our own. The easement will require an Exhibit A & B provided by the customer. I have included a hand drawing for your surveyor to use as an example.

Exhibit A – Metes & Bounds Description of the Easement Area
Exhibit B – Drawing of the Easement Area as it falls on the property plat

Paul should have given you the Three Phase Pad Mount Transformer Specifications. The very last page shows the easement width needed for the transformer.

Please feel free to call me with any questions.

Thank you
Rick Miller
AEP Texas Central Company
Sr. Right-of-Way Agent

(361) 881-5621 Office #
(8) 430-5621 AutoNet #
(956) 245-0817 Cell #
1 (866) 315-4638 Fax #

U.S. Mail Address
P.O. Box 2121
Corpus Christi, Texas 78403

Over Night Delivery Address
539 N. Carancahua
Corpus Christi, Texas 78401-2401

"Lead your life so you won't be ashamed to sell the family parrot to the town gossip"

<mime-attachment>

<Scanned from a Xerox multifunction device.pdf>

Unknown <text/html>
7 KB View Download

image001.jpg
12 KB

Requisition

Req # 00246774

PO #

Date: 11/06/13

Bill To: x
x

Vendor : 363251
DOS LAND SURVEYING
1002 E. EXPRESSWAY 83
WESLACO TX 78596
FAX (956)447-8194

Ship To: HIDALGO CO. PCT 4
1051 N. DOOLITTLE
EDINBURG TX 78542

Contact: VLopez
956-383-3112

Contract No: C-13-319-10-29-DLS

Special Instructions:
Pct. 4 Req # 1458

QUANTITY	UOM	DESCRIPTION	UNIT PRICE	AMOUNT
		C-13-319-10-29-DLS For: Motor Pool AEP Electric Easement DO NOT DUPLICATE ORDER		
1.00	EACH	CC Perform an AEP Electrical Easement Survey plat and metes & bounds description Located: 1124 North M. Road	3,416.64	3,416.64
		Account No	Encumbrance	
		3-1342-419-40-124-126-0-739	3,416.64	
			Freight	.00
			Total	3,416.64
		REPORT ROAD HAZARDS 1-866-HCR-SAFE OR 1-866-427-7233		

Authorized By: _____

AI-41777 **Budget and Management 16. A.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: IT **Submitted By:** Manuel Chapa, BUDGET & MANAGEMENT

Department: BUDGET & MANAGEMENT

Information

CAPTION

Discussion, consideration and approval to submit the Texas VINE Reimbursement Maintenance Invoice in the amount of $6,928.83 (First Qtr) and the Texas Statewide Automated Victim Notification Service (SAVNS) County Verification of Continuing Production Record with authority for County Judge to sign the required documents.

BACKGROUND

Texas VINE Annual Maintenance Grant Contract - Fiscal Year 2014 was approved by Commissioners' Court on September 11, 2013 (AI# 40447).

Fiscal Impact

FISCAL YEAR: 2013 **ACCT. #:** 3-1283-415-00-200-005-4-336

FUNDS AVAILABLE Y/N?: **MATCHING FUNDS Y/N?:**

BUDGETARY IMPACT:

No Budgetary Impact

Revenue acct #3-1283-334-10-200-005-4-000 "Texas Vine Program Revenue"

Attachments

Reimb Inv

Production record

Form Review

Inbox	Reviewed By	Date
Manuel Chapa (Originator)	Manuel Chapa	11/15/2013 10:12 AM
Budget & Management	Obdett Calzada	11/15/2013 01:58 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Manuel Chapa Started On: 11/12/2013

Final Approval Date: 11/15/2013

Office of the Attorney General
Statewide Automated Victim Notification Services (SAVNS)
Fiscal Year 2014 Invoice

	PHASE TYPE	
Place an "X" to the right of the applicable quarter(s)	**1st Quarter**	11/30/2013 X
	2nd Quarter	February 28, 2014
	3rd Quarter	May 31, 2014
	4th Quarter	August 31, 2014

Mail To:	**Date of Invoice:**	
Office of the Attorney General	**Invoice #:**	
Grants Administration Division - MC005	**Texas TIN:**	17460007176012
P.O. Box 12548	**Organization Name:**	**HIDALGO COUNTY**
Austin, TX 78711-2548	**Mailing Address:**	2808 S. Business Hwy.281
	City:	Edinburg
	State:	TX
Grants Administration Division (GAD) Contact	**Zip Code:**	78539
Attn: Finance Section	**Contact Person:**	Ray Eufracio, CPA
Title: Financial Specialist	**Title:**	County Auditor
Email: Pinni.Warner@texasattorneygeneral.gov	**Email Address:**	ray.eufracio@auditor.co.hidalgo.tx.us
Telephone: (512) 936-6397	**Telephone:**	956-318-2511 x4604

Month of Service	OAG GRANT #		Amount of Claim
Nov-13	**1445766**	**PCA 10352**	**$6,928.83**

Note - 1: Invoice must be received for the prior quarter by the 5th of the next month following the end of each quarter.	**Description of Services: Note 2:** Reimbursement for services rendered on a contract basis under the Statewide Automated Victim Notification Service (SAVNS) Grant to the Office of the Attorney General (Term: September 1, 2013 to August 31, 2014). **Note - 3: None of the costs billed under this invoice have been charged to any other state or federal grant, contract, or any other funding source. I certify that the expenses being requested for reimbursement are correct and unpaid.**	**Note - 4:** The amount of claim must not exceed the amount stated in "Total Due" line on the Certified Vendor Invoice.

Authorized Official or Designee Signature **Note - 5:** Must be signed by the Authorized Official or Alternate Designee		
	Signature of Authorized Official or Alternate Designee	**Date**
	Type/Print Authorized Official Name or Alternate Designee and Title	

For OAG Use Only

Date Received by Grants Administration Division of the OAG:	GAD Fiscal Approval / Date	Date Received by OAG Accounting:

OFFICE of the ATTORNEY GENERAL
GREG ABBOTT

Texas Statewide Automated Victim Notification Service (SAVNS) FY 2014 Quarterly Verification of Continuing Production Record

The purpose of this record is to establish a regular schedule for the Grantee to provide an update regarding the Texas SAVNS Program. The intent is to ensure that the Grantee is aware of the ongoing status of its Texas SAVNS Program functionality and continuing production. The OAG will crosscheck Grantee verifications with those of the Certified Vendor.

Grantee:	Hidalgo County	Contract Number:	1445766

Yes	No	N/A	Grantee Responsibility
X			As of the date below, SAVNS Jail Records are on production and available.
X			As of the date below, SAVNS Court Records are on production and available.
X			County SAVNS Problem Log notes all problems and resolutions.
	X		Program Coordinator/Grant Contact keeps a SAVNS grant file.

Check 'Yes' or 'No' for each box.

The SAVNS file is kept at the Auditor's office.

The primary responsibility for signing this verification is the Designated Authorized Official. Unchecked or checked 'No' boxes require an explanation in the Explanation/Comments Box.

County Verification:

_____

Signature
Ramon Garcia

_____

Printed Name
Hidalgo County Judge

_____

Title

_____

Date

Explanation/Comments:

***** This completed and signed document must be submitted as an attachment to the quarterly invoice in order for payment to be made on your County's behalf, for costs associated with Annual Maintenance. Please keep a copy in your grant file.**

AI-41836 **Budget and Management 16. B.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: Urban Co. **Submitted By:** Ivan Cantu, BUDGET & MANAGEMENT

Department: BUDGET & MANAGEMENT

Information

CAPTION

Approval of rental payment from the General Fund in the amount of $11,250 for lease of office space (3304 W. Alberta Rd., Edinburg, TX) for the Urban County Program for the month of December 2013.

BACKGROUND

Rental payment is $11,250.00/month

Fiscal Impact

FISCAL YEAR: 2013 **ACCT. #:** 3-1100-463-00-250-001-0-441

FUNDS AVAILABLE Y/N?: Y/pending **MATCHING FUNDS Y/N?:**

BUDGETARY IMPACT:

Funds available pending interdept transfer, AI #41827 CC 11-19-13. Rental payment is $11,250.00/month. Funds provided for the month of Dec. 2013 only. Refer to PO #699231 for Tarantino Properties, Inc.

Form Review

Inbox	Reviewed By	Date
Ivan Cantu (Originator)	Ivan Cantu	11/15/2013 09:17 AM
Budget & Management	Obdett Calzada	11/15/2013 02:42 PM
Obdett Calzada	Obdett Calzada	11/15/2013 02:44 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Ivan Cantu Started On: 11/14/2013 11:41 AM

Final Approval Date: 11/15/2013

AI-41848 **Budget and Management 16. C.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted By: Rolando Garcia, BUDGET & MANAGEMENT

Department: BUDGET & MANAGEMENT

Information

CAPTION

1. Approval of certification of revenues, as certified by the County Auditor, for proceeds from the sale of assets to Hidalgo County DD No.1

2. Approval of 2013 appropriation of funds in the total amount of $1,211,000.00 for the San Carlos Community Resource Center project.

BACKGROUND

Fiscal Impact

FISCAL YEAR: 2013 **ACCT. #:** 3-1303-392-00-000-002-0-000

FUNDS AVAILABLE Y/N?: YES **MATCHING FUNDS Y/N?:**

BUDGETARY IMPACT:

Attachments

revised

Form Review

Inbox	Reviewed By	Date
Roland Garcia (Originator)	Rolando Garcia	11/15/2013 03:09 PM
Budget & Management	Obdett Calzada	11/15/2013 05:24 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Rolando Garcia Started On: 11/15/2013 08:16 AM

Final Approval Date: 11/15/2013

DATE: November 15, 2013

DEPARTMENT HEAD: Sergio Cruz

DEPARTMENT NAME: Department of Budget&Managament for Pct4 San Carlos Community Center

ACCOUNT NUMBER: 3-1303-392-00-000-002-0-000

Contact Person: Rolando Garcia **Ph#** 956-292-7025 x.5413

2013
Appropriation

AI-41848

SUBJECT: **Budget Amendments** (increase (decrease)) in accordance with Local Government Code, Chapter 111, § 111.070, Item C (2).

Honorable Commissioners' Court of Hidalgo County:

I would like to request the following Budget Amendments (increase (decrease)) in accordance with Local Government Code, Chapter 111, § 111.070, Item C (2).

INCREASE ACCOUNT NUMBER(S)	ACCOUNT (OBJECT) NAME	AMOUNT
3-1303-419-40-124-123-0-720	PCT4 SAN CARLOS COMMUNITY CTR-BUILDINGS	1,211,000.00
3-1303-392-00-000-002-0-000	SOA1342-SALE OF CAPITAL ASSETS	1,211,000.00
TOTAL BUDGET INCREASE (DECREASE)		$ 1,211,000.00

REASON: Appropriation of monies from the Sale of Assets (Dickerson/Aguilar) for the San Carlos Community Center project.

DEPARTMENT HEAD SIGNATURE

APPROVED COMMISSIONERS' COURT

/ /
DATE

ATTEST COUNTY CLERK

AI-41858 **Purchasing Department 17. A. 1.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: Hon. Ramon Garcia, HCJudge **Submitted By:** Marty Salazar, PURCHASING DEPT.

Department: PURCHASING DEPT.

Information

CAPTION

Discussion and consideration with applicable action to procure the services of a consultant for the audit of billing/invoices from Hidalgo County's electric power providers (i.e. Reliant Energy, MVEC, CPL, Others);

BACKGROUND

Fiscal Impact

FISCAL YEAR: **ACCT. #:**

FUNDS AVAILABLE Y/N?: **MATCHING FUNDS Y/N?:**

BUDGETARY IMPACT:

Procurement would most likely result in a "contingency basis".

Form Review

Inbox	Reviewed By	Date
Purchasing Department	Marty Salazar	11/15/2013 03:32 PM
Budget & Management	Obdett Calzada	11/15/2013 03:39 PM
Glinda Pacheco	Glinda Pacheco	11/15/2013 04:56 PM
Auditor's Office	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Marty Salazar Started On: 11/15/2013 03:14 PM

Final Approval Date: 11/15/2013

AI-40774 **Purchasing Department 17. A. 2.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: Martha L. Salazar **Submitted By:** Vangie Garcia, PURCHASING DEPT.

Department: PURCHASING DEPT.

Information

CAPTION

Human Resources Dept:
a. Acceptance and approval of the continuation of the Professional Services Agreement (reviewed and approved by legal counsel) between Hidalgo County Human Resources Department and i-Docket.com, LLC for the provision of the Sapphire Human Resource (HR)software package so as to assist Hidalgo County in providing efficient HR services county-wide including the continuation of services through the life term of the software package in place by the department user; and

b. Approval to pay as claims Invoices #285914 and 286922 in the amount of $300.00 each invoice with remaining month of December's invoice thru Requisition #245375 with next year's term of January-December of 2014 monthly billing thru the 2014 Adopted Budget thus allowing Human Resource Department to submit a requisition at that time.

BACKGROUND

Invoices #285914 and 286922 considered as claims due to the agreement document being worked on the revisions requested by County's legal. Document revised and approved both by County Legal and iDocket and is ready for agenda to be processed.

Fiscal Impact

FISCAL YEAR: 2013 **ACCT. #:** 1100-415-50-190-001-0-336

FUNDS AVAILABLE Y/N?: **MATCHING FUNDS Y/N?:**

BUDGETARY IMPACT:

FISCAL YEAR: 2013 **ACCT. #:** 1100-415-50-190-002-0-336

FUNDS AVAILABLE Y/N?: **MATCHING FUNDS Y/N?:**

BUDGETARY IMPACT:

Funds available as of 11/7/13.

Attachments

iDocket Document
Invoices/Claims

Form Review

Inbox	Reviewed By	Date
Purchasing Department	Darlene Betancourt	11/05/2013 12:05 PM
Budget & Management	Obdett Calzada	11/06/2013 01:51 PM
Glinda Pacheco	Glinda Pacheco	11/07/2013 03:58 PM
Auditor's Office	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Vangie Garcia Started On: 09/14/2013 11:26 AM

Final Approval Date: 11/15/2013

Professional Services Agreement

Parties

This Agreement is effective this **19th** day of **November**, **2013** by and between iDocket.com, LLC, a Texas Limited Liability Company, whose offices are located at 1616 S. Kentucky, Bldg D Ste 100, Amarillo, TX 79102 ("iDocket") and the County of Hidalgo Texas with offices located at 208 W. Cano Street, Edinburg, TX 78539 ("County").

Project Description

The purpose of this Agreement is to provide the County a license to utilize the Sapphire Human Resource (HR) software package from iDocket.com ("Sapphire") to assist the County in providing efficient HR services county-wide. Sapphire will allow the County to securely and confidentially administrate employee records/files and associated documents. The software will assist in the management of department slots and vacancies as well as run key and essential reports.

Term

This Agreement shall commence upon signature of both parties and shall remain in full force and effect from the date hereof to December 31, 2013. After December 31, 2013 this Agreement shall automatically renew for successive twelve (12) month periods on the same terms and conditions as contained herein, unless terminated by County without cause on thirty (30) days written notice to iDocket.

Services and Products provided by iDocket

iDocket agrees to provide Sapphire software for the administration and management of County's Human Resource records.

Software Maintenance and Upgrades: iDocket shall provide maintenance for the Sapphire software provided under this Agreement stipulated under the **Costs** section contained herein. Sapphire Software Maintenance also includes any Sapphire software updates made to the software. County agrees to allow iDocket to maintain the current release of Sapphire software to ensure the latest enhancements and a uniform level of software for support. iDocket will coordinate and be responsible for the implementation of Sapphire software upgrades.

Quality of Services

The Sapphire software as provided by iDocket, is designed for maximum uptime and stability. There may be times, however, when the system becomes unusable for a short period of time. In the event of a system problem, the County is responsible for contacting iDocket support with all relevant information to the problem. The iDocket technical support will respond to problems in a timely manner, and will make a good faith effort to repair the problems as quickly as possible.

Costs

Sapphire Software: Sapphire Software license fees and all software maintenance and upgrades including but not limited to all related services for the software are provided to the County of Hidalgo, Human Resource Department for a price of three-hundred dollars ($300.00) per month.

Commitment of Current Revenues Only.

In the event that, during any term hereof, the Commissioners Court does not appropriate sufficient funds to meet the obligations of Buyer under this Agreement, Buyer may terminate this Agreement upon sixty (60) days written notice to Seller. Buyer agrees, however, to use reasonable efforts to secure funds necessary for the continued performance of this Agreement. The parties intend this provision to be a continuing right to terminate this Agreement at the expiration of each budget period of Buyer pursuant to the provisions of Tex. Loc. Govt. Code Ann. ' 271.903 (Vernon Supp. 1996).

Use of Work Product

Except as specifically set forth in writing and signed by both iDocket and the County, iDocket shall retain all copyright and patent rights with respect to programs developed under this agreement.

Confidential Information

iDocket shall hold in trust for County, and shall not disclose to any nonparty to the Agreement, any confidential information of the County. Confidential information is information that relates to County's research, development, trade secrets or business affairs, but does not include information which is generally known or easily ascertainable by non-parties of ordinary skill in computer design and programming.

Termination of Agreement

Either party may terminate this Agreement with written notice to the address stated herein in the event that either party fails to perform its obligations as stated within the above **Quality of Services** Provision. No such notice of termination shall be given, however, unless the party in default has been given prior written notice of its default and has failed to cure said default within ninety (90) days of notice.

Notwithstanding anything to the contrary herein, County may terminate this Agreement without cause on thirty (30) days written notice to iDocket.

Disputes

Any disputes between the parties related to this Contract which is not resolved through informal discussion will be submitted to a non-binding mediation. The parties to the mediation shall bear the mediation cost equally. This paragraph does not preclude a party from seeking equitable relief from a court of competent jurisdiction**.**

Limited Warranty

iDocket warrants to the County that the material, analysis, data, programs, and services to be delivered or rendered under this Agreement will be of the kind and quality designated and will be performed by qualified personnel**. iDocket makes no other warranties whether written, oral or implied, including without limitation warranty or fitness for purpose of merchantability.** In no event shall iDocket be liable for special or consequential damages, either in contract or tort, whether or not the possibility of such damages has been disclosed to iDocket in advance or could have been reasonably foreseen by iDocket.

Applicable Law

iDocket shall comply with all applicable laws in performing Services stipulated in the Agreement, but shall be held harmless for violations of any government procurement regulation to which it may be subject but to which reference is not made. **THIS AGREEMENT SHALL BE CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND IS PERFORMABLE IN HIDALGO COUNTY, TEXAS.**

Complete Agreement

This Agreement embodies the entire understanding of the parties in relation to the design, development, implementation, support, and maintenance of a case management system.

Assignment

Neither party may assign this Agreement without the prior written consent of the other party. Except for the prohibition on assignment contained in the preceding sentence, this Agreement shall be binding upon and inure to the benefit of the heirs, successors and assigns of the parties hereto.

This Agreement terminates all previous agreements between Hidalgo County and iDocket relating to Sapphier software.

Notices

Notices to iDocket shall be sent to:
Armando Balderrama, CEO
iDocket.com, LLC
P.O. Box 31023
Amarillo, TX 79120.

Notices to the County shall be sent to:
Hidalgo County Judge
302 W. University Dr.
Edinburg, Texas 78539

Attention: Esther Cortez
Dir, Human Resources, Hidalgo County
208 W. Cano Street
Edinburg, TX 78539

In witness whereof, the parties have executed this Agreement effective as of the day and date first written above.

County of Hidalgo

_____	_____
By: Hon. Ramon Garcia Date	By: Armando Balderrama Date
County Judge	CEO, iDocket.com, LLC
ATTEST:	APPROVED AS TO FORM:
	Atlas & Hall & Rodriguez, LLP
_____	_____
Arturo Guajardo Jr., County Clerk	By: Stephen L. Crain

Approved by Commissioners Court:_____

Zimbra **evangelina.garcia@co.hidalgo.tx.us**

Re: Professional Services Agreement

From : Evangelina Garcia <evangelina.garcia@co.hidalgo.tx.us>
Mon, Oct 07, 2013 03:21 PM
1 attachment
Subject : Re: Professional Services Agreement
To : Steve Crain <scrain@atlashall.com>

Thank you.....

From: "Steve Crain" <scrain@atlashall.com>
To: "Evangelina Garcia" <evangelina.garcia@co.hidalgo.tx.us>
Sent: Monday, October 7, 2013 3:23:03 PM
Subject: RE: Professional Services Agreement

Good to go.

From: Evangelina Garcia [mailto:evangelina.garcia@co.hidalgo.tx.us]
Sent: Monday, October 07, 2013 3:07 PM
To: Steve Crain
Subject: Re: Professional Services Agreement

Here you go Mr. Crain, my apologies on this agreement, hopefully, this will be it.

Thank you

From: "Steve Crain" <scrain@atlashall.com>
To: "Evangelina Garcia" <evangelina.garcia@co.hidalgo.tx.us>
Sent: Monday, October 7, 2013 2:44:44 PM
Subject: RE: Professional Services Agreement

Under the paragraph titled "Term" the word "less" should be "unless" and "(3)" should be "(30)".

From: Evangelina Garcia [mailto:evangelina.garcia@co.hidalgo.tx.us]
Sent: Monday, October 07, 2013 2:37 PM
To: Stephen L. Crain
Cc: Martha Salazar
Subject: Re: Professional Services Agreement

Mr. Crain:

iDocket.com™

Invoice

Date	Invoice#
9/10/13	285914

Bill To

Hidalgo County Human Resources
Esther A. Cortez
1615 South Closner, Ste. F
Edinburg, Texas 78539
ACCT # 05241 HIDALGOHR

Terms	Due Date
Due on receipt	09/10/13

Description	Qty	Rate	Amount
SupportFee 20131001 to 20131101		300.00	300.00

RECEIVED
SEP 20 2013
HUMAN RESOURCES

Thank you for using iDocket.com

Total 300.00

P.O. BOX 31023 AMARILLO, TX 79120
CORPORATE: 806-351-1034 FAX: 806-351-2329 TOLL FREE: 800-IDOCKET
WWW.IDOCKET.COM

iDocket.com™

Invoice

Date	Invoice#
10/11/13	286922

Bill To

Hidalgo County Human Resources
Esther A. Cortez
1615 South Closner, Ste. F
Edinburg, Texas 78539
ACCT # 05241 HIDALGOHR

RECEIVED
OCT 11 2013
HUMAN RESOURCES

Terms	Due Date
Due on receipt	10/11/13

Description	Qty	Rate	Amount
SupportFee 20131101 to 20131201		300.00	300.00

INVOICE RECEIVED BY:
_____ON_____
GOODS/SERVICES RECEIVED BY:
_____ON_____

DATE :_____
APPROVED:_____

Thank you for using iDocket.com

Total 300.00

P.O. BOX 31023 AMARILLO, TX 79120
CORPORATE: 806-351-1034 FAX: 806-351-2329 TOLL FREE: 800-IDOCKET
WWW.IDOCKET.COM

AI-41543 **Purchasing Department 17. A. 3.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: Martha L. Salazar **Submitted By:** Yolanda Velasquez, PURCHASING DEPT.

Department: PURCHASING DEPT.

Information

CAPTION

Presentation of tabulation for action by Commissioner's Court to award to multiple vendors that submitted the lowest and best bids (by category/item and meeting **all** specifications and requirements) with approval of contracts for "Janitorial Supplies, Industrial Chemicals & Supplies" for RFB 2013-147-10-09-YZV.

BACKGROUND

Recommended Vendors:
1) Gulf Coast Paper
2) Staples Contract & Commercial
3) Sysco Central Texas
4) CC Distributors
5) Performance Food Group

Fiscal Impact

FISCAL YEAR: 2014 **ACCT. #:** 2014 Budget

FUNDS AVAILABLE Y/N?: **MATCHING FUNDS Y/N?:**

BUDGETARY IMPACT:

County Wide Project - Various departments

See 2014 dept. budgets (Object code 607) for availability of funds.

On an as needed basis

Contracts shall commence on January 01, 2014
and expire on December 31, 2014

Attachments

Participation-Acceptance Sheets
Bid TAB Sheet
Legals approval of Contract
C-13-147-Gulf Coast Paper Contract
C-13-147A-Staples Contract & Commercial Inc
C-13-147B-Sysco Central Texas

C-13-147C-CC Distributors

C-13-147D-Performance Food Group

Form Review

Inbox	Reviewed By	Date
Purchasing Department	Darlene Betancourt	11/07/2013 08:58 AM
Budget & Management	Obdett Calzada	11/07/2013 09:34 AM
Manuel Chapa	Manuel Chapa	11/13/2013 02:43 PM
Auditor's Office	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Yolanda Velasquez Started On: 10/30/2013 01:37 PM

Final Approval Date: 11/15/2013

PARTICIPATION BIDDER'S LOG

BID OPENING: OCTOBER 09, 2013	**BID OPENING TIME: 9:30 A.M.**
DEPARTMENT: Hidalgo County JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES	
BID NO.: 2013-147-10-09-YZV	**BUYER: Yolanda Velasquez**

NAME OF BIDDER: COMPANY/FIRM-	BID REQUEST *VIA	SIGNATURE (IF APPLICABLE) OR INITIALS OF STAFF	DATE	ADDRESS E-MAIL & PHONE NO
1Gulf Coast Paper Co. Attn: Jorge A. Guerra	BLM	YZV	9/24/13	635 Billy Mitchell Street Brownsville, Texas 78521 Tel: 739-6846 (Cell) Gcpc415@aol.com
2 Staples Advantage Attn. Marcello Cortez	Email	YZV	9/24/13	Tel: 956-592-6542 Marcello.cortez@staples.com
3Performance Food Service Attn. Gloria Medina	TR/Email	YZV	9/24/13	Tel: 956-624-1955 (Cell) gmedina@pfgvictoria.com
4Sysco Central Texas, INC Attn. Angelica Almaraz	TR/Email	YZV	9/24/13	1260 Schwab Road New Braunfels, TX 78132-5155 Tel: 956-532-8590 Almaraz.angelica@ctx.sysco.com
5Genesis II, INC Attn. William Cox	Email	YZV	9/24/13	Tel: 803-328-6633 Genesis2inc1@ao.com
6Ecolab Attn. David Ybarra	BLM	YZV	9/24/13	14340 Torrey Chase Blvd #125 Houston, Texas 77014 Tel: 800-352-5326 Cell: 361-438-7363 David.ybarra@ecolab.com
7Rio Paper & Supply, LLC Attn. Jesus A. Sanchez	Email	YZV	9/24/13	Tel: 956-782-5111 jessiesriopaper@yahoo.com
8P & G Professional Field Sales Support Attn. Jeanne Ruter	Email	YZV	9/25/13	Tel: 513-983-3384 Ruter.jm@pg.com
9Prime Vendor Inc. Attn. Kimberly Doumit	Email	YZV	9/25/13	4622 Cedar Avenue Wilmington NC 28403 Tel: 800-746-9554 Bids20@prime-vendor.com
10 Unipak Corp Attn. Brian Marcus	Email	YZV	9/25/13	POBox 300027 Brooklyn , New York 11230 Tel: 718-677-1065 unipakcorp@ao.com

***VIA:**

IN PERSON (IP)
E-MAIL REQUEST (EMR)
TELEPHONE REQUEST (TR)
BIDDER LIST MAIL OUT (BLM

PARTICIPATION BIDDER'S LOG

BID OPENING: OCTOBER 09, 2013	**BID OPENING TIME: 9:30 A.M.**
DEPARTMENT: Hidalgo County JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES	
BID NO.: 2013-147-10-09-YZV	**BUYER: Yolanda Velasquez**

NAME OF BIDDER: COMPANY/FIRM-	BID REQUEST *VIA	SIGNATURE (IF APPLICABLE) OR INITIALS OF STAFF	DATE	ADDRESS E-MAIL & PHONE NO
11 ePoly Star, Inc Attn. Gabriella Bias	Email	YZV	9/25/13	Tel: 800-793-3088 ext 102 gabriella@epolystar.com
12 American MRO Products (AMRO) Attn. Ted Dowling	Email	YZV	9/26/13	Tel: 855-949-2676 tdowling@amroproducts.com
13 Performance Safety Group (PSG) Attn. Drew Allrich	Email	YZV	9/26/13	781A Rudder Road St. Louis, MO 63026 Tel: 636-326-4568 drew@psggear.com
14CC Distributors Attn. Aida Gonzales	Email	YZV	9/26/13	Tel: 956-367-9090 agonzales@ccdistributors.com
15 Cielo Office Products Attn. Connie Cavazos	Email	YZV	9/26/13	1209 E. Hackberry Avenue McAllen, Texas 78501 Tel: 956-688-6001 cielo@cielooffice.com
16 Pyramid School Products Attn. Bid Department	Email	YZV	9/27/13	6510 North 54th Street Tampa, Florida 33610-1908 Tel: 800-792-2644 bids@pyramidsp.com
17Central Poly Corp Attn. Angelica Santos	Email	YZV	9/27/13	2400 Bedle Place Linden, NJ 07036 Tel: 908-862-7570 angie@centrapoly.com
18P&G Professional Field Sales Support Attn Jeanne Ruter	Email	YZV	9/30/13	Tel: 513-983-3384 Ruter.jm@pg.com
19Calico Industries, INC Attn. Jacqueline Lanham	Email	YZV	9/30/13	9045Junction Drive Annapolis Junction , MD 20701 Tel: 800-638-0828 ext 251 jlanham@calicoindustries.com
20Dyna Pak Corporation Attn. Dale Miklich	Email	YZV	9/30/13	112 Helton Drive Lawrenceburg, TN 38464 Tel: 800-759-3962 info@dynapak.com
21. Boritex INC Attn. Jose Ramos	Email	YZV	9/30/13	P.O. Box 171088 Arlington, Texas 76003-1088 Tel: 817-467-1237 boritex@swbell.net

***VIA:**

IN PERSON (IP)
E-MAIL REQUEST (EMR)
TELEPHONE REQUEST (TR)
BIDDER LIST MAIL OUT (BLM

HIDALGO COUNTY PURCHASING DEPARTMENT
ACCEPTANCE SHEET

DEPARTMENT NAME/ DESCRIPTION OF BID: Hidalgo County- Janitorial Supplies, Industrial Chemicals & Supplies

BID OPENING DATE: OCTOBER 09, 2013	**BID OPENING TIME: 9:30 A.M.**
BID NO: 2013-147-10-09	**BUYER: Yolanda Velasquez**

NAME OF COMPANY	ACKNOWLEDGEMENT RECEIPT
1) United Laboratories*	√
2) All American Poly *	√
3) Cielo Office Products, McAllen, Texas	√
4) Central Poly Corp.*	√
5) Gulf Coast Paper Co., Brownsville, Texas	√
6) CC Distributors, La Feria, Texas	√
7) Performance Food Group (PFG) (Vistar Management), Victoria, Texas	√
8) Sysco Central Texas Inc, New Braunfels, Texas	√
9)EcoLab INC*	√
10) Staples, Brownsville Texas	√
11) Interboro Packaging Corp.*	√

*Vendors 1, 2, 4, 9 and 11 did not meet specifications/requirements.

HIDALGO COUNTY
"JANITORIAL SUPPLIES INDUSTRIAL CHEMICAL SUPPLIES
RFB 2013-147-10-09-YZV

	DESCRIPTION OF ITEMS	PARTICIPATING VENDORS																					
		Gulf Coast Paper-Brownsville, TX				VISTAR Management - PFG Group-Victoria, TX				Cielio Office Products-McAllen, TX				Sysco Central TX, New Braunfels, TX				CCDistributors, La Feria, TX				STAPLES, SAN ANTONIO/HOUSTON			
		BRAND	QTY. per CASE	PRICE PER CASE	UNIT PRICE	BRAND	Qty per CASE	PRICE PER CASE	UNIT PRICE	BRAND	Qty per CASE	PRICE PER CASE	UNIT PRICE	BRAND	Qty per CASE	PRICE PER CASE	UNIT PRICE	BRAND	Qty per CASE	PRICE PER CASE	UNIT PRICE	BRAND	Qty per CASE	PRICE PER CASE	UNIT PRICE
1	3M Green 6x9 Scouring Pads 20/box (96HP)or equal	Americo	60	$18.00	$0.30	First Mark	1/20ct	$7.52	$0.38	3M	1.00	$33.99	$11.33	3M	1/20ct	$9.24	$0.46	Norton	60 cs	$18.77	$0.31	3M	10 PK	$55.00	$5.50
2	3M Griddle Screens 10 per pack (200) or equal	3M	200	$64.51	$0.32	First Mark	10/20ct	$42.60	$0.21					3M	10/20ct	$50.21	$0.25								
3	Air Freshener - Aerosol Asst Scents	Spartan	12/16 oz	$32.43	$2.70	First Mark	6/32 oz	$37.07	$6.18					Sys Rel	6/7.9oz	$36.53	$6.08					Staples	12/ct	$34.29	$2.86
4	Air Freshener - Time Mist Asst Scents 6.6 oz.	Vectair	12/6.6oz	$27.93	$3.16													Time Mist	12	$47.69	$3.97	Staples	12/ct	$34.29	$2.86
5	Ant & Roach Spray Odorless	Carrol Co	12/15 oz	$66.51	$5.54									Keystone	6/15 oz	$48.13	$8.02					Raid	17oz/12ct	$38.16	$3.18
6	Ant & Roach Spray Odorless to contain deltamaetrin	Carrol Co	12/15 oz	$66.51	$5.54																	Raid	17 oz/12ct	$38.16	$3.18
7	Bowl Cleaner - Liquid (Non Acid) EPA Registered	Spartan	12/32 oz	$18.60	$1.55										6/32 oz	$28.16	$4.69	Betco	12 qts	$18.72	$1.56	Staples	1qt/12ct	$25.50	$2.13
8	Bowl Cleaner - Liquid 23%-26% HIC EPA Registered	Spartan	12/32 oz	$17.71	$1.48	First Mark	6/1qt	$25.60	$4.27									Betco	12qts	$19.87	$1.66	Spectrum	32oz/12 ct	$23.84	$1.99
9	Bowl Mops (Rayon) or equal	Tolco	1	$0.64	$0.64	Impact	1/1 ea	$0.93	$0.93					Con Mfg	1 ea	$0.96	$0.96	Wilen	ea	$0.61	$0.61	Unisan	12 ea	$8.28	$0.69
10	Brooms (Plastic Angle) or equal	Continental	12	$71.83	$5.98	First Mark	1/12in	$5.99	$5.99	Genuine Joe	1.00	$5.37	$5.37	Sysco				Wilen	ea	$5.82	$5.82	O'Dell	12ct	$59.64	$4.97
11	Brooms - Janitorial Straw	Willen	12	$79.44	$6.62	First Mark	12/13in	$69.10	$5.76	Genuine Joe	1.00	$7.86	$7.83	Sysco	1/54 in	$15.90	$15.90	Continental	#28	$5.30	$5.30	O'Dell	12ct	$81.84	$6.82
12	Brooms Maids Straw (Waco) or equal	Willen	12	$55.20	$4.60									Sysco	6/32 oz	$42.89	$7.15	Continental	#17	$4.90	$4.90	O'Dell	12ct	$81.84	$6.82
13	Carpet Shampoo - Liquid Ammonia Free	Carrol Co	4	$45.79	$11.45					Simple Green	1.00	$28.24	$14.12					Betco	4/1gal	$44.55	$11.14	Sustainable E	4/1gal	$63.26	$15.82
14	Carpet Powder & Deodorizer	Big D	6/16oz	$29.83	$4.97													Purex	12/15 oz	$31.71	$2.64				
15	Carpet Shampoo Liquid	Spartan	4/Gal	$26.61	$6.65																	Sustainable E	4/1gal	$63.26	$15.82
16	Carpet Spot Remover 32 oz	Spartan	12/32 oz	$19.63	$1.64					Reckitt Bencki	1.00	$71.56	$71.56					Betco	12 qts	$32.49	$2.71	Sustainable E	12/1qt	$45.96	$3.83
17	Carroll Heavy Duty Chemical Deodorant 4/1 Gallons or equal	Carrol Co	4/gal	$43.20	$10.80													Betco	4/1gal	$61.21	$15.30	Staples	4/1gal	$58.13	$14.53
18	Cleaner - Diversey General Pupose 4/1 Gallons or equal	Diversey	4/gal	$39.45	$9.86	First Mark	6/1qt	$30.90	$5.15									Betco	4/1gal	$51.05	$12.76	Staples	4/1gal	$27.54	$6.89
19	Cleaner Oven 24 oz. Foam Cleaner	Carroll	12/19 oz	$41.76	$3.48	Easy Off	6/24 oz	$38.45	$6.41					Easy Off	6/24 oz	$30.07	$5.01	Betco	12/18 oz	$40.00	$3.33	Diversey	12/19oz	$52.92	$4.41
20	Cleaner Stainless Steel waterless based	Spartan	12/16 oz	$43.68	$3.64	First Mark	6/16 oz	$35.44	$5.91	Genuine Joe	1.00	$41.40	$3.45									Staples	12/19oz	$32.28	$2.69
21	Continental 18" Rubber floor squeegees (1800) or equal	Continental	1	$14.50	$14.50	O Cedar	1/1ct	$10.96	$10.96					Carlisle	1/ 18in	$25.39	$25.39	Lunger	ea	$16.61	$16.61				
22	Continental 24 " Rubber floor squeegee (2400) or equal	Continental	1	$15.40	$15.40	O Cedar	1/1ct	$10.96	$10.96					Carlisle	1/24 in	$25.39	$25.39					Unger	12 cs	$324.84	$27.07
23	Degreaser - 55 Gallon	Spartan	1/gal	$252.77	$252.77													Betco	ea	$321.50	$321.50	Sustainable E	ea	$853.29	$853.29
24	Detergent - Colgate Palmolive Dishwashing 12/32 or equal	Palmolive	9/850ml	$27.92	$3.10	First Mark	4/1gal	$48.32	$12.08					Palmolive	4/1 al	$49.22	$12.31					Staples	4/1gal	$44.24	$11.06
25	Detergent Power Dishwashing (Cream Suds) or equivalent - 50 lb box	Cream Suds	50 lb	$102.56	$102.56	Packer	1/50 lb	$40.88	$40.88					Crmsuds	1/50#	$88.64	$88.64					Staples	50lb ea	$15.38	$15.38
26	Dishwashing Capsules - US Chemicals 6/8 lb(failsafe) or equal	US Chemicals	4/8 lb	$96.00	$24.00									Ecolab	4/9lb	$88.65	$22.16								
27	Dishwashing Liquid 32 oz (Dawn) or equal	Palmolive	9/887 ml	$27.92	$3.10	Dawn	8/38 oz	$37.73	$4.72	Genuine Joe	1.00	$28.80	$2.40	Dawn D	6/32 oz	$27.88	$4.65					Staples	4/1gal	$44.24	$11.06
28	Dishawaing Liquid 42 oz (Dawn) or equal	Dawn	4/1 gal	$61.68	$15.42	Dawn	8/38oz	$37.73	$4.72		1.00	$42.96	$5.37	Dawn D	8/38 oz	$33.18	$4.15					Staples	4/1gal	$44.24	$11.06
29	Disnefectant & Deodorizer Cleaner Aerosol	15 oz	12/15 oz	$35.32	$2.94									Keystone	6/14 oz	$28.82	$4.80	Betco	12/14 oz	$41.45	$3.45	Staples	12/16oz	$28.83	$2.40
30	Disinfectant Cleaner Carrol Clear Pine Mop 4/1 GAL (Pine1) or equal	Tidal Wave	4/1 gal	$30.00	$7.50	Slvr Srv	4/1gal	$25.05	$6.26					Keystone	4/1 gal	$27.27	$6.82	Montgomery	4/1gal	$16.00	$4.00	Staples	4/1gal	$32.39	$8.10
31	Disinfectant Cleaner Carrol Clear Lemon Mop 4/1 Gal (Lemon1) or equal	Tidal Wave	4/1gal	$33.00	$8.25									Sys Rel	4/1gal	$25.23	$6.31	Montgomery	4/1gal	$16.68	$4.17	Staples	4/1gal	$32.39	$8.10
32	Disinfectant Deodorant Spray - Hospotal (Tuberculicial RatedO	Spartan	12/15 oz.	$35.32	$2.94					Prof. Lysol	1.00	$76.56	$6.38	Ecolab	2/2ltr	$85.99	$43.00	Betco	12/16 oz	$38.50	$3.21	Staples	12/16oz	$28.83	$2.40
33	Disinfectant Deodorant Spray Aerosol - Hospital (1 Minute Kill time)	Spartan	12/15 oz.	$35.32	$2.94					Spray Nine	1.00	$36.96	$3.08	Keystone	6/14 oz	$28.82	$4.80					Staples	12/16oz	$28.83	$2.40
34	Disinfectant Deodorant Spray Hospital	Spartan	12/15 oz.	$35.32	$2.94									Keystone	6/14 oz	$28.82	$4.80	Ricket	12/19 oz	$71.85	$5.99	Staples	12/16oz	$28.83	$2.40
35	Disninfenct Foam Cleaner - Hospital	Spartan	12/18 oz	$29.32	$2.44					Prof. Lysol	1.00	$38.16	$3.18	Keystone	6/19 oz	$29.79	$4.97	Betco	12/18 oz	$31.83	$2.65	Staples	12/20oz	$25.08	$2.09
36	Disinfectant - Cleaning compound for Animal Cage - Consuem Eco-Lyzer (spartan) or equivalent	Spartan	4/1 gal	$44.76	$11.19									Ecolab	2/1.3ltr	$38.75	$19.38	Betco	4/1gal	$45.36	$11.34	Virustat DC	4/1gal	$70.60	$17.65
37	Disinfectant/Deodorant Spray - Diversely 12/15 oz. (Endbac1) or equal	Diversey	12/15 oz.	$58.00	$4.83									Keystone	6/14 oz	$28.82	$4.80	Betco	12/16 oz	$38.50	$3.21	Staples	12/16oz	$28.83	$2.40
38	Dispenser - Air Freshener Time Mist	Vectair	1	$25.28	$25.28	Time Mist	1/1ct	$18.86	$18.86					Sys Rel	1 ea	$23.34	$23.34	Time Mist	ea	$27.32	$27.32	Staples	12 ea	$273.48	$22.79
39	Dispenser Roll Paper Towel - Lever or Crank (Metal or Plastic)	Georgia Pacif	1	$18.29	$18.29	Tork	1/1ct	$42.95	$42.95	Georgia Pacif	1.00	$36.19	$36.19	Sysco	1 ea	$35.04	$35.04					San Jamar I	ea	$63.82	$63.82
40	Dispensers - Liquid Hand Soap (Bulk Soap)	Spartan	1	$12.00	$12.00	First Mark	4/1gal	$39.30	$9.83	Genuine Joe	1.00	$443.52	$18.48	Impact	1 ea	$16.68	$16.68	Imp 9330	ea	$12.00	$12.00	Impact Cle	ea	$13.25	$13.25
41	Dispensers- Paper Towels Multi Fold Universal (Metal)	Georgia Pacif	1	$18.96	$18.96					Genuine Joe	1.00	$98.46	$16.41	Sanj Mar	1 ea	$34.82	$34.82					Bobrick	ea	$41.63	$41.63
42	Dispesers-Paper Towels Multi Folds Universal (Plastic)	Georgia Pacif	1	$22.00	$22.00					Georgia Pacif	1.00	$21.06	$21.06	Sanj Mar	1 ea	$34.82	$34.82	San Jamar	ea	$28.62	$28.62	Georgia Pac	ea	$19.12	$19.12
43	Dust Cloths (Disposable) Yw	Georgia Pacif	200	$54.71	$0.27					Georgia Pacif	1.00	$54.32	$13.58									Impact Micro	12 ea	$9.81	$0.82
44	Dust Cloths - Non Disposable																	CPI Microfiber	12pkg	$9.00	$0.75	Imapct Micro	12 ea	$9.81	$0.82
45	Dusp Mop 24"x3 Don Disposable																					O'Dell	12 ea	$36.12	$3.01
46	Dusp Mop 24" x 5 Non -Disposable	Rubbermaid	1	$10.78	$10.78					Genuine Joe	1.00	$113.16	$9.43	Sysco	1 set	$33.11	$33.11	Hillyard	ea	$5.66	$5.66	O'Dell	12 ea	$36.12	$3.01
47	Dust Mop 24"x3 Non-Disposalbe																					O'Dell	12 ea	$36.12	$3.01
48	Dust Mop 24" x 5 Disposable	Willen	1	$5.87	$5.87																	O'Dell	12 ea	$36.12	$3.01
49	Dust Mop Frames 24 x 5	Willen	1	$2.13	$2.13					Genuine Joe	1.00	$45.12	$3.76					Hillyard	ea	$2.22	$2.22	O'Dell	12 ea	$27.00	$2.25
50	Dust Mop Handles -Swivel Snap On	Willen	1	$5.60	$5.60					Genuine Joe	2.00	$13.52	$13.52					Hillyard	ea	$7.90	$7.90	O'Dell	12 ea	$70.08	$5.84
51	Dust Mop Treatment (Aerosol)	Spartan	12/16oz	$37.29	$3.11													Hillyard	12/16 oz	$34.40	$2.87	Staples	12 ea	$30.24	$2.52
52	Dust Mop Treatment TRU Equal	Spartan	12/32 oz	$22.69	$1.89													Hillyard	12 qts	$85.61	$7.13	Staples	12 ea	$30.24	$2.52
53	Dust Pan Metal - Lobby or equal					Impact	1 ea	$30.15	$30.15					Con Mfg	1/16"	$10.62	$10.62	Continental	ea	$14.63	$14.63	Impact	ea	$39.00	$3.25
54	Dust Pan Plastic- Lobby or equal	Rubbermaid	1	$6.50	$6.50	First Mark	1 ea	$10.70	$10.70					Sysco	1 ea	$13.36	$13.36	Continental	ea	$6.40	$6.40	Rubbermaid	12 ea	$51.48	$4.29
55	Enzyme Deodorizers - per gallon Liquid	Spartan	4/1gal	$35.00	$8.75	First Mark	1/5 gal	$97.40	$19.48					Ecolab	6/24 oz	$91.18	$15.20	Betco	4/1gal	$42.87	$10.72	Staples	4/1gal	$36.48	$9.12
56	Feather Duster Extensions 12 ft																					O'Dell	12 ea	$52.20	$4.35
57	Feather Duster Extensions 8ft																	Rubbermaid	ea	$28.28	$28.28	O'Dell	12 ea	$52.20	$4.35
58	Feather Dusters 21 inch Ostrich or equal	Lambskin	1	$5.73	$5.73					Wilen Profes	1.00	$70.44	$5.87					IMP 4603	ea	$8.32	$8.32	O'Dell	12 ea	$52.20	$4.35
59	Feather Dusters 26 inch Ostrich or equal	Lambskin		$5.20	$5.20													EIMP 46604	ea	$13.87	$13.87	O'Dell	12 ea	$52.20	$4.35
60	Floor Cleaner - Diversey Citrus Stride neutral 5 gal Bx (Stride) or equal	Diversey	1	$24.08	$24.08									Sysco	1/5 gal	$54.29	$54.29					Sustainable E	4/1gal	$57.01	$14.25
61	Floor Cleaner - Diversey Floral Frangrance Nral 4/1 Gal (FLStride14) or equal	Diversey	4/1 gal	$23.09	$5.77	First Mark	4/1 gal	$72.50	$18.13	Genuine Joe	1.00	$20.96	$5.24					Betco	4/1gal	$24.03	$6.01	Sustainable E	4/1gal	$57.01	$14.25
62	Floor Finish/Wax - Diversey 5 Gal (Vectra5) or equal	Diversey	1	$71.07	$71.07					RMC	1.00	$77.92	$77.92					Betco	pail	$65.98	$65.98	Staples	5 ga	$56.26	$56.26
63	Furniture Polish aerosol	Spartan	12/18 oz	$31.44	$2.62					Genuine Joe	1.00	$35.16	$2.93	Keystone	6/17 oz	$27.55	$4.59	Betco	12/17 oz	$35.24	$2.94	Staples	12/19oz	$27.43	$2.29
64	Glass Cleaner - Liquid concentrate (Spartan) or equal	Spartan	4/1 gal	$33.57	$8.39					ZEP	1.00	$32.56	$8.14	Ecolab	1/2.5 gal	$65.15	$65.15	Betco	4/1gal	$68.99	$17.25	Sustainable E	4/1gal	$53.49	$13.37
65	Glass Cleaner RTU-32 oz (Spartan) or equal	Spartan	12/32 oz	$21.32	$1.77	Slvr Srv	4/1 gal	$15.91	$3.98	Genuine Joe	1.00	$27.00	$2.25	Keystone	12/100 g	$25.31	$2.11	Betco	12qts	$20.72	$1.73	Brighton	12/32oz	$19.49	$1.62
66	Hand Cleaner - Waterless	Gojo	6/4.5	$93.82	$15.64									Ecolab	4/1 gal	$141.70	$35.43	Betco	6/4.5	$57.41	$9.57				
67	Hanging Toilt Bowl Blocks	Fresh Prods	12	$8.56	$0.71									Keystone	12/100g	$25.31	$2.11	Krystal	12 bx	$9.00	$0.75	Rochester	12bx	$12.38	$12.38
68	Heavy Duty Laundry Detergent (for Commercial Laundry System)	Spartan	1/5 gal	$74.00	$74.00	First Mark	1/5 gal	$91.00	$91.00					Sys Rel	1/25 lb	$28.67	$28.67	Kitter	pail	$47.08	$47.08	Staples	50lb ea	$15.38	$15.38
69	Janitorial Cart w/Yellow Vinyl Bag-Rubbermaid (6173) or equal	Rubbermaid	1	$101.25	$101.25	Rubbermaid	1 ea	$109.45	$109.45									Continental	ea	$100.56	$100.56	Rubbermaid	ea	$186.79	$186.79
70	Mop Bucket combo Std Size (Rubbermaid 7580) or equal	Rubbermaid	1	$47.00	$47.00	O Cedar	1 /32 qt	$56.78	$56.78					Rubbermaid	1/35qt	$86.73	$86.73	Continental	ea	$41.14	$41.14	Rubbermaid	ea	$63.32	$63.32
71	Mop Handles Fiber Glass 54"Jr. Etc. or equal	Impact	1	$15.43	$15.43									Sysco	1/54"	$25.74	$25.74	Wilen-A70612	ea	$8.12	$8.12	Rubbermaid	12 ea	$110.52	$9.21
72	Mop Handles Wood 54" Junior	Unisan	1	$6.50	$6.50									Sysco	6/60"	$51.25	$8.54	Wilen-A70312	ea	$7.55	$7.55	Rubbermaid	12 ea	$72.60	$6.05
73	Mop Head Cotton - Size 16 oz.	Willen	12	$31.80	$2.65	O Cedar	1/3 ct	$6.79	$2.26	Genuine Joe	1.00	$49.32	$4.11	Sysco	1/3 ct	$11.14	$3.71	Wilen-A401110	ea	$2.50	$2.50	Rubbermaid	12ea	$25.44	$2.12
74	Mop Head Cotton - Size 24 oz.	Willen	12	$44.54	$3.71	First Mark	1/3 ct	$13.99	$4.66	Genuine Joe	1.00	$57.96	$4.83	Sysco	1/3ct	$15.97	$5.32	Wilen A401124	ea	$3.50	$3.50	Rubbermaid	12 ea	$22.08	$1.84
75	Mop Head Cotton - Size 32 oz.	Willen	12	$59.54	$4.96									Sysco	1/3ct	$21.02	$7.01	Wilen A401132	ea	$4.70	$4.70	Rubbermaid	12 ea	$28.32	$2.36
76	Mop Head Rayon Size 16 oz.	Willen	12	$41.28	$3.44					Genuine Joe	1.00	$55.44	$4.62	Sysco	1/3ct	$22.99	$7.66	Wilen A911112	ea	$2.71	$2.71	O'Dell	12 ea	$27.24	$2.27
77	Mop Head Rayon Size 24 oz.	Willen	12	$61.94	$5.16	Slvr Srv	1/3 ct	$12.96	$4.32	Genuine Joe	1.00	$71.28	$5.94					Wilen A913120	ea	$4.05	$4.05	Rubbermaid	12 ea	$40.80	$3.40
78	Mop Head Rayon Size 32 oz.	Willen	12	$80.76	$6.73																	Rubbermaid	12 ea	$58.56	$4.88
79	Mosquito Repellent Lotion																								
80	Mosquito Repellent Spray	Off	12/6 oz	$65.72	$5.78									Keystone	6/15 oz	$48.13	$8.02	SC Johnson	6 oz. case	$65.64	$5.47	Deep Woods	12ea	$59.04	$4.92
81	Odor Eliminator - Non Aerosol	Spartan	12/32 oz	$22.39	$1.87									Keystone	6/32 oz	$35.14	$5.86	Betco	4/1gal	$61.21	$15.31	Staples	12/1qt	$44.40	$3.70
82	Premium Foam Antibacterial Soap Refill (GOJ536202) or equal	Gojo	2	$46.00	$23.00									Ecolab	4/1 gal	$141.25	$35.31	Betco	4/1gal	$40.09	$10.02	Gojo TFX	3/40.5 oz	$67.80	$22.60
83	Purell Hand Sanitizer Refill (GOJ545604) or equal	Gojo	4	$71.86	$17.96	Purell	6/800 ml	$44.60	$7.43					Ecolab	20 ea	$4.15	$0.20	Betco	4/1gal	$49.58	$12.40	Gojo Purell	3/40.5oz	$44.70	$14.90
84	Royal Griddle Bricks for Cleaning Grills 12 box (GBRICK) or equal	Royal	12	$26.00	$2.17	3M	1/12 ct	$17.84	$1.49					Sysco	12/8x4	$21.10	$1.76								
85	Saddle Bag (SB8.5Clr 6.5x7) or equal	Tidi Prods	2000	$27.95	$0.01	AEP	1/2000CT	$38.00	$0.02					Sysco	2000/6.5x7	$11.03	$0.01								
86	Scouring Sponges Yw/Green Standard Size 3M or equal	3M	20	$34.48	$1.72					3M	1.00	$29.16	$4.86	Scthbrt	1/20 ct	$9.53	$0.05					3M Scoth-B	10pk	$19.87	$19.87
87	Scrubbing Cleansers 21 oz (Comet) or equal	Ajax	24/21 oz	$26.36	$1.09					P&G	1.00	$36.72	$1.53	Comet C	24/210oz	$29.84	$1.24	CPC Ajax	case	$23.85	$23.85	Staples	12/1qt	$29.01	$2.42
88	Soap - Liquid Hand Antbacterial per gal (pearl hand cleaner) or equal	Spartan	4/1 gal	$30.80	$7.70	First Mark	4/1 gal	$36.70	$9.18						4/1 gal	$60.15	$15.03	Betco	4/1gal	$40.64	$10.16	Bringhton Pro	4/1gal	$22.34	$5.60
89	Soap Anti Bacterial - Bar 3.5 oz. (1,000 per case)																					Dove	8pk	$13.14	
90	Soap Bar 75 oz. - (1,000 per case)	Cashmere	1,000	$69.00	$0.07													Dial	1000cs	$80.60	$80.60				

	DESCRIPTION OF ITEMS	PARTICIPATING VENDORS																							
		Gulf Coast Paper-Brownsville, TX				VISTAR Management - PFG Group-Victoria, TX				Cielio Office Products-McAllen, TX				Sysco Central TX, New Braunfels, TX				CCDistributors, La Feria, TX				STAPLES, SAN ANTONIO/HOUSTON			
		BRAND	QTY. per CASE	PRICE PER CASE	UNIT PRICE	BRAND	Qty per CASE	PRICE PER CASE	UNIT PRICE	BRAND	Qty per CASE	PRICE PER CASE	UNIT PRICE	BRAND	Qty per CASE	PRICE PER CASE	UNIT PRICE	BRAND	Qty per CASE	PRICE PER CASE	UNIT PRICE	BRAND	Qty per CASE	PRICE PER CASE	UNIT PRICE
91	Soap Hand - Liquid (Bag in Box)	Kim Clark	12/ 800 ml	$28.93	$2.41	Colgate	12/800 ml	$49.01	$4.08					Sysco	6/800 ml	$36.03	$6.01	Betco	12-900ml	$32.36	$2.70	Gojo	12/27oz	$40.25	$3.35
92	Spartan 15% Orange Togh Cleaner/degreaser 12/32 oz (OT15QT) or equal	Spartan	12/32 oz	$34.52	$2.87									Ecolab	6/32 oz	$31.73	$5.28	Betco	12qts	$32.25	$2.69	Staples	12/1gal	$38.91	$3.24
93	Spartan antiseptic/antibacterial hand soap 4/1 gal (Anti-Hsoap1) or equal	Spartan	4/1 gal	$36.40	$9.10	First Mark	4/1 gal	$36.70	$9.18					Ecolab	4/1 gal	$60.15	$15.03	Montgomery	4/1gal	$25.13	$6.28	Brighton	4/1gal	$22.34	$5.59
94	Spartan bounce back floor finish restorer 4/1 gal (Bounce1) or equal	Spartan	4/1 gal	$46.80	$11.70													Betco	4/1gal	$66.15	$16.54	Diversey		$94.21	$15.70
95	Spartan Foamy Q&A phosphoric acid shower cleaner 12/32 oz (Foamy RTU) or equal	Spartan	12/32 oz	$29.24	$2.44									Keystone	6/32 oz	$28.00	$4.67	Betco	12 qts	$28.29	$2.36	Staples	12/32 oz	$36.39	$3.03
96	Spartan Fresh Scent Deodorant spray 12/18 oz (Airfresh AER) or equal	Spartan	12/16 oz	$31.44	$2.62									Keystone	6/14 oz	$28.63	$4.77					Staples	12/10oz	$33.84	$2.82
97	Spray Bottles - 24 oz. empty bottles or equal	Tolco	1	$0.44	$0.44	Contico w/trig	1/3 ct	$5.85	$1.95	Continental	1.00	$45.00	$3.75	Con Mfg	3/24 oz	$4.43	$1.48	Continental	ea	$0.37	$0.37	Impact Pla	3pk/24oz	$3.57	$3.57
98	Spray Bottles - 32 oz. Emplty bottles or equal	Tolco	1	$0.56	$0.56	Packer	1 ea	$1.75	$1.75	Genuine Joe	1.00	$90.24	$3.76	Con Mfg	1/32 oz	$0.83	$0.83	Continental	ea	$0.37	$0.37	Unisan	12/32oz	$6.24	$0.52
99	toilet Dispenser Universal (12" Jumbo Toilet tissue)	Georgia Pacif	1	$14.00	$14.00	Tork	1 ea	$26.25	$26.25				NO BID	Georgia Pac	1 ea	$13.79	$13.79	Baywest	ea	$40.00	$40.00	Staples	ea	$7.60	$7.60
100	Toilet Seat Covers	Hospeco	5000	$34.66	$0.01	Univer	20/250ct	$63.50	$0.01	Genuine Joe	1.00	$271.30	$27.13	Hospeco	4/250 ct	$15.44	$0.02	Baywest	12/250cs	$50.00	$4.17	Rochester	5000ct	$32.30	$32.30
101	Trash Can 55 Gal -XX Large 28x58 1.5 Mil	Berry	100	$21.86	$0.22	First Mark		$19.80	$0.20					Bry Plas	100/55 -60ga	$35.87	$0.36	Continental	ea	$40.85		Rubbermaid	ea	$71.10	$71.10
102	Trash Cans & Lids 16 Gal	Rubbermaid	1	$71.00	$71.00													Continental	ea	$30.55 Can	$24.40 Lid	Rubbermaid	ea	$112.99	$112.99
103	Trash Cans & Lids 32 Gallon (Rubbermaid) or equal	Rubbermaid	1 can/1 lid	$17.25	$5.00									Sysco/	1/32 gal	$22.98	$22.98	Continental	ea	$15.34 Can	$5.00 Lid	Rubbermaid	ea	$30.00	$30.00
				Can ea	Lid ea									Carlist		$10.97	$10.97								
104	Trash Cans 10-Gal	Rubbermaid	1	$8.45	$8.45													Continental	ea	$8.40	$8.40	Staples	12 ea	$89.28	$9.44
105	Urinal Block w/Screens	Fresh	12	$20.81	$1.73					Genuine Joe	1.00	$110.16	$9.18	Keystone	12/100g	$25.46	$2.12	Impact	12ea	$14.76	$1.23	Rochester	12 bx	$12.38	$12.38
106	Urinal Blocks (Blocks Only)	Fresh	12	$5.09	$0.42													Krystal	12 ea	$7.80	$0.65	Rochester M	12ct	$85.68	$7.14
107	Urinal Deodorant Screens - Screens Onlys	Tolco	12	$9.12	$0.76	CDC	12/1ct	$14.85	$1.24									Impact	12 ea	$17.96	$1.50	Rochester M	12ct	$10.96	$0.91
108	Wasp/Hornet Spray	Spartan	12/17 oz	$42.83	$3.56													Enforcer	12/16 oz	$35.26	$2.94	Amrep	12/13.5oz	$51.84	$4.32
109	Wasp/Hornet Spray - 20 ft Stream	Spartan	12/17 oz	$42.83	$3.56													Enforcer	12/16oz	$37.61	$3.13	Amrep	12/13.5oz	$51.84	$4.32
110	Wax Stripper Floor Finish Liquid - High Speed (Vectea) (Johnson & Johnson) or equal	Spartan	4/1gal	$41.59	$10.39													Betco	pail	$65.98	$65.98	Sustainable E	5 Gal Pail	$50.81	$50.81
111	Baggies ¼ Size Slider Bag Ziploc Snack Bags (Hefty) or equal	Reynolds	500	$15.09	$0.03													Drk Ziplock	500 cs	$19.90	$19.90	Ziploc	12/50bx	$50.52	$4.21
112	Baggies 4x4 Enono Zip (Ziploc Regular Sandwich Bags) or equal	Huckster	1000	$9.80	$0.01									Hangard	2000	$11.87	$0.01	Huckster	1000cs	$8.65	$8.65	Ziploc	12/50bx	$50.52	$4.21
113	Baggies Ziploc 16x11 Gallon Size (Hefty) or equal	Reynolds	250	$25.50	$1.02	First Mark	1/250 ct	$19.78	$0.08					Elkay	250	$25.52	$0.10					Diversey Zip	1/250ct	$33.74	$33.74
114	Baggies Ziploc 7x8 Quart Size (Hefty) or equal	Reynolds	500	$27.00	$0.05	First Mark	1/500 ct	$23.15	$0.05					Elkay	500	$20.06	$0.04					Ziplock	5/50ct	$19.40	$3.88
115	Baggies Freezer Bags 10x11- 200 ct (Quick Seal) or equal	Reynolds	200	$26.00	$0.13	Handgard	1/1000ct	$72.30	$0.07	Special Buy	1.00	$16.68	$16.68									Diversey Zip	ea	$33.74	$33.74
116	Butcher Paper 24"	B& H Bag	1/1,000	$28.00	$28.00	Packer	1/18 in	$22.79	$22.79					Packer	1/18"	$22.45	$22.45	Primesource	rl	$39.55	$39.55				
117	Facial Tissue (Georgia Pacific) equal or better	Georgia Pacif	30-100	$17.80	$0.59	Tork	30/100 ct	$19.41	$0.65					Georgia Pac	36/96ct	$52.31	$1.45	Bavinest	30/100cs	$22.42	$22.42	Staples ?	(flat case)	$35.76	$0.75
118	Film Wrap 18" Heavy Duty 2,000 ft. (Reynolds) or equal	Reynolds	1	$17.00	$17.00	First Mark	1/2000ft	$16.94	$16.94					Sysco	1/18"	$14.47	$14.47	Reynolds	rl	$22.85	$22.85	Anchor	ea	$18.55	$18.55
119	Film Wrap 18x3000-Heavy Duty (Reynolds) or equal	Reynolds	1	$28.90	$28.90									Sysco	1/18 in	$36.76	$36.76	Boardwalk	rl	$42.86	$42.86	Anchor	ea	$18.55	$18.55
120	Foam Bowls 6oz. w/lids	Dart	1000 ea	$30.45	$15.50									Dart	20/50ct	$27.47	$17.18	Dart	1000 cs	$16.15	$16.15				
		Price per case		Bowls	Lids											Bowls	Lids								
121	Foil Wrap 18" Heavy Duty 500 ft (Reynolds) or equal	Reynolds	1	$33.53	$33.53	Slvr Srv	1/500 ft	$28.80	$28.80					Reynolds	1/18"	$44.49	$44.49	Reynolds	rl	$32.41	$32.40	Alumax	ea	$68.30	$68.30
122	Foil Wrap Potato (Reynolds) or equal	Reynolds	3000	$55.26	$0.02	First Mark	6/500 ct	$56.10	$9.35					Sysco	6/500ct	$47.32	$0.02	Boardwalk	6/500cs	$137.15	$137.15				
123	Laced Dollies (different sizes and types)													sys Cls	1/1000	$27.00	$0.03								
124	Menu Tissue 12x12	Bagcraft	10,000	$94.00	$0.01	Packer	1/1000ct	$6.90	$0.01					Sysco	10/1000	$89.72	$0.01								
125	napkins 2 Ply Quarter Fold (Georgia Pacific) or equal	SCA Tork	6,000	$42.66	$0.01	Tork	12/500 ct	$38.40	$0.01	Genuine Joe	1.00	$13.91	$13.91	sys Cls	8/375 ct	$42.45	$0.01	Boardwalk	3000cs	$56.77	$56.77	Easy Nap	24ct	$56.62	$2.36
126	Pactiv or equal 9x65.2.75 foam hinged Tray	Pactiv	150	$18.94	$0.13									Pactiv	2/75 ct	$12.25	$0.08	Pactiv	200cs	$26.49	$26.49				
127	Pan Liners (Dipozo) 1,000 cs	Bagcraft	1,000	$39.90	$0.04	First Mark	1/1000 ct	$43.94	$0.44																
128	Paper Bags #10 Brown (Duro) or equal	B&H Bag	500	$12.95	$0.03	Weyerh (12#)	1/500ct	$19.88	$0.04					Sysco	2/500 ct	$26.46	$0.03	Kraft #10	4/500bl	$25.45	$25.45				
129	Paper Bags #4 Brown (Duro) or equal	B&H Bag	500	$7.60	$0.02													Kraft #4	8/500bl	$23.48	$23.48				
130	Paper Bags #8 Brown (Duro) or equal	B&H Bag	500	$11.90	$0.02	Duro	1/500 ct	$14.72	$0.03					Sysco	500 ea	$11.27	$0.02	Kraft #8	2000 bl	$24.60	$24.60				
131	Papger Bags 1/6 BBL Brown 1657 (Duro) or equal	B&H Bag	500	$35.56	$0.07	Duro	1/500 ct	$42.96	$0.09					Sysco	500 ea	$34.46	$0.07	Kraft #57	500 bl	$61.18	$61.18				
132	Paper Bags 6lbs. Brown 6BG(Duro) or equal	B&H Bag	500	$10.25	$0.02	Duro	1/500 ct	$14.72	$0.03					Sysco	500 ea	$9.54	$0.02	Kraft #6	1000 bl	$27.91	$27.91				
133	Paper Cups Portion 10 oz (Solo) or equal	Dart	2,500	$33.15	$0.01																				
134	Paper Roll Towels Kitchen (Scott 11s9) or equal	Georgia Pacif	30/100	$23.38	$0.78					Special Buy	1.00	$21.51	$21.51	Sys Cls	12/210 sht	$21.45	$1.79	Baywest41000	30/90cs	$20.65	$20.65	Staples Brig	30rls	$22.73	$0.76
135	Paper Towels Brown Rolls Standard Size (Georgia Pacific) or equal	SCA Tork	12/350	$17.06	$1.42	Univer	12/350 ft	$16.98	$1.42	Special Buy	1.00	$18.61	$18.61	Sysco	12/210 sht	$21.66	$1.81	Baywest46200	12/350cs	$16.52	$16.52	Scott JRT	6ct	$51.39	$8.57
136	Paper Towels Multi Folds	Georgia Pacif	4,000	$15.29	$0.00	Univer	16/250 ft	$15.10	$0.94	Special Buy	1.00	$18.07	$18.07	Sys Imp	16/150 ct	$27.14	$0.01	Beywest48000	20/200cs	$16.99	$16.99	Staples Brig	4000pk	$18.93	$18.93
137	Paper Towels Multi Folds White Bleached 9.25x9.5	Georgia Pacif	4,000	$18.35	$0.00	Univer	16/250 ft	$17.92	$1.12	Special Buy	1.00	$16.87	$16.87	Georgia Pac	16/125 ct	$24.21	$0.01	Baywest48500	20/200cs	$20.01	$20.01	Staples Brig	4000pk	$18.93	$18.93
138	Paper Towels (GEP89460) En-motion high capacity - white 10x800 or equal	Georgia Pacif	6/800	$48.41	$8.07					Special Buy	1.00	$21.57	$21.57	Georgia Pac	6/800 ft	$58.95	$9.83					Georgia Pac	6/ct	$54.94	$9.16
139	Styrofoam Bowl - 6 oz 1,000 case	Dart	1,000	$30.45	$0.03	Dart	20/50 ct	$29.35	$0.29					Dart	20/50 ct	$27.41	$0.03								
140	Styrofoam Bowls 12 oz (Pacific 10012) equal or better	Dispozo	1,000	$23.40	$0.02	First Mark	8/125 ct	$23.92	$0.24					Sys Rel	8/125 ct	$16.54	$0.02	Pactiv	8/125 cs	$30.21	$30.21	Solo Foam	1000ct	$29.51	$29.51
141	Styrofoam Cup 8 oz (8J8) or equal	Dart	1,000	$20.30	$0.02	First Mark	40/25 ct	$18.74	$0.19					Dart	40/25ct	$16.90	$0.02	Dart	1000cs	$19.40	$19.40	Dart Foam	1000ct	$20.69	$20.69
142	Styrofoam Cups oz. ((UJ4) or equal	Dart	1,000	$18.49	$0.02	Wincup	40/25ct	$18.98	$0.19					Dart	20/50ct	$15.40	$0.02					Dart Foam	50 pk	$31.70	$31.70
143	Styrofoam Plates 6" Laminated	Dispozo	1,000	$20.45	$0.02									sys Cls	8/125 ct	$18.27	$0.02					Dart Foam		$26.66	$26.66
144	Styrofoam Plates 6" Un-laminated	Dispozo	1,000	$20.40	$0.02	First Mark	8/125 ct	$20.11	$0.20					Sys Rel	8/125ct	$14.12	$0.01	Pactiv	4/125cs	$31.82	$31.82	Dart Foam		$26.66	$26.66
145	Styrofoam Plates 9" Divided (MobilTJ1-0011) or equal	Pactiv	500	$19.26	$0.04	First Mark	4/125 ct	$19.80	$0.04					Sys Rel	4/125ct	$13.45	$0.03	Pactiv	4/125 cs	$28.93	$28.93	Solo Foam	500ct	$21.87	$21.87
146	Styrofoam Plates 9" Laminated	Dispozo	500	$24.77	$0.05									Sys Cls	4/125 ct	$20.39	$0.04					Solo Foam	500ct	$21.87	$21.87
147	Styrofoam Plates 9" Un-Laminated	Pactiv	500	$19.26	$0.04	First Mark	4/125 ct	$19.70	$0.04					Sys Rel	4/125 ct	$13.45	$0.03	Pactiv	4/125cs	$28.93	$28.93	Solo Foam	500ct	$21.87	$21.87
148	Styrofoam Tray Hinges 9x9x3 Three Compartment w/Lid (Pactiv TUD 19903) 150 cs or equal	Pactiv	150	$15.80	$0.11	Slvr Srv	2/100 ct	$16.97	$0.08					Pactiv	150	$11.75	$0.08	Pactiv	150 cs	$25.70	$25.70				
149	Toilet Tissue (12/1000 Jr Jumbo) (Georgia Pacific) or equal	SCA Tork	12/1,000	$22.94	$1.91	Univer	12/1000	$22.35	$1.86	Special Buy	1.00	$26.21	$26.21	Georgia Pac	8/1000	$24.51	$3.06	Baywest 10020	12/1000cs	$23.40	$23.40	Staples Brig	12ct	$20.94	$1.75
150	Toilet Tissue 2 Ply Small Short Sheet (Georgia Pacific) or equal	Georgia Pacif	80/550	$34.24	$0.43	First Mark	96/500	$45.55	$0.47	Special Buy	1.00	$31.89	$31.89	Georgia Pac	60/400 sht	$53.00	$0.88	Baywest54000	96/500 cs	$34.81	$34.81	Staples Brig	96ct	$39.21	$0.41
151	Toilet Tissue (6/Jumbo 2000 ft) (Georgia Pacific) or equal	SCA Tork	6/2,000	$27.65	$4.61	Univer	6/200 0							sys Cls	Dec-00	$52.12	$4.34	Baywest 20020	6/2000cs	$23.49	$23.49	Staples Brig		$26.47	$2.21
152	Utensils Forks-Plastic 2,000 ct (James River WN F2P) or equal					First Mark	1/1000 ct	$14.02	$0.14													Staples	1000ct	$14.53	$14.53
153	Utensils Forks Pastic Dispozo - medium 1,000 ct (Solo or equal)	Dispozo	1000	$9.98	$0.01	First Mark	1/1000ct	$14.02	$0.14					Nutrbon	1000 ct	$6.88	$0.01					Staples	1,000ct	$14.53	$14.53
154	Utensils Forks - pastic medium weight white 1,000 ct (Solor or equal)	Dispozo	1,000	$9.98	$0.01	First Mark	1/1000ct	$14.02	$0.14					Solo	1000ct	$6.88	$0.01	Primesource	1000cs	$10.37	$10.37	Staples	1,000ct	$14.53	$14.53
155	Utensils Forks Clear (1,000ct)	Dispozo	1,000	$28.00	$0.03									sys Cls	1000 ct	$38.99	$0.04					Staples	1,000 ct	$14.53	$14.53
156	Utensils Spoons Plastic (Solo) or equal	Dispozo	1,000	$9.98	$0.01	Prime	1/1000ct	$10.98	$0.11					sys Cls	1000 ct	$19.86	$0.02					Staples	1000ct	$14.74	$14.74
157	Utensils Spoons Plastic 1,000 ct. (Solo) or equal	Dispozo	1,000	$9.98	$0.01	Prime	1/1000ct	$10.98	$0.11	Genuine Joe	1.00	$9.17	$9.17	Sys Rel	1000ct	$9.47	$0.01					Staples	1000ct	$14.74	$14.74
158	Utensils Spoons Plastic Dispozo Medium WMS 1,000 ct or equal	Dispozo	1,000	$9.98	$0.01	Prime	1/1000ct	$10.98	$0.11					Nutrbon	1000 ct	$6.88	$0.01					Staples	1000ct	$14.74	$14.74
159	Utensils Spoons Plastic Medium Weight white (1,000 ct)	Dispozo	1,000	$9.98	$0.01	Prime	1/1000ct	$10.98	$0.11					Sys Rel	1000 ea	$9.47	$0.01	Primesource	1000 cs	$10.37	$10.37	Staples	1000ct	$14.74	$14.74
160	Utensils Party Packs (Spoons, Forks, Knife, Napkin, Salt & Pepper)	Dispozo	250	$15.00	$0.06	Senate	1/250 ct	$14.60	$0.06					Nutrbon	250 ct	$14.14	$0.06	Primesource	250cs	$18.46	$18.46	Berk	ct	$14.66	$14.66
161	Vented Lid Dart (12J12) or equal	Dart	1,000	$15.29	$0.02	Dart	10/100ct	$13.02	$0.13					Dart	10/100 ct	$12.72	$0.01					Dart Lid	ct	$23.66	$23.66
162	Ventee Lid Dart (8J8) or equal	Dart	1,000	$12.90	$0.01	Dart	1/1000ct	$11.15	$0.11					Dart	10/100ct	$10.03	$0.01					DartLift&Lock	1000ct	$16.26	$16.26
163	Wipers Workhorse rags (Kimberly Clark) or equal	Kim Clark	912	$54.61	$0.06									Chix	150 ea	$39.40	$0.26	Kimberly Clark	cs	$20.63	$20.63	Staples	1000ct	$42.78	$42.78
164	Wipers (Kimberly Clark) 15x16.5 white (300 cs) (K41100) or equal	Kim Clark	300	$47.21	$0.16									Atlanic	150 ea	$56.76	$0.04					Staples	ct	$11.73	$11.73
165	Body Shampoo - per gallon	Spartan	4/1 gal	$30.80	$7.70													Betco	4/1gal	$53.64	$13.41	Dial	4/1gal	$47.45	$11.86
166	Deodorant - Hygiene																	Dial	24/4oz	$77.85	$77.85				
167	Lice Killer - Aerosol																	Misty Dualcide	12/20oz	$83.80	$83.80				
168	Razors - Double Edged																								
169	Sanitary Napkings Maxi No 4 Folded (Stayfree, Rochester, etc. or equal)	Hospeco	250	$31.50	$0.13													Hospeco	250 cs	$51.03	$51.03	Rochester	200ct	$38.57	$38.57
170	Sanitary Napkins Pany Liners	Hospeco	200	$38.66	$0.19																	Rochester	250ct	$32.39	$32.39
171	Sanitary Napkins Super No 4 Folded (Stayfree, Rochester, etc. or equal)		250	$31.50	$0.13																	Rochester	250ct	$38.57	$38.57
172	Sanitary Napkins Thin No 4 Folded (Stayfree, Rochester, etc, or equal)		250	$31.50	$0.13													Hospeco	250 cs	$56.02	$56.02	Rochester	250ct	$38.57	$38.57
173	Shaving Cream																								
174	Toothbrush Firm - Specify Size																								
175	Toothbrush Medium Specify Size																								
176	Toothbrush Soft Specify Size																								

	DESCRIPTION OF ITEMS	PARTICIPATING VENDORS																					
		Gulf Coast Paper-Brownsville, TX				VISTAR Management - PFG Group-Victoria, TX				Cielio Office Products-McAllen, TX				Sysco Central TX, New Braunfels, TX				CCDistributors, La Feria, TX				STAPLES, SAN ANTONIO/HOUSTON			
		BRAND	QTY. per CASE	PRICE PER CASE	UNIT PRICE	BRAND	Qty per CASE	PRICE PER CASE	UNIT PRICE	BRAND	Qty per CASE	PRICE PER CASE	UNIT PRICE	BRAND	Qty per CASE	PRICE PER CASE	UNIT PRICE	BRAND	Qty per CASE	PRICE PER CASE	UNIT PRICE	BRAND	Qty per CASE	PRICE PER CASE	UNIT PRICE
177	ToothpasteStd Size, Specify Size																								
178	Toothpaste Travel Size, Specify Size																								
179	Americo 20" Beige Ultra High Speed Burnishing Pads 5/bx(20MUHSTBP) or equal	Americo	5	$14.20	$2.84													Norton	5 BX	$15.46	$15.46	Staples B rig	5ct	$16.16	$3.23
180	Buffing Pads 17" White	Americo	5	$10.80	$2.16													Norton	5 BX	$11.74	$11.74	Staples B rig	5ct	$11.71	$2.34
181	Buffing Pads 20" White	Americo	5	$13.90	$2.78													Norton	5 BX	$15.46	$15.46	Staples B rig	5ct	$15.16	$3.03
182	Filters Windsor Exhaust for Sensor XP12 Vacuum Cleaner (5143EF) or equal	Karcher	1	$10.80	$10.80																	Windsor	1dz	$13.56	$1.13
183	Filters Windsor Micro Hygiene for Sensor XP12 Vacuum Cleaner (5301ER) or equal	Karcher	1	$29.00	$29.00																	Windsor	1dz	$89.04	$7.42
184	Stripping Pads 17" Black	Americo	5	$10.80	$2.16													Norton		$11.74	$11.74	Staples B rig	ct	$14.64	$2.93
185	Stripping Pads 20" Black	Americo	5	$13.90	$2.78													Norton		$15.98	$15.98	Staples B rig	ct	$18.68	$3.74
186	Vacuum BagsWindsor for Sensor XP12 Vacuum Cleaner 10pk (Johnson & Johnson) or equal	Karcher	10	$19.84	$1.98																	Windsor	pk	$10.13	$10.13
187	Gloves Good Service Large Clear (Brand Name)	Tidi Prods	1000	$19.69	$0.02	Slvr Srv	10/100ct	$29.70	$0.30					Sys Cls	4/100 ct	$20.03	$0.05					Tradex	bx	$43.50	$4.35
188	Gloves - Food Service Medium Clear (Brand Name)	Tidi Prods	1000	$19.69	$0.02	Slvr Srv	10/100ct	$29.80	$0.30					sys Cls	4/100 ct	$20.00	$0.05					Tradex	bx	$43.50	$4.35
189	Gloves Latex Small Disposable (Ansell) Yw or equal	Hospeco	1000	$55.89	$0.06	First Mark	4/100ct	$31.00	$0.08					sys Cls	10/100 ct	$13.37	$0.01	Memphis	10 bx/cs	$58.80	$5.88	Tradex	c	$40.26	$40.26
190	Gloves Latex Large Disposalbe	Hospeco	1000	$55.89	$0.06	Packer	10/100ct	$39.20	$0.39					sys Cls	10/100 ct	$13.39	$0.01	Memphis	10bx/cs	$58.80	$5.88	Tradex	c	$40.26	$40.26
191	Gloves Latex Large Non -Disposable Yw (Ansell) or equal	Hospeco	12	$7.20	$0.60	Packer	1 ea	$0.81	$0.81					sys Cls	4/100 ct	$18.52	$0.05	Ansell	10bx/cs	$79.10	$7.91	Tradex	dz	$6.22	$6.22
192	Gloves Latex Medium Non Disposable Yw (Ansell) or equal	Hospeco	12	$7.20	$0.60	Packer	1 ea	$0.81	$0.81					sys Cls	4/100 ct	$18.49	$0.05	Ansell	10bx/cs	$79.10	$7.91	Tradex	dz	$6.22	$6.22
193	Gloves Latex Medium Disposable (Ansell) or equal	Hospeco	1000	$55.89	$0.55	Packer	10/100ct	$39.20	$0.39					sys Cls	10/100 ct	$13.37	$0.01	Memphis	10bx/cs	$58.80	$5.88	Tradex	1000ct	$40.26	$40.26
194	Gloves Latex Small Non Disposable Yellow (Ansell) or equal	Hospeco	12	$7.20	$0.60									Sys Cls	4/100 ct	$18.49	$0.05	Ansell	10/bx/cs	$79.10	$7.91	Tradex	dz	$6.22	$6.22
195	Gloves Safety (Nitrile) SSFZGNPRXL1M or equal	Hospeco	1000	$68.16	$0.07	Food Handler	1/400 ct	$63.00	$0.16					JB Select	4/250 ct	$52.89	$0.05					Tradex	1000ct	$51.95	$51.95
196	Body Towels Standard Size																								
197	Hand Towels Standard Size					Slvr Srv	1/12ct																		
198	Trash Liners 45 Gal X-Large 40x48 16 Mic High Density Can Liner	Berry	250	$25.90	$0.10	First Mark	10/10ct	$16.23	$0.16	Special Buy	1.00	$21.51	$21.51	Sys Cls	250/40-45 gal	$34.66	$0.04	Houston Poly	cs	$31.25	$31.25	Brighton		$28.16	$28.16
199	Trash Liners -Pitt Plastics 23x33 12-16 gal Black 1000 cs (32 BL) or equal	Pitt Plastics	1000	$27.96	$0.03	AEP	1/1000ct	$26.90	$0.27	Genuine Joe	1.00	$35.32	$35.32	sys Cls	1000/12-16gal	$30.59	$0.03	Spectrum	cs	$15.11	$15.11	Brighton	1,000 ct	$19.69	$19.69
200	Trash Liners-Large Trash Can 13 MIC 30x37 High Density Can Liners	Berry	500	$22.36	$0.04	First Mark	25/20 ct	$37.50	$0.08	Special Buy	1.00	$16.64	$16.64	sys Cls	200/20-30 gal	$22.88	$0.11	Houston Poly	cs	$27.32	$27.32	Brighton	500ct	$24.38	$24.38
201	Trash Liners-Large Trash Can 16 MIC 33 Gal 33x40 Hgh Density Can Liners	Berry	250	$17.45	$0.07	First Mark	10/15ct	$16.94	$0.11	Special Buy	1.00	$30.10	$30.10	Sys Cls	150/33 gal	$20.41	$0.01	Scectrum	cs	$18.82	$18.82	Brighton	1,000ct	$19.40	$19.40
202	Trash Liners -Tall Trash Can 8 MIC 24x33 Hgh Density Can Liners	Berry	1,000	$22.50	$0.02	Interplast	20/50ct	$20.15	$0.20	Special Buy	1.00	$17.03	$30.10	sys Cls	1000/12-16 gal	$30.59	$0.03	Houston Poly	cs	$25.19	$25.19	Brighton	1,000 ct	$26.22	$26.22
203	Toilet Brushes (Standard Size) Plastic	Malish	1	$2.63	$2.63																	Rubbermaid	12 ea	$24.96	$2.08
204	Toilet Brushes - Hard Bristle Bowl Brush (0310) (Rubbermaid) or equal	Rubbermaid	1	$2.50	$2.50									Rubbermaid	1/18 in	$3.38	$3.38	WilenJ501001	ea	$1.25	$1.25	Rubbermaid	12 ea	$24.96	$2.08
205	Weed Killer (Round Up) or equal																								
206	Weed Killer 55 Gallon concentrated - specify dilution																								
207	Spartan Saitize Quart Food Service 12/32 oz (SRTU) or equal	Spartan	12/32 oz	$20.25	$1.69									Keystone	6/32 oz	$13.20	2.20	Betco	12/32 oz	$20.92	$1.74				
208	Sprayer (Trigger/Nozzles Only) Red & White	Tolco	1	$0.41	$0.41									Con Mfg	1/9 3/4 "	$0.68	$0.68	Continental	ea	$0.34	$0.34	Unisan	12pk	$6.72	$0.56
209	Bleach Disinfectant Cleaner Dry Air - Hospital	Kik Pure Brite	6	$10.62	$1.77									Keystone	6/14 oz	$28.85	$4.81					Kiki Ble	4/1gal	$8.21	$2.05
210	Bleach Pure Bright Disinfection 6/cs (BBLCH) or equal	Kik Pure Brite	6	$10.62	$1.77	First Mark	6/1gal	$9.05	$1.51					Sys Rel	6/96 oz	$11.37	$1.90	Pure Bright	6/96 oz	$11.76	$1.96	Kiki Ble	4/1gal	$8.21	$2.05
211	Bio Hazard Bag Red 40x48 3 mil	Berry	25	$16.22	$0.65																				
212	Disinfetant Wipes (Lysol) or equal	Lysol	12/35 oz	$36.00	$3.00													Clorox	6/cs	$28.05	$4.68	Staples	12pk	$32.16	$2.68

Zimbra **yolanda.velasquez@co.hidalgo.tx.us**

Fwd: RFB 2013-147 "Janitorial Supplies, Industrial Chemicals & Supplies

From : Darlene H. Betancourt <darlene.betancourt@co.hidalgo.tx.us> Wed, Nov 06, 2013 11:26 AM
Subject : Fwd: RFB 2013-147 "Janitorial Supplies, Industrial Chemicals & Supplies
To : yolanda velasquez <yolanda.velasquez@co.hidalgo.tx.us>

Ms. Yoli

See below comments in regard to Janitorial Supplies contracts. He approved em

Respectfully,

Darlene H. Betancourt, CPPB
Hidalgo County Purchasing Department
2808 S. Business Highway 281
Edinburg, TX. 78539

Phone: 956-292-7000 x-4852
Fax: 956-292-7612

website: www.co.hidalgo.tx.us/purchasing

From: "Steve Crain" <scrain@atlashall.com>
To: "Darlene H. Betancourt" <darlene.betancourt@co.hidalgo.tx.us>
Sent: Wednesday, November 6, 2013 11:27:14 AM
Subject: RE: RFB 2013-147 "Janitorial Supplies, Industrial Chemicals & Supplies

The Staples contract is fine as well as the other janitorial contracts.

From: Darlene H. Betancourt [mailto:darlene.betancourt@co.hidalgo.tx.us]
Sent: Wednesday, November 06, 2013 11:10 AM
To: Steve Crain
Subject: Fwd: RFB 2013-147 "Janitorial Supplies, Industrial Chemicals & Supplies

Mr. Crain

Attached for your review and approval

Respectfully,

Darlene H. Betancourt, CPPB
Hidalgo County Purchasing Department
2808 S. Business Highway 281
Edinburg, TX. 78539

Phone: 956-292-7000 x-4852
Fax: 956-292-7612

website: www.co.hidalgo.tx.us/purchasing

From: "Yolanda Velasquez" <yolanda.velasquez@co.hidalgo.tx.us>
To: "Darlene H. Betancourt" <darlene.betancourt@co.hidalgo.tx.us>
Sent: Wednesday, November 6, 2013 10:42:18 AM
Subject: Re: RFB 2013-147 "Janitorial Supplies, Industrial Chemicals & Supplies

Good morning,

Please forward to legal for approval as to form.

Yoli

From: "Darlene H. Betancourt" <darlene.betancourt@co.hidalgo.tx.us>

To: "yolanda velasquez" <yolanda.velasquez@co.hidalgo.tx.us>
Sent: Wednesday, November 6, 2013 10:06:25 AM
Subject: Fwd: RFB 2013-147 "Janitorial Supplies, Industrial Chemicals & Supplies

Ms. Yoli

See below Mr. Crain's response & comments in regard to Janitorial

Respectfully,

Darlene H. Betancourt, CPPB
Hidalgo County Purchasing Department
2808 S. Business Highway 281
Edinburg, TX. 78539

Phone: 956-292-7000 x-4852
Fax: 956-292-7612

website: www.co.hidalgo.tx.us/purchasing

From: "Steve Crain" <scrain@atlashall.com>
To: "Darlene H. Betancourt" <darlene.betancourt@co.hidalgo.tx.us>
Sent: Wednesday, November 6, 2013 9:30:30 AM
Subject: RE: RFB 2013-147 "Janitorial Supplies, Industrial Chemicals & Supplies

Once you change the name of the name of the Staples contract please send it to me for review. Thanks.

From: Darlene H. Betancourt [mailto:darlene.betancourt@co.hidalgo.tx.us]
Sent: Tuesday, November 05, 2013 5:13 PM
To: Steve Crain
Subject: Fwd: RFB 2013-147 "Janitorial Supplies, Industrial Chemicals & Supplies

Good Afternoon Mr. Crain

Attached for your review, comments and approval you will find the same agreement under a multiple award method for Janitorial Supplies, Etc. along with the bid packet.

Should you have any questions related to this matter do not hesitate to contact me. Thank you

Respectfully,

Darlene H. Betancourt, CPPB
Hidalgo County Purchasing Department
2808 S. Business Highway 281
Edinburg, TX. 78539

Phone: 956-292-7000 x-4852
Fax: 956-292-7612

website: www.co.hidalgo.tx.us/purchasing

From: "Yolanda Velasquez" <yolanda.velasquez@co.hidalgo.tx.us>
To: "Darlene H. Betancourt" <darlene.betancourt@co.hidalgo.tx.us>
Sent: Tuesday, November 5, 2013 3:36:50 PM
Subject: RFB 2013-147 "Janitorial Supplies, Industrial Chemicals & Supplies

Good afternoon,

Please forward contracts for legal's review as to form for the above mentioned project to be able to proceed to place and agenda item for award and contract. This project will be a multiple vendor award therefore the Exhibit "A" is the same for all contracts.

REQUIREMENTS AGREEMENT
C-13-147-11-19

THIS AGREEMENT (the "Agreement") is entered into effective as of the 19th day of November, **2013** by and between **Gulf Coast Paper Co., Inc.** ("Seller") and **Hidalgo County, Texas** ("Buyer").

WHEREAS, Buyer has solicited sealed bids for the supply of its requirements of **Hidalgo County** for the **"Janitorial Supplies, Industrial Chemicals & Supplies"** (the "Product") as further described in Exhibit "A", Request for Bids (RFB) Procurement Packet as attached hereto and incorporated herein by reference for all purposes (the "RFB") for a period of **one (1) year** and;

WHEREAS, Seller has submitted a proposal to supply Buyer's requirements; and

WHEREAS, Buyer has determine that Seller has submitted the lowest and best bid to meet Buyer's requirements for certain of the Products, as herein after described.

NOW THEREFORE, for and in consideration of the mutual covenants and conditions hereinafter set forth, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

1. Buyer agrees to purchase from Seller, and Seller agrees to sell and deliver to Buyer, all of the Products listed on Exhibit "B", which is attached hereto and incorporated herein by references, that Buyer may require for use by Buyer in Hidalgo County projects for a period of one (1) year, with the County's sole option to extend/renew for an additional two (2)-one (1) year terms based upon prior year's performance evaluation and contingent upon cost, terms and conditions remaining unchanged. Hidalgo County reserves the right to continue this bid for an additional sixty (60) day grace period, under the same rates, terms and conditions at the end of the contract term for unforeseen delays in award of new bid for the next contract term. This Contract shall commence on **January 01, 2014** and expire on **December 31, 2014** and it is agreed that the Products will meet the Specifications in the Request for Bids (RFB) Procurement Packet set forth in Exhibit "A" hereto.

2. When Buyer determines that it needs a quantity of the Products to be delivered, it will, according to its Purchasing Policies, complete and submit to Seller a Purchase Order describing the type and quantity of the Products required.

The Products are to be delivered by Buyer to the location in Hidalgo County specified by Buyer in its Purchase Order.

3. Buyer agrees to pay Seller for each Purchase Order based on the prices set out in Exhibit "B". Seller shall render invoices for each Purchase Order, and the invoices shall be paid by Buyer on or before the 30th day following receipt of the invoice.

4. General Provisions.

a. **Conflict with Applicable Law.** Nothing in this Agreement shall be construed so as to require the commission of any act contrary to law, and whenever there is any conflict between any provision of this Agreement and any present or future law, ordinance or administrative, executive or judicial regulation, order or decree, or amendment thereof, contrary to which the parties have no legal right to contract, the latter shall prevail, but in such event the affected provision or provisions of this Agreement shall be modified only to the extent necessary to bring them within the legal requirements and only during the time such conflict exists.

b. **No Waiver.** No waiver by Buyer of any breach of any provision of this Agreement shall be deemed to be a waiver of any preceding or succeeding breach of the same or any other provision hereof.

c. **Entire Agreement.** This Agreement contains the entire contract between the parties hereto, and each party acknowledges that neither has made (either directly or through any agent or representative) any representations or agreements in connection with this Agreement not specifically set forth herein. This Agreement may be modified or amended only by agreement in writing executed by Buyer and Seller, and not otherwise.

d. **Texas Law to Apply.** This Agreement shall be construed under and in accordance with the laws of the State of Texas, and all obligations of the parties created hereunder are performable in Hidalgo County, Texas. The parties hereby consent to personal jurisdiction in Hidalgo County, Texas.

e. **Notice.** Except as may be otherwise specifically provided in this Agreement, all notices, demands, requests or communications required or permitted hereunder shall be in writing and shall either be (i) personally delivered against a written receipt, or (ii) sent by registered or certified mail, return receipt requested, postage prepaid and addressed to the parties at

the addresses set forth below, or at such other addresses as may have been theretofore specified by written notice delivered in accordance herewith:

If to Buyer:	Hidalgo County Attention: County Judge 302 West University Drive Edinburg, Texas 78539
If to Seller:	Gulf Coast Paper Co., Inc. Attn. Jorge A. Guerra 635 Billy Mitchell Blvd Brownsville, Texas 78521

Each notice, demand, request or communication which shall be delivered or mailed in the manner described above shall be deemed sufficiently given for all purposes at such time as it is personally delivered to the addressee or, if mailed, at such time as it is deposited in the Unites States mail.

f. **Termination.** County may terminate this Agreement at any time for any reason or no reason at all upon giving thirty (30) days written notice.

g. **Additional Documents.** The parties hereto covenant and agree that they will execute such other and further instruments and documents as are or may become necessary or convenient to effectuate and carry out the terms of this Agreement.

h. **Successors.** This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, executors, administrators, legal representatives, successors, and assigns where permitted by this Agreement.

i. **Assignment.** This Agreement shall not be assignable.

j. **Headings.** The headings and captions contained in this Agreement are solely for convenient reference and shall not be deemed to affect the meaning or interpretation of any provision or paragraph hereof.

k. **Gender and Number.** All pronouns used in this Agreement shall include the other gender, whether used in the masculine, feminine or neuter gender, and the singular shall include the plural whenever and as often as may be appropriate

l. **Authority to Execute.** The execution and performance of this Agreement by Buyer and Seller have been duly authorized by all necessary laws, resolutions or corporate action, and this Agreement constitutes the valid and enforceable obligations of Buyer and Seller in accordance with its terms.

m. **Insurance.** Company shall provide insurance in force on all persons and vehicles connected with providing products and or services under this Contract naming County as an additional insured, and shall furnish to County certificates of such insurance coverage Exhibit "C", which is attached hereto.

n. **Commitment of Current Revenues Only**. In the event that, during any term hereof, the Commissioners Court does not appropriate sufficient funds to meet the obligations of Buyer under this Agreement, Buyer may terminate this Agreement upon ninety (90) days written notice to Seller. Buyer agrees, however, to use reasonable efforts to secure funds necessary for the continued performance of this Agreement. The parties intend this provision to be a continuing right to terminate this Agreement at the expiration of each budget period of Buyer pursuant to the provisions of Tex. Loc. Govt. Code Ann. ' 271.903 (Vernon Supp. 1996).

o. **Purchasing Ethics**. Seller represents and warrants it has not, during the process of being awarded this contract violated the following ethical standards of Buyer and, upon and after the execution of this Agreement, agrees to abide by the following ethical standards of Buyer:

(1) It shall be a breach of ethics to offer, give or agree to give any elected official, department head or employee, or former elected official, department head or employee, of Hidalgo County, or for any elected official, department head or employee or former elected official, department head or employee of Hidalgo County, to solicit, demand, accept or agree to accept from another person, entity or organization, a gratuity or an officer of employment in connection with any decision, approval, disapproval, recommendation, preparation or any part of a program requirement or purchase request, influencing the content of any specification or procurement standard, rendering of advise, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter pertaining to any program requirement or a

contract or subcontract, or to any solicitation or proposal therefore pending before any department or agency of Hidalgo County.

(2) It shall be a breach of ethics for any payment, gratuity or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor for any contract for Hidalgo County, or any person associated therewith, as an inducement for the award of a subcontract or order.

EXECUTED effective as of the day and year first above written.

Approved By Commissioners Court:_____

COUNTY OF HIDALGO

ATTEST:

By:_____
Ramon Garcia, County Judge

_____
Arturo Guajardo Jr., County Clerk

COMPANY:

By:_____

Printed Name:_____

Title:_____

APPROVED AS TO FORM:
Atlas & Hall, L.L.P.

_____
Stephen L. Crain, Attorney

EXHIBIT "A"

REQUEST FOR BIDS (RFB) PROCUREMENT PACKET

EXHIBIT "B"
BID PAGE

JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES
GULF COAST PAPER

Janitorial & Industrial Supplies

	DESCRIPTION OF ITEM(S)	BRAND	QTY	NIGP CODE INTERNAL USE ONLY	PRICE PER CASE
1	3M Green 6x9 Scouring Pads 20/Box (96HP) or equal	Americo	60	48588	18.00
3	Air Freshener – Aerosol Asst Scents	Spartan	12/16oz	48532	32.43
4	Air Freshener – Time Mist Asst Scents 6.6 oz	Vectair	12/6.6oz	48532	27.93
5	Ant & Roach Spray odorless	Carrol Co	12/15oz	48560	66.51
6	Ant & Roach Spray odorless to contain deltametrin	Carrol C	12/15oz	48560	66.51
7	Bowl Cleaner – Liquid (Non Acid) EPA Registered	Spartan	12/32oz	48526	18.60
8	Bowl Cleaner Liquid 23% - 26% HIC EPA Registered	Spartan	12/32oz	48526	17.71
11	Brooms – Janitorial Straw	Willen	12	48510	79.44
15	Carpet Shampoo Liquid	Spartan		48578	26.61
16	Carpet Spot Remover 32 oz	Spartan		48578	19.63
17	Carroll Heavy Duty Chemical Deodorant 4/1 Gallons or equal	Carrol Co	4/1gal	48531	43.20
23	Degreaser – 55 gallon	Spartan	1gal	48518	252.77
24	Detergent – Colgate Palmolive Dishwashing – 12/32 or equal	Palmolive	9/850ml	48538	27.92
26	Dishwashing Capsules – US Chemicals 6/8 lb. (failsafe) or equal	US Chemicals	4/8lbs.	48538	96.00
36	Disinfectant –Cleaning compound for Animal Cage -Consume Eco-Lyzer (Spartan) or equivalent	Spartan	4/1gal	48502	44.76
39	Dispenser –Roll Paper Towel – Lever or Crank (Metal or Plastic)	Georgia Pacif	1	48546	18.29
40	Dispensers- Liquid Hand Soap (Bulk Soap)	Spartan	1	48544	12.00
41	Dispensers- Paper Towels Multi Folds Universal (Metal)	Georgia Pacif	1	48546	18.96
49	Dust Mop Frames 24 x5	Willen	1	48570	2.13
50	Dust Mop Handles – Swivel Snap On	Willen	1	48570	5.60
52	Dust Mop Treatment TRU Equal	Spartan	12/32oz	48554	22.69
55	Enzyme Deodorizers – per gallon Liquid	Spartan	4/1gal	48578	35.00
61	Floor Cleaner – Diversey Floral Fragrance Neutral 4/1 gal (FLStride 14) or equal	Diversey	4/1gal	48555	23.09
64	Glass Cleaner –Liquid Concentrate (Spartan) or equal	Spartan	4/1gal	48528	33.57
67	Hanging Toilet Bowl Blocks	Fresh Prods	12	48530	8.56
69	Janitorial Cart w/Yellow Vinyl Bag –Rubbermaid (6173) or equal	Rubbermaid	1	48594	101.25
81	Odor Eliminator – Non Aerosol	Spartan	12/32oz	48532	22.39
87	Scrubbing Cleansers – 21 oz (Comet) or equal	Ajax	24/21oz	48585	26.36
90	Soap Bar – 75 oz. – (1,000 per case)	Cashmere	1,000	48586	69.00
91	Soap Hand – Liquid – (Bag in Box)	Kim Clark	12/800ml	48586	28.93
94	Spartan bounce back floor finish restorer 4/1 gal (Bounce1) or equal	Spartan	4/1gal	48554	46.80
96	Spartan fresh scent deodorant spray 12/18 oz (Airfresh AER) or equal	Spartan	12/16oz	48532	31.44
106	Urinal Blocks (Blocks Only)	Fresh	12	48530	5.09
107	Urinal Deodorant Screens – Screens Only	Tolco	12	48565	9.12
110	Wax Stripper Floor Finish Liquid – High Speed (Vectea)(Johnson & Johnson) or equal	Spartan	4/1gal	48554	41.59
111	Baggies ¼ Size Slider Bag Ziploc Snack Bags (Hefty) or equal	Reynolds	500	64008	15.09
112	Baggies 4”x4” Enono Zip (Ziploc Regular Sandwich Bags) or equal	Huckster	1000	64008	9.80
117	Facial Tissue(Georgia Pacific) equal or better	Georgia Pac	30-100	64050	17.80
127	Pan Liners (Dispozo) 1,000 ct	Bagcraft	1000	64045	39.90
128	Paper Bags #10 Brown (Duro) or equal	B&H	500	64015	12.95
129	Paper Bags #4 Brown (Duro) or equal	B&H	500	64015	7.60
133	Paper Cups Portion 10 oz (Solo) equal or better	Dart	2500	64060	33.15
138	Paper Towels (GEP89460) En-motion high capacity –white 10X800 or equal	Georgia Pac	6/800	64050	48.41

JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES
GULF COAST PAPER

Janitorial & Industrial Supplies					
	DESCRIPTION OF ITEM(S)	**BRAND**	**QTY**	**NIGP CODE** INTERNAL USE ONLY	**PRICE PER CASE**
150	Toilet Tissue 2 Ply Small Short Sheet (Georgia Pacific) or equal	Georgia Pac	80/550	64075	34.24
156	Utensils Spoons Plastic (Solo) or equal	Dispozo	1000	64060	9.98
164	Wipers – (Kimberly Clark) 15x16.5 white (300cs) (K41100) or equal	Kim Clark	300	64085	47.21
165	Body Shampoo – Per Gallon	Spartan	4/1gal	65216	30.80
169	Sanitary Napkins Maxi No 4 Folded (Stayfree, Rochester, etc. or equal)	Hospeco	250	65239	31.50
171	Sanitary Napkins Super No 4 Folded (Stayfree, Rochester, etc. or equal)		250	65239	31.50
172	Sanitary Napkins Thin No 4 Folded (Stayfree, Rochester, etc or equal		250	65239	31.50
179	Americo 20" Beige Ultra High Speed Burnishing Pads 5/bx-(20MUHSTBP) or equal	Americo	5	36510	14.20
180	Buffing Pads 17" White	Americo	5	36510	10.80
181	Buffing Pads 20" White	Americo	5	36510	13.90
184	Stripping Pads 17" Black	Americo	5	36510	10.80
185	Stripping Pads 20" Black	Americo	5	36510	13.90
186	Vacuum Bags Windsor for Sensor XP12 Vacuum Cleaner 10 pk (Johnson & Johnson) or equal	Karcher	10	36580	19.84
187	Gloves - Food Service Large Clear (Brand Name)	Tidi Prods	1000	20142	19.69
188	Gloves – Food Service – Medium clear (Brand Name)	Tidi Prods	1000	20142	19.69
198	Trash Liners – 45 Gal X-Large 40x48 16 Mic High Density Can Liner	Berry	250	66524	25.90
199	Trash Liners – Pitt Plastics 23x33 12-16 gal Black 1000cs (32 BL) or equal	Pitt Plastics	1000	66524	27.96
200	Trash Liners – Large Trash Can 13 MIC 30 x 37 High Density Can Liners	Berry	500	66524	22.36
201	Trash Liners –Large Trash Can 16 MIC 33 Gal 33x40 High Density Can Liners	Berry	250	66524	17.45
202	Trash Liners – Tall Trash Can 8 MIC 24 x 33 High Density Can Liners	Berry	1000	66524	22.50
207	Spartan Sanitize Quart Food Service 12/32 oz (SRTU) or equal	Spartan	12/32oz	39393	20.25
209	Bleach – Disinfectant Cleaner Dry Air – Hospital	Kik Pure Brite	6	50525	10.62
211	Bio-Hazard Bag Red 40 X 48 3 mil	Berry	25	47577	16.22

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

OPENED 10/4/13 10:30 am witnessed

Janitorial & Industrial Supplies

	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
1	3M Green 6x9 Scouring Pads 20/Box (96HP) or equal	America	600	.30	18.00
2	3M Griddle Screens 10 per pack (200) or equal	3M	200	.32	64.51
3	Air Freshener – Aerosol Asst Scents 12/16oz	Spartan	12	2.70	32.43
4	Air Freshener – Time Mist Asst Scents 6.6 oz 12/6.6oz	Vectair	12	3.16	37.93
5	Ant & Roach Spray odorless 12-15oz	Carroll Co.	12	5.54	66.51
6	Ant & Roach Spray odorless to contain deltametrin 12-15oz	Carroll Co.	12	5.54	66.51
7	Bowl Cleaner – Liquid (Non Acid) EPA Registered 12-32oz	Spartan	12	1.55	18.60
8	Bowl Cleaner Liquid 23% - 26% HIC EPA Registered 12-32oz	Spartan	12	1.48	17.71
9	Bowl Mops (Rayon) or equal Each	Toleo	1	.64	.64
10	Brooms (Plastic Angle) or equal 12/cs	Continental	12	5.98	71.83
11	Brooms – Janitorial Straw 12/cs	Wilen	12	6.62	79.44
12	Brooms Maids Straw (Waco) or equal 12/cs	Wilen	12	4.60	55.20
13	Carpet Shampoo – Liquid Ammonia Free 4/cs (gallon)	Carroll Co.	4	11.45	45.79
14	Carpet Powder & Deodorizer	Big D	6/16oz	4.97	29.83
15	Carpet Shampoo Liquid gallon 2oz per gal	Spartan	4	6.65	26.61
16	Carpet Spot Remover 32 oz 12-32oz	Spartan	12/32	1.64	19.63
17	Carroll Heavy Duty Chemical Deodorant 4/1 Gallons or equal gallon 2oz	Carroll Co	4	10.80	43.20
18	Cleaner-Diversey General Purpose 4/1 Gallons or equal gallon 4oz	Diversey	4	9.86	39.45
19	Cleaner Oven 24 oz. Foam Cleaner 12-19oz	Carroll	12/19oz	3.48	41.76
20	Cleaner Stainless Steel waterless based 12-16oz	Spartan	12/16	3.64	43.68
21	Continental 18" rubber floor squeegees (1800) or equal Each	Continental	1	14.50	14.50
22	Continental 24: rubber floor squeegee (2400) or equal each	Continental	1	15.40	15.40
23	Degreaser – 55 gallon 4oz per gallon	Spartan	1	252.77	252.77
24	Detergent – Colgate Palmolive Dishwashing – 12/32 or equal 9/850ML	Palmolive	9/850ML	3.10	27.92
25	Detergent- Power Dishwashing(Cream Suds) or equivalent -50 lb box	Cream Sud 50	50lb	102.56	102.56
26	Dishwashing Capsules – US Chemicals 6/8 lb. (failsafe) or equal	U.S. Chemical	4 8lb	24.00	96.00
27	Dishwashing Liquid 32 oz. (Dawn) or equal 9-887ML	Palmolive	9	3.10	27.92
28	Dishwashing Liquid 42 oz. (Dawn) or equal 4-128oz (gal)	Dawn	4 gals	15.42	61.68
29	Disinfectant & Deodorizer Cleaner Aerosol 12-15oz	Spartan	12/15oz	2.94	35.32
30	Disinfectant Cleaner Carroll clear pine mop 4/1 gallon (Pine1) or equal	Tidal Wave	4 gals	7.50	30.00

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

OPENED 10/9/13 10:30 am Witnessed

JANITORIAL AND INDUSTRIAL SUPPLIES

	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
31	Disinfectant Cleaner Carroll Clear Lemon Mop 4/1 gallon (Lemon1) or equal	Tidal Wave	4 gals	8.25	33.00
32	Disinfectant Deodorant Spray – Hospital (Tuberculicial Rated) 12/15oz	Spartan	12	2.94	35.32
33	Disinfectant Deodorant Spray Aerosol – Hospital (1 Minute Kill time)	Spartan	12/15oz	2.94	35.32
34	Disinfectant Deodorant Spray Hospital	Spartan	12/15oz	2.94	35.32
35	Disinfectant Foam Cleaner – Hospital 12-18oz	Spartan	12	2.44	29.32
36	Disinfectant –Cleaning compound for Animal Cage -Consume Eco-Lyzer (Spartan) or equivalent 4 gallons	Spartan	4 gals	11.19	44.76
37	Disinfectant/Deodorant Spray – Diversely 12/15oz (Endbac I) or equal	Diversey	12/15oz	4.83	58.00
38	Dispenser - Air Freshener Time Mist each	Vectair	1	25.28	25.28
39	Dispenser –Roll Paper Towel – Lever or Crank (Metal or Plastic) each	Ceorgia Pacific	1	10.29	18.29
40	Dispensers- Liquid Hand Soap (Bulk Soap) each	Spartan	1	12.00	12.00
41	Dispensers- Paper Towels Multi Folds Universal (Metal) each	Georgia Pacific	1	18.96	18.96
42	Dispensers – Paper Towels Multi Folds Universal (Plastic) each	Georgia Pacific	1	22.00	22.00
43	Dust Cloths (Disposable)Yw	Georgia Pacific	200	.27¢	54.71
44	Dust Cloths – Non Disposable	No Bid			
45	Dust Mop 24"x3 Disposable	No Bid			
46	Dust Mop 24" X 5 Non Disposable Blue	Rubbermaid	1	10.78	10.78
47	Dust Mop 24" x 3 Non Disposable	No Bid			
48	Dust Mop 24" x 5 Disposable white	Wilen	1	5.87	5.87
49	Dust Mop Frames 24 x5	Wilen	1	2.13	2.13
50	Dust Mop Handles – Swivel Snap On	Wilen	1	5.60	5.60
51	Dust Mop Treatment (Aerosol) 12-16oz	Spartan	12	3.11	37.29
52	Dust Mop Treatment TRU Equal 12-32oz	Spartan	12/32	1.89	22.69
53	Dust Pan Metal – Lobby or equal	No Bid			
54	Dust Pan Plastic – Lobby or equal	Rubbermaid	1	6.50	6.50
55	Enzyme Deodorizers – per gallon Liquid 4 gallon /cs	Spartan	4 gals	8.75	35.00
56	Feather Duster Extensions 12 ft		No bid		
57	Feather Duster Extensions 8ft		No bid		
58	Feather Dusters 21 inch Ostrich or Equal 5263	Lambskin	1	5.73	5.73
59	Feather Dusters 26 inch Ostrich or Equal DD3044	Lambskin	1	5.20	5.20

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

OPENED 10/9/13 10:00 AM Witnessed

JANITORIAL & INDUSTRIAL SUPPLIES

	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
60	Floor Cleaner – Diversey Citrus Stride Neutral 5 gal bx (Stride%) or equal	Diversey	1	24.08	24.08
61	Floor Cleaner – Diversey Floral Fragrance Neutral 4/1 gal (FLStride 14) or equal 4gals 2oz	Diversey	4	5.77	23.09
62	Floor Finish/Wax – Diversey 5 Gal (Vectra5) or equal 5 gal	Diversey	1	71.07	71.07
63	Furniture Polish Aerosol 12-18oz	Spartan	12	2.62	31.44
64	Glass Cleaner –Liquid Concentrate (Spartan) or equal 4gals 6oz	Spartan	4	8.39	33.57
65	Glass Cleaner RTU – 32 oz. (Spartan) or equal	Spartan	12/32	1.77	21.32
66	Hand Cleaner – Waterless 6-4.5lb	Gojo	6/4.5lb	15.64	93.82
67	Hanging Toilet Bowl Blocks	Fresh Products	12	.71	8.56
68	Heavy Duty Laundry Detergent (for Commercial Laundry System) pail	Spartan	1-5gal	74.00	74.00
69	Janitorial Cart w/Yellow Vinyl Bag –Rubbermaid (6173) or equal	Rubbermaid	1	101.25	101.25
70	Mop Bucket combo Std Size (Rubbermaid 7580) or equal	Rubbermaid	1	47.00	47.00
71	Mop Handles Fiber Glass 54" Jr. Etc. or equal	Impact	1	15.43	15.43
72	Mop Handles Wood 54" Junior	Unisan	1	6.50	6.50
73	Mop Head Cotton – Size 16 oz	Wilen	12	2.65	31.80
74	Mop Head Cotton - Size 24 oz	Wilen	12	3.71	44.54
75	Mop Head Cotton – Size 32 oz.	Wilen	12	4.96	59.54
76	Mop Head Rayon – Size 16 oz.	Wilen	12	3.44	41.28
77	Mop Head Rayon – Size 24 oz.	Wilen	12	5.16	61.94
78	Mop Head Rayon – Size 32 oz.	Wilen	12	6.73	80.76
79	Mosquito Repellent Lotion	No	Bid		
80	Mosquito Repellent Spray 12-6oz	Off	12	5.78	65.72
81	Odor Eliminator – Non Aerosol 12-32oz	Spartan	12	1.87	22.39
82	Premium Foam Antibacterial Soap Refill (GOJ536202) or equal	Gojo	2	23.00	46.00
83	Purell Hand Sanitizer Refill-GOJ545604 or equal	Gojo	4	17.96	71.86
84	Royal griddle Bricks for Cleaning Grills 12/box (GBRICK) or equal	Royal	12	2.17	26.00
85	Saddle Bag (SB8.5 Clr 6.5x7) or equal	Tidi Products	2000	.013	27.95
86	Scouring Sponges Yw/Green Standard Size 3M/equal	3M	20	1.72	34.48
87	Scrubbing Cleansers – 21 oz (Comet) or equal 24-21oz	Ajax	24/21oz	1.09	26.36
88	Soap-Liquid Hand Antibacterial per gallon (pearl hand cleaner) or equal	Spartan	4gal	7.70	30.80
89	Soap Anti Bacterial – Bar 3.5 oz (1,000per case)	Dial	No	Bid	
90	Soap Bar – 75 oz. – (1,000 per case)	Cashmere	1000	.069	69.00

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

SIGNED 10/9/13 10:30 AM Witnessed

Janitorial & Industrial Supplies

	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
91	Soap Hand – Liquid – (Bag in Box) 12-800ml	Kim Care (KC)	12	2.41	28.93
92	Spartan 15% Orange Tough cleaner/degreaser 12/32 oz (OT15QT) or equal	Spartan	12/32	2.87	34.52
93	Spartan antiseptic/antibacterial hand soap 4/1 gal (AntiHsoap1) or equal	Spartan	4gals	9.10	36.40
94	Spartan bounce back floor finish restorer 4/1 gal (Bounce1) or equal	Spartan	4gals	11.70	46.80
95	Spartan Foamy Q&A phosphoric acid shower cleaner 12/32 oz (Foamy RTU) or equal	Spartan	12/32oz	2.44	29.24
96	Spartan fresh scent deodorant spray 12/18 oz (Airfresh AER) or equal	Spartan	12/18oz	2.62	31.44
97	Spray Bottles – 24 oz empty bottles or equal Each	Tolco	1	.44	.44
98	Spray Bottles – 32 oz empty bottles (bottleqt) or equal Each	Tolco	1	.56	.56
99	Toilet Dispenser Universal (12" Jumbo toilet Tissue) Each	Georgia Pacific	1	14.00	14.00
100	Toilet Seat Covers	Hospeco	5000	.006	34.66
101	Trash Can 55 Gal –XX Large 28x58 1.5 mil 1.5mil Black	Berry	100	.218	21.86
102	Trash Cans & Lids 16 Gal 354-2673-60	Rubbermaid	1	71.00	71.00
103	Trash Cans & Lids 32 Gallon (Rubbermaid) or equal	Rubbermaid	1 can 1 Lid	17.25 5.00	17.25 5.00
104	Trash Cans – 10 Gal	Rubbermaid	1	8.45	8.45
105	Urinal Block w/Screens	Fresh	12	1.73	20.81
106	Urinal Blocks (Blocks Only)	Fresh	12	.42	5.09
107	Urinal Deodorant Screens – Screens Only	Tolco	12	.76	9.12
108	Wasp/Hornet Spray 12-17oz	Spartan	12	3.56	42.83
109	Wasp/Hornet Spray – 20 Ft Stream 12-17oz	Spartan	12	3.56	42.83
110	Wax Stripper Floor Finish Liquid – High Speed (Vectea)(Johnson & Johnson) or equal 4 gallon per case	Spartan	4gal	10.39	41.59
111	Baggies ¼ Size Slider Bag Ziploc Snack Bags (Hefty) or equal	Reynolds	500	.030	15.09
112	Baggies 4"x4" Enono Zip (Ziploc Regular Sandwich Bags) or equal	Huckster	1000	.009	9.80
113	Baggies Ziploc 16x11 Gallon Size (Hefty) or equal 10x11	Reynolds	250	.102	25.50
114	Baggies Ziploc 7x8 Quart Size (Hefty or equal	Reynolds	500	.054	27.00
115	Baggies Freezer Bags 10x11 – 200 ct (Quick Seal) or equal	Reynolds	200	.130	26.00
116	Butcher Paper 24" 24" X 1000'	B+L Bag	1	28.00	28.00
117	Facial Tissue(Georgia Pacific) equal or better 30/100	Georgia Pacific	30/100	.593	17.80
118	Film Wrap 18" Heavy Duty 2,000 ft. (Reynolds) or equal	Reynolds	1	17.00	17.00

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

OPENED 9/12 10:00 am Witnessed

Janitorial & Industrial Supplies

	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
119	Film Wrap 18"x3000 – Heavy Duty (Reynolds) or equal	Reynolds	1	28.90	28.90
120	Foam – Bows 6 oz. w/lids 6B12 1000 Bowls 1000 Lids	Dart	1000 1000	.030 .015	30.45 15.50
121	Foil Wrap 18" Heavy Duty 500 ft. (Reynolds) or equal 18"x500'	Reynolds	1	33.53	33.53
122	Foil Wrap Potato (Reynolds) or equal 6-500	Reynolds	3000	.018	55.26
123	Laced Dollies (different sizes and types)			No Bid	
124	Menu Tissue 12 x 12	Bagcraft	10,000	.009	94.00
125	Napkins 2 Ply Quarter Fold (Georgia Pacific) or equal L3141	SCA Tork	6000	.007	42.66
126	Pactiv –or equal – 9x6 5.2.75 foam hinged Tray YTH10205	Pactiv	150	.126	18.94
127	Pan Liners – (Dispozo) 1,000 cs	Bagcraft	1000	.039	39.90
128	Paper Bags #10 Brown (Duro) or equal 10BG	B+H Bag	500	.025	12.95
129	Paper Bags #4 Brown (Duro) or equal 4BG	B+H Bag	500	.015	7.60
130	Paper Bags #8 Brown (Duro) or equal 8BG	B+H Bag	500	.023	11.90
131	Paper Bags 1/6 BBL Brown 1657 (Duro) or equal 1657	B+H Bag	500	.071	35.56
132	Paper Bags 6lb. Brown 6BG (Duro) or equal 6BG	B+H Bag	500	.020	10.25
133	Paper Cups Portion 10 oz (Solo) equal or better 10z 100Pc	Dart	2500	.013	33.15
134	Paper Roll Towels Kitchen (Scott 11s9) or equal 30/100	Georgia Pacific	30/100	.779	23.38
135	Paper Towels Brown Rolls Standard Size(Georgia Pacific) or equal	SCA	12/350'	1.42	17.06
136	Paper Towels Multi Fold 4000 cs	Georgia Pacific	4000	.003	15.29
137	Paper Towels Multi Folds White Bleached 9.25X9.5 4000 cs	Georgia Pacific	4000	.004	18.35
138	Paper Towels (GEP89460) En-motion high capacity –white 10X800 or equal 6-800'	Georgia Pacific	6 800'	8.07	48.41
139	Styrofoam Bowl -6 oz 1,00 case 6B12	Dart	1000	.030	30.45
140	Styrofoam Bowls 12 oz. (Pacific 1-0012) equal or better	Dispozo	1000	.023	23.40
141	Styrofoam Cup 8 oz. (8J8) or equal	Dart	1000	.020	20.30
142	Styrofoam Cups oz. (UJ4) or equal	Dart	1000	.018	18.49
143	Styrofoam Plates 6" Laminated	Dispozo	1000	.020	20.45
144	Styrofoam Plates 6" Un-laminated	Dispozo	1000	.020	20.45
145	Styrofoam Plates 9" Divided (Mobil TJ 1-0011) or equal TH10011	Pactiv	500	.038	19.26
146	Styrofoam Plates 9" Laminated	Dispozo	500	.049	24.77
147	Styrofoam Plates 9" Un-laminated TH10009	Pactiv	500	.038	19.26

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

RECEIVED 9/12/13 10:30 AM witnessed

JANITORIAL & INDUSTRIAL SUPPLIES

	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
148	Styrofoam Tray Hinges 9x9x3 Three Compartment w/Lid (Pactiv YTD 19903) 150 cs or equal	Pactiv	150	.105	15.80
149	Toilet Tissue (12/1000 Jr Jumbo) (Georgia Pacific) or equal 12/1000	SCA	12/1000'	1.91	22.94
150	Toilet Tissue 2 Ply Small Short Sheet (Georgia Pacific) or equal	Georgia Pacific	80/550	.43	34.24
151	Toilet Tissue (6/Jumbo 2000 ft) (Georgia Pacific) or equal	SCA	6/2000'	4.61	27.65
152	Utensils Forks – Plastic 2,000 ct (James River Wn F2P) or equal		No	Bid	
153	Utensils Forks – Plastic Dispozo – medium 1,000 cs (WMF) or equal	Dispozo	1000	.009	9.98
154	Utensils Forks –Plastic medium Weight White 1,000 ct (Solo or Equal)	Dispozo	1000	.009	9.98
155	Utensils Forks Clear (1,000 ct) PH01	Dispozo	1000	.028	28.00
156	Utensils Spoons Plastic (Solo) or equal	Dispozo	1000	.009	9.98
157	Utensils Spoons Plastic 1,000 ct (Solo) or equal	Dispozo	1000	.009	9.98
158	Utensils Spoons Plastic Dispozo medium WMS 1,000 ct or equal	Dispozo	1000	.009	9.98
159	Utensils Spoons Plastic medium Weight White (1,000 ct)	Dispozo	1000	.009	9.98
160	Utensils Party Packs (Spoons, Forks, Knife, Napkin, Salt & Pepper)	Dispozo	250	.060	15.00
161	Vented Lid-Dart (12J12) or equal	Dart	10000	.015	15.29
162	Vented Lid – Dart (8J8) or equal	Dart	1000	.012	12.90
163	Wipers Workhorse Rags (Kimberly Clark) or equal K41200	Kimberly Clark	912	.059	54.61
164	Wipers – (Kimberly Clark) 15x16.5 white (300cs) (K41100) or equal	Kimberly Clark	300	.157	47.21
165	Body Shampoo – Per Gallon 4 gallons	Spartan	4	7.70	30.80
166	Deodorant –Hygiene		No	Bid	
167	Lice Killer – Aerosol		No	Bid	
168	Razors – Double Edged		No	Bid	
169	Sanitary Napkins Maxi No 4 Folded (Stayfree, Rochester, etc. or equal)	Hospeco	250	.126	31.50
170	Sanitary Napkins Panty Liners 555-12	Hospeco	200	.193	38.66
171	Sanitary Napkins Super No 4 Folded (Stayfree, Rochester, etc. or equal)		250	.126	31.50
172	Sanitary Napkins Thin No 4 Folded (Stayfree, Rochester, etc or equal		250	.126	31.50
173	Shaving Cream		No	Bid	
174	Toothbrush Firm – Specify Size		No	Bid	

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

SIGNED 10/9/13 10:30 am Witnessed

Janitorial & Industrial Supplies

	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
175	Toothbrush Medium Specify Size			No Bid	
176	Toothbrush Soft Specify Size			No Bid	
177	Toothpaste Std Size, Specify Size			No Bid	
178	Toothpaste Travel Size, Specify Size			No Bid	
179	Americo 20" Beige Ultra High Speed Burnishing Pads 5/bx-(20MUHSTBP) or equal 20 NFBP	AMERICO	5	2.84	14.20
180	Buffing Pads 17" White	AMERICO	5	2.16	10.80
181	Buffing Pads 20" White	AMERICO	5	2.78	13.90
182	Filters Windsor Exhaust for Sensor Xp12 Vacuum Cleaner (5143EF) or equal	KARCHER	1	10.80	10.80
183	Filters Windsor Micro Hygiene for Sensor XP12 Vacuum Cleaner (5301ER) or equal	KARCHER	1	29.00	29.00
184	Stripping Pads 17" Black	AMERICO	5	2.16	10.80
185	Stripping Pads 20" Black	AMERICO	5	2.78	13.90
186	Vacuum Bags Windsor for Sensor XP12 Vacuum Cleaner 10 pk (Johnson & Johnson) or equal	KARCHER	10	1.98	19.84
187	Gloves - Food Service Large Clear (Brand Name)	Tidi	1000	.019	19.69
188	Gloves – Food Service – Medium clear (Brand Name)	Tidi	1000	.019	19.69
189	Gloves Latex Small Disposable (Ansell)Yw or equal L105PS	HOSPECO	1000	.055	55.89
190	Gloves Latex Large Disposable L105PL	HOSPECO	1000	.055	55.89
191	Gloves Latex Large Non-Disposable Yw (Ansell) or equal N116LL	HOSPECO	12	.60	7.20
192	Gloves Latex Medium Non Disposable Yw (Ansell) or equal N116LM	HOSPECO	12	.60	7.20
193	Gloves Latex Medium Disposable (Ansell) or equal	HOSPECO	1000	.55	55.89
194	Gloves Latex Small Non Disposable Yellow (Ansell) or equal N106LS	HOSPECO	12	.60	7.20
195	Gloves Safety (Nitrile) SFZGNPRXL1M or equal N106FL	HOSPECO	1000	.068	68.16
196	Body Towels Standard Size		No	Bid	
197	Hand Towels Standard Size		No	Bid	
198	Trash Liners -45 Gal X-Large 40x48 16 Mic High Density Can Liner	BERRY 4048/16	250	.103	25.90
199	Trash Liners – Pitt Plastics 23x33 12-16 gal Black 1000cs (32 BL) or equal	Pitt Plastics	1000	.0279	27.94
200	Trash Liners – Large Trash Can 13 MIC 30 x 37 High Density Can Liners	BERRY 303713	500	.044	22.
201	Trash Liners –Large Trash Can 16 MIC 33 Gal 33x40 High Density Can Liners	BERRY 334016	250	.069	1
202	Trash Liners – Tall Trash Can 8 MIC 24 x 33 High Density Can Liners	BERRY 24338	1000	.022	

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

OPENED 10/9/13 10:30am Witnessed

JANITORIAL & INDUSTRIAL SUPPLIES						
	DESCRIPTION OF ITEM(S)		BRAND	QTY	UNIT PRICE	PRICE PER CASE
203	Toilet Brushes (Standard Size) Plastic	4533	Matisk	1	2.63	2.63
204	Toilet Brushes – Hard Bristle Bowl Brush (0310) (Rubbermaid) or equal	6310	Rubbermaid	1	2.50	2.50
205	Weed Killer (Round Up) or equal			No Bid		
206	Weed Killer 55 Gallon concentrated – Specify Dilution			No Bid		
207	Spartan Sanitize Quart Food Service 12/32 oz (SRTU) or equal	12/32oz	Spartan	12/32	1.69	20.25
208	Sprayer (Trigger/Nozzles Only) red & white		Tolco	1	.41	.41
209	Bleach – Disinfectant Cleaner Dry Air – Hospital		Kik PureBright	6	1.77	10.62
210	Bleach – Pure Bright Disinfection 6/cs (6BLCH) or equal		Kik PureBright	6	1.77	10.62
211	Bio-Hazard Bag Red 40 X 48 3 mil	4048 3mil	Berry 4048 3	25	.648	16.22
212	Disinfectant Wipes (Lysol) or equal	12/35	Lysol	12/35	3.00	36.00

ACKNOWLEDGMENT FORM/BIDDER INFORMATION

I/We the undersigned hereby certify that I/We am/are a duly authorized official of the company and have the authority to sign on behalf of the company and assure that all statements made in the bid are true. I/We agree to furnish and deliver the specified items/services at the prices stated herein, and have read, understand, and agree to the terms and conditions contained herein and on all of the attachments.

BIDDER/COMPANY NAME: Gulf Coast Paper Co.
ADDRESS: 635 Billy Mitchell Blvd.
CITY/STATE/ZIP CODE: Brownsville, Texas 78521
TELEPHONE NUMBER (956) 541-2281
E-MAIL ADDRESS: GCPC415@aol.com
CELLULAR NUMBERS: (956) 739-6846
FAX NUMBER: (956) 541-2018
AUTHORIZED SIGNATURE: Jorge Guerra
PRINTED NAME: Jorge A. Guerra
TITLE: Sales Rep.
DATE: Oct. 7, 2013

EXHIBIT "C"
CERTIFICATE OF INSURANCE

GULFC-3 OP ID: LZ

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 06/26/13

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
GSM Insurors-Victora P&C
P. O. Box 2447
Victoria, TX 77902
Phone: 361-570-6510
Fax: 361-570-5574

CONTACT NAME:
PHONE (A/C, No, Ext):
FAX (A/C, No):
E-MAIL ADDRESS:

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A: **Travelers Lloyds**	
INSURER B: **Travelers Property Casualty**	
INSURER C: **Travelers Indemnity Company**	
INSURER D:	
INSURER E:	
INSURER F:	

INSURED **Gulf Coast Paper Co., Inc.**
P O Box 4227
Victoria, TX 77903-4227

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS		
A	**GENERAL LIABILITY** X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO-JECT LOC			660-1A576276	06/30/13	06/30/14	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ $ $ $ $ $	1,000,000 100,000 5,000 1,000,000 2,000,000 2,000,000
B	**AUTOMOBILE LIABILITY** X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS			BA-1A635521	06/30/13	06/30/14	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ $ $ $	1,000,000
C	UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED X RETENTION $ 10,000			CUP-3A301589	06/30/13	06/30/14	EACH OCCURRENCE AGGREGATE	$ $	5,000,000 5,000,000
C	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		UB-1A61230A	06/30/13	06/30/14	X WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ $ $	1,000,000 1,000,000 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
see notes

CERTIFICATE HOLDER

HIDAEDI

Hidalgo County
2812 S. Business Hwy. 281
Edinburg, TX 78539

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

© 1988-2010 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

The General Liability, Auto Liability, and Excess Liability policies includes a blanket automatic additional insured endorsement that provides additional insured status to the certificate holder only when there is a written contract between the named insured and the certificate holder that requires such status.

The General Liability, Auto Liability, Excess Liability, and Workers Compensation policies includes a blanket automatic waiver of subrogation endorsement that provides this feature only when there is a written contract between the named insured and the certificate holder that requires it.

REQUIREMENTS AGREEMENT
C-13-147A-11-19

THIS AGREEMENT (the "Agreement") is entered into effective as of the 19th day of November, **2013** by and between **Staples Contract & Commercial, Inc. (operating as Staples Facility Solutions)** ("Seller") and **Hidalgo County, Texas** ("Buyer").

WHEREAS, Buyer has solicited sealed bids for the supply of its requirements of **Hidalgo County** for the **"Janitorial Supplies, Industrial Chemicals & Supplies"** (the "Product") as further described in Exhibit "A", Request for Bids (RFB) Procurement Packet as attached hereto and incorporated herein by reference for all purposes (the "RFB") for a period of **one (1) year** and;

WHEREAS, Seller has submitted a proposal to supply Buyer's requirements; and

WHEREAS, Buyer has determine that Seller has submitted the lowest and best bid to meet Buyer's requirements for certain of the Products, as herein after described.

NOW THEREFORE, for and in consideration of the mutual covenants and conditions hereinafter set forth, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

1. Buyer agrees to purchase from Seller, and Seller agrees to sell and deliver to Buyer, all of the Products listed on Exhibit "B", which is attached hereto and incorporated herein by references, that Buyer may require for use by Buyer in Hidalgo County projects for a period of one (1) year, with the County's sole option to extend/renew for an additional two (2)-one (1) year terms based upon prior year's performance evaluation and contingent upon cost, terms and conditions remaining unchanged. Hidalgo County reserves the right to continue this bid for an additional sixty (60) day grace period, under the same rates, terms and conditions at the end of the contract term for unforeseen delays in award of new bid for the next contract term. This Contract shall commence on **January 01, 2014** and expire on **December 31, 2014** and it is agreed that the Products will meet the Specifications in the Request for Bids (RFB) Procurement Packet set forth in Exhibit "A" hereto.

2. When Buyer determines that it needs a quantity of the Products to be delivered, it will, according to its Purchasing Policies, complete and submit to Seller a Purchase Order describing the type and quantity of the Products required.

The Products are to be delivered by Buyer to the location in Hidalgo County specified by Buyer in its Purchase Order.

3. Buyer agrees to pay Seller for each Purchase Order based on the prices set out in Exhibit "B". Seller shall render invoices for each Purchase Order, and the invoices shall be paid by Buyer on or before the 30th day following receipt of the invoice.

4. General Provisions.

a. **Conflict with Applicable Law.** Nothing in this Agreement shall be construed so as to require the commission of any act contrary to law, and whenever there is any conflict between any provision of this Agreement and any present or future law, ordinance or administrative, executive or judicial regulation, order or decree, or amendment thereof, contrary to which the parties have no legal right to contract, the latter shall prevail, but in such event the affected provision or provisions of this Agreement shall be modified only to the extent necessary to bring them within the legal requirements and only during the time such conflict exists.

b. **No Waiver.** No waiver by Buyer of any breach of any provision of this Agreement shall be deemed to be a waiver of any preceding or succeeding breach of the same or any other provision hereof.

c. **Entire Agreement.** This Agreement contains the entire contract between the parties hereto, and each party acknowledges that neither has made (either directly or through any agent or representative) any representations or agreements in connection with this Agreement not specifically set forth herein. This Agreement may be modified or amended only by agreement in writing executed by Buyer and Seller, and not otherwise.

d. **Texas Law to Apply.** This Agreement shall be construed under and in accordance with the laws of the State of Texas, and all obligations of the parties created hereunder are performable in Hidalgo County, Texas. The parties hereby consent to personal jurisdiction in Hidalgo County, Texas.

e. **Notice.** Except as may be otherwise specifically provided in this Agreement, all notices, demands, requests or communications required or permitted hereunder shall be in writing and shall either be (i) personally delivered against a written receipt, or (ii) sent by registered or certified mail, return receipt requested, postage prepaid and addressed to the parties at the addresses set forth below, or at such other addresses as may have been

theretofore specified by written notice delivered in accordance herewith:

If to Buyer:	Hidalgo County Attention: County Judge 302 West University Drive Edinburg, Texas 78539
If to Seller:	Staples Contract & Commercial Inc. (operating as Staples Facility) Attn. Mark Fortney P.O. Box 415256 Boston, MA 02241-5256

Each notice, demand, request or communication which shall be delivered or mailed in the manner described above shall be deemed sufficiently given for all purposes at such time as it is personally delivered to the addressee or, if mailed, at such time as it is deposited in the Unites States mail.

f. **Termination.** County may terminate this Agreement at any time for any reason or no reason at all upon giving thirty (30) days written notice.

g. **Additional Documents.** The parties hereto covenant and agree that they will execute such other and further instruments and documents as are or may become necessary or convenient to effectuate and carry out the terms of this Agreement.

h. **Successors.** This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, executors, administrators, legal representatives, successors, and assigns where permitted by this Agreement.

i. **Assignment.** This Agreement shall not be assignable.

j. **Headings.** The headings and captions contained in this Agreement are solely for convenient reference and shall not be deemed to affect the meaning or interpretation of any provision or paragraph hereof.

k. **Gender and Number.** All pronouns used in this Agreement shall include the other gender, whether used in the masculine, feminine or neuter gender, and the singular shall include the plural whenever and as often as may be appropriate

l. **Authority to Execute.** The execution and performance of this Agreement by Buyer and Seller have been duly authorized by all necessary

laws, resolutions or corporate action, and this Agreement constitutes the valid and enforceable obligations of Buyer and Seller in accordance with its terms.

m. **Insurance.** Company shall provide insurance in force on all persons and vehicles connected with providing products and or services under this Contract naming County as an additional insured, and shall furnish to County certificates of such insurance coverage Exhibit "C", which is attached hereto.

n. **Commitment of Current Revenues Only**. In the event that, during any term hereof, the Commissioners Court does not appropriate sufficient funds to meet the obligations of Buyer under this Agreement, Buyer may terminate this Agreement upon ninety (90) days written notice to Seller. Buyer agrees, however, to use reasonable efforts to secure funds necessary for the continued performance of this Agreement. The parties intend this provision to be a continuing right to terminate this Agreement at the expiration of each budget period of Buyer pursuant to the provisions of Tex. Loc. Govt. Code Ann. ' 271.903 (Vernon Supp. 1996).

o. **Purchasing Ethics**. Seller represents and warrants it has not, during the process of being awarded this contract violated the following ethical standards of Buyer and, upon and after the execution of this Agreement, agrees to abide by the following ethical standards of Buyer:

(1) It shall be a breach of ethics to offer, give or agree to give any elected official, department head or employee, or former elected official, department head or employee, of Hidalgo County, or for any elected official, department head or employee or former elected official, department head or employee of Hidalgo County, to solicit, demand, accept or agree to accept from another person, entity or organization, a gratuity or an officer of employment in connection with any decision, approval, disapproval, recommendation, preparation or any part of a program requirement or purchase request, influencing the content of any specification or procurement standard, rendering of advise, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter pertaining to any program requirement or a contract or subcontract, or to any solicitation or proposal therefore pending before any department or agency of Hidalgo County.

(2) It shall be a breach of ethics for any payment, gratuity or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor for any contract for Hidalgo County, or any person associated therewith, as an inducement for the award of a subcontract or order.

EXECUTED effective as of the day and year first above written.

Approved By Commissioners Court:_____

COUNTY OF HIDALGO

ATTEST:

By:_____
Ramon Garcia, County Judge

_____
Arturo Guajardo Jr., County Clerk

COMPANY:

By:_____

Printed Name:_____

Title:_____

APPROVED AS TO FORM:
Atlas & Hall, L.L.P.

_____
Stephen L. Crain, Attorney

EXHIBIT "A"

REQUEST FOR BIDS (RFB) PROCUREMENT PACKET

EXHIBIT "B"
BID PAGE

JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES
STAPLES

Janitorial & Industrial Supplies

	DESCRIPTION OF ITEM(S)	BRAND	QTY	NIGP CODE INTERNAL USE ONLY	PRICE PER CASE
10	Brooms (Plastic Angle) or equal	O'Dell	12ct	48510	59.64
20	Cleaner Stainless Steel waterless based	Staples	12/19oz	48512	32.28
25	Detergent- Power Dishwashing(Cream Suds) or equivalent -50 lb box	Staples	50 lb	48538	15.38
29	Disinfectant & Deodorizer Cleaner Aerosol	Staples	12/16oz	48532	28.83
32	Disinfectant Deodorant Spray – Hospital (Tuberculicial Rated)	Staples	12/16oz	48540	28.83
33	Disinfectant Deodorant Spray Aerosol – Hospital (1 Minute Kill time)	Staples	12/16oz	48540	28.83
34	Disinfectant Deodorant Spray Hospital	Staples	12/16oz	48540	28.83
35	Disinfectant Foam Cleaner – Hospital	Staples	12/20oz	48540	25.08
37	Disinfectant/Deodorant Spray – Diversely 12/15oz (Endbac I) or equal	Staples	12/16oz	48540	28.83
42	Dispensers – Paper Towels Multi Folds Universal (Plastic)	Georgia Pac	Ea	48546	19.12
43	Dust Cloths (Disposable)Yw	Impact Micro	12 ea	48552	9.81
44	Dust Cloths – Non Disposable	Impact Micro	12 ea	48552	9.81
45	Dust Mop 24"x3 Disposable	O'Dell	12ea	48572	36.12
46	Dust Mop 24" X 5 Non Disposable	O'Dell	12ea	48570	36.12
47	Dust Mop 24" x 3 Non Disposable	O'Dell	12ea	48570	36.12
48	Dust Mop 24" x 5 Disposable	O'Dell	12ea	48570	36.12
51	Dust Mop Treatment (Aerosol)	Staples	12ea	48554	30.24
53	Dust Pan Metal – Lobby or equal	Impact	12Ea	48594	39.00
54	Dust Pan Plastic – Lobby or equal	Rubbermaid	12ea	48594	51.48
56	Feather Duster Extensions 12 ft	O'Dell	12ea	48553	52.20
57	Feather Duster Extensions 8ft	O'Dell	12ea	48553	52.20
58	Feather Dusters 21 inch Ostrich or Equal	O'Dell	12ea	48553	52.20
59	Feather Dusters 26 inch Ostrich or Equal	O'Dell	12ea	48553	52.20
60	Floor Cleaner – Diversey Citrus Stride Neutral 5 gal bx (Stride%) or equal	Sustainable E	4/1gal	48555	57.01
62	Floor Finish/Wax – Diversey 5 Gal (Vectra5) or equal	Staples	5gal	48554	56.26
63	Furniture Polish Aerosol	Staples	12/19oz	48558	27.43
65	Glass Cleaner RTU – 32 oz. (Spartan) or equal	Brighton	12/32oz	48528	19.49
68	Heavy Duty Laundry Detergent (for Commercial Laundry System)	Staples	50lb	48537	15.38
72	Mop Handles Wood 54" Junior	Rubbermaid	12ea	48572	72.60
73	Mop Head Cotton – Size 16 oz	Rubbermaid	12ea	48572	25.44
74	Mop Head Cotton - Size 24 oz	Rubbermaid	12ea	48572	22.08
75	Mop Head Cotton – Size 32 oz.	Rubbermaid	12ea	48572	28.32
76	Mop Head Rayon – Size 16 oz.	O'Dell	12ea	48572	27.24
77	Mop Head Rayon – Size 24 oz.	Rubbermaid	12ea	48572	40.80
78	Mop Head Rayon – Size 32 oz.	Rubbermaid	12ea	48572	58.56
80	Mosquito Repellent Spray	Deep Woods	12ea	48560	59.04
88	Soap-Liquid Hand Antibacterial per gallon (pearl hand cleaner) or equal	Brighton Pro	4/1gal	48586	22.34
89	Soap Anti Bacterial – Bar 3.5 oz (1,000per case)	Dove	8pk	48586	13.14
93	Spartan antiseptic/antibacterial hand soap 4/1 gal (AntiHsoap1) or equal	Brighton	4/1gal	48586	22.34
99	Toilet Dispenser Universal (12" Jumbo toilet Tissue)	Staples	Ea	48546	7.60
105	Urinal Block w/Screens	Rochester	12bx	48530	12.38
119	Film Wrap 18"x3000 – Heavy Duty (Reynolds) or equal	Anchor	Ea	64060	18.55
155	Utensils Forks Clear (1,000 ct)	Staples	1000ct	64060	14.53
170	Sanitary Napkins Panty Liners	Rochester	250ct	65239	32.39

JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES
STAPLES

Janitorial & Industrial Supplies					
DESCRIPTION OF ITEM(S)		**BRAND**	**QTY**	**NIGP CODE** INTERNAL USE ONLY	
182	Filters Windsor Exhaust for Sensor Xp12 Vacuum Cleaner (5143EF) or equal	Windsor	1 dz	36580	13.56
183	Filters Windsor Micro Hygiene for Sensor XP12 Vacuum Cleaner (5301ER) or equal	Windsor	1 dz	36580	89.04
203	Toilet Brushes (Standard Size) Plastic	Rubbermaid	12eacs	67002	24.96
212	Disinfectant Wipes (Lysol) or equal	Staples	12pk	47565	32.16

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

OPENED 10/9/13 10:00am Witnessed

Janitorial & Industrial Supplies					
DESCRIPTION OF ITEM(S)		BRAND	QTY	UNIT PRICE	PRICE PER CASE
1	3M Green 6x9 Scouring Pads 20/Box (96HP) or equal	3M Scotch-Brite™ Commercial Scouring Pads, 10/Pk	PK	$5.50	$55.00
2	3M Griddle Screens 10 per pack (200) or equal		No Bid		
3	Air Freshener – Aerosol Asst Scents	Staples Metered Air Freshener, Summer Breeze, 7 oz., 12/Ct	CT	$2.86	$34.29
4	Air Freshener – Time Mist Asst Scents 6.6 oz	Staples Metered Air Freshener, Summer Breeze, 7 oz., 12/Ct	CT	$2.86	$34.29
5	Ant & Roach Spray odorless	Raid® Ant & Roach Killer, 17.5 oz. Aerosol Can	EA	$3.18	$38.16
6	Ant & Roach Spray odorless to contain deltametrin	Raid® Ant & Roach Killer, 17.5 oz. Aerosol Can	EA	$3.18	$38.16
7	Bowl Cleaner – Liquid (Non Acid) EPA Registered	Staples® Non-Acid Disinfectant Bathroom Cleaner, Floral Scent, 1 Quart, 12/Ct	CT	$2.13	$25.50
8	Bowl Cleaner Liquid 23% - 26% HIC EPA Registered	SPECTRUM BOWL CLNR 32OZ 12CT	CT	$1.99	$23.84
9	Bowl Mops (Rayon) or equal	Unisan Toilet Bowl Mop, White, 12" Handle EA	EA	$0.69	$8.28
10	Brooms (Plastic Angle) or equal	O'Dell SMALL YELLOW ANGLE BROOM	EA	$4.97	$59.64
11	Brooms – Janitorial Straw	O'Dell Unisan Parlor Broom, Corn, 42" Wood Handle	EA	$6.82	$81.84
12	Brooms Maids Straw (Waco) or equal	O'Dell Unisan Parlor Broom, Corn, 42" Wood Handle	EA	$6.82	$81.84
13	Carpet Shampoo – Liquid Ammonia Free	Sustainable Earth by Staples® 62 High-Performance Carpet Cleaner, Dilutes 1/2 oz. per Gallon of Water, 1 Gallon, 4/Ct	CT	$15.82	$63.26
14	Carpet Powder & Deodorizer		No Bid		
15	Carpet Shampoo Liquid	Sustainable Earth by Staples® 62 High-Performance Carpet Cleaner, Dilutes 1/2 oz. per Gallon of Water, 1 Gallon, 4/Ct	CT	$15.82	$63.26
16	Carpet Spot Remover 32 oz	Sustainable Earth by Staples® 67 Carpet Spotter, 1 Quart	EA	$3.83	$45.96
17	Carroll Heavy Duty Chemical Deodorant 4/1 Gallons or equal	Staples® ViaFresh™ Odor Eliminator, Wildflower, Dilutes 1/2 oz. per Gallon of Water, 1 Gallon, 4/Ct	CT	$14.53	$58.13
18	Cleaner-Diversey General Purpose 4/1 Gallons or equal	Staples® Clean All™ General Purpose Carpet Spotter and Degreaser Cleaner, Dilutes 1 oz. per Gallon of Water, 1	CT	$6.89	$27.54
19	Cleaner Oven 24 oz. Foam Cleaner	Diversey Mr. Muscle® Oven and Grill Cleaner, 19 oz.	EA	$4.41	$52.92
20	Cleaner Stainless Steel waterless based	Staples® Stainless Steel Cleaner, 19 oz.	EA	$2.69	$32.28
21	Continental 18" rubber floor squeegees (1800) or equal		No Bid		
22	Continental 24: rubber floor squeegee (2400) or equal	Unger Aquadozer® Heavy Duty Floor Squeegee, Straight, 24" Wide	EA	$27.07	$324.84
23	Degreaser – 55 gallon	Sustainable Earth by Staples® Heavy Duty General Purpose Cleaner/Degreaser #65, 55 Gallon Drum	EA	$853.29	$853.29
24	Detergent – Colgate Palmolive Dishwashing – 12/32 or equal	Staples® Glisten™ General Purpose Dish Soap, Lemon Scented, Dilutes 1 oz. per Gallon of Water, 1 Gallon	EA	$11.06	$44.24
25	Detergent- Power Dishwashing(Cream Suds) or equivalent -50 lb box	Staples LAUNDRY DETRGNT PWDR 50LB BX	EA	$15.38	$15.38
26	Dishwashing Capsules – US Chemicals 6/8 lb. (failsafe) or equal		No Bid		
27	Dishwashing Liquid 32 oz. (Dawn) or equal	Staples® Glisten™ General Purpose Dish Soap, Lemon Scented, Dilutes 1 oz. per Gallon of Water, 1 Gallon	EA	$11.06	$44.24
28	Dishwashing Liquid 42 oz. (Dawn) or equal	Staples® Glisten™ General Purpose Dish Soap, Lemon Scented, Dilutes 1 oz. per Gallon of Water, 1 Gallon	EA	$11.06	$44.24
29	Disinfectant & Deodorizer Cleaner Aerosol	Staples® Surface Disinfectant and Deodorizing II Spray, 16 oz., 12/Ct	CT	$2.40	$28.83
30	Disinfectant Cleaner Carroll clear pine mop 4/1 gallon (Pine1) or equal	Staples® Lemon DC Plus™ Disinfectant Cleaner, Dilutes 2 oz. per Gallon of Water, 1 Gallon, 4/Ct	CT	$8.10	$32.39

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

OPENED 10:00am 10/9/13 Witnessed

JANITORIAL AND INDUSTRIAL SUPPLIES					
	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER
31	Disinfectant Cleaner Carroll Clear Lemon Mop 4/1 gallon (Lemon1) or equal	Staples® Lemon DC Plus™ Disinfectant Cleaner, Dilutes 2 oz. per Gallon of Water, 1 Gallon, 4/Ct	CT	$8.10	$32.39
32	Disinfectant Deodorant Spray – Hospital (Tuberculicial Rated)	Staples® Surface Disinfectant and Deodorizing II Spray, 16 oz., 12/Ct	CT	$2.40	$28.83
33	Disinfectant Deodorant Spray Aerosol – Hospital (1 Minute Kill time)	Staples® Surface Disinfectant and Deodorizing II Spray, 16 oz., 12/Ct	CT	$2.40	$28.83
34	Disinfectant Deodorant Spray Hospital	Staples® Surface Disinfectant and Deodorizing II Spray, 16 oz., 12/Ct	CT	$2.40	$28.83
35	Disinfectant Foam Cleaner – Hospital	Staples® Foam Multi-Purpose Disinfectant Cleaner, 20 oz., 12/Ct	CT	$2.09	$25.08
36	Disinfectant –Cleaning compound for Animal Cage - Consume Eco-Lyzer (Spartan) or equivalent	VIRUSTAT DC PLUS CLNR Dilutes 1/2 oz. per Gallon of Water, 1 Gallon, 4/Ct	CT	$17.65	$70.60
37	Disinfectant/Deodorant Spray – Diversely 12/15oz (Endbac I) or equal	Staples® Surface Disinfectant and Deodorizing II Spray, 16 oz., 12/Ct	CT	$2.40	$28.83
38	Dispenser - Air Freshener Time Mist	Staples® Metered Air Dispenser, White	EA	$22.79	$273.48
39	Dispenser –Roll Paper Towel – Lever or Crank (Metal or Plastic)	San Jamar Integra™ Lever Roll Towel Dispenser, Pearl Blue, 13 1/2"H x 11 1/2"W x 11 1/4"D	EA	$63.82	$63.82
40	Dispensers- Liquid Hand Soap (Bulk Soap)	Impact ClearVu® Plastic Soap Dispenser, White/Clear, Holds 30 oz., 6 1/4"H x 4 1/2"W x 4"D	EA	$13.25	$13.25
41	Dispensers- Paper Towels Multi Folds Universal (Metal)	Bobrick Folded Towel Dispenser, Stainless Steel, 14"H x 10 3/4"W x 4"D	EA	$41.63	$41.63
42	Dispensers – Paper Towels Multi Folds Universal (Plastic)	Georgia-Pacific Combination C-Fold or Multifold Towel Dispenser, Black, 15 2/5"H x 11"W x 5 1/4"D	EA	$19.12	$19.12
43	Dust Cloths (Disposable)Yw	Impact Microfiber Cloth, Yellow, 16"W x 16"L	DZ	$0.82	$9.81
44	Dust Cloths – Non Disposable	Impact Microfiber Cloths, Green Terry, 16" x 16", 12/Pk	PK	$0.82	$9.81
45	Dust Mop 24"x3 Disposable	O'Dell DISPOSABLE DUST MOP HEAD 24X5	EA	$3.01	$36.12
46	Dust Mop 24" X 5 Non Disposable	O'Dell DISPOSABLE DUST MOP HEAD 24X5	EA	$3.01	$36.12
47	Dust Mop 24" x 3 Non Disposable	O'Dell DISPOSABLE DUST MOP HEAD 24X5	EA	$3.01	$36.12
48	Dust Mop 24" x 5 Disposable	O'Dell DISPOSABLE DUST MOP HEAD 24X5	EA	$3.01	$36.12
49	Dust Mop Frames 24 x5	O'Dell METAL DUST MOP FRAME 24X5	EA	$2.25	$27.00
50	Dust Mop Handles – Swivel Snap On	O'Dell CLIP WOOD DUST MOP HANDLE	EA	$5.84	$70.08
51	Dust Mop Treatment (Aerosol)	Staples® Dust Mop and Dust Cloth Treatment, 19 oz.	EA	$2.52	$30.24
52	Dust Mop Treatment TRU Equal	Staples® Dust Mop and Dust Cloth Treatment, 19 oz.	EA	$2.52	$30.24
53	Dust Pan Metal – Lobby or equal	Impact Metal Dust Pan, Black	EA	$3.25	$39.00
54	Dust Pan Plastic – Lobby or equal	Rubbermaid Heavy-Duty Dustpan, Charcoal, 2 5/8"H x 12 1/4"W x 8 1/4"D	EA	$4.29	$51.48
55	Enzyme Deodorizers – per gallon Liquid	Staples® Enzyme Plus™ Odor Eliminator Deodorizer, Dilutes 2 oz. per Gallon of Water, 1 Gallon, 4/Ct	CT	$9.12	$36.48
56	Feather Duster Extensions 12 ft	O'Dell Unisan Retractable Feather Duster, 9-14" Handle	EA	$4.35	$52.20
57	Feather Duster Extensions 8ft	O'Dell Unisan Retractable Feather Duster, 9-14" Handle	EA	$4.35	$52.20
58	Feather Dusters 21 inch Ostrich or Equal	O'Dell Unisan Retractable Feather Duster, 9-14" Handle	EA	$4.35	$52.20
59	Feather Dusters 26 inch Ostrich or Equal	O'Dell Unisan Retractable Feather Duster, 9-14" Handle	EA	$4.35	$52.20

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

OPENED 10:01 AM 10/9/13 Witnessed

JANITORIAL & INDUSTRIAL SUPPLIES					
	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
60	Floor Cleaner – Diversey Citrus Stride Neutral 5 gal bx (Stride%) or equal	Sustainable Earth by Staples® 64 Neutral Multi-Use Cleaner, Dilutes 1/2 oz. per Gallon of Water, 1	CT	$14.25	$57.01
61	Floor Cleaner – Diversey Floral Fragrance Neutral 4/1 gal (FLStride 14) or equal	Sustainable Earth by Staples® 64 Neutral Multi-Use Cleaner, Dilutes 1/2 oz. per Gallon of Water, 1 Gallon, 4/Ct	CT	$14.25	$57.01
62	Floor Finish/Wax – Diversey 5 Gal (Vectra5) or equal	Staples® Diamond™ Floor Finish, 5 Gallons	EA	$56.26	$56.26
63	Furniture Polish Aerosol	Staples® Furniture Polish, Lemon Scent, 19 oz., 12/Ct	CT	$2.29	$27.43
64	Glass Cleaner –Liquid Concentrate (Spartan) or equal	Sustainable Earth by Staples® 61 Glass Cleaner Concentrate, Dilutes 1 oz. per Gallon of Water, 1	CT	$13.37	$53.49
65	Glass Cleaner RTU – 32 oz. (Spartan) or equal	Brighton Professional Glass Cleaner, Citrus, 32 oz., 12/CT	CT	$1.62	$19.49
66	Hand Cleaner – Waterless		No Bid		
67	Hanging Toilet Bowl Blocks	Rochester Midland Urinal Screen with Non-Para Enzyme Block, Berry Scent, 12/Bx	BX	$12.38	$0.00
68	Heavy Duty Laundry Detergent (for Commercial Laundry System)	Staples LAUNDRY DETRGNT PWDR 50LB BX	EA	$15.38	$15.38
69	Janitorial Cart w/Yellow Vinyl Bag –Rubbermaid (6173) or equal	Rubbermaid Cleaning Cart with Zippered Yellow Bag, 38 1/4"H x 20"W x 45"L	EA	$186.79	$186.79
70	Mop Bucket combo Std Size (Rubbermaid 7580) or equal	Rubbermaid WaveBrake® Bucket/Side-Pressure Wringer, Yellow, 35 Quart Capacity	EA	$63.32	$63.32
71	Mop Handles Fiber Glass 54" Jr. Etc. or equal	Rubbermaid Invader® Side-Gate Mop Handle, Fiberglass, 60"	EA	$9.21	$110.52
72	Mop Handles Wood 54" Junior	Rubbermaid Invader® Side-Gate Mop Handle, Wood, 60"	EA	$6.05	$72.60
73	Mop Head Cotton – Size 16 oz	Rubbermaid V Series Cotton-Cut End Wet Mop Head, #16, White	EA	$2.12	$25.44
74	Mop Head Cotton - Size 24 oz	Rubbermaid Cut-End Cotton Mop #24, Economy, White	EA	$1.84	$22.08
75	Mop Head Cotton – Size 32 oz.	Rubbermaid Cut-End Cotton Mop #32, Economy, White	EA	$2.36	$28.32
76	Mop Head Rayon – Size 16 oz.	O'Dell #16 NONWOVEN CUT END WET MOP	EA	$2.27	$27.24
77	Mop Head Rayon – Size 24 oz.	Rubbermaid Cut-End Rayon Mop #24, Economy, White	EA	$3.40	$40.80
78	Mop Head Rayon – Size 32 oz.	Rubbermaid Cut-End Rayon Mop #32, Economy, White	EA	$4.88	$58.56
79	Mosquito Repellent Lotion		No Bid		
80	Mosquito Repellent Spray	Deep Woods OFF!® Aerosol, 6 oz.	EA	$4.92	$59.04
81	Odor Eliminator – Non Aerosol	Staples® Enzyme Plus™ Odor Eliminator, 1 Quart, 12/Ct	CT	$3.70	$44.44
82	Premium Foam Antibacterial Soap Refill (GOJ536202) or equal	Gojo TFX™ Premium Antibacterial Foam Soap Refill, Fruit Scent, 1,200 ml	EA	$22.60	$67.80
83	Purell Hand Sanitizer Refill-GOJ545604 or equal	Gojo Purell® TFX™ Touch-Free Instant Gel Hand Sanitizer Refill, 1200 ml	EA	$14.90	$44.70
84	Royal griddle Bricks for Cleaning Grills 12/box (GBRICK) or equal		No Bid		
85	Saddle Bag (SB8.5 Clr 6.5x7) or equal		No Bid		
86	Scouring Sponges Yw/Green Standard Size 3M/equal	3M Scotch-Brite™ Medium-Duty Commercial Scrub Sponge, 3 1/2" x 6 1/4", 10/Pk	PK	$19.87	$19.87
87	Scrubbing Cleansers – 21 oz (Comet) or equal	Staples® Cream Cleanser™, Mint Scent, 1 Quart, 12/Ct	CT	$2.42	$29.01
88	Soap-Liquid Hand Antibacterial per gallon (pearl hand cleaner) or equal	Brighton Professional™ Antibacterial Hand Soap, Unscented, 1 Gallon, 4/Ct	CT	$5.59	$22.34
89	Soap Anti Bacterial – Bar 3.5 oz (1,000per case)	DOVE BAR WHITE 8PK	PK	$13.14	$0.00
90	Soap Bar – 75 oz. – (1,000 per case)		No Bid		

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

OPENED 10/4/13 10:00am Witnessed

Janitorial & Industrial Supplies					
	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
91	Soap Hand – Liquid – (Bag in Box)	Gojo Liquid Lotion Skin Cleanser Refill, Liquid, 800 mL Bag, 12/Ct	CT	$3.35	$40.25
92	Spartan 15% Orange Tough cleaner/degreaser 12/32 oz (OT15QT) or equal	Staples TRIPLE POWER HD RTU 1GAL 12CT	CT	$3.24	$38.91
93	Spartan antiseptic/antibacterial hand soap 4/1 gal (AntiHsoap1) or equal	Brighton Professional™ Antibacterial Hand Soap, Unscented, 1 Gallon, 4/Ct	CT	$5.59	$22.34
94	Spartan bounce back floor finish restorer 4/1 gal (Bounce1) or equal	Diversey Revive® Plus SC Maintainer/Rejuvenator Floor Cleaner,	CT	$15.70	$94.21
95	Spartan Foamy Q&A phosphoric acid shower cleaner 12/32 oz (Foamy RTU) or equal	Staples SANI CLEANSE CLNR 32OZ 12CT	CT	$3.03	$36.39
96	Spartan fresh scent deodorant spray 12/18 oz (Airfresh AER) or equal	Staples® Air Freshener, Summer Breeze Scent, 10 oz.	EA	$2.82	$33.84
97	Spray Bottles – 24 oz empty bottles or equal	Impact Plastic Sprayer Bottle with Trigger Sprayers, 24 oz., 3/Pk	PK	$3.57	$0.00
98	Spray Bottles – 32 oz empty bottles (bottleqt) or equal	Unisan Plastic Spray Bottle, Clear, 32 oz.	EA	$0.52	$6.24
99	Toilet Dispenser Universal (12" Jumbo toilet Tissue)	Staples BATH DISPENSER JUMBO 9IN ROLL	EA	$7.60	$7.60
100	Toilet Seat Covers	Rochester Midland Half-Fold Toilet Seat Covers, 5,000/Ct	CT	$32.30	$32.30
101	Trash Can 55 Gal –XX Large 28x58 1.5 mil	Rubbermaid Vented Trash Receptacle, Round Brute® Container without Lid, 55	EA	$71.10	$71.10
102	Trash Cans & Lids 16 Gal	Rubbermaid Step-On Container, Beige, 18 Gallons, 26 1/2"H x 16 1/8"W x 19 3/4"L	EA	$112.99	$112.99
103	Trash Cans & Lids 32 Gallon (Rubbermaid) or equal	Rubbermaid Vented Trash Receptacle, Round Brute® Container without Lid, Gray,	EA	$30.00	$30.00
104	Trash Cans – 10 Gal	Staples Brighton Professional™ Soft Molded Wastebasket, Beige, 41 1/4 Quart,	EA	$7.44	$89.28
105	Urinal Block w/Screens	Rochester Midland Urinal Screen with Non-Para Enzyme Block, Berry Scent, 12/Bx	BX	$12.38	$0.00
106	Urinal Blocks (Blocks Only)	Rochester Midland DEODRNT NONPARA BLOCK 12BX	BX	$7.14	$85.68
107	Urinal Deodorant Screens – Screens Only	Rochester Midland Urinal Screen, Red Vinyl, Cherry Scent, 12/Ct	CT	$0.91	$10.96
108	Wasp/Hornet Spray	Amrep Misty® Wasp and Hornet Killer, 13.5 oz.	EA	$4.32	$51.84
109	Wasp/Hornet Spray – 20 Ft Stream	Amrep Misty® Wasp and Hornet Killer, 13.5 oz.	EA	$4.32	$51.84
110	Wax Stripper Floor Finish Liquid – High Speed (Vectea)(Johnson & Johnson) or equal	Sustainable Earth by Staples® Floor Stripper #82, 5 Gallon Pail	EA	$50.81	$50.81
111	Baggies ¼ Size Slider Bag Ziploc Snack Bags (Hefty) or equal	Ziploc Sandwich Bags, 50/Bx	BX	$4.21	$50.52
112	Baggies 4"x4" Enono Zip (Ziploc Regular Sandwich Bags) or equal	Ziploc Sandwich Bags, 50/Bx	BX	$4.21	$50.52
113	Baggies Ziploc 16x11 Gallon Size (Hefty) or equal	Diversey Ziploc Double-Zipper Freezer Bag, 1 Gallon, 2.7 mil., Clear, 11"H x 10 1/2"W, 250/Ct	CT	$33.74	$33.74
114	Baggies Ziploc 7x8 Quart Size (Hefty or equal	Ziplock Storage Bags, 1 Quart, 7" x 8", 50/Bx	BX	$3.88	19.40
115	Baggies Freezer Bags 10x11 – 200 ct (Quick Seal) or equal	Diversey Ziploc Double-Zipper Freezer Bag, 1 Gallon, 2.7 mil., Clear, 11"H x 10	CT	$33.74	$33.74
116	Butcher Paper 24"		No-Bid		
117	Facial Tissue(Georgia Pacific) equal or better	Staples Brighton Professional FACIAL TISSUE FLAT CASE	CT	$0.75	$35.76
118	Film Wrap 18" Heavy Duty 2,000 ft. (Reynolds) or equal	Anchor Plastic Wrap, Clear, 12" x 1000' Roll	EA	$18.55	$18.55

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

OPENED 11/19/13 10:30am Witnessed

Janitorial & Industrial Supplies						
	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER
119	Film Wrap 18"x3000 – Heavy Duty (Reynolds) or equal	Anchor Plastic Wrap, Clear, 12" x 1000' Roll	EA	$18.55	$18.55
120	Foam – Bows 6 oz. w/lids		No Bid		
121	Foil Wrap 18" Heavy Duty 500 ft. (Reynolds) or equal	Alumax Aluminum Foil, 12" x 1,000' Roll	EA	$68.30	$68.30
122	Foil Wrap Potato (Reynolds) or equal		No Bid		
123	Laced Dollies (different sizes and types)		No Bid		
124	Menu Tissue 12 x 12		No Bid		
125	Napkins 2 Ply Quarter Fold (Georgia Pacific) or equal	EasyNap® Embossed Dispenser Napkins, White, 250 Napkins/Pk, 24/Ct	CT	$2.36	$56.62
126	Pactiv –or equal – 9x6 5.2.75 foam hinged Tray		No Bid		
127	Pan Liners – (Dispozo) 1,000 cs		No Bid		
128	Paper Bags #10 Brown (Duro) or equal		No Bid		
129	Paper Bags #4 Brown (Duro) or equal		No Bid		
130	Paper Bags #8 Brown (Duro) or equal		No Bid		
131	Paper Bags 1/6 BBL Brown 1657 (Duro) or equal		No Bid		
132	Paper Bags 6lb. Brown 6BG (Duro) or equal		No Bid		
133	Paper Cups Portion 10 oz (Solo) equal or better		No Bid		
134	Paper Roll Towels Kitchen (Scott 11s9) or equal	Staples Brighton Professional™ Perforated Towels, 11" x 8.5", 30 Rolls/CT	CT	$0.76	$22.73
135	Paper Towels Brown Rolls Standard Size(Georgia Pacific) or equal	Scott® JRT Jumbo Roll Bath Tissue, 2-Ply, White, 6/Ct	CT	$8.57	$51.39
136	Paper Towels Multi Fold	Staples Brighton Professional™ Multifold Towels, 1-Ply, White, 9.1" x 9.3", 4,000/PK	CT	$18.93	$18.93
137	Paper Towels Multi Folds White Bleached 9.25X9.5	Staples Brighton Professional™ Multifold Towels, 1-Ply, White, 9.1" x 9.3", 4,000/PK	CT	$18.93	$18.93
138	Paper Towels (GEP89460) En-motion high capacity – white 10X800 or equal	Georgia Pacific enMotion® Hardwound Towels, 1-Ply, White, 6/Ct	CT	$9.16	$54.94
139	Styrofoam Bowl -6 oz 1,00 case		No Bid		
140	Styrofoam Bowls 12 oz. (Pacific 1-0012) equal or better	Solo Foam Bowl, 12 oz., White, 125/Pk, 1,000/Ct	CT	$29.51	$29.51
141	Styrofoam Cup 8 oz. (8J8) or equal	Dart® Foam Cups, 8 oz., 1,000/Ct	CT	$20.69	$20.69
142	Styrofoam Cups oz. (UJ4) or equal	Dart CUP FOAM 4OZ 50PK	CT	$31.70	$31.70
143	Styrofoam Plates 6" Laminated	Dart PLATE FOAM 6 WHITE 1M	CT	$26.66	$26.66
144	Styrofoam Plates 6" Un-laminated	Dart PLATE FOAM 6 WHITE 1M	CT	$26.66	$26.66
145	Styrofoam Plates 9" Divided (Mobil TJ 1-0011) or equal	Solo Foam Plate, 9 Diameter, White, 500/Ct	CT	$21.87	$21.87
146	Styrofoam Plates 9" Laminated	Solo Foam Plate, 9 Diameter, White, 500/Ct	CT	$21.87	$21.87
147	Styrofoam Plates 9" Un-laminated	Solo Foam Plate, 9 Diameter, White, 500/Ct	CT	$21.87	$21.87

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

OPENED 10/9/13 10:00am Witnessed

JANITORIAL & INDUSTRIAL SUPPLIES						
	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
148	Styrofoam Tray Hinges 9x9x3 Three Compartment w/Lid (Pactiv YTD 19903) 150 cs or equal		No Bid		
149	Toilet Tissue (12/1000 Jr Jumbo) (Georgia Pacific) or equal	Staples Brighton Professional™ Jumbo Roll Bath Tissues, 2- Ply, 1,00' x 3.5", 12/CT	CT	$1.75	$20.94
150	Toilet Tissue 2 Ply Small Short Sheet (Georgia Pacific) or equal	Staples Brighton Professional™ Bath Tissue, 2- Ply, 500 Sheets/RL	CT	$0.41	$39.21
151	Toilet Tissue (6/Jumbo 2000 ft) (Georgia Pacific) or equal	Staples Brighton Professional™ JRT Bath Tissue, 1-Ply, Nonperforated Roll, 2000',	CT	$2.21	$26.47
152	Utensils Forks – Plastic 2,000 ct (James River Wn F2P) or equal	Staples MED DUTY PLASTIC FORK 1000/CT	CT	$14.53	$14.53
153	Utensils Forks – Plastic Dispozo – medium 1,000 cs (WMF) or equal	Staples MED DUTY PLASTIC FORK 1000/CT	CT	$14.53	$14.53
154	Utensils Forks –Plastic medium Weight White 1,000 ct (Solo or Equal)	Staples MED DUTY PLASTIC FORK 1000/CT	CT	$14.53	$14.53
155	Utensils Forks Clear (1,000 ct)	Staples MED DUTY PLASTIC FORK 1000/CT	CT	$14.53	$14.53
156	Utensils Spoons Plastic (Solo) or equal	Staples MED DUTY PLASTIC SPOON 1000/CT	CT	$14.74	$14.74
157	Utensils Spoons Plastic 1,000 ct (Solo) or equal	Staples MED DUTY PLASTIC SPOON 1000/CT	CT	$14.74	$14.74
158	Utensils Spoons Plastic Dispozo medium WMS 1,000 ct or equal	Staples MED DUTY PLASTIC SPOON 1000/CT	CT	$14.74	$14.74
159	Utensils Spoons Plastic medium Weight White (1,000 ct)	Staples MED DUTY PLASTIC SPOON 1000/CT	CT	$14.74	$14.74
160	Utensils Party Packs (Spoons, Forks, Knife, Napkin, Salt & Pepper)	BERK ENTERPRISES CUTLERY KIT - MEDIUM SET	CT	$14.66	$14.66
161	Vented Lid-Dart (12J12) or equal	Dart LID CUP LFT LOCK WE 1M/CT	CT	$23.66	$23.66
162	Vented Lid – Dart (8J8) or equal	Dart Lift N' Lock Lid Cup #8, White, 1000/Ct	CT	$16.26	$16.26
163	Wipers Workhorse Rags (Kimberly Clark) or equal	Staples ALL PURPOSE 9X16.5 WIPERS	CT	$42.78	$42.78
164	Wipers – (Kimberly Clark) 15x16.5 white (300cs) (K41100) or equal	Staples MED DUTY 12.75X16 WIPERS	CT	$11.73	$11.73
165	Body Shampoo – Per Gallon	Dial® Body and Hair Shampoo, 1 Gallon, 4/Ct	CT	$11.86	$47.45
166	Deodorant –Hygiene		No Bid		
167	Lice Killer – Aerosol		No Bid		
168	Razors – Double Edged		No Bid		
169	Sanitary Napkins Maxi No 4 Folded (Stayfree, Rochester, etc. or equal)	Rochester Midland Naturelle Feminine Napkins, #4, Regular, 250/Ct	CT	$38.57	$38.57
170	Sanitary Napkins Panty Liners	Rochester Midland Naturelle Feminine Napkins, #4, Ultra Thin, 200/Ct	CT	$32.39	$32.39
171	Sanitary Napkins Super No 4 Folded (Stayfree, Rochester, etc. or equal)	Rochester Midland Naturelle Feminine Napkins, #4, Regular, 250/Ct	CT	$38.57	$38.57
172	Sanitary Napkins Thin No 4 Folded (Stayfree, Rochester, etc or equal	Rochester Midland Naturelle Feminine Napkins, #4, Regular, 250/Ct	CT	$38.57	$38.57
173	Shaving Cream		No Bid		
174	Toothbrush Firm – Specify Size		No Bid		

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

OPENED 10/9/13 10:00am Witnessed

Janitorial & Industrial Supplies					
	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CAS
175	Toothbrush Medium Specify Size		No Bid		
176	Toothbrush Soft Specify Size		No Bid		
177	Toothpaste Std Size, Specify Size		No Bid		
178	Toothpaste Travel Size, Specify Size		No Bid		
179	Americo 20" Beige Ultra High Speed Burnishing Pads 5/bx-(20MUHSTBP) or equal	Staples Brighton Professional FLOORPAD 20IN TANNATRL BLAN 5/CT	CT	$3.23	$16.16
180	Buffing Pads 17" White	Staples Brighton Professional BUFFING FLOOR PAD RED 17 IN 5/CT	CT	$2.34	$11.71
181	Buffing Pads 20" White	Staples Brighton Professional BUFFING FLOOR PAD RED 20 IN 5/Ct	CT	$3.03	$15.16
182	Filters Windsor Exhaust for Sensor Xp12 Vacuum Cleaner (5143EF) or equal	Windsor EXHAUST FILTER XP12 SR12 1PK	EA	$1.13	$13.56
183	Filters Windsor Micro Hygiene for Sensor XP12 Vacuum Cleaner (5301ER) or equal	WINDSOR SNESOR MICRO FILTR 1PK	EA	$7.42	$89.04
184	Stripping Pads 17" Black	Staples Brighton Professional STRIPPING FLOOR PAD BKL 17IN 5/CT	CT	$2.93	$14.64
185	Stripping Pads 20" Black	Staples Brighton Professional STRIPPING FLOOD PAD BLK 20IN 5/Ct	CT	$3.74	$18.68
186	Vacuum Bags Windsor for Sensor XP12 Vacuum Cleaner 10 pk (Johnson & Johnson) or equal	WINDSOR SENSOR VERS MICRO BG10	PK	$10.13	$10.13
187	Gloves - Food Service Large Clear (Brand Name)	Tradex FOOD SERVICE GLOVES CLEAR LG 1000/BX	BX	$4.35	$43.50
188	Gloves – Food Service – Medium clear (Brand Name)	Tradex FOOD SERVICE GLOVES CLEAR MED 1000/BX	BX	$4.35	$43.50
189	Gloves Latex Small Disposable (Ansell)Yw or equal	Tradex LATEX DISP GLOVE PWDR SMALL 1000/CT	CT	$40.26	$40.26
190	Gloves Latex Large Disposable	Tradex LATEX DISP GLOVE PWDR LARGE 1000/CT	CT	$40.26	$40.26
191	Gloves Latex Large Non-Disposable Yw (Ansell) or equal	Tradex LATEX FLOCKLINED GLOVE LARGE 12/DZ	DZ	$6.22	$0.00
192	Gloves Latex Medium Non Disposable Yw (Ansell) or equal	Tradex LATEX FLOCKLINED GLOVE MEDIUM 12/DZ	DZ	$6.22	$0.00
193	Gloves Latex Medium Disposable (Ansell) or equal	Tradex LATEX DISP GLOVE PWDR MD 1000/CT	CT	$40.26	$40.26
194	Gloves Latex Small Non Disposable Yellow (Ansell) or equal	Tradex LATEX FLOCKLINED GLOVE SMALL 1000/CT	DZ	$6.22	$0.00
195	Gloves Safety (Nitrile) SFZGNPRXL1M or equal	Tradex NITRILE DISP GLOVE PWDR XL 1000/CT	CT	$51.95	$51.95
196	Body Towels Standard Size		No Bid		
197	Hand Towels Standard Size		No Bid		
198	Trash Liners -45 Gal X-Large 40x48 16 Mic High Density Can Liner	Brighton Professional™ High Density Coreless Roll Can Liners, 40-45 Gallon, 16 Micron,	CT	$28.16	$28.16
199	Trash Liners – Pitt Plastics 23x33 12-16 gal Black 1000cs (32 BL) or equal	Brighton Professional™ High Density Coreless Roll Can Liners, 12-16 Gallon, 6 Micron,	CT	$19.69	$19.69
200	Trash Liners – Large Trash Can 13 MIC 30 x 37 High Density Can Liners	Brighton Professional™ High Density Coreless Roll Can Liners, 20-30 Gallon, 12 Micron,	CT	$24.38	$24.38
201	Trash Liners –Large Trash Can 16 MIC 33 Gal 33x40 High Density Can Liners	Brighton Professional™ High Density Coreless Roll Can Liners, 33 Gallon, 16 Micron, Natural,	CT	$19.40	$19.40
202	Trash Liners – Tall Trash Can 8 MIC 24 x 33 High Density Can Liners	Brighton Professional™ High Density Coreless Roll Can Liners, 12-16 Gallon, 8 Micron,	CT	$26.22	$26.22

JANITORIAL & INDUSTRIAL SUPPLIES					
	DESCRIPTION OF ITEM(S)	BRAND	QT	UNIT PRIC	PRICE PER
203	Toilet Brushes (Standard Size) Plastic	Rubbermaid Toilet Bowl Brush, Plastic Handle, White, 14 1/2"	EA	$2.08	$24.96
204	Toilet Brushes – Hard Bristle Bowl Brush (0310) (Rubbermaid) or equal	Rubbermaid Toilet Bowl Brush, Plastic Handle, White, 14 1/2"	EA	$2.08	$24.96
205	Weed Killer (Round Up) or equal		No Bid		
206	Weed Killer 55 Gallon concentrated – Specify Dilution		No Bid		
207	Spartan Sanitize Quart Food Service 12/32 oz (SRTU) or equal		No Bid		
208	Sprayer (Trigger/Nozzles Only) red & white	Unisan Trigger Sprayer, 9 1/2" Long, For 32 oz. Bottles	EA	$0.56	$6.72
209	Bleach – Disinfectant Cleaner Dry Air – Hospital	KIKI BLEACH PURE BRIGHT 1 GAL 4/CT	CT	$2.05	$8.21
210	Bleach – Pure Bright Disinfection 6/cs (6BLCH) or equal	KIKI BLEACH PURE BRIGHT 1 GAL 4/CT	CT	$2.05	$8.21
211	Bio-Hazard Bag Red 40 X 48 3 mil		No Bid		
212	Disinfectant Wipes (Lysol) or equal	Staples® Disinfecting Wipes, Fresh Air Scent, 75 Wipes/Pk	PK	$2.68	$32.16

*Please see the following page for Acknowledgement Form/Bidder Information

OPENED
10/4/13
10:00am
Witnessed

I/We the undersigned hereby certify that I/We am/are a duly authorized official of the company and have the authority to sign on behalf of the company and assure that all statements made in the bid are true. I/We agree to furnish and deliver the specified items/services at the prices stated herein, and have read, understand, and agree to the terms and conditions contained herein and on all of the attachments.

BIDDER/COMPANY NAME: Staples Contract & Commercial, Inc. (operating as Staples Facility Solutions)

ADDRESS: 500 Staples Drive

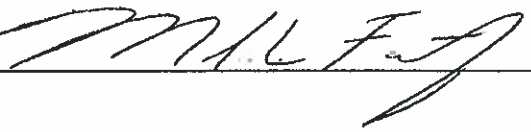
CITY/STATE/ZIP CODE: Framingham, MA 01702

TELEPHONE NUMBER: 508-253-6753 | Ext: 36753

EMAIL ADDRESS: Mark.Fortney@Staples.com

CELLULAR NUMBERS: 303-664-3753

FAX NUMBER: 508-253-8989

AUTHORIZED SIGNATURE: 

PRINTED NAME: Mark Fortney

TITLE: Area VP, Staples Facilitiy Solutions

DATE: October 8, 2013

EXHIBIT "C"
CERTIFICATE OF INSURANCE

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 1/23/2013

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER: Beecher Carlson Insurance Services 6 Concourse Parkway, Suite 2300 Atlanta, GA 30328 www.beechercarlson.com	CONTACT NAME: (ATL) Diane Stalcup PHONE (A/C, No, Ext): 678-539-4877 FAX (A/C, No): 678-539-4890 E-MAIL ADDRESS: dstalcup@beechercarlson.com
INSURED Staples, Inc. and the attached Named Insureds 500 Staples Drive Framingham MA 01702	INSURER(S) AFFORDING COVERAGE — NAIC # INSURER A : ACE American Insurance Company — 22667 INSURER B : ACE Property & Casualty — 20699 INSURER C : Indemnity Insurance of North America — 43575 INSURER D : INSURER E : INSURER F :

COVERAGES **CERTIFICATE NUMBER:** 15307168 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS		
A	GENERAL LIABILITY ✓ COMMERCIAL GENERAL LIABILITY CLAIMS-MADE ✓ OCCUR ✓ Contractual Liability GEN'L AGGREGATE LIMIT APPLIES PER: ✓ POLICY PRO-JECT LOC			HDO-G2056157-9	2/1/2013	2/1/2014	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ $ $ $ $ $	1,000,000 1,000,000 1,000,000 2,000,000 2,000,000
A	AUTOMOBILE LIABILITY ✓ ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS ✓ HIRED AUTOS ✓ NON-OWNED AUTOS			ISA-H0796283-6	2/1/2013	2/1/2014	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ $ $ $	3,000,000
B	✓ UMBRELLA LIAB ✓ OCCUR EXCESS LIAB CLAIMS-MADE DED RETENTION $			XOO-G27048584	2/1/2013	2/1/2014	EACH OCCURRENCE AGGREGATE	$ $	5,000,000 5,000,000
A A A C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N: N If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		WLR-C4312046-3(AZ,CA,MA) SCF-C4312050-5(WI) WCU-C4312053-0 (OH) WLR-C4312044-A(AOS)	2/1/2013 2/1/2013 2/1/2013 2/1/2013	2/1/2014 2/1/2014 2/1/2014 2/1/2014	✓ WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ $ $	1,000,000 1,000,000 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

The certificate holder is included as Additional Insured to the extent they have a written contract and follow all other terms and conditions within the insurance contract.

CERTIFICATE HOLDER	CANCELLATION
County of Hidalgo 100 E. Cano 5th Floor, Administration Bldg Edinburg TX 78539	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE (ATL) Robert W. Hessel

© 1988-2010 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

AGENCY CUSTOMER ID: 39

LOC #:

ADDITIONAL REMARKS SCHEDULE

Page ____ of ____

AGENCY	NAMED INSURED
Beecher Carlson Insurance Services	Staples, Inc. and the attached Named Insureds 500 Staples Drive Framingham MA 01702
POLICY NUMBER	
CARRIER / NAIC CODE	EFFECTIVE DATE:

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: 25 FORM TITLE: Certificate of Liability (05/10)

CERTIFICATE HOLDER: County of Hidalgo

ADDRESS: 100 E. Cano 5th Floor, Administration Bldg Edinburg TX 78539

INSURED: Staples, Inc.
POLICY PERIOD: 2/1/13 - 2/1/14

NAMED INSUREDS:

Staples the Office Superstore East, Inc.

Staples the Office Superstore LP

Staples Contract & Commercial, Inc., including:
- Staples National Advantage
- Business Interiors by Staples (fka Corporate Express Business Interiors)
- Coastwide Laboratories, Inc.
- Staples Promotional Products (fka Corporate Express Promotional Marketing, Inc.)
- Kross Outfitters
- Corporate Express Imaging & Computer Graphic Supplies
- Any other entity formerly known as Corporate Express
- Staples Technology Solutions.com
- Staples Enterprise Advantage
- Staples Business Advantage
- Staples Advantage
- Staples Industrial

Quill Corporation
- MAP (Medical Arts Press, Inc.)

Schoolkids.com, Inc.

Smilemakers, Inc.

Thrive Networks, Inc.

Corporate Express Document & Print Management, Inc.

© 2008 ACORD CORPORATION. All rights reserved.
The ACORD name and logo are registered marks of ACORD

ATTACHMENT

REQUIREMENTS AGREEMENT
C-13-147B-11-19

THIS AGREEMENT (the "Agreement") is entered into effective as of the 19th day of November, **2013** by and between **Sysco Central Texas, INC.,** ("Seller") and **Hidalgo County, Texas** ("Buyer").

WHEREAS, Buyer has solicited sealed bids for the supply of its requirements of **Hidalgo County** for the **"Janitorial Supplies, Industrial Chemicals & Supplies"** (the "Product") as further described in Exhibit "A", Request for Bids (RFB) Procurement Packet as attached hereto and incorporated herein by reference for all purposes (the "RFB") for a period of **one (1) year** and;

WHEREAS, Seller has submitted a proposal to supply Buyer's requirements; and

WHEREAS, Buyer has determine that Seller has submitted the lowest and best bid to meet Buyer's requirements for certain of the Products, as herein after described.

NOW THEREFORE, for and in consideration of the mutual covenants and conditions hereinafter set forth, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

1. Buyer agrees to purchase from Seller, and Seller agrees to sell and deliver to Buyer, all of the Products listed on Exhibit "B", which is attached hereto and incorporated herein by references, that Buyer may require for use by Buyer in Hidalgo County projects for a period of one (1) year, with the County's sole option to extend/renew for an additional two (2)-one (1) year terms based upon prior year's performance evaluation and contingent upon cost, terms and conditions remaining unchanged. Hidalgo County reserves the right to continue this bid for an additional sixty (60) day grace period, under the same rates, terms and conditions at the end of the contract term for unforeseen delays in award of new bid for the next contract term. This Contract shall commence on **January 01, 2014** and expire on **December 31, 2014** and it is agreed that the Products will meet the Specifications in the Request for Bids (RFB) Procurement Packet set forth in Exhibit "A" hereto.

2. When Buyer determines that it needs a quantity of the Products to be delivered, it will, according to its Purchasing Policies, complete and submit to Seller a Purchase Order describing the type and quantity of the Products required.

The Products are to be delivered by Buyer to the location in Hidalgo County specified by Buyer in its Purchase Order.

3. Buyer agrees to pay Seller for each Purchase Order based on the prices set out in Exhibit "B". Seller shall render invoices for each Purchase Order, and the invoices shall be paid by Buyer on or before the 30th day following receipt of the invoice.

4. General Provisions.

a. **Conflict with Applicable Law.** Nothing in this Agreement shall be construed so as to require the commission of any act contrary to law, and whenever there is any conflict between any provision of this Agreement and any present or future law, ordinance or administrative, executive or judicial regulation, order or decree, or amendment thereof, contrary to which the parties have no legal right to contract, the latter shall prevail, but in such event the affected provision or provisions of this Agreement shall be modified only to the extent necessary to bring them within the legal requirements and only during the time such conflict exists.

b. **No Waiver.** No waiver by Buyer of any breach of any provision of this Agreement shall be deemed to be a waiver of any preceding or succeeding breach of the same or any other provision hereof.

c. **Entire Agreement.** This Agreement contains the entire contract between the parties hereto, and each party acknowledges that neither has made (either directly or through any agent or representative) any representations or agreements in connection with this Agreement not specifically set forth herein. This Agreement may be modified or amended only by agreement in writing executed by Buyer and Seller, and not otherwise.

d. **Texas Law to Apply.** This Agreement shall be construed under and in accordance with the laws of the State of Texas, and all obligations of the parties created hereunder are performable in Hidalgo County, Texas. The parties hereby consent to personal jurisdiction in Hidalgo County, Texas.

e. **Notice.** Except as may be otherwise specifically provided in this Agreement, all notices, demands, requests or communications required or permitted hereunder shall be in writing and shall either be (i) personally delivered against a written receipt, or (ii) sent by registered or certified mail, return receipt requested, postage prepaid and addressed to the parties at

the addresses set forth below, or at such other addresses as may have been theretofore specified by written notice delivered in accordance herewith:

If to Buyer: Hidalgo County
Attention: County Judge
302 West University Drive
Edinburg, Texas 78539

If to Seller: Sysco Central Texas, INC.
Attn. Mike Fuller
1260 Schwab Rd
New Braunfels, Texas 78132

Each notice, demand, request or communication which shall be delivered or mailed in the manner described above shall be deemed sufficiently given for all purposes at such time as it is personally delivered to the addressee or, if mailed, at such time as it is deposited in the Unites States mail.

f. **Termination.** County may terminate this Agreement at any time for any reason or no reason at all upon giving thirty (30) days written notice.

g. **Additional Documents.** The parties hereto covenant and agree that they will execute such other and further instruments and documents as are or may become necessary or convenient to effectuate and carry out the terms of this Agreement.

h. **Successors.** This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, executors, administrators, legal representatives, successors, and assigns where permitted by this Agreement.

i. **Assignment.** This Agreement shall not be assignable.

j. **Headings.** The headings and captions contained in this Agreement are solely for convenient reference and shall not be deemed to affect the meaning or interpretation of any provision or paragraph hereof.

k. **Gender and Number.** All pronouns used in this Agreement shall include the other gender, whether used in the masculine, feminine or neuter gender, and the singular shall include the plural whenever and as often as may be appropriate

l. **Authority to Execute.** The execution and performance of this Agreement by Buyer and Seller have been duly authorized by all necessary laws, resolutions or corporate action, and this Agreement constitutes the valid and enforceable obligations of Buyer and Seller in accordance with its terms.

m. **Insurance.** Company shall provide insurance in force on all persons and vehicles connected with providing products and or services under this Contract naming County as an additional insured, and shall furnish to County certificates of such insurance coverage Exhibit "C", which is attached hereto.

n. **Commitment of Current Revenues Only**. In the event that, during any term hereof, the Commissioners Court does not appropriate sufficient funds to meet the obligations of Buyer under this Agreement, Buyer may terminate this Agreement upon ninety (90) days written notice to Seller. Buyer agrees, however, to use reasonable efforts to secure funds necessary for the continued performance of this Agreement. The parties intend this provision to be a continuing right to terminate this Agreement at the expiration of each budget period of Buyer pursuant to the provisions of Tex. Loc. Govt. Code Ann. ' 271.903 (Vernon Supp. 1996).

o. **Purchasing Ethics**. Seller represents and warrants it has not, during the process of being awarded this contract violated the following ethical standards of Buyer and, upon and after the execution of this Agreement, agrees to abide by the following ethical standards of Buyer:

(1) It shall be a breach of ethics to offer, give or agree to give any elected official, department head or employee, or former elected official, department head or employee, of Hidalgo County, or for any elected official, department head or employee or former elected official, department head or employee of Hidalgo County, to solicit, demand, accept or agree to accept from another person, entity or organization, a gratuity or an officer of employment in connection with any decision, approval, disapproval, recommendation, preparation or any part of a program requirement or purchase request, influencing the content of any specification or procurement standard, rendering of advise, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter pertaining to any program requirement or a

contract or subcontract, or to any solicitation or proposal therefore pending before any department or agency of Hidalgo County.

(2) It shall be a breach of ethics for any payment, gratuity or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor for any contract for Hidalgo County, or any person associated therewith, as an inducement for the award of a subcontract or order.

EXECUTED effective as of the day and year first above written.

Approved By Commissioners Court:_____

COUNTY OF HIDALGO

ATTEST:

By:_____
Ramon Garcia, County Judge

_____
Arturo Guajardo Jr., County Clerk

COMPANY:

By:_____

Printed Name:_____

Title:_____

APPROVED AS TO FORM:
Atlas & Hall, L.L.P.

_____
Stephen L. Crain, Attorney

EXHIBIT "A"

REQUEST FOR BIDS (RFB) PROCUREMENT PACKET

EXHIBIT "B"
BID PAGE

JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES
SYSCO CENTRAL TEXAS

Janitorial & Industrial Supplies

	DESCRIPTION OF ITEM(S)	BRAND	QTY	NIGP CODE INTERNAL USE ONLY	TOTAL PRICE
27	Dishwashing Liquid 32 oz (Dawn) or equal	Dawn D	6/32oz	48538	27.88
28	Dishwashing Liquid 42 oz (Dawn) or equal	Dawn D	8/38oz	48538	33.15
83	Purell Hand Sanitizer Refill (GOJ545604) or equal	Ecolab	20 ea	48514	4.15
85	Saddle Bag (SB8.5 Clr6.5x7) or equal	Sysco	2000/6.5x7	48588	11.03
86	Scouring Sponges Yw/Green Standard Size 3M/equal	Scthbrt	1/20ct	48588	9.53
100	Toilet Seat covers	Hospeco	4/250ct	48546	15.44
103	Trash Cans & Lids 32 Gallon (Rubbermaid) or equal	Carlist		48594	22.98-Can
		Carlist		48594	10.97-Lid
114	Baggies Ziploc 7x8 Quart Size (Hefty or equal)	Elkay	500	64008	20.06
116	Butcher Paper 24”	Packer	1/18”	64045	22.45
118	Film Wrap 18” Heavy Duty 2,000 ft (Reynolds) or equal	Sysco	1/18”	64060	14.47
120	Foam – Bowls 6oz w/lids	Dart	10/100	64060	27.47Bowl
		Dart	10/100	64060	17.18Lid
122	Foil Wrap Potato (Reynolds) or equal	Sysco	6/500ct	64080	47.32
123	Laced Dollies (different sizes and types)	Sys Cls	2254043	64050	27.00
126	Pactiv or equal 9x6 5.2.75 foam Hinged Tray	Pactiv	2/75ct	64060	12.25
130	Paper Bags #8 Brown (Duro) or equal	Sysco	500	64015	11.27
131	Paper Bags 1/6 BBL Brown 1657 (Duro) or equal	Sysco	500	64015	34.46
132	Paper Bags 6lb. Brown 6 BG (Duro) or equal	Sysco	500	64015	9.54
139	Styrofoam Bowl – 6oz-1,000 case	Dart	20/50ct	64060	27.41
140	Styrofoam Bowls 12 oz (Pacific 1-0012) equal or better	Sy Rel	8/125ct	64060	16.54
141	Styrofoam Cup 8 oz. (8J8) or equal	Dart	40/25ct	64060	16.90
142	Styrofoam Cups oz (UJ4) or equal	Sys Rel	4/125ct	64060	15.40
143	Styrofoam Plates 6” Laminated	Sys Cls	8/125ct	64060	18.27
144	Styrofoam Plates 6” Un-laminated	Sys Rel	8/125ct	64060	14.12
145	Styrofoam Plates 9” Divided (Mobil TJ1-00110 or equal	Sys Rel	4/125ct	64060	13.45
146	Styrofoam Plates 9” Laminated	Sys Cls	4/125ct	64060	20.39
147	Styrofoam Plates 9” Un-laminated	Sys Rel	4/125ct	64060	13.45
148	Styrofoam Tray Hinges 9x9x3 3-Compartment w/Lid (Pactiv YDT 19903(150 cs or equal	Pactiv	150cs	64060	11.75
151	Toilet Tissue (6 Jumbo 2000ft) (Georgia Pacific) or equal	Baywest	6/2000	64075	23.49
153	Utensils-Forks Plastic Dispozo-Medium 1,000 cs (WMF) or equal	Nutrbon	1000ct	64060	6.88
154	Utensils-Forks Plastic Medium Wight White 1,000 ct (Solo or equal)	Solo	1000ct	64060	6.88
157	Utensils Spoons Plastic 1,000 ct (Solo) or equal	Sys Rel	1000ct	64060	9.47
158	Utensils Spoons Plastic Dispozo medium WMS (1,000 ct or equal)	Nutrbon	1000ct	64060	6.88
159	Utensils Spoons Plastic Medium Weight White (1,000ct)	Sys Rel	1,000ct	64060	9.47
160	Utensils Party Packs (Spoons, Forks, Knife, Napkin, Salt & Pepper)	Nutrbon	250ct	64060	14.14
161	Vented Lid-Dart (12J12) or equal	Dart	10/100ct	64060	12.72
162	Vented Lid – Dart (8J8) or equal	Dart	10/1000	64060	10.03
189	Gloves latex Small Disposable (Ansell) Yw or equal	Sys Cls	10/100ct	20142	13.37
190	Gloves LatexaLarge Disposable	Sys Cls	10/100ct	20142	13.39
191	Gloves Latex Large Non-Disposable Yw (Ansell) or equal	Sys Cls	4/100ct	20142	18.52
192	Gloves Latex Medium Non Disposable Yw Ansell or equal	Sys Cls	4/100ct	20142	18.49
193	Gloves Latex Medium Ansell or equal	Sys Cls	4/100ct	20142	13.37
194	Gloves Latex Small Non Disposable Yellow Ansell or equal	Sys Cls	4/100ct	20142	18.49
195	Gloves Safety (Nitrile) SFZGNPRXL1M or equal	JB Select	4/250ct	20141	52.89

EXHIBIT "B"
BID PAGE
RFB NO. 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS SUPPLIES"

Janitorial & Industrial Supplies

	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
1	3M Green 6x9 Scouring Pads 20/Box (96HP) or equal 1376805 20 ct	3M	1	$0.4620	$9.24
2	3M Griddle Screens 10 per pack (200) or equal 5793971 10/20 ct	3M	1	$0.2510	$50.21
3	Air Freshener — Aerosol Asst Scents 0185278 6/7.9 oz 0185266 6/7.9 oz	Sys Rel	1	$6.0880	$36.53
4	Air Freshener —Time Mist Asst Scents 6.6 oz No Bid			No Bid	
5	Ant & Roach Spray odorless 1303581 6/15 oz	Keystone	1	$8.0210	$48.13
6	Ant & Roach Spray odorless to contain deltametrin No Bid			No Bid	
7	Bowl Cleaner — Liquid (Non Acid) EPA Registered 7637430 6/32 oz			$4.6930	$28.16
8	Bowl Cleaner Liquid 23% - 26% HIC EPA Registered No Bid			No Bid	
9	Bowl Mops (Rayon) or equal 9407263 1/ea	Con Mfg	1	$0.9600	$0.96
10	Brooms (Plastic Angle) or equal 1341197 1/54 in	Sysco	1	$15.9000	$15.90
11	Brooms —Janitorial Straw 4194908 6/32 lb	Sysco	1	$7.1480	$42.89
12	Brooms Maids Straw (Waco) or equal 4180642 6 ea	Sysco	1	$3.1880	$19.13
13	Carpet Shampoo — Liquid Ammonia B33 No Bid			No Bid	
14	Carpet Powder & Deodorizer No Bid			No Bid	
15	Carpet Shampoo Liquid No Bid			No Bid	
16	Carpet Spot Remover 32 oz No Bid			No Bid	
17	Carroll Heavy Duty Chemical Deodorant 4/1 Gallons or equal No Bid			No Bid	
18	Cleaner-Diversey General Purpose 4/1 Gallons or equal No Bid			No Bid	
19	Cleaner Oven 24 oz. Foam Cleaner 4127627 6/24 oz	Easy Off	1	$5.0110	$30.07
20	Cleaner Stainless Steel waterless based No Bid			No Bid	
21	Continental 18" rubber floor squeegees (1800) or equal 6876262 1/18 in	Carlisle	1	$25.3900	$25.39
22	Continental 24: rubber floor squeegee (2400) or equal 5661665 1/24 in	Carlisle	1	$25.3900	$25.39
23	Degreaser — 55 gallon No Bid			No Bid	
24	Detergent — Colgate Palmolive Dishwashing — 12/32 or equal 4467353 4/1 gal	Palmolive	1	$12.3050	$49.22
25	Detergent- Power Dishwashing(Cream Suds) or equivalent -50 lb box 4102141 1/50 lb	Crmsuds	1	$88.6400	$88.64
26	Dishwashing Capsules — US Chemicals 6/8 lb. (failsafe) or equal 8265585 4/9 lb	Ecolab	1	$22.1600	$88.65
27	Dishwashing Liquid 32 oz. (Dawn) or equal 2035434 6/32 oz	Dawn D	1	$4.6466	$27.88
28	Dishwashing Liquid 42 oz. (Dawn) or equal 6483853 8/38 oz	Dawn D	1	$4.1475	$33.18
29	Disinfectant & Deodorizer Cleaner Aerosol 8549935 6/14 oz	Keystone	1	$4.8033	$28.82
30	Disinfectant Cleaner Carroll clear pine mop 4/1 gallon (Pine1) or equal 7681797 4/1 gal	Keystone	1	$6.8175	$27.27

EXHIBIT "B"
BID PAGE
RFB NO. 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS SUPPLIES"

JANITORIAL AND INDUSTRIAL SUPPLIES

	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
31	Disinfectant Cleaner Carroll Clear Lemon Mop 4/1 gallon (Lemon1) or equal 8409230 4/1 gal	Sys Rel	1	$6.3075	$25.23
32	Disinfectant Deodorant Spray — Hospital (Tuberculicial Rated) 6194005 2/2 ltr	Ecolab	1	$42.9950	$85.99
33	Disinfectant Deodorant Spray Aerosol — Hospital (1 Minute Kill time) 8549935 6/14oz	Keystone	1	$4.8033	$28.82
34	Disinfectant Deodorant Spray Hospital 8549935 6/14 oz	Keystone	1	$4.8033	$28.82
35	Disinfectant Foam Cleaner — Hospital 8577217 6/19 oz	Keystone	1	$4.9650	$29.79
36	Disinfectant —Cleaning compound for Animal Cage -Consume Eco-Lyzer (Spartan) or equivalent 5402361 2/1.3 L	Ecolab	1	$19.3750	$38.75
37	Disinfectant/Deodorant Spray — Diversely 12/15oz (Endbac I) or equal 8549935 6/14 oz	Keystone	1	$4.8033	$28.82
38	Dispenser - Air Freshener Time Mist 0906234 1/ea	Sys Rel	1	$23.3400	$23.34
39	Dispenser —Roll Paper Towel — Lever or Crank (Metal or Plastic) 5854336 1/ea	Sysco	1	$35.0400	$35.04
40	Dispensers- Liquid Hand Soap (Bulk Soap) 1239755 1/ea	Impact	1	$16.6800	$16.68
41	Dispensers- Paper Towels Multi Folds Universal (Metal) 7050388 1/ea	Sanj Mar	1	$34.8200	$34.82
42	Dispensers — Paper Towels Multi Folds Universal (Plastic) 7050388 1/ea	Sanj Mar	1	$34.8200	$34.82
43	Dust Cloths (Disposable)Yw No Bid			No Bid	
44	Dust Cloths — Non Disposable No Bid			No Bid	
45	Dust Mop 24"x3 Disposable No Bid			No Bid	
46	Dust Mop 24" X 5 Non Disposable 6052211 1/Set	Sysco	1	$33.1100	$33.11
47	Dust Mop 24" x 3 Non Disposable No Bid			No Bid	
48	Dust Mop 24" x 5 Disposable No Bid			No Bid	
49	Dust Mop Frames 24 x5 No Bid			No Bid	
50	Dust Mop Handles —Swivel Snap On No Bid			No Bid	
51	Dust Mop Treatment (Aerosol) No Bid			No Bid	
52	Dust Mop Treatment TRU Equal No Bid			No Bid	
53	Dust Pan Metal — Lobby or equal 5653860 1/16"	Con Mfg	1	$10.6200	$10.62
54	Dust Pan Plastic — Lobby or equal 7378989 1/ea	Sysco	1	$13.3600	$13.36
55	Enzyme Deodorizers — per gallon Liquid 6962730 6/24 oz	Ecolab	1	$15.1966	$91.18
56	Feather Duster Extensions 12 ft No Bid			No Bid	
57	Feather Duster Extensions 8ft No Bid			No Bid	
58	Feather Dusters 21 inch Ostrich or Equal No Bid			No Bid	
59	Feather Dusters 26 inch Ostrich or Equal No Bid				

EXHIBIT "B"
BID PAGE
RFB NO. 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS SUPPLIES"

JANITORIAL & INDUSTRIAL SUPPLIES

	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
60	Floor Cleaner — Diversey Citrus Stride Neutral 5 gal bx (Stride%) or equal 5076708 1/5 gal	Sysco	1	$54.2900	$54.29
61	Floor Cleaner — Diversey Floral Fragrance Neutral 4/1 gal (FLStride 14) or equal No Bid			No Bid	
62	Floor Finish/Wax — Diversey 5 Gal (Vectra5) or equal No Bid			No Bid	
63	Furniture Polish Aerosol 8509364 6/17 oz	Keystone	1	$4.5916	$27.55
64	Glass Cleaner —Liquid Concentrate (Spartan) or equal 1587120 1/2.5 gal	Ecolab	1	$65.1500	$65.15
65	Glass Cleaner RTU — 32 oz. (Spartan) or equal 7682790 4/32 oz	Keystone	1	$4.4825	$17.93
66	Hand Cleaner — Waterless 5156740 4/1 gal	Ecolab	1	$35.4250	$141.70
67	Hanging Toilet Bowl Blocks 8409298 12/100 g	Keystone	1	$2.1091	$25.31
68	Heavy Duty Laundry Detergent (for Commercial Laundry System) 8412142 1/25 lb	Sys Rel	1	$28.6700	$28.67
69	Janitorial Cart w/Yellow Vinyl Bag —Rubbermaid (6173) or equal No Bid			No Bid	
70	Mop Bucket combo Std Size (Rubbermaid 7580) or equal 8011112 1/35 qt	Rubbermaid	1	$86.7300	$86.73
71	Mop Handles Fiber Glass 54" Jr. Etc. or equal 6760623 1/54"	Sysco	1	$25.7400	$25.74
72	Mop Handles Wood 54" Junior 4180147 6/60"	Sysco	1	$8.5416	$51.25
73	Mop Head Cotton — Size 16 oz 4179172 1/3ct	Sysco	1	$3.7133	$11.14
74	Mop Head Cotton - Size 24 oz 4179339 1/3 ct	Sysco	1	$5.3233	$15.97
75	Mop Head Cotton —Size 32 oz. 4179347 1/3 ct	Sysco	1	$7.0067	$21.02
76	Mop Head Rayon —Size 16 oz. 3562212 1/3 ct	Sysco	1	$7.6633	$22.99
77	Mop Head Rayon — Size 24 oz. No Bid			No Bid	
78	Mop Head Rayon — Size 32 oz. No Bid			No Bid	
79	Mosquito Repellent Lotion No Bid			No Bid	
80	Mosquito Repellent Spray 1303581 6/15 oz	Keystone	1	$8.0216	$48.13
81	Odor Eliminator — Non Aerosol 7681531 6/32 oz	Keystone	1	$5.8566	$35.14
82	Premium Foam Antibacterial Soap Refill (G0.1536202) or equal 5156740 4/1 gal	Ecolab	1	$35.3125	$141.25
83	Purell Hand Sanitizer Refill-G0J545604 or equal 0127690 20/ea	Ecolab	1	$0.2075	$4.15
84	Royal griddle Bricks for Cleaning Grills 12/box (GBRICK) or equal 5793963 12 8x4 in	Sysco	1	$1.7583	$21.10
85	Saddle Bag (SB8.5 Clr 6.5x7) or equal 4022307 2000/6.5x7	Sysco	1	$0.0055	$11.03
86	Scouring Sponges Yw/Green Standard Size 3M/equal 3952330 1/20 ct	Scthbrt	1	$0.4765	$9.53
87	Scrubbing Cleansers — 21 oz (Comet) or equal 8435178 24/21 oz	Comet C	1	$1.2433	$29.84
88	Soap-Liquid Hand Antibacterial per gallon (pearl hand cleaner) or equal 5156740 4/1 gal			$15.0300	$60.15
89	Soap Anti Bacterial — Bar 3.5 oz (1,000per case) No Bid			No Bid	
90	Soap Bar — 75 oz. — (1,000 per case) No Bid			No Bid	

EXHIBIT "B"
BID PAGE
RFB NO. 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS SUPPLIES"

Janitorial & Industrial Supplies

	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
91	Soap Hand — Liquid — (Bag in Box) 7990278 6/800 ML	Sysco	1	$6.0050	$36.03
92	Spartan 15% Orange Tough cleaner/degreaser 12/32 oz (0T15QT) or equal 2977221 6/32 oz	Ecolab	1	$5.2800	$31.73
93	Spartan antiseptic/antibacterial hand soap 4/1 gal (AntiHsoap1) or equal 5156740 4/1 gal	Ecolab	1	$15.0300	$60.15
94	Spartan bounce back floor finish restorer 4/1 gal (Bounce1) or equal No Bid			No Bid	
95	Spartan Foamy Q&A phosphoric acid shower cleaner 12/32 oz (Foamy RTU) or equal 7637430 6/32 oz	Keystone	1	$4.6666	$28.00
96	Spartan fresh scent deodorant spray 12/18 oz (Airfresh AER) or equal 8549935 6/14 oz	Keystone	1	$4.7716	$28.63
97	Spray Bottles —24 oz empty bottles or equal 7042494 3/24 oz	Con Mfg	1	$1.4766	$4.43
98	Spray Bottles —32 oz empty bottles (bottleqt) or equal 5881954 1/32 oz	Con Mfg	1	$0.8300	$0.83
99	Toilet Dispenser Universal (12" Jumbo toilet Tissue) 4993130 1/ea	George P	1	$13.7900	$13.79
100	Toilet Seat Covers 5651486 4/250 ct	Hospeco	1	$0.0154	$15.44
101	Trash Can 55 Gal —XX Large 28x58 1.5 mil 8291011 100/55-60G	BryPlas	1	$0.3587	$35.87
102	Trash Cans & Lids 16 Gal No Bid			No Bid	
103	Trash Cans & Lids 32 Gallon (Rubbermaid) or equal 0720138 1/32 gal Lid - 5986346	Sysco/Carlisl	1	$22.98 $10.97	$22.98 $10.97
104	Trash Cans —10 Gal No Bid			No Bid	
105	Urinal Block w/Screens 8409298 12/100g	Keystone	1	$2.1216	$25.46
106	Urinal Blocks (Blocks Only) No Bid			No Bid	
107	Urinal Deodorant Screens —Screens Only No Bid			No Bid	
108	Wasp/Hornet Spray No Bid			No Bid	
109	Wasp/Hornet Spray —20 Ft Stream No Bid			No Bid	
110	Wax Stripper Floor Finish Liquid — High Speed (Vectea)(Johnson & Johnson) or equal No Bid			No Bid	
111	Baggies 1/4 Size Slider Bag Ziploc Snack Bags (Hefty) or equal No Bid			No Bid	
112	Baggies 4"x4" Enono Zip (Ziploc Regular Sandwich Bags) or equal 5161591 2000/ea	Hangard	1	$0.0059	$11.87
113	Baggies Ziploc 16x11 Gallon Size (Hefty) or equal 0770701 250/ea	Elkay	1	$0.1021	$25.52
114	Baggies Ziploc 7x8 Quart Size (Hefty or equal 0770685 500 ea	Elkay	1	$0.0401	$20.06
115	Baggies Freezer Bags 10x11 —200 ct (Quick Seal) or equal No Bid			No Bid	
116	Butcher Paper 24" 8852618 1/18"	Packer	1	$22.4500	$22.45
117	Facial Tissue(Georgia Pacific) equal or better 0725481 36/96 ct	George P	1	$1.4531	$52.31
118	Film Wrap 18" Heavy Duty 2,000 ft. (Reynolds) or equal 7435266 1/18"	Sysco	1	$14.4700	$14.47

EXHIBIT "B"
BID PAGE
RFB NO. 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS SUPPLIES"

Janitorial & Industrial Supplies						
	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
119	Film Wrap 18"x3000 — Heavy Duty (Reynolds) or equal 7435290 1/18 in	Sysco	1	$36.7600	$36.76
120	Foam — Bows 6 oz. w/lids 6526412 20/50 ct w/lid 4245882 10/100	Dart	1	$0.2747 $0.001718	$27.47 $17.18
120alt	Foam — Bows 6 oz. w/lids 4125167 20/50 ct	Dart	1	$0.2416	$24.16
121	Foil Wrap 18" Heavy Duty 500 ft. (Reynolds) or equal 4367819 1/18"	Reynolds	1	$44.4900	$44.49
122	Foil Wrap Potato (Reynolds) or equal 6938500 6/500 ct	Sysco	1	$0.0158	$47.32
123	Laced Dollies (different sizes and types) 2254043, 2254464, 2253771 1/1000	Sys Cls	1	$0.027 $0.03296 $0.01777	$27.00 $32.96 $17.77
124	Menu Tissue 12 x 12 1235498 10/1000	Sysco	1	$0.0090	$89.72
125	Napkins 2 Ply Quarter Fold (Georgia Pacific) or equal 7313846 8/375 CT	Syc Cls	1	$0.0142	$42.45
126	Pactiv —or equal — 9x6 5.2.75 foam hinged Tray 7882820 2/75 ct	Pactiv	1	$0.0817	$12.25
127	Pan Liners — (Dispozo) 1,000 cs No Bid			No Bid	
128	Paper Bags #10 Brown (Duro) or equal 5113428 2/500 ct	Sysco	1	$0.0265	$26.46
129	Paper Bags #4 Brown (Duro) or equal No Bid			No Bid	
130	Paper Bags #8 Brown (Duro) or equal 1594114 500/ea	Sysco	1	$0.0225	$11.27
131	Paper Bags 1/6 BBL Brown 1657 (Duro) or equal 2228623 500/ea	Sysco	1	$0.0689	$34.46
132	Paper Bags 61b. Brown 6BG (Duro) or equal 1594060 500/ea	Sysco	1	$0.0191	$9.54
133	Paper Cups Portion 10 oz (Solo) equal or better No Bid			No Bid	
134	Paper Roll Towels Kitchen (Scott 1159) or equal 4661088 12/210 sht	Sys Cls	1	$1.7875 bx	$21.45
135	Paper Towels Brown Rolls Standard Size(Georgia Pacific) or equal 4661245 12/210 sht	Sysco	1	$1.805 bx	$21.66
136	Paper Towels Multi Fold 3864642 16/150 ct	Sys Imp	1	$0.0113	$27.14
137	Paper Towels Multi Folds White Bleached 9.25X9.5 1814805 16/125 ct	George P	1	$0.0121	$24.21
138	Paper Towels (GEP89460) En-motion high capacity —white 10X800 or equal 9627761 6/800 ft	George P	1	$9.825 bx	$58.95
139	Styrofoam Bowl -6 oz 1,00 case 6526412 20/50 ct	Dart	1	$0.0274	$27.41
140	Styrofoam Bowls 12 oz. (Pacific 1-0012) equal or better 7932785 8/125 ct	Sys Rel	1	$0.0165	$16.54
141	Styrofoam Cup 8 oz. (8J8) or equal 4922076 40/25 ct	Dart	1	$0.0169	$16.90
142	Styrofoam Cups oz. (UJ4) or equal 4330452 20/50 ct	Dart	1	$0.0154	$15.40
143	Styrofoam Plates 6" Laminated 8593610 8/125 ct	Sys Cls	1	$0.0183	$18.27
144	Styrofoam Plates 6" Un-laminated 8615753 8/125 ct	Sys Rel	1	$0.0141	$14.12
145	Styrofoam Plates 9" Divided (Mobil Ti 1-0011) or equal 5274840 4/125 ct	Sys Rel	1	$0.0269	$13.45
146	Styrofoam Plates 9" Laminated 8593602 4/125 ct	Sys Cls	1	$0.0408	$20.39
147	Styrofoam Plates 9" Un-laminated 5274832 4/125 ct	Sys Rel	1	$0.0269	$13.45

EXHIBIT B
BID PAGE
RFB NO. 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS SUPPLIES"

JANITORIAL & INDUSTRIAL SUPPLIES

	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
148	Styrofoam Tray Hinges 9x9x3 Three Compartment w/Lid (Pactiv YTD 19903) 150 cs or equal 7551324 150/9x9x3	Pactiv	1	$0.0783	$11.75
149	Toilet Tissue (12/1000 Jr Jumbo) (Georgia Pacific) or equal 6565988 8/1000 sht	George P	1	$3.06375 bx	$24.51
150	Toilet Tissue 2 Ply Small Short Sheet (Georgia Pacific) or equal 8009401 60/400sht	George P	1	$0.8833 bx	$53.00
151	Toilet Tissue (6/Jumbo 2000 ft) (Georgia Pacific) or equal 3860541 12/2000 ft	Sys Cls	1	$4.3433 bx	$52.12
152	Utensils Forks — Plastic 2,000 ct (James River Wn F2P) or equal No Bid			No Bid	
153	Utensils Forks — Plastic Dispozo — medium 1,000 cs (WMF) or equal 8419594 1000/ct	Nutrbon	1	$0.0069	$6.88
154	Utensils Forks —Plastic medium Weight White 1,000 ct (Solo or Equal) 8419594 1000 ct	Solo	1	$0.0069	$6.88
155	Utensils Forks Clear (1,000 ct) 7947327 1000/ct	Sys Cls	1	$0.0390	$38.99
156	Utensils Spoons Plastic (Solo) or equal 8003422 1000/ct	Sys Cls	1	$0.0199	$19.86
157	Utensils Spoons Plastic 1,000 ct (Solo) or equal 7974771 1000/ea	Sys Rel	1	$0.0095	$9.47
158	Utensils Spoons Plastic Dispozo medium WMS 1,000 ct or equal 8419626 1000/ct	Nutrbon	1	$0.0069	$6.88
159	Utensils Spoons Plastic medium Weight White (1,000 ct) 7974771 1000/ea	Sys Rel	1	$0.0095	$9.47
160	Utensils Party Packs (Spoons, Forks, Knife, Napkin, Salt & Pepper) 8420805 250/ct	Nutrbon	1	$0.0566	$14.14
161	Vented Lid-Dart (12112) or equal 4097473 10/100 ct	Dart	1	$0.0127	$12.72
162	Vented Lid — Dart (818) or equal 4001178 10/100 ct	Dart	1	$0.0100	$10.03
163	Wipers Workhorse Rags (Kimberly Clark) or equal 4406096 150/ea	Chix	1	$0.2626	$39.40
164	Wipers — (Kimberly Clark) 15x16.5 white (300cs) (K41100) or equal 8571507 150/ea	Atlanic	1	$0.3784	$56.76
165	Body Shampoo — Per Gallon No Bid			No Bid	
166	Deodorant —Hygiene No Bid			No Bid	
167	Lice Killer — Aerosol No Bid			No Bid	
168	Razors — Double Edged No Bid			No Bid	
169	Sanitary Napkins Maxi No 4 Folded (Stayfree, Rochester, etc. or equal) No Bid			No Bid	
170	Sanitary Napkins Panty Liners No Bid			No Bid	
171	Sanitary Napkins Super No 4 Folded (Stayfree, Rochester, etc. or equal) No Bid			No Bid	
172	Sanitary Napkins Thin No 4 Folded (Stayfree, Rochester, etc or equal No Bid			No Bid	
173	Shaving Cream No Bid			No Bid	
174	Toothbrush Firm —Specify Size No Bid			No Bid	

EXHIBIT B
BID PAGE
RFB NO. 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS SUPPLIES"

Janitorial & Industrial Supplies

	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
175	Toothbrush Medium Specify Size No Bid			No Bid	
176	Toothbrush Soft Specify Size No Bid			No Bid	
177	Toothpaste Std Size, Specify Size No Bid			No Bid	
178	Toothpaste Travel Size, Specify Size No Bid			No Bid	
179	Americo 20" Beige Ultra High Speed Burnishing Pads 5/bx-(20MUHSTBP) or equal No Bid			No Bid	
180	Buffing Pads 17" White No Bid			No Bid	
181	Buffing Pads 20" White No Bid			No Bid	
182	Filters Windsor Exhaust for Sensor Xp12 Vacuum Cleaner (5143EF) or equal No Bid			No Bid	
183	Filters Windsor Micro Hygiene for Sensor XP12 Vacuum Cleaner (5301ER) or equal No Bid			No Bid	
184	Stripping Pads 17" Black No Bid			No Bid	
185	Stripping Pads 20" Black No Bid			No Bid	
186	Vacuum Bags Windsor for Sensor XP12 Vacuum Cleaner 10 pk (Johnson & Johnson) or equal No Bid			No Bid	
187	Gloves - Food Service Large Clear (Brand Name) 8345811 4/100 ct	Sys Cls	1	$0.0501	$20.03
188	Gloves — Food Service — Medium clear (Brand Name) 8347841 4/100 ct	Sys Cls	1	$0.0500	$20.00
189	Gloves Latex Small Disposable (Ansell)Yw or equal 8348245 10/100 ct	Sys Cls	1	$0.0134	$13.37
190	Gloves Latex Large Disposable 8346538 10/100 ct	Sys Cls	1	$0.0134	$13.39
191	Gloves Latex Large Non-Disposable Yw (Ansell) or equal 8338501 4/100 ct	Sys Cls	1	$0.0463	$18.52
192	Gloves Latex Medium Non Disposable Yw (Ansell) or equal 8337156 4/100 ct	Sys Cls	1	$0.0462	$18.49
193	Gloves Latex Medium Disposable (Ansell) or equal 8348245 10/100 ct	Sys Cls	1	$0.0134	$13.37
194	Gloves Latex Small Non Disposable Yellow (Ansell) or equal 8337156 4/100 ct	Sys Cls	1	$0.0462	$18.49
195	Gloves Safety (Nitrile) SFZGNPRXL1M or equal 0395208 4/250 ct	JB Select	1	$0.0529	$52.89
196	Body Towels Standard Size No Bid			No Bid	
197	Hand Towels Standard Size No Bid			No Bid	
198	Trash Liners -45 Gal X-Large 40x48 16 Mic High Density Can Liner 5871736 250/40-45 G	Sys Cls	1	$0.1386	$34.66
199	Trash Liners — Pitt Plastics 23x33 12-16 gal Black 1000cs (32 BL) or equal 5765896 1000/12-16 G	Sys Cls	1	$0.0306	$30.59
200	Trash Liners — Large Trash Can 13 MIC 30 x 37 High Density Can Liners 4046843 200/20-30 G	Sys Cls	1	$0.1144	$22.88
201	Trash Liners —Large Trash Can 16 MIC 33 Gal 33x40 High Density Can Liners 4047031 150/33 Gal	Sys Cls	1	$0.1360	$20.41
202	Trash Liners — Tall Trash Can 8 MIC 24 x 33 High Density Can Liners 5765896 1000/12-16G	Sys Cls	1	$0.0306	$30.59

BID PAGE
RFB NO. 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS SUPPLIES"

JANITORIAL & INDUSTRIAL SUPPLIES						
	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
203	Toilet Brushes (Standard Size) Plastic No Bid			No Bid	
204	Toilet Brushes — Hard Bristle Bowl Brush (0310) (Rubbermaid) or equal 4907390 1/18 in	Rubbermaid	1	$3.3800	$3.38
205	Weed Killer (Round Up) or equal No Bid			No Bid	
206	Weed Killer 55 Gallon concentrated — Specify Dilution No Bid			No Bid	
207	Spartan Sanitize Quart Food Service 12/32 oz (SRTU) or equal 7808482 6/32 oz	Keystone	1	$2.2000	$13.20
208	Sprayer (Trigger/Nozzles Only) red & white 5220045 1/9 3/4"	Con Mfg	1	$0.6800	$0.68
209	Bleach — Disinfectant Cleaner Dry Air — Hospital 8549935 6/14 oz	Keystone	1	$4.8083	$28.85
210	Bleach — Pure Bright Disinfection 6/cs (6BLCH) or equal 8729061 6/96 oz	Sys Rel	1	$1.8950	$11.37
211	Bio-Hazard Bag Red 40 X 48 3 mil No Bid			No Bid	
212	Disinfectant Wipes (Lysol) or equal No Bid			No Bid	

ACKNOWLEDGMENT FORM/BIDDER INFORMATION

I/We the undersigned hereby certify that I/We am/are a duly authorized official of the company and have the authority to sign on behalf of the company and assure that all statements made in the bid are true. I/We agree to furnish and deliver the specified items/services at the prices stated herein, and have read, understand, and agree to the terms and conditions contained herein and on all of the attachments.

BIDDER/COMPANY NAME: **Sysco Central Texas, Inc.**

ADDRESS: 12610 Schwab Rd.

CITY/STATE/ZIP CODE: New Braunfels, Tx 78132

TELEPHONE NUMBER 830-730-1209

E-MAIL ADDRESS: dresch.rebecca@ctx.sysco.com

CELLULAR NUMBERS: 210-601-5304

FAX NUMBER: 855/656-4432

AUTHORIZED SIGNATURE:

PRINTED NAME: Mike Fuller

TITLE: SVP Sales

DATE: 10/8/13

EXHIBIT "C"
CERTIFICATE OF INSURANCE

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 06/18/2013

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Marsh USA Inc.
1000 Main Street, Suite 3000
Houston, TX 77002
Attn: Ayesha.Lopez@Marsh.com

RECEIVED
JUN 24 2013
BY

CONTACT NAME:
PHONE (A/C, No, Ext):
FAX (A/C, No):
E-MAIL ADDRESS:

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Zurich American Insurance Company	40142
INSURER B : American Zurich Insurance Company	16535
INSURER C : Steadfast Insurance Company	26387
INSURER D :	
INSURER E :	
INSURER F :	

INSURED
Sysco Central Texas, Inc.
1260 Schwab Road
New Braunfels, TX 78132

COVERAGES **CERTIFICATE NUMBER:** HOU-001947949-14 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS		
A	**GENERAL LIABILITY** X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO-JECT LOC			GLO2347203 04	06/30/2013	06/30/2014	EACH OCCURRENCE	$	2,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	$	2,000,000
							MED EXP (Any one person)	$	5,000
							PERSONAL & ADV INJURY	$	2,000,000
							GENERAL AGGREGATE	$	4,000,000
							PRODUCTS - COMP/OP AGG	$	4,000,000
								$	
A	**AUTOMOBILE LIABILITY** X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS			BAP2347204 04	06/30/2013	06/30/2014	COMBINED SINGLE LIMIT (Ea accident)	$	5,000,000
							BODILY INJURY (Per person)	$	
							BODILY INJURY (Per accident)	$	
							PROPERTY DAMAGE (Per accident)	$	
								$	
	UMBRELLA LIAB OCCUR **EXCESS LIAB** CLAIMS-MADE DED RETENTION $						EACH OCCURRENCE	$	
							AGGREGATE	$	
								$	
B	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY**			WC2347199 04 (AOS)	06/30/2013	06/30/2014	X WC STATU-TORY LIMITS OTH-ER		
A	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N: N	N/A		WC2347201 04 (WI)	06/30/2013	06/30/2014	E.L. EACH ACCIDENT	$	1,000,000
A	**(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below			EWS2347202 04 (OH & WA)	06/30/2013	06/30/2014	E.L. DISEASE - EA EMPLOYEE	$	1,000,000
							E.L. DISEASE - POLICY LIMIT	$	1,000,000
C	Texas Employers Indemnity SIR $2,000,000			EWT2347222 03	06/30/2013	06/30/2014	General Aggregate		10,000,000
							Combined Single Limit Per Occ		5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Certificate Holder is included as Additional Insured (except as respects all coverage afforded by the Worker's Compensation policy) where required by written contract, but only for liability arising out of the operations of the Named Insured.

CERTIFICATE HOLDER

Hidalgo County
2812 S U.S. Highway 281
Edinburg, TX 78539

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
of Marsh USA Inc.
Ryan W. Medlin — Ryan W Medlin

© 1988-2010 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

REQUIREMENTS AGREEMENT
C-13-147C-11-19

THIS AGREEMENT (the "Agreement") is entered into effective as of the 19th day of November, **2013** by and between **CC Distributors, Inc.,** ("Seller") and **Hidalgo County, Texas** ("Buyer").

WHEREAS, Buyer has solicited sealed bids for the supply of its requirements of **Hidalgo County** for the **"Janitorial Supplies, Industrial Chemicals & Supplies"** (the "Product") as further described in Exhibit "A", Request for Bids (RFB) Procurement Packet as attached hereto and incorporated herein by reference for all purposes (the "RFB") for a period of **one (1) year** and;

WHEREAS, Seller has submitted a proposal to supply Buyer's requirements; and

WHEREAS, Buyer has determine that Seller has submitted the lowest and best bid to meet Buyer's requirements for certain of the Products, as herein after described.

NOW THEREFORE, for and in consideration of the mutual covenants and conditions hereinafter set forth, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

1. Buyer agrees to purchase from Seller, and Seller agrees to sell and deliver to Buyer, all of the Products listed on Exhibit "B", which is attached hereto and incorporated herein by references, that Buyer may require for use by Buyer in Hidalgo County projects for a period of one (1) year, with the County's sole option to extend/renew for an additional two (2)-one (1) year terms based upon prior year's performance evaluation and contingent upon cost, terms and conditions remaining unchanged. Hidalgo County reserves the right to continue this bid for an additional sixty (60) day grace period, under the same rates, terms and conditions at the end of the contract term for unforeseen delays in award of new bid for the next contract term. This Contract shall commence on **January 01, 2014** and expire on **December 31, 2014** and it is agreed that the Products will meet the Specifications in the Request for Bids (RFB) Procurement Packet set forth in Exhibit "A" hereto.

2. When Buyer determines that it needs a quantity of the Products to be delivered, it will, according to its Purchasing Policies, complete and submit to Seller a Purchase Order describing the type and quantity of the Products required.

The Products are to be delivered by Buyer to the location in Hidalgo County specified by Buyer in its Purchase Order.

3. Buyer agrees to pay Seller for each Purchase Order based on the prices set out in Exhibit "B". Seller shall render invoices for each Purchase Order, and the invoices shall be paid by Buyer on or before the 30th day following receipt of the invoice.

4. General Provisions.

a. **Conflict with Applicable Law.** Nothing in this Agreement shall be construed so as to require the commission of any act contrary to law, and whenever there is any conflict between any provision of this Agreement and any present or future law, ordinance or administrative, executive or judicial regulation, order or decree, or amendment thereof, contrary to which the parties have no legal right to contract, the latter shall prevail, but in such event the affected provision or provisions of this Agreement shall be modified only to the extent necessary to bring them within the legal requirements and only during the time such conflict exists.

b. **No Waiver.** No waiver by Buyer of any breach of any provision of this Agreement shall be deemed to be a waiver of any preceding or succeeding breach of the same or any other provision hereof.

c. **Entire Agreement.** This Agreement contains the entire contract between the parties hereto, and each party acknowledges that neither has made (either directly or through any agent or representative) any representations or agreements in connection with this Agreement not specifically set forth herein. This Agreement may be modified or amended only by agreement in writing executed by Buyer and Seller, and not otherwise.

d. **Texas Law to Apply.** This Agreement shall be construed under and in accordance with the laws of the State of Texas, and all obligations of the parties created hereunder are performable in Hidalgo County, Texas. The parties hereby consent to personal jurisdiction in Hidalgo County, Texas.

e. **Notice.** Except as may be otherwise specifically provided in this Agreement, all notices, demands, requests or communications required or permitted hereunder shall be in writing and shall either be (i) personally delivered against a written receipt, or (ii) sent by registered or certified mail, return receipt requested, postage prepaid and addressed to the parties at

the addresses set forth below, or at such other addresses as may have been theretofore specified by written notice delivered in accordance herewith:

If to Buyer: Hidalgo County
Attention: County Judge
302 West University Drive
Edinburg, Texas 78539

If to Seller: CC Distributors, INC.
Attn. John Grey
210 McBride Lane
Corpus Christi, Texas 78408

Each notice, demand, request or communication which shall be delivered or mailed in the manner described above shall be deemed sufficiently given for all purposes at such time as it is personally delivered to the addressee or, if mailed, at such time as it is deposited in the Unites States mail.

f. **Termination.** County may terminate this Agreement at any time for any reason or no reason at all upon giving thirty (30) days written notice.

g. **Additional Documents.** The parties hereto covenant and agree that they will execute such other and further instruments and documents as are or may become necessary or convenient to effectuate and carry out the terms of this Agreement.

h. **Successors.** This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, executors, administrators, legal representatives, successors, and assigns where permitted by this Agreement.

i. **Assignment.** This Agreement shall not be assignable.

j. **Headings.** The headings and captions contained in this Agreement are solely for convenient reference and shall not be deemed to affect the meaning or interpretation of any provision or paragraph hereof.

k. **Gender and Number.** All pronouns used in this Agreement shall include the other gender, whether used in the masculine, feminine or neuter gender, and the singular shall include the plural whenever and as often as may be appropriate

l. **Authority to Execute.** The execution and performance of this Agreement by Buyer and Seller have been duly authorized by all necessary laws, resolutions or corporate action, and this Agreement constitutes the valid and enforceable obligations of Buyer and Seller in accordance with its terms.

m. **Insurance.** Company shall provide insurance in force on all persons and vehicles connected with providing products and or services under this Contract naming County as an additional insured, and shall furnish to County certificates of such insurance coverage Exhibit "C", which is attached hereto.

n. **Commitment of Current Revenues Only**. In the event that, during any term hereof, the Commissioners Court does not appropriate sufficient funds to meet the obligations of Buyer under this Agreement, Buyer may terminate this Agreement upon ninety (90) days written notice to Seller. Buyer agrees, however, to use reasonable efforts to secure funds necessary for the continued performance of this Agreement. The parties intend this provision to be a continuing right to terminate this Agreement at the expiration of each budget period of Buyer pursuant to the provisions of Tex. Loc. Govt. Code Ann. ' 271.903 (Vernon Supp. 1996).

o. **Purchasing Ethics**. Seller represents and warrants it has not, during the process of being awarded this contract violated the following ethical standards of Buyer and, upon and after the execution of this Agreement, agrees to abide by the following ethical standards of Buyer:

(1) It shall be a breach of ethics to offer, give or agree to give any elected official, department head or employee, or former elected official, department head or employee, of Hidalgo County, or for any elected official, department head or employee or former elected official, department head or employee of Hidalgo County, to solicit, demand, accept or agree to accept from another person, entity or organization, a gratuity or an officer of employment in connection with any decision, approval, disapproval, recommendation, preparation or any part of a program requirement or purchase request, influencing the content of any specification or procurement standard, rendering of advise, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter pertaining to any program requirement or a

contract or subcontract, or to any solicitation or proposal therefore pending before any department or agency of Hidalgo County.

(2) It shall be a breach of ethics for any payment, gratuity or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor for any contract for Hidalgo County, or any person associated therewith, as an inducement for the award of a subcontract or order.

EXECUTED effective as of the day and year first above written.

Approved By Commissioners Court:_____

COUNTY OF HIDALGO

ATTEST:

By:_____
Ramon Garcia, County Judge

_____
Arturo Guajardo Jr., County Clerk

COMPANY:

By:_____

Printed Name:_____

Title:_____

APPROVED AS TO FORM:
Atlas & Hall, L.L.P.

_____
Stephen L. Crain, Attorney

EXHIBIT "A"

REQUEST FOR BIDS (RFB) PROCUREMENT PACKET

EXHIBIT "B"
BID PAGE

JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES
CC DISTRIBUTORS

Janitorial & Industrial Supplies

	DESCRIPTION OF ITEM(S)	BRAND	QTY	NIGP CODE INTERNAL USE ONLY	TOTAL PRICE
9	Bowls Mops (Rayon) or equal	Wilen	3a	48509	.61
12	Brooms Maids Straw (Waco) or equal	Continental	#17	48510	4.90
13	Carpet Shampoo Liquid Ammonia Free	Betco	4/1gal	48578	44.55
14	Carpet Powder &Deodorizer	Purex	12/15oz	48578	31.71
19	Cleaner Oven 24 oz. Foam Cleaner	Betco	12/18oz	48518	40.00
30	Disinfectant Cleaner Carrol Clear Pine Mop 4/1 gal (Pine1) or equal	Montgomery	4/1gal	48542	16.00
31	Disinfectant Cleaner Carrol Clear Lemon Mop 4/1 gallon (Lemon1) or equal	Montgomery	4/1gal	48537	16.68
66	Hand Cleaner – Waterless	Betco	6/4.5	48513	57.41
70	Mop Bucket Combo Std Size (Rubbermaid 7580O or equal	Continental	Ea	48568	41.14
71	Mop Hanldes Fiber Glass 54" Jr. Etc. or equal	Wilen-A70612	Ea	48572	8.12
82	Premium Foam Antibacterial Soap Refill (GOJ536202) or equal	Betco	4/1gal	48514	40.09
92	Spartan 15% Orange Tough Cleaner/degreaser 12/32 oz (OT15QT) or equal	Betco	12 gls	48518	32.25
95	Sparan Foamy Q&A phosphoric acid shower cleaner 12/32 oz	Betco	12qts	48525	28.29
97	Spray Bottles -24 oz empty bottles or equal	Continental	Ea	48508	.37
98	Spay Bottles-32 oz empty bottles or equal	Continental	Ea	48508	.37
102	Trash Cans & Lids 16 gal	Continental	Ea	48594	30.55 Can
					24.40 Lid
104	Trash Cans-10 gal	Continental	Ea	48594	8.40
108	Wasp/Hornet Spray	Enforcer	12/16oz	48560	35.26
109	Wasp/Hornet Spray – 20ft Stream	Enforcer	12/16oz	48560	37.61
134	Paper Roll Towels Kitchen (Scott 11s9) or equal	Baywest 41000	30/90	64075	20.65
163	Wipers Workhorse Rags (Kim Clark) or equal	Kimberly Clark	Cs	64085	20.63
166	Deodorant – Hygiene	Dial	24/4oz	65237	53.64
167	Lice Killer – Aerosol	Misty Dualcide	12/20oz	65242	83.80
204	Toilet Brushes-Hard Bristle Bowl Brush (0310) Rubbermaid or equal	Wilen J501001	Ea	67002	1.25
208	Sprayer (Trigger/Nozzles Only) Red & White	Continental	Ea	81095	.34

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

Janitorial & Industrial Supplies

	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
1	3M Green 6x9 Scouring Pads 20/Box (96HP) or equal 96A	Norton 59395	60/cs	.31	18.77 cs
2	3M Griddle Screens 10 per pack (200) or equal				No Bid
3	Air Freshener – Aerosol Asst Scents				No Bid
4	Air Freshener – Time Mist Asst Scents 6.6 oz	Time Mist	12	3.97	47.69 cs
5	Ant & Roach Spray odorless				No Bid
6	Ant & Roach Spray odorless to contain deltametrin				No Bid
7	Bowl Cleaner – Liquid (Non Acid) EPA Registered Rest Stop	Betco 07012	12qts	1.56	18.72 cs
8	Bowl Cleaner Liquid 23% - 26% HIC EPA Registered Pull	Betco 07112	12qts	1.666	19.87 cs
9	Bowl Mops (Rayon) or equal WJ510000	Wilen			.61 ea
10	Brooms (Plastic Angle) or equal E507012	Wilen			5.82 ea
11	Brooms – Janitorial Straw E5014028 #28	Continental			5.30 ea
12	Brooms Maids Straw (Waco) or equal E503017 #17	Continental			4.90 ea
13	Carpet Shampoo – Liquid Ammonia Free Fiberpro	Betco 40104	4-1gal	11.14	44.55 cs
14	Carpet Powder & Deodorizer	Purex K1600493	12-15oz	2.64	31.71 cs
15	Carpet Shampoo Liquid				No Bid
16	Carpet Spot Remover 32 oz Fiberpro Spot Bet	Betco 42512	12qts	2.71	32.49cs
17	Carroll Heavy Duty Chemical Deodorant 4/1 Gallons or equal OceanBreeze	Betco 23104	4-1gal	15.30	61.21 cs
18	Cleaner-Diversey General Purpose 4/1 Gallons or equal Greenearth	Betco 19804	4-1gal	12.76	51.05 cs
19	Cleaner Oven 24 oz. Foam Cleaner Oven & Grill clnr	Betco 05523	12-18oz	3.33	40.00 cs
20	Cleaner Stainless Steel waterless based				No Bid
21	Continental 18" rubber floor squeegees (1800) or equal	Unger FE45			16.16 ea
22	Continental 24: rubber floor squeegee (2400) or equal				No Bid
23	Degreaser – 55 gallon	Betco Degreaser			321.50 ea
24	Detergent – Colgate Palmolive Dishwashing – 12/32 or equal				No Bid
25	Detergent- Power Dishwashing(Cream Suds) or equivalent -50 lb box				No Bid
26	Dishwashing Capsules – US Chemicals 6/8 lb. (failsafe) or equal				No Bid
27	Dishwashing Liquid 32 oz. (Dawn) or equal				No Bid
28	Dishwashing Liquid 42 oz. (Dawn) or equal				No Bid
29	Disinfectant & Deodorizer Cleaner Aerosol Glybet	Betco 08923	12-14oz	3.45	41.45 cs
30	Disinfectant Cleaner Carroll clear pine mop 4/1 gallon (Pine1) or equal...	Montgomery	4-1gal	4.00	16.00 cs

OPENED 12/9/13 10:25am Witnessed

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

Janitorial & Industrial Supplies

	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
119	Film Wrap 18"x3000 – Heavy Duty (Reynolds) or equal	Boardwalk 7230			42.86 rl
120	Foam – Bows 6 oz. w/lids	Dart 6J16	1000/cs		16.15 cs
121	Foil Wrap 18" Heavy Duty 500 ft. (Reynolds) or equal	Reynolds 18x500			32.41 rl
122	Foil Wrap Potato (Reynolds) or equal	Boardwalk 71616	16-500/cs		137.15 cs
123	Laced Dollies (different sizes and types)				No Bid
124	Menu Tissue 12.x 12				No Bid
125	Napkins 2 Ply Quarter Fold (Georgia Pacific) or equal 2 ply	Boardwalk BWK8308	3000/cs		56.77 cs
126	Pactiv –or equal – 9x6 5.2.75 foam hinged Tray	Pactiv TKI-0089	200/cs		26.49 cs
127	Pan Liners – (Dispozo) 1,000 cs				No Bid
128	Paper Bags #10 Brown (Duro) or equal	Kraft #10	4-500/BL		25.45 bl
129	Paper Bags #4 Brown (Duro) or equal	Kraft #4	8-500/BL		23.48 bl
130	Paper Bags #8 Brown (Duro) or equal	Kraft #8	2000/BL		24.60 bl
131	Paper Bags 1/6 BBL Brown 1657 (Duro) or equal	Kraft #57	500/BL		61.18 bl
132	Paper Bags 6lb. Brown 6BG (Duro) or equal	Kraft #6	1000/BL		27.91 bl
133	Paper Cups Portion 10 oz (Solo) equal or better				No Bid
134	Paper Roll Towels Kitchen (Scott 11s9) or equal	Baywest 41000	30-90/cs		20.65 cs
135	Paper Towels Brown Rolls Standard Size(Georgia Pacific) or equal	Baywest 46200	12-350/cs		16.52 cs
136	Paper Towels Multi Fold	Baywest 48000	20-200/cs		16.99 cs
137	Paper Towels Multi Folds White Bleached 9.25X9.5	Baywest 48500	20-200/cs		20.01 cs
138	Paper Towels (GEP89460) En-motion high capacity –white 10X800 or equal				No Bid
139	Styrofoam Bowl -6 oz 1,00 case				No Bid
140	Styrofoam Bowls 12 oz. (Pacific 1-0012) equal or better TKI-0012	Pactiv ~~Primesource~~	8-125/cs		30.21 cs
141	Styrofoam Cup 8 oz. (8J8) or equal	Dart 8J8	1000/cs		19.40 cs
142	Styrofoam Cups oz. (UJ4) or equal				No Bid
143	Styrofoam Plates 6" Laminated				No Bid
144	Styrofoam Plates 6" Un-laminated THI-0006	Pactiv ~~Primesource~~	~~4-125~~/cs		31.82 cs
145	Styrofoam Plates 9" Divided (Mobil TJ 1-0011) or equal THI-0011	Pactiv ~~Primesource~~	4-125/cs		28.93 cs
146	Styrofoam Plates 9" Laminated				No Bid
147	Styrofoam Plates 9" Un-laminated THI-0009	Pactiv ~~Primesource~~	4-125/cs		28.93 cs

OPENED 10/4/13 10:25am Witnessed

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

JANITORIAL & INDUSTRIAL SUPPLIES

	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
148	Styrofoam Tray Hinges 9x9x3 Three Compartment w/Lid (Pactiv YTD 19903) 150 cs or equal	Pactiv	150/cs		25.70cs
149	Toilet Tissue (12/1000 Jr Jumbo) (Georgia Pacific) or equal	Baywest 10020	12-1000'/cs		23.40cs
150	Toilet Tissue 2 Ply Small Short Sheet (Georgia Pacific) or equal	Baywest 54000	96-500/cs		34.81 cs
151	Toilet Tissue (6/Jumbo 2000 ft) (Georgia Pacific) or equal	Baywest 20020	6-2000/cs		23.49cs
152	Utensils Forks – Plastic 2,000 ct (James River Wn F2P) or equal				No Bid
153	Utensils Forks – Plastic Dispozo – medium 1,000 cs (WMF) or equal				No Bid
154	Utensils Forks –Plastic medium Weight White 1,000 ct (Solo or Equal)	Primesource	1000/cs		10.37cs
155	Utensils Forks Clear (1,000 ct)				No Bid
156	Utensils Spoons Plastic (Solo) or equal				No Bid
157	Utensils Spoons Plastic 1,000 ct (Solo) or equal				No Bid
158	Utensils Spoons Plastic Dispozo medium WMS 1,000 ct or equal				No Bid
159	Utensils Spoons Plastic medium Weight White (1,000 ct)	Primesource 694	1000/cs		10.37 cs
160	Utensils Party Packs (Spoons, Forks, Knife, Napkin, Salt & Pepper)	Primesource	250/cs		18.46 cs
161	Vented Lid-Dart (12J12) or equal				No Bid
162	Vented Lid – Dart (8J8) or equal				No Bid
163	Wipers Workhorse Rags (Kimberly Clark) or equal	Kimberly Clark			20.63cs
164	Wipers – (Kimberly Clark) 15x16.5 white (300cs) (K41100) or equal				No Bid
165	Body Shampoo – Per Gallon	Betco 77304	4-1gal	13.41	53.64
166	Deodorant –Hygiene	~~Dial~~ Dial	24-4oz / 12-6oz	/	77.85 / 55.65
167	Lice Killer – Aerosol	Misty Dualcide.	12-20oz		83.80
168	Razors – Double Edged				No Bid
169	Sanitary Napkins Maxi No 4 Folded (Stayfree, Rochester, etc. or equal)	Hospeco	25/cs		51.03 cs
170	Sanitary Napkins Panty Liners				No Bid
171	Sanitary Napkins Super No 4 Folded (Stayfree, Rochester, etc. or equal)				No Bid
172	Sanitary Napkins Thin No 4 Folded (Stayfree, Rochester, etc or equal	Hospeco MT4	250/cs		56.02 cs
173	Shaving Cream				No Bid
174	Toothbrush Firm – Specify Size				No Bid

OPENED 10/9/13 10:25am Witnessed

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

Janitorial & Industrial Supplies

	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
175	Toothbrush Medium Specify Size				No Bid
176	Toothbrush Soft Specify Size				No Bid
177	Toothpaste Std Size, Specify Size				No Bid
178	Toothpaste Travel Size, Specify Size				No Bid
179	Americo 20" Beige Ultra High Speed Burnishing Pads 5/bx-(20MUHSTBP) or equal	Norton	5/bx		15.46cs
180	Buffing Pads 17" White	Norton	5/bx		11.74 cs
181	Buffing Pads 20" White	Norton	5/bx		15.46cs
182	Filters Windsor Exhaust for Sensor Xp12 Vacuum Cleaner (5143EF) or equal				No Bid
183	Filters Windsor Micro Hygiene for Sensor XP12 Vacuum Cleaner (5301ER) or equal				No Bid
184	Stripping Pads 17" Black	Norton			11.74 cs
185	Stripping Pads 20" Black	Norton			15.98cs
186	Vacuum Bags Windsor for Sensor XP12 Vacuum Cleaner 10 pk (Johnson & Johnson) or equal				No Bid
187	Gloves - Food Service Large Clear (Brand Name)				
188	Gloves – Food Service – Medium clear (Brand Name)				No Bid
189	Gloves Latex Small Disposable (Ansell)Yw or equal	Memphis 5054S	10bx/cs	5.88	58.80cs
190	Gloves Latex Large Disposable	Memphis 5054L	10bx/cs	5.88	58.80cs
191	Gloves Latex Large Non-Disposable Yw (Ansell) or equal	Ansell 69318L	10bx/cs	7.91	79.10cs
192	Gloves Latex Medium Non Disposable Yw (Ansell) or equal	Ansell 69318M	10bx/cs	7.91	79.10cs
193	Gloves Latex Medium Disposable (Ansell) or equal	Memphis 5054M	10bx/cs	5.88	58.80cs
194	Gloves Latex Small Non Disposable Yellow (Ansell) or equal	Ansell 69318S	10bx/cs	7.91	79.10cs
195	Gloves Safety (Nitrile) SFZGNPRXL1M or equal				No Bid
196	Body Towels Standard Size				No Bid
197	Hand Towels Standard Size				No Bid
198	Trash Liners -45 Gal X-Large 40x48 16 Mic High Density Can Liner	Houston Poly CCB4048-16			31.25cs
199	Trash Liners – Pitt Plastics 23x33 12-16 gal Black 1000cs (32 BL) or equal	Spectrum CCD2432			15.11 cs
200	Trash Liners – Large Trash Can 13 MIC 30 x 37 High Density Can Liners	Houston Poly CCD3037-13			27.32cs
201	Trash Liners –Large Trash Can 16 MIC 33 Gal 33x40 High Density Can Liners	Spectrum 3340-16			18.82cs
202	Trash Liners – Tall Trash Can 8 MIC 24 x 33 High Density Can Liners	Houston Poly 2433-8			25.19cs

OPENED
10/9/13
10:25am
Witnessed

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

JANITORIAL & INDUSTRIAL SUPPLIES					
	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
203	Toilet Brushes (Standard Size) Plastic				No Bid
204	Toilet Brushes – Hard Bristle Bowl Brush (0310) (Rubbermaid) or equal	Wilen J501001			1.25 ea
205	Weed Killer (Round Up) or equal				No Bid
206	Weed Killer 55 Gallon concentrated – Specify Dilution				No Bid
207	Spartan Sanitize Quart Food Service 12/32 oz (SRTU) or equal	Betco 34212	12-32oz	1.74	20.92 cs
208	Sprayer (Trigger/Nozzles Only) red & white 902.RW9	Continental			.34 ea
209	Bleach – Disinfectant Cleaner Dry Air – Hospital				No Bid
210	Bleach – Pure Bright Disinfection 6/cs (6BLCH) or equal	PureBright	6-96 oz	1.96	11.76 cs
211	Bio-Hazard Bag Red 40 X 48 3 mil				No Bid
212	Disinfectant Wipes (Lysol) or equal	Clorox 15948	6/cs	4.68	28.05 cs

ACKNOWLEDGMENT FORM/BIDDER INFORMATION

I/We the undersigned hereby certify that I/We am/are a duly authorized official of the company and have the authority to sign on behalf of the company and assure that all statements made in the bid are true. I/We agree to furnish and deliver the specified items/services at the prices stated herein, and have read, understand, and agree to the terms and conditions contained herein and on all of the attachments.

BIDDER/COMPANY NAME:	CC Distributors, Inc.
ADDRESS:	210 McBride Lane
CITY/STATE/ZIP CODE:	Corpus Christi, Texas 78408
TELEPHONE NUMBER	361-289-0200
E-MAIL ADDRESS:	jgrey@ccdistributors.com
CELLULAR NUMBERS:	361-443-6589
FAX NUMBER:	361-289-6290
AUTHORIZED SIGNATURE:	
PRINTED NAME:	John Grey
TITLE:	VP Ops
DATE:	8-Oct-2013

OPENED 10/9/13 10:25am Witnessed

EXHIBIT "C"
CERTIFICATE OF INSURANCE

JAN 11 2013

CCDIS-1 OP ID: CS

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 01/05/13

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Borden Insurance
P. O. Box 1066
Corpus Christi, TX 78403-1066
Allen Borden
361-882-6543
361-654-2008

CONTACT NAME:
PHONE (A/C, No, Ext):
FAX (A/C, No):
E-MAIL ADDRESS:

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Wausau Insurance Companies	
INSURER B : Liberty County Mutual Ins Co	
INSURER C : Employers Insurance of Wausau	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED
CC Distributors, Inc; Fin, Inc
P.O. Box 9153
Corpus Christi, TX 78401

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY PRO-JECT LOC			YYCZ91532489183	01/01/13	01/01/14	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 300,000 $ 5,000 $ 1,000,000 $ 2,000,000 $ 2,000,000
B	AUTOMOBILE LIABILITY X ANY AUTO ALL OWNED AUTOS HIRED AUTOS SCHEDULED AUTOS NON-OWNED AUTOS			AS2Z91532489133	01/01/13	01/01/14	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
A	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED X RETENTION $ 10000			THCZ91532489202	01/01/13	01/01/14	EACH OCCURRENCE AGGREGATE	$ 2,000,000 $ 2,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N N If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		WC2Z91532489173	01/01/13	01/01/14	X WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ $ 1,000,000 $ 1,000,000 $ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER

HICO-ED

Hidalgo County
100 East Cano 4th Floor
Edinburg, TX 78539

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Allen D Borden

© 1988-2010 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

REQUIREMENTS AGREEMENT
C-13-147D-11-19

THIS AGREEMENT (the "Agreement") is entered into effective as of the 19th day of November, **2013** by and between **Performance Food Group, Inc**("Seller") and **Hidalgo County, Texas** ("Buyer").

WHEREAS, Buyer has solicited sealed bids for the supply of its requirements of **Hidalgo County** for the **"Janitorial Supplies, Industrial Chemicals & Supplies"** (the "Product") as further described in Exhibit "A", Request for Bids (RFB) Procurement Packet as attached hereto and incorporated herein by reference for all purposes (the "RFB") for a period of **one (1) year** and;

WHEREAS, Seller has submitted a proposal to supply Buyer's requirements; and

WHEREAS, Buyer has determine that Seller has submitted the lowest and best bid to meet Buyer's requirements for certain of the Products, as herein after described.

NOW THEREFORE, for and in consideration of the mutual covenants and conditions hereinafter set forth, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

1. Buyer agrees to purchase from Seller, and Seller agrees to sell and deliver to Buyer, all of the Products listed on Exhibit "B", which is attached hereto and incorporated herein by references, that Buyer may require for use by Buyer in Hidalgo County projects for a period of one (1) year, with the County's sole option to extend/renew for an additional two (2)-one (1) year terms based upon prior year's performance evaluation and contingent upon cost, terms and conditions remaining unchanged. Hidalgo County reserves the right to continue this bid for an additional sixty (60) day grace period, under the same rates, terms and conditions at the end of the contract term for unforeseen delays in award of new bid for the next contract term. This Contract shall commence on **January 01, 2014** and expire on **December 31, 2014** and it is agreed that the Products will meet the Specifications in the Request for Bids (RFB) Procurement Packet set forth in Exhibit "A" hereto.

2. When Buyer determines that it needs a quantity of the Products to be delivered, it will, according to its Purchasing Policies, complete and submit to Seller a Purchase Order describing the type and quantity of the Products required.

The Products are to be delivered by Buyer to the location in Hidalgo County specified by Buyer in its Purchase Order.

3. Buyer agrees to pay Seller for each Purchase Order based on the prices set out in Exhibit "B". Seller shall render invoices for each Purchase Order, and the invoices shall be paid by Buyer on or before the 30th day following receipt of the invoice.

4. General Provisions.

a. **Conflict with Applicable Law.** Nothing in this Agreement shall be construed so as to require the commission of any act contrary to law, and whenever there is any conflict between any provision of this Agreement and any present or future law, ordinance or administrative, executive or judicial regulation, order or decree, or amendment thereof, contrary to which the parties have no legal right to contract, the latter shall prevail, but in such event the affected provision or provisions of this Agreement shall be modified only to the extent necessary to bring them within the legal requirements and only during the time such conflict exists.

b. **No Waiver.** No waiver by Buyer of any breach of any provision of this Agreement shall be deemed to be a waiver of any preceding or succeeding breach of the same or any other provision hereof.

c. **Entire Agreement.** This Agreement contains the entire contract between the parties hereto, and each party acknowledges that neither has made (either directly or through any agent or representative) any representations or agreements in connection with this Agreement not specifically set forth herein. This Agreement may be modified or amended only by agreement in writing executed by Buyer and Seller, and not otherwise.

d. **Texas Law to Apply.** This Agreement shall be construed under and in accordance with the laws of the State of Texas, and all obligations of the parties created hereunder are performable in Hidalgo County, Texas. The parties hereby consent to personal jurisdiction in Hidalgo County, Texas.

e. **Notice.** Except as may be otherwise specifically provided in this Agreement, all notices, demands, requests or communications required or permitted hereunder shall be in writing and shall either be (i) personally delivered against a written receipt, or (ii) sent by registered or certified mail, return receipt requested, postage prepaid and addressed to the parties at

the addresses set forth below, or at such other addresses as may have been theretofore specified by written notice delivered in accordance herewith:

If to Buyer: Hidalgo County
Attention: County Judge
302 West University Drive
Edinburg, Texas 78539

If to Seller: Performance Food Group, Inc.
Attn. Gloria Medina
204 N Bronson
Victoria, Texas 77901

Each notice, demand, request or communication which shall be delivered or mailed in the manner described above shall be deemed sufficiently given for all purposes at such time as it is personally delivered to the addressee or, if mailed, at such time as it is deposited in the Unites States mail.

f. **Termination.** County may terminate this Agreement at any time for any reason or no reason at all upon giving thirty (30) days written notice.

g. **Additional Documents.** The parties hereto covenant and agree that they will execute such other and further instruments and documents as are or may become necessary or convenient to effectuate and carry out the terms of this Agreement.

h. **Successors.** This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, executors, administrators, legal representatives, successors, and assigns where permitted by this Agreement.

i. **Assignment.** This Agreement shall not be assignable.

j. **Headings.** The headings and captions contained in this Agreement are solely for convenient reference and shall not be deemed to affect the meaning or interpretation of any provision or paragraph hereof.

k. **Gender and Number.** All pronouns used in this Agreement shall include the other gender, whether used in the masculine, feminine or neuter gender, and the singular shall include the plural whenever and as often as may be appropriate

l. **Authority to Execute.** The execution and performance of this Agreement by Buyer and Seller have been duly authorized by all necessary laws, resolutions or corporate action, and this Agreement constitutes the valid and enforceable obligations of Buyer and Seller in accordance with its terms.

m. **Insurance.** Company shall provide insurance in force on all persons and vehicles connected with providing products and or services under this Contract naming County as an additional insured, and shall furnish to County certificates of such insurance coverage Exhibit "C", which is attached hereto.

n. **Commitment of Current Revenues Only**. In the event that, during any term hereof, the Commissioners Court does not appropriate sufficient funds to meet the obligations of Buyer under this Agreement, Buyer may terminate this Agreement upon ninety (90) days written notice to Seller. Buyer agrees, however, to use reasonable efforts to secure funds necessary for the continued performance of this Agreement. The parties intend this provision to be a continuing right to terminate this Agreement at the expiration of each budget period of Buyer pursuant to the provisions of Tex. Loc. Govt. Code Ann. ' 271.903 (Vernon Supp. 1996).

o. **Purchasing Ethics**. Seller represents and warrants it has not, during the process of being awarded this contract violated the following ethical standards of Buyer and, upon and after the execution of this Agreement, agrees to abide by the following ethical standards of Buyer:

(1) It shall be a breach of ethics to offer, give or agree to give any elected official, department head or employee, or former elected official, department head or employee, of Hidalgo County, or for any elected official, department head or employee or former elected official, department head or employee of Hidalgo County, to solicit, demand, accept or agree to accept from another person, entity or organization, a gratuity or an officer of employment in connection with any decision, approval, disapproval, recommendation, preparation or any part of a program requirement or purchase request, influencing the content of any specification or procurement standard, rendering of advise, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter pertaining to any program requirement or a

contract or subcontract, or to any solicitation or proposal therefore pending before any department or agency of Hidalgo County.

(2) It shall be a breach of ethics for any payment, gratuity or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor for any contract for Hidalgo County, or any person associated therewith, as an inducement for the award of a subcontract or order.

EXECUTED effective as of the day and year first above written.

Approved By Commissioners Court:_____

COUNTY OF HIDALGO

ATTEST:

By:_____
Ramon Garcia, County Judge

_____
Arturo Guajardo Jr., County Clerk

COMPANY:

By:_____

Printed Name:_____

Title:_____

APPROVED AS TO FORM:
Atlas & Hall, L.L.P.

_____
Stephen L. Crain, Attorney

EXHIBIT "A"

REQUEST FOR BIDS (RFB) PROCUREMENT PACKET

EXHIBIT "B"
BID PAGE

JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES
VISTAR MANAGEMENT – PFG GROUP

Janitorial & Industrial Supplies

	DESCRIPTION OF ITEM(S)	BRAND	QTY	NIGP CODE INTERNAL USE ONLY	TOTAL PRICE
2	3M Griddle Screens 10 per pack (200) or equal	First Mark	10/20ct	48588	42.60
18	Cleaner-Diversey General Purpose 4/1 gal or equal	First mark	6/1qt	48516	30.90
21	Continental 18" Rubber floor squeegees *1800) or equal	O'Cedar	1/1ct	48588	10.96
22	Contental 24" rubber floor squeegess (2400) or equal	O'Cedar	1/1ct	48588	10.96
38	Dispenser – Air Freshener Time Mist	Time Mist	1/1ct	48532	18.86
84	Royal griddle bricks for cleaning Grills 12/box (GBRICK) or equal	3M	1/12ct	48588	17.84
101	Trash Can 55 gal – XXLarge 28x58 1.5 mil	First Mark	10/10ct	48594	19.80
113	B aggies Ziploc 16x11 Gallon Size (Hefty) or equal	First Mark	1/250ct	64008	19.78
115	Baggies Freezer Bags 10x11 – 200 ct (Quick Seal) or equal	Handgard	1/1000ct	64008	72.30
121	Foil Wrap 18" Heavy Duty 500 ft (Reynolds) or equal	Slv Serv	1/500ft	64080	28.80
124	Menu Tissue 12x12	Packeer	1/1000ct	64050	6.90
125	Napkins 2 Ply Quarter Fold (Georgia Pacific) or equal	Tork	12/500ct	64050	38.40
135	Paper Towels Brown Rolls Standard Size (Georgia Pacific) or equal	Univer	12/350ft	64075	16.98
136	Paper Towels Multi Fold	Univer	16/250ft	64075	15.10
137	Paper Towels Multi Folds White Bleached 9.25x9/5	Univer	16/250ft	64075	17.92
149	Toilet Tissue (12/1,000 Jr Jumbo((G Pac) or equal	Univer	12/1000	64075	22.35
152	Utensils Forks-Plastics 2,000 ct (James River WNF2P) or equal	First Mark	1/1000ct	64060	14.02
210	Bleach Pure Bright disinfection 6/cs (6Blch) or equal	First Mark	6/1gal	50525	9.05

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

Janitorial & Industrial Supplies						
	DESCRIPTION OF ITEM(S)		BRAND	QTY	UNIT PRICE	PRICE PER CASE
1	3M Green 6x9 Scouring Pads 20/Box (96HP) or equal		First Mark 318914	1/20CT	.376	7.52
2	3M Griddle Screens 10 per pack (200) or equal		First Mark 318926	10/20CT	.213	42.60
3	Air Freshener – Aerosol Asst Scents		First Mark 243627	6/320z	6.178	37.07
4	Air Freshener – Time Mist Asst Scents 6.6 oz		—			
5	Ant & Roach Spray odorless		—			
6	Ant & Roach Spray odorless to contain deltametrin		—			
7	Bowl Cleaner – Liquid (Non Acid) EPA Registered		—			
8	Bowl Cleaner Liquid 23% - 26% HIC EPA Registered		First Mark 243628	6/1qt	4.267	25.60
9	Bowl Mops (Rayon) or equal		Impact 947000	1/1ea	.93	.93
10	Brooms (Plastic Angle) or equal		First Mark 272978	1/12in	5.99	5.99
11	Brooms – Janitorial Straw		First Mark 265277	12/13in	5.758	69.10
12	Brooms Maids Straw (Waco) or equal		—			
13	Carpet Shampoo – Liquid Ammonia Free		—			
14	Carpet Powder & Deodorizer		—			
15	Carpet Shampoo Liquid		—			
16	Carpet Spot Remover 32 oz		—			
17	Carroll Heavy Duty Chemical Deodorant 4/1 Gallons or equal		—			
18	Cleaner-Diversey General Purpose 4/1 Gallons or equal		First Mark 243671	6/1qt	5.15	30.90
19	Cleaner Oven 24 oz: Foam Cleaner		Easy Off 31139	6/24oz	6.408	38.45
20	Cleaner Stainless Steel waterless based		First Mark 243526	6/16oz	5.907	35.44
21	Continental 18" rubber floor squeegees (1800) or equal	22"	OCedar 294697	1/1ct	10.96	10.96
22	Continental 24: rubber floor squeegee (2400) or equal	22"	OCedar 294697	1/1CT	10.96	10.96
23	Degreaser – 55 gallon		—			
24	Detergent – Colgate Palmolive Dishwashing – 12/32 or equal		First Mark 243533	4/1gal	12.08	48.32
25	Detergent- Power Dishwashing(Cream Suds) or equivalent -50 lb box		Packer 883935	1/50lb	40.88	40.88
26	Dishwashing Capsules – US Chemicals 6/8 lb. (failsafe) or equal		—			
27	Dishwashing Liquid 32 oz. (Dawn) or equal		Dawn 8L3824	8/38oz	4.716	37.73
28	Dishwashing Liquid 42 oz. (Dawn) or equal		Dawn 8638824	8/38oz	4.716	37.73
29	Disinfectant & Deodorizer Cleaner Aerosol		—			
30	Disinfectant Cleaner Carroll clear pine mop 4/1 gallon (Pine1) or equal		SlurSrc 242343	4/1gal	6.263	25.05

OPENED 10/9/13 10:30am Witnessed

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

JANITORIAL AND INDUSTRIAL SUPPLIES						
	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
31	Disinfectant Cleaner Carroll Clear Lemon Mop 4/1 gallon (Lemon1) or equal	—			
32	Disinfectant Deodorant Spray – Hospital (Tuberculicial Rated)	—			
33	Disinfectant Deodorant Spray Aerosol – Hospital (1 Minute Kill time)	—			
34	Disinfectant Deodorant Spray Hospital	—			
35	Disinfectant Foam Cleaner – Hospital	—			
36	Disinfectant –Cleaning compound for Animal Cage -Consume Eco-Lyzer (Spartan) or equivalent	—			
37	Disinfectant/Deodorant Spray – Diversely 12/15oz (Endbac I) or equal	—			
38	Dispenser - Air Freshener Time Mist	TimeMist 942400	1/1 CT	18.86	18.86
39	Dispenser –Roll Paper Towel – Lever or Crank (Metal or Plastic)	Tork 892928	1/1 CT	42.95	42.95
40	Dispensers- Liquid Hand Soap (Bulk Soap)	First Mark 243636	4/1 gal	9.825	39.30
41	Dispensers- Paper Towels Multi Folds Universal (Metal)	—			
42	Dispensers – Paper Towels Multi Folds Universal (Plastic)	—			
43	Dust Cloths (Disposable)Yw	—			
44	Dust Cloths – Non Disposable	—			
45	Dust Mop 24"x3 Disposable				
46	Dust Mop 24" X 5 Non Disposable				
47	Dust Mop 24" x 3 Non Disposable				
48	Dust Mop 24" x 5 Disposable				
49	Dust Mop Frames 24 x5				
50	Dust Mop Handles – Swivel Snap On				
51	Dust Mop Treatment (Aerosol)	—			
52	Dust Mop Treatment TRU Equal	—			
53	Dust Pan Metal – Lobby or equal	Impact 932901	1 ea	30.15	30.15
54	Dust Pan Plastic – Lobby or equal	First Mark 273002	1 ea	10.70	10.70
55	Enzyme Deodorizers – per gallon Liquid	First Mark 243656	1/5 gal	19.48/gal	97.40
56	Feather Duster Extensions 12 ft	—			
57	Feather Duster Extensions 8ft	—			
58	Feather Dusters 21 inch Ostrich or Equal	—			
59	Feather Dusters 26 inch Ostrich or Equal	—			

OPENED 10:02am 6/19/13 Witnessed

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

JANITORIAL & INDUSTRIAL SUPPLIES						
	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
60	Floor Cleaner – Diversey Citrus Stride Neutral 5 gal bx (Stride%) or equal	—			
61	Floor Cleaner – Diversey Floral Fragrance Neutral 4/1 gal (FLStride 14) or equal	FirstMark 243536	4/1gal	18.125	72.50
62	Floor Finish/Wax – Diversey 5 Gal (Vectra5) or equal	—			
63	Furniture Polish Aerosol	—			
64	Glass Cleaner –Liquid Concentrate (Spartan) or equal	—			
65	Glass Cleaner RTU – 32 oz. (Spartan) or equal	SlvrSrc 242344	4/1gal	3.978	15.91
66	Hand Cleaner – Waterless	—			
67	Hanging Toilet Bowl Blocks	—			
68	Heavy Duty Laundry Detergent (for Commercial Laundry System)	FirstMark 243657	1/5gal	91.00	91.00
69	Janitorial Cart w/Yellow Vinyl Bag –Rubbermaid (6173) or equal	Rubbermaid 859998	1ea	109.45	109.45
70	Mop Bucket combo Std Size (Rubbermaid 7580) or equal	OCedar 899596	1/3gal	56.78	56.78
71	Mop Handles Fiber Glass 54" Jr. Etc. or equal	—			
72	Mop Handles Wood 54" Junior	—			
73	Mop Head Cotton – Size 16 oz	OCedar 274921	1/3CT	2.263	6.79
74	Mop Head Cotton - Size 24 oz	FirstMark 292442	1/3CT	4.663	13.99
75	Mop Head Cotton – Size 32 oz.	—			
76	Mop Head Rayon – Size 16 oz.	—			
77	Mop Head Rayon – Size 24 oz.	SlvrSrc 292447	1/3CT	4.32	12.96
78	Mop Head Rayon – Size 32 oz.	—			
79	Mosquito Repellent Lotion	—			
80	Mosquito Repellent Spray	—			
81	Odor Eliminator – Non Aerosol	—			
82	Premium Foam Antibacterial Soap Refill (GOJ536202) or equal	—			
83	Purell Hand Sanitizer Refill-GOJ545604 or equal	Purell 268880	6/800ML	7.433	44.60
84	Royal griddle Bricks for Cleaning Grills 12/box (GBRICK) or equal	3M 91A229	1/12CT	1.487	17.84
85	Saddle Bag (SB8.5 Clr 6.5x7) or equal	AEP 314988	1/2000CT	.019	38.00
86	Scouring Sponges Yw/Green Standard Size 3M/equal	—			
87	Scrubbing Cleansers – 21 oz (Comet) or equal	—			
88	Soap-Liquid Hand Antibacterial per gallon (pearl hand cleaner) or equal	First Mark 243636	4/1gal	9.175	36.70
89	Soap Anti Bacterial – Bar 3.5 oz (1,000per case)	—			
90	Soap Bar – 75 oz. – (1,000 per case)	—			

OPENED 10/9/13 10:22am Witnessed

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

Janitorial & Industrial Supplies						
	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
91	Soap Hand – Liquid – (Bag in Box)	Colgate 942586	12/800mL	4.084	49.01
92	Spartan 15% Orange Tough cleaner/degreaser 12/32 oz (OT15QT) or equal	—			
93	Spartan antiseptic/antibacterial hand soap 4/1 gal (AntIHsoap1) or equal	First Mark 243636	4/1gal	9.175	36.70
94	Spartan bounce back floor finish restorer 4/1 gal (Bounce1) or equal	—			
95	Spartan Foamy Q&A phosphoric acid shower cleaner 12/32 oz (Foamy RTU) or equal	—			
96	Spartan fresh scent deodorant spray 12/18 oz (Airfresh AER) or equal	—			
97	Spray Bottles – 24 oz empty bottles or equal w/trigger	Contico 35927	1/3CT	1.95	5.85
98	Spray Bottles – 32 oz empty bottles (bottleqt) or equal	Packer 84963	1 ea	1.75	1.75
99	Toilet Dispenser Universal (12" Jumbo toilet Tissue)	Tork	1ea	26.25	26.25
100	Toilet Seat Covers	Univer	20/250ct	.0127	63.50
101	Trash Can 55 Gal –XX Large 28x58 1.5 mil	First Mark 194634	10/10CT	.198	19.80
102	Trash Cans & Lids 16 Gal	—			
103	Trash Cans & Lids 32 Gallon (Rubbermaid) or equal	—			
104	Trash Cans – 10 Gal	—			
105	Urinal Block w/Screens	—			
106	Urinal Blocks (Blocks Only)	—			
107	Urinal Deodorant Screens – Screens Only	CDC 938065	12/1CT	1.2375	14.85
108	Wasp/Hornet Spray	—			
109	Wasp/Hornet Spray – 20 Ft Stream	—			
110	Wax Stripper Floor Finish Liquid – High Speed (Vectea)(Johnson & Johnson) or equal	—			
111	Baggies ¼ Size Slider Bag Ziploc Snack Bags (Hefty) or equal	—			
112	Baggies 4"x4" Enono Zip (Ziploc Regular Sandwich Bags) or equal	—			
113	Baggies Ziploc 16x11 Gallon Size (Hefty) or equal 10X11	First Mark 158747	1/250CT	.0791	19.78
114	Baggies Ziploc 7x8 Quart Size (Hefty or equal	First Mark 158746	1/500CT	.0463	23.15
115	Baggies Freezer Bags 10x11 – 200 ct (Quick Seal) or equal 10X14	Handgard 45401	1/1000CT	.0723	72.30
116	Butcher Paper 24"	Packer 152223	1/18in	22.79	22.79
117	Facial Tissue(Georgia Pacific) equal or better	Tork 935667	30/100CT	.647	19.41
118	Film Wrap 18" Heavy Duty 2,000 ft. (Reynolds) or equal	First Mark 899594	1/2000ft	16.94	16.94

OPENED 10/24/13 10:22am Witnessed

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

Janitorial & Industrial Supplies						
	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
119	Film Wrap 18"x3000 – Heavy Duty (Reynolds) or equal	—			
120	Foam – Bows 6 oz. w/lids	—			
121	Foil Wrap 18" Heavy Duty 500 ft. (Reynolds) or equal	Slvr Src 240309	1/500ft	28.80	28.80
122	Foil Wrap Potato (Reynolds) or equal	First Mark 157551	6/500CT	9.35	56.10
123	Laced Dollies (different sizes and types)	—			
124	Menu Tissue 12 x 12	Packer 297275	1/1000CT	.0069	6.90
125	Napkins 2 Ply Quarter Fold (Georgia Pacific) or equal	Tork 95779	12/500CT	.0064	38.40
126	Pactiv –or equal – 9x6 5.2.75 foam hinged Tray	—			
127	Pan Liners – (Dispozo) 1,000 cs	First Mark 996070	1/1000CT	.4394	43.94
128	Paper Bags #10 Brown (Duro) or equal 12#	Weyerh 921925	1/500CT	.0398	19.88
129	Paper Bags #4 Brown (Duro) or equal	—			
130	Paper Bags #8 Brown (Duro) or equal	Duro 942894	1/500CT	.0294	14.72
131	Paper Bags 1/6 BBL Brown 1657 (Duro) or equal	Duro 52133	1/500 CT	.0859	42.96
132	Paper Bags 6lb. Brown 6BG (Duro) or equal	Duro 942898	1/500 CT	.0294	14.72
133	Paper Cups Portion 10 oz (Solo) equal or better	—			
134	Paper Roll Towels Kitchen (Scott 11s9) or equal	—			
135	Paper Towels Brown Rolls Standard Size(Georgia Pacific) or equal	Univer	12/350 ft	1.415	16.98
136	Paper Towels Multi Fold	Univer	16/250ft	.9438	15.10
137	Paper Towels Multi Folds White Bleached 9.25X9.5	Univer 906861	16/250ft	1.12	17.92
138	Paper Towels (GEP89460) En-motion high capacity –white 10X800 or equal	—			
139	Styrofoam Bowl -6 oz 1,00 case	Dart 956950	20/50CT	.2935	29.35
140	Styrofoam Bowls 12 oz. (Pacific 1-0012) equal or better	First Mark 197489	8/125CT	.2392	23.92
141	Styrofoam Cup 8 oz. (8J8) or equal	First Mark 199423	40/25CT	.1874	18.74
142	Styrofoam Cups oz. (UJ4) or equal 4oz	Wincup 69627	40/25CT	.1898	18.98
143	Styrofoam Plates 6" Laminated	—			
144	Styrofoam Plates 6" Un-laminated	First Mark 197484	8/125CT	.2011	20.11
145	Styrofoam Plates 9" Divided (Mobil TJ 1-0011) or equal	First Mark 197486	4/125CT	.0396	19.80
146	Styrofoam Plates 9" Laminated	—			
147	Styrofoam Plates 9" Un-laminated	First Mark 197485	4/125CT	.0394	19.70

OPENED 10:00 am 9/18/13 Witnessed

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

JANITORIAL & INDUSTRIAL SUPPLIES						
	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
148	Styrofoam Tray Hinges 9x9x3 Three Compartment w/Lid (Pactiv YTD 19903) 150 cs or equal	SlvrSrc	2/100 CT	.0849	16.97
149	Toilet Tissue (12/1000 Jr Jumbo) (Georgia Pacific) or equal	Univer	12/1000 Sh	1.8625	22.35
150	Toilet Tissue 2 Ply Small Short Sheet (Georgia Pacific) or equal	FirstMark	96/500sh	.4745	45.55
151	Toilet Tissue (6/Jumbo 2000 ft) (Georgia Pacific) or equal	Univer	6/2000ft	4.358	26.15
152	Utensils Forks – Plastic 2,000 ct (James River Wn F2P) or equal	FirstMark 194556	1/1000 CT	.1402	14.02
153	Utensils Forks – Plastic Dispozo – medium 1,000 cs (WMF) or equal	FirstMark 194556	1/1000 CT	.1402	14.02
154	Utensils Forks –Plastic medium Weight White 1,000 ct (Solo or Equal)	FirstMark 194556	1/1000 CT	.1402	14.02
155	Utensils Forks Clear (1,000 ct)	—			
156	Utensils Spoons Plastic (Solo) or equal	Prime 915186	1/1000CT	.1098	10.98
157	Utensils Spoons Plastic 1,000 ct (Solo) or equal	Prime 915186	1/1000 CT	.1098	10.98
158	Utensils Spoons Plastic Dispozo medium WMS 1,000 ct or equal	Prime 915186	1/1000 CT	.1098	10.98
159	Utensils Spoons Plastic medium Weight White (1,000 ct)	Prime 915186	1/1000 CT	.1098	10.98
160	Utensils Party Packs (Spoons, Forks, Knife, Napkin, Salt & Pepper)	Senator 38746	1/250 CT	.0584	14.60
161	Vented Lid-Dart (12J12) or equal	Dart 98b056	10/100 CT	.1302	13.02
162	Vented Lid – Dart (8J8) or equal	Dart 943124	1/1000CT	.1115	11.15
163	Wipers Workhorse Rags (Kimberly Clark) or equal	—			
164	Wipers – (Kimberly Clark) 15x16.5 white (300cs) (K41100) or equal	—			
165	Body Shampoo – Per Gallon	—			
166	Deodorant –Hygiene	—			
167	Lice Killer – Aerosol	—			
168	Razors – Double Edged	—			
169	Sanitary Napkins Maxi No 4 Folded (Stayfree, Rochester, etc. or equal)	—			
170	Sanitary Napkins Panty Liners	—			
171	Sanitary Napkins Super No 4 Folded (Stayfree, Rochester, etc. or equal)	—			
172	Sanitary Napkins Thin No 4 Folded (Stayfree, Rochester, etc or equal	—			
173	Shaving Cream	—			
174	Toothbrush Firm – Specify Size	—			

OPENED
10/9/13
10:22am
WITNESSED

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

Janitorial & Industrial Supplies						
	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
175	Toothbrush Medium Specify Size	—			
176	Toothbrush Soft Specify Size	—			
177	Toothpaste Std Size, Specify Size	—			
178	Toothpaste Travel Size, Specify Size	—			
179	Americo 20" Beige Ultra High Speed Burnishing Pads 5/bx-(20MUHSTBP) or equal	—			
180	Buffing Pads 17" White	—			
181	Buffing Pads 20" White	—			
182	Filters Windsor Exhaust for Sensor Xp12 Vacuum Cleaner (5143EF) or equal	—			
183	Filters Windsor Micro Hygiene for Sensor XP12 Vacuum Cleaner (5301ER) or equal	—			
184	Stripping Pads 17" Black	—			
185	Stripping Pads 20" Black	—			
186	Vacuum Bags Windsor for Sensor XP12 Vacuum Cleaner 10 pk (Johnson & Johnson) or equal	—			
187	Gloves - Food Service Large Clear (Brand Name) Vinyl	Slvr Src 240775	10/100 CT	.2970	29.70
188	Gloves – Food Service – Medium clear (Brand Name)	Slvr Src 240774	10/100 CT	.298	29.80
189	Gloves Latex Small Disposable (Ansell)Yw or equal	First Mark 240762	4/100 CT	.0775	31.00
190	Gloves Latex Large Disposable	Packer.	10/100 CT	.392	39.20
191	Gloves Latex Large Non-Disposable Yw (Ansell) or equal	Packer 869908	1 ea	.81	.81
192	Gloves Latex Medium Non Disposable Yw (Ansell) or equal	Packer 242892	1 ea	.81	.81
193	Gloves Latex Medium Disposable (Ansell) or equal	Packer.	10/100 CT	.392	39.20
194	Gloves Latex Small Non Disposable Yellow (Ansell) or equal	—			
195	Gloves Safety (Nitrile) SFZGNPRXL1M or equal	Food Handler 366380	1/400 CT	.1575	63.00
196	Body Towels Standard Size	—			
197	Hand Towels Standard Size	Slvr Src	1/12 CT		
198	Trash Liners -45 Gal X-Large 40x48 16 Mic High Density Can Liner	First Mark 194622	10/10 CT	.1623	16.23
199	Trash Liners – Pitt Plastics 23x33 12-16 gal Black 1000cs (32 BL) or equal	AEP 953255	1/1000 CT	.269	26.90
200	Trash Liners – Large Trash Can 13 MIC 30 x 37 High Density Can Liners 24X32	First Mark 241347	25/20 CT	.075	37.50
201	Trash Liners –Large Trash Can 16 MIC 33 Gal 33x40 High Density Can Liners	First Mark 194621	10/15 CT	.1129	16.94
202	Trash Liners – Tall Trash Can 8 MIC 24 x 33 High Density Can Liners	Inteplast 264987	20/50 CT	.2015	20.15

OPENED 10:02AM 10/29/13 WITNESSED

EXHIBIT "B"
BID PAGE
RFB № 2013-147-10-09-YZV
"JANITORIAL SUPPLIES, INDUSTRIAL CHEMICALS & SUPPLIES"

JANITORIAL & INDUSTRIAL SUPPLIES					
	DESCRIPTION OF ITEM(S)	BRAND	QTY	UNIT PRICE	PRICE PER CASE
203	Toilet Brushes (Standard Size) Plastic	—			
204	Toilet Brushes – Hard Bristle Bowl Brush (0310) (Rubbermaid) or equal	—			
205	Weed Killer (Round Up) or equal	—			
206	Weed Killer 55 Gallon concentrated – Specify Dilution	—			
207	Spartan Sanitize Quart Food Service 12/32 oz (SRTU) or equal	—			
208	Sprayer (Trigger/Nozzles Only) red & white	—			
209	Bleach – Disinfectant Cleaner Dry Air – Hospital	—			
210	Bleach – Pure Bright Disinfection 6/cs (6BLCH) or equal	Firstmark 247123	6/1gal	1.5083	9.05
211	Bio-Hazard Bag Red 40 X 48 3 mil	—			
212	Disinfectant Wipes (Lysol) or equal	—			

ACKNOWLEDGMENT FORM/BIDDER INFORMATION

I/We the undersigned hereby certify that I/We am/are a duly authorized official of the company and have the authority to sign on behalf of the company and assure that all statements made in the bid are true. I/We agree to furnish and deliver the specified items/services at the prices stated herein, and have read, understand, and agree to the terms and conditions contained herein and on all of the attachments.

BIDDER/COMPANY NAME: Vistar Managed Performance Food Group
ADDRESS: 204 N. Bronson
CITY/STATE/ZIP CODE: Victoria TX
TELEPHONE NUMBER 361-582-7500
E-MAIL ADDRESS: gmedina@pfgc.com
CELLULAR NUMBERS: (956) 624-4706 or (956) 624-1955
FAX NUMBER:
AUTHORIZED SIGNATURE:
PRINTED NAME: Gloria Medina
TITLE: Area Manager
DATE: 10-9-13

OPENED
10/9/13
10:20am
Witnessed

EXHIBIT "C"
CERTIFICATE OF INSURANCE

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 10/31/2013

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Marsh USA, Inc.
1166 Avenue of the Americas
New York, NY 10036
Attn: NewYork.certs@Marsh.com Fax: 212-948-0500

902594-All-CAS-13-14

CONTACT NAME:
PHONE (A/C, No, Ext): **FAX (A/C, No):**
E-MAIL ADDRESS:

INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A :	ACE American Insurance Company	22667
INSURER B :	National Union Fire Ins Co Pittsburgh PA	19445
INSURER C :	Indemnity Insurance Company Of North America	43575
INSURER D :	Lexington Insurance Co.	19437
INSURER E :		
INSURER F :		

INSURED
PFS - VICTORIA
C/O PERFORMANCE FOOD GROUP, INC.
12500 WEST CREEK PARKWAY
RICHMOND, VA 23238

COVERAGES **CERTIFICATE NUMBER:** NYC-006763345-01 **REVISION NUMBER:** 6

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS		
A	**GENERAL LIABILITY** X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO-JECT LOC			HDOG27023198	08/01/2013	08/01/2014	EACH OCCURRENCE	$	1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	$	100,000
							MED EXP (Any one person)	$	5,000
							PERSONAL & ADV INJURY	$	1,000,000
							GENERAL AGGREGATE	$	3,000,000
							PRODUCTS - COMP/OP AGG	$	3,000,000
								$	
A	**AUTOMOBILE LIABILITY** X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS			ISAH08720812	08/01/2013	08/01/2014	COMBINED SINGLE LIMIT (Ea accident)	$	2,000,000
							BODILY INJURY (Per person)	$	
							BODILY INJURY (Per accident)	$	
							PROPERTY DAMAGE (Per accident)	$	
								$	
B	X **UMBRELLA LIAB** X OCCUR			20562207	08/01/2013	08/01/2014	EACH OCCURRENCE	$	5,000,000
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$	5,000,000
D	DED X RETENTION $ 25,000			038183006 (EX AUTO)	08/01/2013	08/01/2014	EX AUTO-EA OCC	$	5,000,000
A	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y/N			WLRC47323745 (CA & MA)	08/01/2013	08/01/2014	X WC STATU-TORY LIMITS OTH-ER		
C	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? N	N/A		WLRC47323782 (AOS excl. TX)	08/01/2013	08/01/2014	E.L. EACH ACCIDENT	$	2,000,000
A	**(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below			SCFC47323824 (WI)	08/01/2013	08/01/2014	E.L. DISEASE - EA EMPLOYEE	$	2,000,000
							E.L. DISEASE - POLICY LIMIT	$	2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
The Certificate Holder is included as additional insured where required by written contract with respect to general liability and auto liability.

CERTIFICATE HOLDER

Hidalgo County
Attn: Purchasing Group
2812 S. Highway Bus. 281
Edinburg, TX 78539

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE
of Marsh USA Inc.
Chris Kakel

© 1988-2010 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

EVIDENCE OF PROPERTY INSURANCE

DATE (MM/DD/YYYY): 10/31/2013

THIS EVIDENCE OF PROPERTY INSURANCE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE ADDITIONAL INTEREST NAMED BELOW. THIS EVIDENCE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS EVIDENCE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE ADDITIONAL INTEREST.

AGENCY | **PHONE (A/C, No, Ext):**

MARSH USA
1166 AVENUE OF THE AMERICAS
NEW YORK, NY 10036
Attn: NewYork.certs@Marsh.com Fax: 212-948-0500

902594-All-STP-13-14

FAX (A/C, No): | **E-MAIL ADDRESS:**

CODE: | **SUB CODE:**

AGENCY CUSTOMER ID #:

COMPANY
Alterra America Insurance Company

INSURED
PFS - VICTORIA
C/O PERFORMANCE FOOD GROUP, INC.
12500 WEST CREEK PARKWAY
RICHMOND, VA 23238

LOAN NUMBER

POLICY NUMBER
SEE PAGE 2

EFFECTIVE DATE	EXPIRATION DATE	CONTINUED UNTIL TERMINATED IF CHECKED
08/01/2013	08/01/2014	☐

THIS REPLACES PRIOR EVIDENCE DATED:

PROPERTY INFORMATION

LOCATION/DESCRIPTION

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS EVIDENCE OF PROPERTY INSURANCE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

COVERAGE INFORMATION

COVERAGE / PERILS / FORMS	AMOUNT OF INSURANCE	DEDUCTIBLE
Motor Truck Cargo - any one vehicle All Risk of direct physical loss or damage, subject to policy terms, conditions and exclusions.	500,000	

REMARKS (Including Special Conditions)

The certificate holder is named a loss payee as respects its interest in property in the care, custody or control of the named insured and to the extent policy terms and limits apply under contract with the certificate holder.

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

ADDITIONAL INTEREST

NYC-006763352-01

NAME AND ADDRESS

Hidalgo County
Attn: Purchasing Group
2812 S. Highway Bus. 281
Edinburg, TX 78539

	MORTGAGEE		ADDITIONAL INSURED
X	LOSS PAYEE		

LOAN #

AUTHORIZED REPRESENTATIVE
of Marsh USA Inc.

Jan Mulstay

© 1993-2009 ACORD CORPORATION. All rights reserved.
The ACORD name and logo are registered marks of ACORD

AGENCY CUSTOMER ID: 902594

LOC #: New York

ADDITIONAL REMARKS SCHEDULE

AGENCY	NAMED INSURED
MARSH USA	PFS - VICTORIA C/O PERFORMANCE FOOD GROUP, INC. 12500 WEST CREEK PARKWAY RICHMOND, VA 23238
POLICY NUMBER	
CARRIER / NAIC CODE	EFFECTIVE DATE:

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: 27 FORM TITLE: Evidence of Property Insurance

(Stock Throughput Inventory / Motor Truck Cargo)
Carrier: Alterra America Insurance Company
Policy #MAXA4OMC0002041 / MAXA4IM0047830

© 2008 ACORD CORPORATION. All rights reserved.
The ACORD name and logo are registered marks of ACORD

AI-41256 **Purchasing Department 17. A. 4.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted By: Gricelda Villarreal, PURCHASING DEPT.

Department: PURCHASING DEPT.

Information

CAPTION

Acceptance of the responses received as "qualified" for award for: "Title Company Services-POOL" (as listed in the RFP Acceptance Sheet attached hereto) and approval of the contract(s). (RFP No.: 2013-152-10-09-CGA)

BACKGROUND

These services are available for County Wide use on an "As Needed Basis"; A Purchase Order is required prior to requesting services.

Attachments

Participation Sheet

contract

contract

legal

Acceptance Log

Form Review

Inbox	Reviewed By	Date
Purchasing Department	Nielda Cavazos	10/18/2013 10:34 AM
Budget & Management	Obdett Calzada	10/18/2013 02:06 PM
Manuel Chapa	Manuel Chapa	10/25/2013 10:20 AM
Purchasing Department	Nielda Cavazos	11/07/2013 04:24 PM
Auditor's Office	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Gricelda Villarreal Started On: 10/15/2013 01:42 PM

Final Approval Date: 11/15/2013

HIDALGO COUNTY PURCHASING DEPARTMENT
PARTICIPATING RFB LOG
SPECIFICATIONS/RFB PACKETS
RFB-RFP-RFQ-RFB

RFP ACEPTANCE DATE: October 9, 2013 **RFP ACCEPTANCETIME: 9:30 A.M.**
DEPARTMENT/PROJECT DESCRIPTION: HIDALGO COUNTY- TITLE COMPANY SERVICES POOL"
RFP NO.: 2013-152-10-09-CGA

NAME OF VENDOR: COMPANY/FIRM	RFP REQUEST *VIA	SIGNATURE (IF APPLICABLE) OR INITIALS OF STAFF ADDRESSING MAIL OUT	DATE	PHYSICAL ADDRESS, PHONE No., FAX No. and E-MAIL ADDRESS
Valley Land Title Co. Paul Rodriguez	Email	CGA rodriguezp@valleylandtitleco.com	9-24-13 9-30-13	612 Nolana Ste 570 McAllen, Texas 78504 956-383-2708
Sierra Title Estella Lopez	Email	elopez@mca.sierratitle.com bsantos@mca.sieratittle.com	9-24-13	3401 North 10th St McAllen, Texas 78501 956-682-8321
Edwards Abstract & Title Co. Elva Garza	email	Elva.garza@edwards-titleco.com	9-24-13	3111 W. Freddy Gonzalez Edinburg, Texas 78539 956-383-4951
Security Land Title Co. Ruben Arenas	Email	Ruben.arenas@securitylandtitle.com	9-24-13	4228 N. McColl Rd. McAllen, Texas 78504 956-687-6777
South Texas Land Investigations Jorge A. Lopez	Email	Stxland.lopez@gmail.com	9-24-13	3111 W Freddy Gonzalez Edinburg, Texas 78539 956-383-4951

THE STATE OF TEXAS §
§
COUNTY OF HIDALGO §

PROFESSIONAL SERVICES CONTRACT

C-13-152a-11-19

THIS AGREEMENT is made effective the **19th of November, 2013**, by and between the **County of Hidalgo, Texas** ("County") and **Valley Land Title Co.** ("Company").

W I T N E S S E T H:

WHEREAS, the County requires services for: **Title Policy Related Services** located within **Hidalgo County;** and

WHEREAS, the County of Hidalgo solicited Request for Proposals (RFP) for the development and establishment of a yearly pool for "Title Companies Services", and

WHEREAS, from which "Title Company provider/firm(s)" has been selected from the "Pool" of pre-qualified Title Companies Services from response to the Request for Proposals (RFP), and

WHEREAS, County has determined that the services of "Title Companies Services" are sometimes necessary to carry out the required report activities; and

WHEREAS, the County has selected the provider/firm to provide title companies services within the County of Hidalgo, Texas through its procured approved pool of Title Companies Services.

NOW, THEREFORE, in consideration of the mutual covenants and agreements herein contained, County and Title Company Provider/Firm do mutually agree as follows:

1. Scope of Services. Title Company provider/firm agrees to provide to County the services shown in Exhibit "A" attached hereto and entitled "Services to be Provided by the provider/firm". Provider/Firm selected is to have adequate experience and a workload free from constraints to complete said services within the requested time provided by the user department. **The Title Company Provider/Firm will not begin work or incur costs until authorization of a**

Purchase Order (PO) in writing by the County for each work order.

Further, in the event that a Title Commitment is requested and no title policy is necessary or purchased, Hidalgo County will pay a maximum of three hundred dollars ($300.00) for the services. Also, if it is demonstrated by Title Company Provider/Firm that Hidalgo County has caused or delayed thus preventing the Title Company Provider/Firm from meeting the specified agreed upon deadline to provided the services ordered, Title Company Provider/Firm must advise in written notice to the Purchasing Department or requesting department(s) to authorize and to secure additional time to comply.

2. Term. Contract will be for one (1) year period commencing **November 28, 2013 thru November 27, 2014**, with the County's sole discretion to extend the contract for an additional one (1) year based on prior year's performance evaluation and contingent upon cost remaining unchanged. Hidalgo County reserves the right to continue this proposal for an additional sixty (60) day "grace period" at the end of the contract term for unforeseen delay of award for next term and contingent upon cost remaining unchanged.

3. Compensation. As consideration for rendering the Services provided for in this Contract, the County agrees to pay the Title Company Provider/Firm the amounts specified in Exhibit "B" attached hereto payable against written invoice submitted by Title Company Provider/Firm. The Title Company Provider/Firm is authorized to submit periodic requests for payment within thirty days after completion of each work order. The request for payment shall be made using forms acceptable to the County and shall show the total amount earned to the date of submission and the amount due and payable as of the date of the current billing. Upon receipt of said request for payment, County shall submit a requisition for payment of said services in the customary manner provided for payments utilized by Hidalgo County, Texas. Title Company Provider/Firm agrees to separately account for the receipt and/or expenditure of funds received pursuant to this Contract and to keep adequate books and records of all such receipts and/or expenditures. All payments to Title Company Provider/Firm shall be mailed to the address shown in numbered paragraph 21, hereof.

4. Progress. Upon acceptance of a work order, the Title Company Provider/Firm shall undertake and complete the authorized work. The County or the Title Company Provider/Firm can request conferences to be provided at the Title Company Provider/Firm's office, the office of the County, or at other agreed upon locations.

5. Inspection of Work. The County has the right at all reasonable times to inspect or otherwise evaluate the work performed or being performed hereunder. All evaluations shall be performed in such a manner as will not unduly delay the work.

6. Amendments. If it becomes necessary at any time during the contract period to change the scope of work, the contract period, the maximum amount payable, the complexity, or the character of this contract, an amendment must be prepared and executed within the contract period. The County retains the right to reject any such amendment proposed by the Title Company Provider/Firm unless the County finds the proposed amendment necessary to complete the work authorized herein. Any such amendments be made in writing agreed to by all parties hereto and duly executed before the end of the contract period as specified.

If the County finds it necessary to require changes in completed work because of errors made by the Title Company Provider/Firm, the County shall require the Title Company Provider/Firm to correct the work at no cost to the County and without amendment to the contract. If the changes are made at the request of the County and are not due to errors of the Title Company Provider/Firm, the County will reimburse the Title Company Provider/Firm for the additional work at the same rate of pay established in Exhibit "B", "Basis for Payment". If payment for the additional work will cause the maximum amount payable to be exceeded, an amendment shall be executed in accordance with the terms of this provision.

7. Reporting. The Title Company Provider/Firm shall promptly advise the County in writing of events which have a significant impact upon the contract, including:

7.1. Problems, delays, or adverse conditions which will materially affect the ability to meet time schedules and goals, or preclude the attainment of project work units by established time periods. This disclosure shall be accompanied by a statement of the action taken, or contemplated, and any County or, if Federal funds are involved,

Federal assistance needed to resolve the situation.

7.2. Favorable developments or events which enable meeting time schedules and goals sooner than anticipated or producing more work units than originally projected.

8. Ownership of Documents. Upon completion or termination of this contract, all documents furnished to the County by the Title Company Provider/Firm or furnished to the Title Provider/Firm by the County shall be delivered to and become the property of the County. The Title Company Provider/Firm may, at its own expense, have copies made of the documents or any other data furnished the County under this contract.

9. Independent Contractor. Title Company Provider/Firm must comply with all applicable Hidalgo County policies and with any applicable federal, state or local laws, regulations, orders or ordinances applicable to the services provided by Title Company Provider/Firm under this Contract. Notwithstanding the foregoing sentence, Title Company Provider/Firm represents and maintains that it is an independent contractor and is not an employee of Hidalgo County, Texas, or any agency thereof, and represents and warrants that it does not desire or request any fringe benefits provided to employees of Hidalgo County, Texas, and/or any agency thereof, including, but not limited to benefits associated with Hidalgo County's civil service program. Title Company Provider/Firm agrees to be responsible for any federal income tax, withholding or social security tax liability that might arise from payments received hereunder.

10. Voluntary Termination. Title Company Provider/Firm and County agree that any contract award to a successful bidder will be in effect until (a) the contract expires, (b) delivery and acceptance of products, and/or performance of services ordered, or (c) this contract is terminated without cause by County with thirty (30) days written notice to the Title Company Provider/Firm.

11. Insurance. Title Company Provider/Firm agrees to provide liability insurance covering its activities in providing the services for County in an amount not less than the minimum amounts prescribed by the Texas Tort Claims Act, ' 100.001, et seq., Texas Civil Practices and Remedies Code, and shall furnish department a Certificate of Insurance (Exhibit “C”), issued by the insurer that such insurance is in full force and effect.

12. No Assignment. Except as otherwise herein provided, Title Company Provider/Firm, may not assign the obligations or rights under this contract to any person without the prior written consent of County.

13. Termination Date. INTENTIONALLY DELETED

14. Conflict. Nothing in this Contract shall be construed so as to require the commission of any act contrary to law, and whenever there is any conflict between any provision of this Contract and any present or future law, ordinance or administrative, executive or judicial regulation, order or decree, or amendment thereof, contrary to which the parties have no legal right to contract, the latter shall prevail, but in such event the affected provision or provisions of this Contract shall be modified only to the extent necessary to bring them within the legal requirements and only during the time such conflict exists.

15. Termination by County. If Title Company Provider/Firm fails to deliver quality service, fails to achieve the defined goals, outcomes, strategies and outputs set by County, or if Title Company Provider/Firm fails to comply with any conditions in this Contract, then County shall have the right to terminate this Contract upon the giving of ten (10) days prior written notice to Title Company Provider/Firm.

16. No Waiver. No waiver by County of any breach of any provision of this Contract shall be deemed to be a waiver of any preceding or succeeding breach of the same or any other provision hereof.

17. Entire Agreement. This Contract contains the entire agreement between the parties hereto, and each party acknowledges that neither has made (either directly or through any agent or representative) any representations or agreements in connection with this Contract not specifically set forth herein. This Contract may be modified or amended only by agreement in writing executed by County and Title Company Provider/Firm, and not otherwise.

18. Venue. This Contract shall be construed under and in accordance with the laws of the State of Texas, and all obligations of the parties created hereunder are performable in Hidalgo County, Texas. The parties hereby consent to personal jurisdiction in Hidalgo County, Texas.

19. Hold Harmless. In the event Title Company Provider/Firm should cause, either directly or indirectly, damage, loss, destruction, liability, or claims against the other party as a result of intentional conduct, negligence or otherwise, Title Company Provider/Firm shall hold harmless and indemnify County from any and all obligations, liabilities, causes of action, lawsuits, damages, and assessments, including legal fees, etc., that result from the Title Company Provider/Firm's intentional actions or negligence. This indemnification clause shall survive this Contract and be enforceable as a separate agreement in the event its survival and enforcement becomes necessary.

20. Attorney's Fees. In the unlikely event that a dispute occurs which is litigated or arbitrated, or a cause of action in law or equity is filed concerning the operation, construction, interpretation, or enforcement of this Contract, the losing party shall bear the cost of the attorney's fees incurred by the prevailing party and any and all costs applicable thereto, including, but not limited to, court costs, deposition fees, expert witness fees, out-of-pocket expenses and travel expenses which are incurred by the prevailing party.

21. Notices. Except as may be otherwise specifically provided in this Contract, all notices, demands, requests or communications required or permitted hereunder shall be in writing and shall either be (i) personally delivered against a written receipt, or (ii) sent by registered or certified mail, return receipt requested, postage prepaid and addressed to the parties at the addresses set forth below, or at such other addresses as may have been theretofore specified by written notice delivered in accordance herewith:

If to County:	County of Hidalgo Attention: County Judge 302 W. University Drive Edinburg, Texas 78539
If to Title Company Provider/Firm:	Valley Land Title Co. Attn: Paul R. Rodriguez 612 Nolana, Ste. 570 McAllen, Texas 78504

Each notice, demand, request or communication which shall be delivered or mailed in the manner described above shall be deemed sufficiently given for all purposes at such time as it is personally delivered to the addressee or, if mailed, at such time as it is deposited in the Unites States mail.

22. Execution of Documents. The parties hereto covenant and agree that they will execute such other and further instruments and documents as are or may become necessary or convenient to effectuate and carry out the terms of this Contract.

. **23. Binding Contract.** This Contract shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, executors, administrators, legal representatives, successors, and assigns where permitted by this contract.

24. Gender. All pronouns used in this Contract shall include the other gender, whether used in the masculine, feminine or neuter gender, and the singular shall include the plural whenever and as often as may be appropriate

25. Authority. The execution and performance of this Contract by County and Title Company Provider/Firm have been duly authorized by all necessary laws, resolutions or corporate action, and this Contract constitutes the valid and enforceable obligations of County and Title Company Provider/Firm in accordance with its terms.

26. Commitment of Current Revenues Only. In the event that, during any term hereof, the Commissioners Court does not appropriate sufficient funds to meet the obligations of County under this Agreement, County may terminate this Agreement upon ten (10) days written notice to Contractor. County agrees, however, to use reasonable efforts to secure funds necessary for the continuing right to terminate this Agreement at the expiration of each budget period of County pursuant to the provisions of Tex. Loc. Govt. Code Ann.§ 271.903 (Vernon Supp. 1995).

EXECUTED as of the day and year first written above.

COUNTY OF HIDALGO, TEXAS

By:_____
Ramon Garcia, County Judge

ATTEST:

_____
Arturo Guajardo, Jr., County Clerk

TITLE COMPANY PROVIDER/FIRM:

NAME: VALLEY LAND TITLE CO.
By: _____

Printed Name:_____

Title:_____

Approved on Commissioners' Court:_____ 2013.

APPROVED AS TO FORM:
ATLAS, HALL & RODRIGUEZ, L.L.P.

BY:_____

EXHIBIT "A"

Services to be provided by Title Company Provider/Firm

EXHIBIT A

REQUIREMENTS

HIDALGO COUNTY

REQUEST FOR PROPOSAL

"TITLE COMPANY SERVICES POOL"

RFP NO: 2013-152-10-09CGA

**(NIGP CODES: 968-66-Title Services ROW;
946-46-Title & Escrow Services)**

Hidalgo County is requesting sealed proposals from qualified and interested title companies in order to establish a pre-qualified pool of providers for "**Title Company Services Pool"** for the purposes of providing and rendering title policy related services on an **"As Needed/Non Exclusive Basis"** per project by all County Departments and/or applicable programs requiring said services as set forth in the requirements. Upon approval and acceptance by Hidalgo County Commissioner's Court, the term of the pre-qualified pool of **"Title Company Services Pool" will be for a period of one (1) year period commencing November 28, 2013**, with the County's sole discretion to extend the contract for an additional one (1) year under the same rates/fees, terms and conditions. Hidalgo County reserves the right to continue this bid for an additional sixty (60) day grace period at the end of the contract for unforeseen delay in the award of new bid for the next contract term.

Sealed proposals with qualifications will be accepted until **9:30 A.M., Wednesday, October 09, 2013. ANY RFP RECEIVED AFTER THAT DATE AND TIME WILL NOT BE ACCEPTED AND WILL BE RETURNED UNOPENED.**

Deliver Submittal to:
RFP NO: 2013-152-10-09CGA

US Postal Mail address:
Martha L. Salazar, CPPB, Purchasing Agent
Hidalgo County Purchasing Department
Administration Building
2812 S. Business Hwy. 281
Edinburg, Texas 78539

Physical Address:
Martha L. Salazar, CPPB, Purchasing Agent
Hidalgo County Purchasing Department
Administration Building
2802 S. Business Hwy. 281
Edinburg, Texas 78539

The Submittal Envelope Must Show the RFP Number, Name and Acceptance Date.
The following outlines the Request for Proposal/Qualifications:

SECTION I GENERAL TERMS AND CONDITIONS

ADDITIONAL INFORMATION:
Hidalgo County requires that "Request for Proposals" be routed to Martha L. Salazar, CPPB, Purchasing Agent, at:

US Postal Mail address:
Martha L. Salazar, CPPB, Purchasing Agent
Hidalgo County Purchasing Department
Administration Building
2812 S. Business Hwy. 281
Edinburg, Texas 78539

Physical Address:
Martha L. Salazar, CPPB, Purchasing Agent
Hidalgo County Purchasing Department
Administration Building
2802 S. Business Hwy. 281
Edinburg, Texas 78539

WRITTEN QUESTIONS WILL BE ACCEPTED VIA FACSIMIL NO LATER THAN WEDNESDAY, October 2, 2013, 5:00 P.M. at (956) 292-7612, and/or BY EMAIL AT: cris.ayala@co.hidalgo.tx.us . RESPONSES WILL BE SENT TO ALL APPLICANTS VIA FACSIMILE BY FRIDAY, October 4, 2013. TELEPHONE INQUIRIES WILL NOT BE ACCEPTED.

All costs and expenses associated with the preparation and submission of (bids, proposals, and/or quotes) shall be the responsibility of the bidder/proposer and not reimbursements for such charges or expenses shall be passed onto Hidalgo County.

DISCLOSURE OF CONFLICT OF INTEREST:
Effective January 1, 2006, Chapter 176 of the Texas Local Government Code requires that any vendor, person, consultant or contractor considering doing business with Hidalgo County ("the County") to disclose in the Conflict of Interest Questionnaire (the "CIQ") attached as **Exhibit D**, the vendor, person consultant or contractor's affiliation or business relationship that might cause a conflict of interest with the County. By law, the CIQ must be filed with the Hidalgo County Clerk's Office no later than the seventh business day after the date the person becomes aware of facts that require that statement to be filed. The disclosure requirement applies to a person or business who contract or seeks to contract with Hidalgo County for the sale or purchase of property, goods or service. Any purchase order or contract resulting from this process shall be considered null and void if the successful bidder fails to comply with Texas Local Government Code Chapter 176. Vendors, consultants, contractors and others who desire to conduct business with Hidalgo County are encouraged to refer to Texas Local Government Code Chapter 176 for the details of this law. An offense under Texas Local Government Code Chapter 176 is a Class C Misdemeanor.

Please submit complete CIQ forms to the Hidalgo County Clerk's Office located at 100 No. Closner, Edinburg, Texas 78539-Hidalgo County Courthouse **COMPLETION AND SUBMISSION OF FORM CIQ IS THE SOLE RESPONSIBILITY OF THE PROSPECTIVE BIDDER.**

PROPOSER'S AFFIDAVIT:
Prior Contract award, respondents to this RFP must submit a signed Proposer's Affidavit (attached herein in **Exhibit E**) certainly that the submission is (1) not the result of Collusion as described in the Proposer's Affidavit, (2) that the Respondent does not have a Conflict of Interest as described in the Proposer's, affidavit or that the Respondent has not and will not attempt to lobby directly or indirectly as described in the Proposer's Affidavit.

NON-DISCRIMINATION:
Submitters, during the performance of this contract, will not discriminate against any employee or applicant for employment because of race, religion, sex, national origin or disability except where religion, sex, national origin or disability is a bona fide occupational qualification reasonably necessary to the normal operation of the contractor.

PROCESSING TIME FOR PAYMENT:
Submitters are advised that a minimum of thirty (30) days is required to process invoices for payment.

ELECTRONIC TRANSMISSION OF PROPOSALS:
Hidalgo County's Purchasing Department will not accept telegraphic or electronically transmitted submissions.

PROOF OF FINANCIAL AND BUSINESS CAPABILITY:
Submitters must, upon request, furnish satisfactory evidence of their ability to furnish products or services in accordance with the terms and conditions of these requirements. Hidalgo County will make the final determination as to the submitter's ability.

SUBMITTER DEFAULT:
Hidalgo County reserves the right, in case of submitter default, to procure the articles or services from other sources and hold the defaulting submitter responsible for any excess costs occasioned thereby.

RESTRICTIVE OR AMBIGUOUS REQUIREMENTS:
It is the responsibility of the submitter to review the Request for Proposal w/qualifications (RFP) packet and to notify the Purchasing Department if the requirements are formulated in a manner that would unnecessarily restrict competition. Any such protest or question regarding the requirements or bidding procedures must be received in the Purchasing Department not less than seventy-two hours prior to the time set for the opening. These criteria also apply to requirements that are ambiguous.

HAND DELIVERED PROPOSALS W/QUALIFICATIONS:
Hidalgo County requires submitters, when hand delivering the RFP, to make sure that it is stamped with date and time by the County Purchasing staff.

SIGNING OF PROPOSALS W/QUALIFICATIONS:
In order to be considered all submittals **must** be signed. **Please sign the original in blue ink.**

WAIVING OF INFORMALITIES:
Hidalgo County reserves the right to waive minor informalities or technicalities when it is in the best interest of Hidalgo County.

SUBCONTRACTING: The successful submitter may not subcontract the award without the written consent of the Commissioners' Court of Hidalgo County.

TERM OF CONTRACT:
Upon approval and acceptance by Hidalgo County Commissioner's Court, the term of the pre-qualified pool of "Title Company Services" will be for a period of one (1) year period commencing November 28, 2013, with the County's sole discretion to extend the contract for an additional one (1) year under the same rates/fees, terms and conditions.

Hidalgo County reserves the right to continue this bid/pool for an additional sixty (60) day grace period at the end of the contract for unforeseen delay in the award of new bid for the next contract term.

DAVIS BACON ACT: (IF APPLICABLE)
All selected and awarded firms are required to include the Davis-Bacon Act when advertising and developing specifications.

SECTION II RFP REQUIREMENTS

REQUEST FOR PROPOSAL:

The required contents and limitations for the preparation of the RFP are described in this section. Failure to provide the requested information or adhere to any County limitations will result in disqualification of the submitted RFP. A total of **one (1) original and seven (7) copies** of the RFP shall be submitted to the address on the cover letter.

PURPOSE:

Hidalgo County is requesting sealed proposals w/qualifications from certified, licensed and interested title companies in order to establish a pre-qualified pool of providers for "**Title Company Services Pool**" for the purposes of providing and rendering title policy related services on an **"As Needed/Non-Exclusive/Purchase Order Basis"** per project for title company related services on an **"As Needed/Non-Exclusive/Purchase Order Basis"** to all Hidalgo County Elected Offices, Departments, Programs, Agencies through their funding sources.

CONTENTS:

The required contents for the RFP are presented below in the order they should be incorporated into the submitted document.

QUALIFICATIONS-REQUIREMENTS-SCOPE OF SERVICES:

I. MINIMUM FIRM QUALIFICATIONS:

(a) The firm must possess a current license from the Texas Board of Insurance
(b) The firm or vendor selected is to have adequate experience and staff, such as, but not limited to:
- Title Examiners
- Closing Officers
- Escrow Agents

(c) The provider should have experience with State (i.e. TxDOT), County and other governmental entities as well as private sector firms.

II. REQUIREMENTS:

Each proposal must address, but may not be limited, to the following issues:

(a) Firm Name;
(b) Name, position, phone and fax number of Point of Contact (POC);
(c) Name of Principal/Owner and number of years in business;
(d) Provide the number of staff members available in order to render (but not limited to) all the services described and listed herein;
(e) List three (3) governmental projects with names, addresses and phone number of representatives who can be contacted for references;
(f) Detail how your firm/company has the capability to deliver the services required on a timely basis;
- State in how many (business) days your company can return a "Title Report"

after a request (i.e. "Purchase Order") is received by your firm.

- State your firm's/company's timeline (business days) to issue a "Title Commitment(s)".
- Provide a copy of "Texas Title Insurance Premium Rates".
- State how many business days your company can complete "Escrow Agent" services (if requested by County) and include the applicable rates for those services.
- State how many personnel or staff will be assigned and committed to render the services required.
- State in detail what "other services" are not included in the rates provided.

III. SCOPE OF TITLE COMPANY SERVICES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

(a) Title Reports
(b) Title Searches, (i.e., Title Certificates)
(c) Title Commitments
(d) Title Policy*
(e) Escrow Agent Services when requested by the County

NOTE: * In the event that a Title Commitment is requested and no title policy is necessary or purchased, Hidalgo County will pay a maximum of three hundred dollars ($300.00) for the services.

IV. REQUEST FOR SERVICES:

A department requiring Title Company Services will follow the established and approved requisition and Purchase Order policies and procedures utilizing the company/companies, firm/firms awarded by Commissioner's Court for the provision of said services.

In the event a situation arises that requires an urgent timeline, a department (i.e. elected office, program or agency) may elect to use the awarded provider that commits (in a documented fashion, i.e. in writing or e-mail) to meet that timeframe.

V. INVOLUNTARY TERMINATION:

The qualified vendor/firm(s) awarded to perform work for the County under this RFP shall be deemed to be terminated upon occurrence of any of the following:

- The death of the vendor, if an individual, or the primary professional member, if a firm or entity;
- The suspension, revocation or cancellation of the vendor's right to practice this profession in the State of Texas;
- The imposition of any restriction or limitations by any Governmental authority having jurisdiction over the vendor to such an extent that the vendor cannot engage in the professional practice for which vendor is pre-qualified.
- The failure or refusal of the vendor to comply with the reasonable policies, standards and regulations are not contrary to any law or regulatory directive; or

- The conduct of the vendor in any unprofessional, unethical or fraudulent manner; a finding of unprofessional or unethical conduct by any board, institution, organization or professional society having any privilege or right to pass upon the conduct of the vendor, or conduct of the vendor which discredits Hidalgo County.

NUMBER OF COPIES TO BE SUBMITTED:
Hidalgo County requires **one (1) original submittal and seven (7) copies**.

PROPOSERS ARE TO PROVIDE A FEE SCHEDULE WITH THIS SUBMITTAL:
Proposer is to provide a fee proposal based on the scope of work and services.

SECTION III: SELECTION, EVALUATION AND AWARD

Hidalgo County Commissioner's Court may award to one or multiple vendors/firms/companies to provide the services detailed in this procurement if it is in it's best interest to do so.

EVALUATION (GRADING, SCORING) CRITERIA:

- **GRADING AND SCORING POINT SYSTEM:**

A. FIRM'S STAFFING AND EXPERIENCE – (20 POINTS)
B. FIRM'S CAPABILITY TO PERFORM ALL THE SERVICES REQUIRED FOR THE NOTED PROJECTS- (45 POINTS)
C. EXPERIENCE WITH POLITICAL SUBDIVISIONS/GOVERNMENT AGENCIES- (15 POINTS)
D. COST OF SERVICES REQUESTED HEREIN- (10 POINTS)
E. COST OF "OTHER SERVICES" PROPOSED – (10 POINTS)

TOTAL POSSIBLE POINTS = 100

PROPOSAL WITH QUALIFICATION SUBMITTED TO: An original and seven (7) copies of RFPs should be submitted to:

US Postal Mail address:	Physical Address:
Martha L. Salazar, CPPB, Purchasing Agent Hidalgo County Purchasing Department Administration Building 2812 S. Business Hwy. 281 Edinburg, Texas 78539	Martha L. Salazar, CPPB, Purchasing Agent Hidalgo County Purchasing Department Administration Building 2802 S. Business Hwy. 281 Edinburg, Texas 78539

RFPs must be submitted by **no later than 9:30 a.m. on Wednesday, October 9, 2013.**

EXHIBIT "B"

Fee Schedule

Valley Land Title Co.

ORIGINAL

612 Nolana, Suite 570
McAllen, Tx 78504
(956) 383-2708
Fax (956) 217-3190
www.rodriguezp@valleylandtitleco.com

October 8, 2013

Ms. Martha L. Salazar, Purchasing Agent
Hidalgo County Purchasing Department
Edinburg, Texas

Re: RFP#2013-152-10-09-CGA – "Title Company Services Pool" for Hidalgo County

Dear Ms. Salazar:

As the authorized point of contact for Valley Land Title Company, I am submitting the following information in response to your Request for Proposals for Hidalgo County "Title Company Services Pool".

History and Experience

Our company has operated in Edinburg and Hidalgo County since 1919. Our "Plant" contains real estate recordings history dating back to the establishment of Hidalgo County.

Our Examination Department is headed by Mr. Mario Garza who has over 33 years of examination history, all of them with our company. He is assisted by Mr. Danny Gonzalez, a 30 year veteran in the Examination Department. They lead an examining staff of seven. This group would provide title reports, title searches and title commitments to Hidalgo County.

Our Policy Department consists of five individuals lead by Ms. Carmen West, a 32 year veteran of the title company industry. They would be responsible for the final issuance of title policies.

We would dedicate our Closing Officers/Escrow Agents and their assistants that are located in our Edinburg office to fulfill the escrow agent services for Hidalgo County. Mrs. Patty Galindo is the Senior Escrow Officer with over 10 years of experience and she works with another escrow officer and two assistants. The typical charge for these services is $250.00. The completion of an escrow "closing" can vary depending on the number of curative items that are involved and their complexity; for example, probate issues, multiple ownership and numerous judgments and liens can require weeks to be cleared. We strive to complete a closing within two business days once curative items are resolved.

Mr. Jerry Canales is our legal counsel and has been associated with the company since 1987; between 1987 and the end of 2005, Mr. Canales was an owner of the company.

Mr. Alonzo Cantu is the company's current owner, having become a part-owner in 2003. Mr. Cantu has been a successful builder, developer and bank director in Hidalgo County for over 25 years.

I joined Valley Land Title Company as its Chief Executive Officer in March of 2006 after a 30 year career in the commercial banking industry.

Our company has been part of the Title Company Services-Pool for Hidalgo County since September of 2006. Our primary point of contact had been with Mr. Joe Pena, Director for the Hidalgo County Right of Way Department; currently we work with individual precincts and their right-of-way-personnel. We have also been part of the Title Company Services Pool for Hidalgo County Drainage District No. 1 since July of 2007, where Mr. Pena was also our point of contact; currently, our contact person is Jaime Salazar. In addition, since 2003 we were contracted to work with L& G Engineering (2100 W. Expressway 83, Mercedes, Texas 78570 (956)-565-9813. We provided Fernando Ramirez, Right -of-Way Acquisition Manager, with title commitment and policy services in connection with numerous Texas Department of Transportation projects that were funneled through Hidalgo County.

Delivery of Services

With the historical data and human resources at our disposal, we can produce a title report, title search or title commitment as quickly as any of our competitors in the title company business in Hidalgo County. Our experience tells us, however, that it is unreasonable and misleading to pledge to you that we can always provide these services in a certain number of days after an order is submitted. If the property involved has a "lot and block" legal description, it is reasonable to expect a title report/search/commitment within four business days. Properties that have less specific legal descriptions, on the other hand, can take over a week to complete.

Providing a final title policy on any property will be contingent on the number and complexity of items to be cleared from the various schedules required to be submitted with that policy. Properties that are relatively clear of pending items can have policies produced well within seven to ten days. In other cases, especially in dealing with more remote locations, it can take up to a month to properly produce a policy.

We appreciate the opportunity to submit this Request for Proposals and the pertinent schedules and declarations that are attached. I will be happy to entertain any questions or clarifications; please see the letterhead for information on how to contact me.

Very truly yours,

Paul R. Rodriguez, Chief Executive Officer

TEXAS

SCHEDULE OF BASIC PREMIUM RATES FOR TITLE INSURANCE

Effective May 1, 2013

Policies up to and including	Basic Premium	Policies up to and including	Basic Premium	Policies up to and including	Basic Premium	Policies up to and including	Basic Premium	Policies up to and including	Basic Premium
10,000	$238								
10,500	242	28,500	368	46,500	497	64,500	625	82,500	753
11,000	244	29,000	373	47,000	499	65,000	628	83,000	757
11,500	248	29,500	376	47,500	503	65,500	631	83,500	759
12,000	252	30,000	380	48,000	508	66,000	635	84,000	762
12,500	255	30,500	383	48,500	512	66,500	640	84,500	767
13,000	260	31,000	387	49,000	515	67,000	644	85,000	770
13,500	264	31,500	390	49,500	518	67,500	645	85,500	773
14,000	267	32,000	393	50,000	522	68,000	649	86,000	776
14,500	270	32,500	398	50,500	525	68,500	653	86,500	781
15,000	272	33,000	401	51,000	527	69,000	656	87,000	785
15,500	276	33,500	405	51,500	531	69,500	659	87,500	788
16,000	280	34,000	408	52,000	536	70,000	664	88,000	791
16,500	284	34,500	412	52,500	540	70,500	668	88,500	795
17,000	288	35,000	415	53,000	543	71,000	672	89,000	799
17,500	292	35,500	419	53,500	547	71,500	674	89,500	801
18,000	296	36,000	422	54,000	550	72,000	677	90,000	804
18,500	298	36,500	426	54,500	553	72,500	681	90,500	809
19,000	301	37,000	429	55,000	556	73,000	685	91,000	813
19,500	304	37,500	433	55,500	559	73,500	688	91,500	817
20,000	309	38,000	437	56,000	565	74,000	692	92,000	819
20,500	312	38,500	441	56,500	568	74,500	696	92,500	823
21,000	317	39,000	443	57,000	571	75,000	700	93,000	827
21,500	320	39,500	447	57,500	575	75,500	702	93,500	831
22,000	324	40,000	450	58,000	579	76,000	706	94,000	832
22,500	327	40,500	455	58,500	581	76,500	709	94,500	837
23,000	330	41,000	457	59,000	585	77,000	713	95,000	842
23,500	333	41,500	462	59,500	589	77,500	716	95,500	845
24,000	337	42,000	465	60,000	593	78,000	720	96,000	847
24,500	340	42,500	469	60,500	597	78,500	725	96,500	851
25,000	345	43,000	471	61,000	600	79,000	729	97,000	855
25,500	348	43,500	475	61,500	603	79,500	730	97,500	859
26,000	352	44,000	479	62,000	607	80,000	734	98,000	862
26,500	355	44,500	483	62,500	611	80,500	738	98,500	866
27,000	358	45,000	487	63,000	613	81,000	742	99,000	870
27,500	361	45,500	490	63,500	617	81,500	744	99,500	873
28,000	365	46,000	493	64,000	621	82,000	748	100,000	875
101,000	881	130,000	1,041	159,000	1,202	188,000	1,363	217,000	1,523
102,000	886	131,000	1,047	160,000	1,207	189,000	1,368	218,000	1,529
103,000	892	132,000	1,052	161,000	1,213	190,000	1,374	219,000	1,534
104,000	897	133,000	1,058	162,000	1,218	191,000	1,379	220,000	1,540
105,000	903	134,000	1,063	163,000	1,224	192,000	1,385	300,000	1,983
106,000	908	135,000	1,069	164,000	1,230	193,000	1,390	400,000	2,537
107,000	914	136,000	1,074	165,000	1,235	194,000	1,396	500,000	3,091
108,000	919	137,000	1,080	166,000	1,241	195,000	1,401	600,000	3,645
109,000	925	138,000	1,086	167,000	1,246	196,000	1,407	700,000	4,199
110,000	930	139,000	1,091	168,000	1,252	197,000	1,412	800,000	4,753
111,000	936	140,000	1,097	169,000	1,257	198,000	1,418	900,000	5,307
112,000	941	141,000	1,102	170,000	1,263	199,000	1,423	1,000,000	5,861
113,000	947	142,000	1,108	171,000	1,268	200,000	1,429	2,000,000	10,421
114,000	953	143,000	1,113	172,000	1,274	201,000	1,435	3,000,000	14,981
115,000	958	144,000	1,119	173,000	1,279	202,000	1,440	4,000,000	19,541
116,000	964	145,000	1,124	174,000	1,285	203,000	1,446	5,000,000	24,101
117,000	969	146,000	1,130	175,000	1,291	204,000	1,451	6,000,000	27,861
118,000	975	147,000	1,135	176,000	1,296	205,000	1,457	7,000,000	31,621
119,000	980	148,000	1,141	177,000	1,302	206,000	1,462	8,000,000	35,381
120,000	986	149,000	1,146	178,000	1,307	207,000	1,468	9,000,000	39,141
121,000	991	150,000	1,152	179,000	1,313	208,000	1,473	10,000,000	42,901
122,000	997	151,000	1,158	180,000	1,318	209,000	1,479	11,000,000	46,661
123,000	1,002	152,000	1,163	181,000	1,324	210,000	1,484	12,000,000	50,421
124,000	1,008	153,000	1,169	182,000	1,329	211,000	1,490	13,000,000	54,181
125,000	1,014	154,000	1,174	183,000	1,335	212,000	1,495	14,000,000	57,941
126,000	1,019	155,000	1,180	184,000	1,340	213,000	1,501	15,000,000	61,701
127,000	1,025	156,000	1,185	185,000	1,346	214,000	1,507	20,000,000	75,051
128,000	1,030	157,000	1,191	186,000	1,351	215,000	1,512	25,000,000	88,401
129,000	1,036	158,000	1,196	187,000	1,357	216,000	1,518	30,000,000	96,401

Rates in Texas are set by the Texas Department of Insurance. For More Information, go to TDI's Website: www.tdi.texas.gov/title/index.html

Great care has been taken to make these tables correct though there is no warranty of complete accuracy

5/1/2013

EXHIBIT "C"

Insurance Certificate

VALL-03 OP ID: CP

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 10/08/13

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Shepard Walton King Ins. Group 121 W. Pecan McAllen, TX 78501 R. Raul Cabaza, III 956-682-2841 956-630-4015	CONTACT NAME: Cris Palacios PHONE (A/C, No, Ext): 956-682-2841 FAX (A/C, No): 956-630-4015 E-MAIL ADDRESS: cpalacios@swkins.com
INSURED Valley Land Title Company, Ltd @ Water Tower Centre 612 Nolana, Suite 570 McAllen, TX 78504	INSURER(S) AFFORDING COVERAGE — NAIC # INSURER A : The Travelers Ins. Co. — 40282 INSURER B : Allstate Insurance Co. INSURER C : Commerce & Industry Insurance INSURER D : Texas Mutual Insurance Co. — 22945 INSURER E : INSURER F :

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS		
A	GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS-MADE X OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY PRO-JECT LOC			PACP8237B467TLC	01/16/13	01/16/14	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ $ $ $ $ $	1,000,000 300,000 5,000 1,000,000 2,000,000 2,000,000
B	AUTOMOBILE LIABILITY X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS			648558606	01/14/13	01/14/14	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ $ $ $	1,000,000
C	X UMBRELLA LIAB X OCCUR EXCESS LIAB CLAIMS-MADE DED X RETENTION $ 0			BE066696886	01/16/13	01/16/14	EACH OCCURRENCE AGGREGATE	$ $	1,000,000 1,000,000
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		SBP0001165219	01/16/13	01/16/14	X WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ $ $	1,000,000 1,000,000 1,000,000
A	Crime Policy			105689952	09/29/13	09/29/14	EMP.THEFT		1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
Buildings or premises - offices/Title Company

CERTIFICATE HOLDER

HIDCOPD

County of Hidalgo
Purchasing Department
100 E Cano, 5th Floor
Edinburg, TX 78539

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Raul Cabaza III

© 1988-2010 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

Client#: 42652 VALLLAND

ACORD™

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 02/11/2013

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Arthur J. Gallagher Risk Mgmt Services, Inc. 377 Oak Street Garden City, NY 11530-0601	CONTACT NAME: PHONE (A/C, No, Ext): 516 745-0800 FAX (A/C, No): 516-745-0082 E-MAIL ADDRESS:
INSURED Valley Land Title Company, Ltd. 612 Nolana; Suite 570 Mcallen, TX 78504	INSURER(S) AFFORDING COVERAGE — NAIC # INSURER A : Underwriters at Lloyds,London — 15792 INSURER B : INSURER C : INSURER D : INSURER E : INSURER F :

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	GENERAL LIABILITY						EACH OCCURRENCE	$
	☐ COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence)	$
	☐ CLAIMS-MADE ☐ OCCUR						MED EXP (Any one person)	$
							PERSONAL & ADV INJURY	$
							GENERAL AGGREGATE	$
	GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS - COMP/OP AGG	$
	☐ POLICY ☐ PRO-JECT ☐ LOC							$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	☐ ANY AUTO						BODILY INJURY (Per person)	$
	☐ ALL OWNED AUTOS ☐ SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	☐ HIRED AUTOS ☐ NON-OWNED AUTOS						PROPERTY DAMAGE (Per accident)	$
								$
	☐ UMBRELLA LIAB ☐ OCCUR						EACH OCCURRENCE	$
	☐ EXCESS LIAB ☐ CLAIMS-MADE						AGGREGATE	$
	☐ DED ☐ RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N						☐ WC STATU-TORY LIMITS ☐ OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? ☐ N / A						E.L. EACH ACCIDENT	$
	(Mandatory in NH)						E.L. DISEASE - EA EMPLOYEE	$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - POLICY LIMIT	$
A	Errors & Omissions			SUAFEO1092	02/15/2013	02/15/2014	$1,000,000 Each Claim $1,000,000 Aggregate $50,000 Deductible	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER

Evidence of Insurance

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

H Christensen

© 1988-2010 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

DR1

THE STATE OF TEXAS §
§
COUNTY OF HIDALGO §

PROFESSIONAL SERVICES CONTRACT

C-13-152-11-19

THIS AGREEMENT is made effective the **19th of November, 2013**, by and between the **County of Hidalgo, Texas** ("County") and **Sierra Title of Hidalgo County, Inc.** ("Company").

W I T N E S S E T H:

WHEREAS, the County requires services for: **Title Policy Related Services** located within **Hidalgo County;** and

WHEREAS, the County of Hidalgo solicited Request for Proposals (RFP) for the development and establishment of a yearly pool for "Title Companies Services", and

WHEREAS, from which "Title Company provider/firm(s)" has been selected from the "Pool" of pre-qualified Title Companies Services from response to the Request for Proposals (RFP), and

WHEREAS, County has determined that the services of "Title Companies Services" are sometimes necessary to carry out the required report activities; and

WHEREAS, the County has selected the provider/firm to provide title companies services within the County of Hidalgo, Texas through its procured approved pool of Title Companies Services.

NOW, THEREFORE, in consideration of the mutual covenants and agreements herein contained, County and Title Company Provider/Firm do mutually agree as follows:

1. Scope of Services. Title Company provider/firm agrees to provide to County the services shown in Exhibit "A" attached hereto and entitled "Services to be Provided by the provider/firm". Provider/Firm selected is to have adequate experience and a workload free from constraints to complete said services within the requested time provided by the user department. **The Title Company Provider/Firm will not begin work or incur costs until authorization of a**

Purchase Order (PO) in writing by the County for each work order.

Further, in the event that a Title Commitment is requested and no title policy is necessary or purchased, Hidalgo County will pay a maximum of three hundred dollars ($300.00) for the services. Also, if it is demonstrated by Title Company Provider/Firm that Hidalgo County has caused or delayed thus preventing the Title Company Provider/Firm from meeting the specified agreed upon deadline to provided the services ordered, Title Company Provider/Firm must advise in written notice to the Purchasing Department or requesting department(s) to authorize and to secure additional time to comply.

2. Term. Contract will be for one (1) year period commencing **November 28, 2013 thru November 27, 2014**, with the County's sole discretion to extend the contract for an additional one (1) year based on prior year's performance evaluation and contingent upon cost remaining unchanged. Hidalgo County reserves the right to continue this proposal for an additional sixty (60) day "grace period" at the end of the contract term for unforeseen delay of award for next term and contingent upon cost remaining unchanged.

3. Compensation. As consideration for rendering the Services provided for in this Contract, the County agrees to pay the Title Company Provider/Firm the amounts specified in Exhibit "B" attached hereto payable against written invoice submitted by Title Company Provider/Firm. The Title Company Provider/Firm is authorized to submit periodic requests for payment within thirty days after completion of each work order. The request for payment shall be made using forms acceptable to the County and shall show the total amount earned to the date of submission and the amount due and payable as of the date of the current billing. Upon receipt of said request for payment, County shall submit a requisition for payment of said services in the customary manner provided for payments utilized by Hidalgo County, Texas. Title Company Provider/Firm agrees to separately account for the receipt and/or expenditure of funds received pursuant to this Contract and to keep adequate books and records of all such receipts and/or expenditures. All payments to Title Company Provider/Firm shall be mailed to the address shown in numbered paragraph 21, hereof.

4. Progress. Upon acceptance of a work order, the Title Company Provider/Firm shall undertake and complete the authorized work. The County or the Title Company Provider/Firm can request conferences to be provided at the Title Company Provider/Firm's office, the office of the County, or at other agreed upon locations.

5. Inspection of Work. The County has the right at all reasonable times to inspect or otherwise evaluate the work performed or being performed hereunder. All evaluations shall be performed in such a manner as will not unduly delay the work.

6. Amendments. If it becomes necessary at any time during the contract period to change the scope of work, the contract period, the maximum amount payable, the complexity, or the character of this contract, an amendment must be prepared and executed within the contract period. The County retains the right to reject any such amendment proposed by the Title Company Provider/Firm unless the County finds the proposed amendment necessary to complete the work authorized herein. Any such amendments be made in writing agreed to by all parties hereto and duly executed before the end of the contract period as specified.

If the County finds it necessary to require changes in completed work because of errors made by the Title Company Provider/Firm, the County shall require the Title Company Provider/Firm to correct the work at no cost to the County and without amendment to the contract. If the changes are made at the request of the County and are not due to errors of the Title Company Provider/Firm, the County will reimburse the Title Company Provider/Firm for the additional work at the same rate of pay established in Exhibit "B", "Basis for Payment". If payment for the additional work will cause the maximum amount payable to be exceeded, an amendment shall be executed in accordance with the terms of this provision.

7. Reporting. The Title Company Provider/Firm shall promptly advise the County in writing of events which have a significant impact upon the contract, including:

7.1. Problems, delays, or adverse conditions which will materially affect the ability to meet time schedules and goals, or preclude the attainment of project work units by established time periods. This disclosure shall be accompanied by a statement of the action taken, or contemplated, and any County or, if Federal funds are involved,

Federal assistance needed to resolve the situation.

7.2. Favorable developments or events which enable meeting time schedules and goals sooner than anticipated or producing more work units than originally projected.

8. Ownership of Documents. Upon completion or termination of this contract, all documents furnished to the County by the Title Company Provider/Firm or furnished to the Title Provider/Firm by the County shall be delivered to and become the property of the County. The Title Company Provider/Firm may, at its own expense, have copies made of the documents or any other data furnished the County under this contract.

9. Independent Contractor. Title Company Provider/Firm must comply with all applicable Hidalgo County policies and with any applicable federal, state or local laws, regulations, orders or ordinances applicable to the services provided by Title Company Provider/Firm under this Contract. Notwithstanding the foregoing sentence, Title Company Provider/Firm represents and maintains that it is an independent contractor and is not an employee of Hidalgo County, Texas, or any agency thereof, and represents and warrants that it does not desire or request any fringe benefits provided to employees of Hidalgo County, Texas, and/or any agency thereof, including, but not limited to benefits associated with Hidalgo County's civil service program. Title Company Provider/Firm agrees to be responsible for any federal income tax, withholding or social security tax liability that might arise from payments received hereunder.

10. Voluntary Termination. Title Company Provider/Firm and County agree that any contract award to a successful bidder will be in effect until (a) the contract expires, (b) delivery and acceptance of products, and/or performance of services ordered, or (c) this contract is terminated without cause by County with thirty (30) days written notice to the Title Company Provider/Firm.

11. Insurance. Title Company Provider/Firm agrees to provide liability insurance covering its activities in providing the services for County in an amount not less than the minimum amounts prescribed by the Texas Tort Claims Act, ' 100.001, et seq., Texas Civil Practices and Remedies Code, and shall furnish department a Certificate of Insurance (Exhibit “C”), issued by the insurer that such insurance is in full force and effect.

12. No Assignment. Except as otherwise herein provided, Title Company Provider/Firm, may not assign the obligations or rights under this contract to any person without the prior written consent of County.

13. Termination Date: INTENTIONALLY DELETED

14. Conflict. Nothing in this Contract shall be construed so as to require the commission of any act contrary to law, and whenever there is any conflict between any provision of this Contract and any present or future law, ordinance or administrative, executive or judicial regulation, order or decree, or amendment thereof, contrary to which the parties have no legal right to contract, the latter shall prevail, but in such event the affected provision or provisions of this Contract shall be modified only to the extent necessary to bring them within the legal requirements and only during the time such conflict exists.

15. Termination by County. If Title Company Provider/Firm fails to deliver quality service, fails to achieve the defined goals, outcomes, strategies and outputs set by County, or if Title Company Provider/Firm fails to comply with any conditions in this Contract, then County shall have the right to terminate this Contract upon the giving of ten (10) days prior written notice to Title Company Provider/Firm.

16. No Waiver. No waiver by County of any breach of any provision of this Contract shall be deemed to be a waiver of any preceding or succeeding breach of the same or any other provision hereof.

17. Entire Agreement. This Contract contains the entire agreement between the parties hereto, and each party acknowledges that neither has made (either directly or through any agent or representative) any representations or agreements in connection with this Contract not specifically set forth herein. This Contract may be modified or amended only by agreement in writing executed by County and Title Company Provider/Firm, and not otherwise.

18. Venue. This Contract shall be construed under and in accordance with the laws of the State of Texas, and all obligations of the parties created hereunder are performable in Hidalgo County, Texas. The parties hereby consent to personal jurisdiction in Hidalgo County, Texas.

19. Hold Harmless. In the event Title Company Provider/Firm should cause, either directly or indirectly, damage, loss, destruction, liability, or claims against the other party as a result of intentional conduct, negligence or otherwise, Title Company Provider/Firm shall hold harmless and indemnify County from any and all obligations, liabilities, causes of action, lawsuits, damages, and assessments, including legal fees, etc., that result from the Title Company Provider/Firm's intentional actions or negligence. This indemnification clause shall survive this Contract and be enforceable as a separate agreement in the event its survival and enforcement becomes necessary.

20. Attorney's Fees. In the unlikely event that a dispute occurs which is litigated or arbitrated, or a cause of action in law or equity is filed concerning the operation, construction, interpretation, or enforcement of this Contract, the losing party shall bear the cost of the attorney's fees incurred by the prevailing party and any and all costs applicable thereto, including, but not limited to, court costs, deposition fees, expert witness fees, out-of-pocket expenses and travel expenses which are incurred by the prevailing party.

21. Notices. Except as may be otherwise specifically provided in this Contract, all notices, demands, requests or communications required or permitted hereunder shall be in writing and shall either be (i) personally delivered against a written receipt, or (ii) sent by registered or certified mail, return receipt requested, postage prepaid and addressed to the parties at the addresses set forth below, or at such other addresses as may have been theretofore specified by written notice delivered in accordance herewith:

If to County:	County of Hidalgo Attention: County Judge 302 W. University Drive Edinburg, Texas 78539
If to Title Company Provider/Firm:	Sierra Title of Hidalgo County Inc. Attn: John R. King, CEO 3401 N. 10th McAllen, Texas 78501

Each notice, demand, request or communication which shall be delivered or mailed in the manner described above shall be deemed sufficiently given for all purposes at such time as it is personally delivered to the addressee or, if mailed, at such time as it is deposited in the Unites States mail.

22. Execution of Documents. The parties hereto covenant and agree that they will execute such other and further instruments and documents as are or may become necessary or convenient to effectuate and carry out the terms of this Contract.

. **23. Binding Contract.** This Contract shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, executors, administrators, legal representatives, successors, and assigns where permitted by this contract.

24. Gender. All pronouns used in this Contract shall include the other gender, whether used in the masculine, feminine or neuter gender, and the singular shall include the plural whenever and as often as may be appropriate

25. Authority. The execution and performance of this Contract by County and Title Company Provider/Firm have been duly authorized by all necessary laws, resolutions or corporate action, and this Contract constitutes the valid and enforceable obligations of County and Title Company Provider/Firm in accordance with its terms.

26. Commitment of Current Revenues Only. In the event that, during any term hereof, the Commissioners Court does not appropriate sufficient funds to meet the obligations of County under this Agreement, County may terminate this Agreement upon ten (10) days written notice to Contractor. County agrees, however, to use reasonable efforts to secure funds necessary for the continuing right to terminate this Agreement at the expiration of each budget period of County pursuant to the provisions of Tex. Loc. Govt. Code Ann.§ 271.903 (Vernon Supp. 1995).

EXECUTED as of the day and year first written above.

COUNTY OF HIDALGO, TEXAS

By:_____
Ramon Garcia, County Judge

ATTEST:

_____
Arturo Guajardo, Jr., County Clerk

TITLE COMPANY PROVIDER/FIRM:

NAME: SIERRA TITLE OF HIDALGO COUNTY INC.

By: _____

Printed Name:_____

Title:_____

Approved on Commissioners' Court:_____ 2013.

APPROVED AS TO FORM:
ATLAS, HALL & RODRIGUEZ, L.L.P.

BY:_____

EXHIBIT "A"

Services to be provided by Title Company Provider/Firm

EXHIBIT A

REQUIREMENTS

HIDALGO COUNTY

REQUEST FOR PROPOSAL

"TITLE COMPANY SERVICES POOL"

RFP NO: 2013-152-10-09CGA

**(NIGP CODES: 968-66-Title Services ROW;
946-46-Title & Escrow Services)**

Hidalgo County is requesting sealed proposals from qualified and interested title companies in order to establish a pre-qualified pool of providers for "**Title Company Services Pool**" for the purposes of providing and rendering title policy related services on an **"As Needed/Non Exclusive Basis"** per project by all County Departments and/or applicable programs requiring said services as set forth in the requirements. Upon approval and acceptance by Hidalgo County Commissioner's Court, the term of the pre-qualified pool of **"Title Company Services Pool" will be for a period of one (1) year period commencing November 28, 2013**, with the County's sole discretion to extend the contract for an additional one (1) year under the same rates/fees, terms and conditions. Hidalgo County reserves the right to continue this bid for an additional sixty (60) day grace period at the end of the contract for unforeseen delay in the award of new bid for the next contract term.

Sealed proposals with qualifications will be accepted until **9:30 A.M., Wednesday, October 09, 2013. ANY RFP RECEIVED AFTER THAT DATE AND TIME WILL NOT BE ACCEPTED AND WILL BE RETURNED UNOPENED.**

Deliver Submittal to:
RFP NO: 2013-152-10-09CGA

US Postal Mail address:
Martha L. Salazar, CPPB, Purchasing Agent
Hidalgo County Purchasing Department
Administration Building
2812 S. Business Hwy. 281
Edinburg, Texas 78539

Physical Address:
Martha L. Salazar, CPPB, Purchasing Agent
Hidalgo County Purchasing Department
Administration Building
2802 S. Business Hwy. 281
Edinburg, Texas 78539

The Submittal Envelope Must Show the RFP Number, Name and Acceptance Date.
The following outlines the Request for Proposal/Qualifications:

SECTION I GENERAL TERMS AND CONDITIONS

ADDITIONAL INFORMATION:
Hidalgo County requires that "Request for Proposals" be routed to Martha L. Salazar, CPPB, Purchasing Agent, at:

US Postal Mail address:
Martha L. Salazar, CPPB, Purchasing Agent
Hidalgo County Purchasing Department
Administration Building
2812 S. Business Hwy. 281
Edinburg, Texas 78539

Physical Address:
Martha L. Salazar, CPPB, Purchasing Agent
Hidalgo County Purchasing Department
Administration Building
2802 S. Business Hwy. 281
Edinburg, Texas 78539

WRITTEN QUESTIONS WILL BE ACCEPTED VIA FACSIMIL NO LATER THAN WEDNESDAY, October 2, 2013, 5:00 P.M. at (956) 292-7612, and/or BY EMAIL AT: cris.ayala@co.hidalgo.tx.us . RESPONSES WILL BE SENT TO ALL APPLICANTS VIA FACSIMILE BY FRIDAY, October 4, 2013. TELEPHONE INQUIRIES WILL NOT BE ACCEPTED.

All costs and expenses associated with the preparation and submission of (bids, proposals, and/or quotes) shall be the responsibility of the bidder/proposer and not reimbursements for such charges or expenses shall be passed onto Hidalgo County.

DISCLOSURE OF CONFLICT OF INTEREST:
Effective January 1, 2006, Chapter 176 of the Texas Local Government Code requires that any vendor, person, consultant or contractor considering doing business with Hidalgo County ("the County") to disclose in the Conflict of Interest Questionnaire (the "CIQ") attached as **Exhibit D**, the vendor, person consultant or contractor's affiliation or business relationship that might cause a conflict of interest with the County. By law, the CIQ must be filed with the Hidalgo County Clerk's Office no later than the seventh business day after the date the person becomes aware of facts that require that statement to be filed. The disclosure requirement applies to a person or business who contract or seeks to contract with Hidalgo County for the sale or purchase of property, goods or service. Any purchase order or contract resulting from this process shall be considered null and void if the successful bidder fails to comply with Texas Local Government Code Chapter 176. Vendors, consultants, contractors and others who desire to conduct business with Hidalgo County are encouraged to refer to Texas Local Government Code Chapter 176 for the details of this law. An offense under Texas Local Government Code Chapter 176 is a Class C Misdemeanor.

Please submit complete CIQ forms to the Hidalgo County Clerk's Office located at 100 No. Closner, Edinburg, Texas 78539-Hidalgo County Courthouse **COMPLETION AND SUBMISSION OF FORM CIQ IS THE SOLE RESPONSIBILITY OF THE PROSPECTIVE BIDDER.**

PROPOSER'S AFFIDAVIT:
Prior Contract award, respondents to this RFP must submit a signed Proposer's Affidavit (attached herein in **Exhibit E**) certainly that the submission is (1) not the result of Collusion as described in the Proposer's Affidavit, (2) that the Respondent does not have a Conflict of Interest as described in the Proposer's, affidavit or that the Respondent has not and will not attempt to lobby directly or indirectly as described in the Proposer's Affidavit.

NON-DISCRIMINATION:
Submitters, during the performance of this contract, will not discriminate against any employee or applicant for employment because of race, religion, sex, national origin or disability except where religion, sex, national origin or disability is a bona fide occupational qualification reasonably necessary to the normal operation of the contractor.

PROCESSING TIME FOR PAYMENT:
Submitters are advised that a minimum of thirty (30) days is required to process invoices for payment.

ELECTRONIC TRANSMISSION OF PROPOSALS:
Hidalgo County's Purchasing Department will not accept telegraphic or electronically transmitted submissions.

PROOF OF FINANCIAL AND BUSINESS CAPABILITY:
Submitters must, upon request, furnish satisfactory evidence of their ability to furnish products or services in accordance with the terms and conditions of these requirements. Hidalgo County will make the final determination as to the submitter's ability.

SUBMITTER DEFAULT:
Hidalgo County reserves the right, in case of submitter default, to procure the articles or services from other sources and hold the defaulting submitter responsible for any excess costs occasioned thereby.

RESTRICTIVE OR AMBIGUOUS REQUIREMENTS:
It is the responsibility of the submitter to review the Request for Proposal w/qualifications (RFP) packet and to notify the Purchasing Department if the requirements are formulated in a manner that would unnecessarily restrict competition. Any such protest or question regarding the requirements or bidding procedures must be received in the Purchasing Department not less than seventy-two hours prior to the time set for the opening. These criteria also apply to requirements that are ambiguous.

HAND DELIVERED PROPOSALS W/QUALIFICATIONS:
Hidalgo County requires submitters, when hand delivering the RFP, to make sure that it is stamped with date and time by the County Purchasing staff.

SIGNING OF PROPOSALS W/QUALIFICATIONS:
In order to be considered all submittals **must** be signed. **Please sign the original in blue ink.**

WAIVING OF INFORMALITIES:
Hidalgo County reserves the right to waive minor informalities or technicalities when it is in the best interest of Hidalgo County.

SUBCONTRACTING: The successful submitter may not subcontract the award without the written consent of the Commissioners' Court of Hidalgo County.

TERM OF CONTRACT:
Upon approval and acceptance by Hidalgo County Commissioner's Court, the term of the pre-qualified pool of "Title Company Services" will be for a period of one (1) year period commencing November 28, 2013, with the County's sole discretion to extend the contract for an additional one (1) year under the same rates/fees, terms and conditions.

Hidalgo County reserves the right to continue this bid/pool for an additional sixty (60) day grace period at the end of the contract for unforeseen delay in the award of new bid for the next contract term.

DAVIS BACON ACT: (IF APPLICABLE)
All selected and awarded firms are required to include the Davis-Bacon Act when advertising and developing specifications.

SECTION II RFP REQUIREMENTS

REQUEST FOR PROPOSAL:

The required contents and limitations for the preparation of the RFP are described in this section. Failure to provide the requested information or adhere to any County limitations will result in disqualification of the submitted RFP. A total of **one (1) original and seven (7) copies** of the RFP shall be submitted to the address on the cover letter.

PURPOSE:

Hidalgo County is requesting sealed proposals w/qualifications from certified, licensed and interested title companies in order to establish a pre-qualified pool of providers for "**Title Company Services Pool**" for the purposes of providing and rendering title policy related services on an **"As Needed/Non-Exclusive/Purchase Order Basis"** per project for title company related services on an **"As Needed/Non-Exclusive/Purchase Order Basis"** to all Hidalgo County Elected Offices, Departments, Programs, Agencies through their funding sources.

CONTENTS:

The required contents for the RFP are presented below in the order they should be incorporated into the submitted document.

QUALIFICATIONS-REQUIREMENTS-SCOPE OF SERVICES:

I. MINIMUM FIRM QUALIFICATIONS:

(a) The firm must possess a current license from the Texas Board of Insurance
(b) The firm or vendor selected is to have adequate experience and staff, such as, but not limited to:
- Title Examiners
- Closing Officers
- Escrow Agents

(c) The provider should have experience with State (i.e. TxDOT), County and other governmental entities as well as private sector firms.

II. REQUIREMENTS:

Each proposal must address, but may not be limited, to the following issues:

(a) Firm Name;
(b) Name, position, phone and fax number of Point of Contact (POC);
(c) Name of Principal/Owner and number of years in business;
(d) Provide the number of staff members available in order to render (but not limited to) all the services described and listed herein;
(e) List three (3) governmental projects with names, addresses and phone number of representatives who can be contacted for references;
(f) Detail how your firm/company has the capability to deliver the services required on a timely basis;
- State in how many (business) days your company can return a "Title Report"

after a request (i.e. "Purchase Order") is received by your firm.

- State your firm's/company's timeline (business days) to issue a "Title Commitment(s)".
- Provide a copy of "Texas Title Insurance Premium Rates".
- State how many business days your company can complete "Escrow Agent" services (if requested by County) and include the applicable rates for those services.
- State how many personnel or staff will be assigned and committed to render the services required.
- State in detail what "other services" are not included in the rates provided.

III. SCOPE OF TITLE COMPANY SERVICES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

(a) Title Reports
(b) Title Searches, (i.e., Title Certificates)
(c) Title Commitments
(d) Title Policy*
(e) Escrow Agent Services when requested by the County

NOTE: * In the event that a Title Commitment is requested and no title policy is necessary or purchased, Hidalgo County will pay a maximum of three hundred dollars ($300.00) for the services.

IV. REQUEST FOR SERVICES:

A department requiring Title Company Services will follow the established and approved requisition and Purchase Order policies and procedures utilizing the company/companies, firm/firms awarded by Commissioner's Court for the provision of said services.

In the event a situation arises that requires an urgent timeline, a department (i.e. elected office, program or agency) may elect to use the awarded provider that commits (in a documented fashion, i.e. in writing or e-mail) to meet that timeframe.

V. INVOLUNTARY TERMINATION:

The qualified vendor/firm(s) awarded to perform work for the County under this RFP shall be deemed to be terminated upon occurrence of any of the following:

- The death of the vendor, if an individual, or the primary professional member, if a firm or entity;
- The suspension, revocation or cancellation of the vendor's right to practice this profession in the State of Texas;
- The imposition of any restriction or limitations by any Governmental authority having jurisdiction over the vendor to such an extent that the vendor cannot engage in the professional practice for which vendor is pre-qualified.
- The failure or refusal of the vendor to comply with the reasonable policies, standards and regulations are not contrary to any law or regulatory directive; or

- The conduct of the vendor in any unprofessional, unethical or fraudulent manner; a finding of unprofessional or unethical conduct by any board, institution, organization or professional society having any privilege or right to pass upon the conduct of the vendor, or conduct of the vendor which discredits Hidalgo County.

NUMBER OF COPIES TO BE SUBMITTED:
Hidalgo County requires **one (1) original submittal and seven (7) copies**.

PROPOSERS ARE TO PROVIDE A FEE SCHEDULE WITH THIS SUBMITTAL:
Proposer is to provide a fee proposal based on the scope of work and services.

SECTION III: SELECTION, EVALUATION AND AWARD

Hidalgo County Commissioner's Court may award to one or multiple vendors/firms/companies to provide the services detailed in this procurement if it is in it's best interest to do so.

EVALUATION (GRADING, SCORING) CRITERIA:

- **GRADING AND SCORING POINT SYSTEM:**

A. FIRM'S STAFFING AND EXPERIENCE – (20 POINTS)
B. FIRM'S CAPABILITY TO PERFORM ALL THE SERVICES REQUIRED FOR THE NOTED PROJECTS- (45 POINTS)
C. EXPERIENCE WITH POLITICAL SUBDIVISIONS/GOVERNMENT AGENCIES- (15 POINTS)
D. COST OF SERVICES REQUESTED HEREIN- (10 POINTS)
E. COST OF "OTHER SERVICES" PROPOSED – (10 POINTS)

TOTAL POSSIBLE POINTS = 100

PROPOSAL WITH QUALIFICATION SUBMITTED TO: An original and seven (7) copies of RFPs should be submitted to:

US Postal Mail address:	Physical Address:
Martha L. Salazar, CPPB, Purchasing Agent Hidalgo County Purchasing Department Administration Building 2812 S. Business Hwy. 281 Edinburg, Texas 78539	Martha L. Salazar, CPPB, Purchasing Agent Hidalgo County Purchasing Department Administration Building 2802 S. Business Hwy. 281 Edinburg, Texas 78539

RFPs must be submitted by **no later than 9:30 a.m. on Wednesday, October 9, 2013.**

EXHIBIT "B"

Fee Schedule

EXHIBIT "A"
REQUIREMENTS

(A) Sierra Title of Hidalgo County, Inc.
(B) Matt Wilson V.P. Escrow (956) 682-8321 F (956) 429-0127
(C) John King – 42 years
(D) 36
(E) See attached list
(F) COMPANY'S CAPABILITY TO DIVER SERVICES

- Two to three days
- Two to three days
- Premium Rate Sheet attached
- One to two days (provided no curative work is needed)
- Escrow, Recording, and tax service

TEXAS TITLE INSURANCE BASIC PREMIUM RATES

Rates Effective May 1, 2013

Policies Up To And Including	Basic Premium	Policies Up To And Including	Basic Premium	Policies Up To And Including	Basic Premium	Policies Up To And Including	Basic Premium
$10,000	$238	$32,500	$398	$55,000	$556	$77,500	$716
10,500	$242	33,000	$401	55,500	$559	78,000	$720
11,000	$244	33,500	$405	56,000	$565	78,500	$725
11,500	$248	34,000	$408	56,500	$568	79,000	$729
12,000	$252	34,500	$412	57,000	$571	79,500	$730
12,500	$255	35,000	$415	57,500	$575	80,000	$734
13,000	$260	35,500	$419	58,000	$579	80,500	$738
13,500	$264	36,000	$422	58,500	$581	81,000	$742
14,000	$267	36,500	$426	59,000	$585	81,500	$744
14,500	$270	37,000	$429	59,500	$589	82,000	$748
15,000	$272	37,500	$433	60,000	$593	82,500	$753
15,500	$276	38,000	$437	60,500	$597	83,000	$757
16,000	$280	38,500	$441	61,000	$600	83,500	$759
16,500	$284	39,000	$443	61,500	$603	84,000	$762
17,000	$288	39,500	$447	62,000	$607	84,500	$767
17,500	$292	40,000	$450	62,500	$611	85,000	$770
18,000	$296	40,500	$455	63,000	$613	85,500	$773
18,500	$298	41,000	$457	63,500	$617	86,000	$776
19,000	$301	41,500	$462	64,000	$621	86,500	$781
19,500	$304	42,000	$465	64,500	$625	87,000	$785
20,000	$309	42,500	$469	65,000	$628	87,500	$788
20,500	$312	43,000	$471	65,500	$631	88,000	$791
21,000	$317	43,500	$475	66,000	$635	88,500	$795
21,500	$320	44,000	$479	66,500	$640	89,000	$799
22,000	$324	44,500	$483	67,000	$644	89,500	$801
22,500	$327	45,000	$487	67,500	$645	90,000	$804
23,000	$330	45,500	$490	68,000	$649	90,500	$809
23,500	$333	46,000	$493	68,500	$653	91,000	$813
24,000	$337	46,500	$497	69,000	$656	91,500	$817
24,500	$340	47,000	$499	69,500	$659	92,000	$819
25,000	$345	47,500	$503	70,000	$664	92,500	$823
25,500	$348	48,000	$508	70,500	$668	93,000	$827
26,000	$352	48,500	$512	71,000	$672	93,500	$831
26,500	$355	49,000	$515	71,500	$674	94,000	$832
27,000	$358	49,500	$518	72,000	$677	94,500	$837
27,500	$361	50,000	$522	72,500	$681	95,000	$842
28,000	$365	50,500	$525	73,000	$685	95,500	$845
28,500	$368	51,000	$527	73,500	$688	96,000	$847
29,000	$373	51,500	$531	74,000	$692	96,500	$851

Policies Up To And Including	Basic Premium	Policies Up To And Including	Basic Premium	Policies Up To And Including	Basic Premium	Policies Up To And Including	Basic Premium
29,500	$376	52,000	$536	74,500	$696	97,000	$855
30,000	$380	52,500	$540	75,000	$700	97,500	$859
30,500	$383	53,000	$543	75,500	$702	98,000	$862
31,000	$387	53,500	$547	76,000	$706	98,500	$866
31,500	$390	54,000	$550	76,500	$709	99,000	$870
32,000	$393	54,500	$553	77,000	$713	99,500	$873
						100,000	$875

Title Basic Premium Calculation for Policies in Excess of $100,000

Using the table below, apply these steps to determine basic premium for policies above $100,000:

Step 1 In column (1), find the range that includes the policy's face value.
Step 2 Subtract the value in column (2) from the policy's face value.
Step 3 Multiply the result in Step 2 by the value in column (3), and round to the nearest dollar.
Step 4 Add the value in column (4) to the result of the value from Step 3.

(See examples provided following the table.)

(1) Policy Range	(2) Subtract	(3) Multiply by	(4) Add
[$100,001 - $1,000,000]	100,000	0.00554	$ 875
[$1,000,001 - $5,000,000]	1,000,000	0.00456	$ 5,861
[$5,000,001 - $15,000,000]	5,000,000	0.00376	$ 24,101
[$15,000,001 - $25,000,000]	15,000,000	0.00267	$ 61,701
[Greater than $25,000,000]	25,000,000	0.00160	$ 88,401

EXHIBIT "C"

Insurance Certificate

Miscellaneous Professional Liability Insurance Policy

Liberty Surplus Insurance Corporation
Member of Liberty Mutual Group

LIBERTY SURPLUS INSURANCE CORPORATION

(A New Hampshire Stock Insurance Company, hereinafter the "Company")
175 Berkeley Street, Boston, MA 02116
Toll-free number: 1-800-677-9163

NOTICE: THIS IS A CLAIMS-MADE AND REPORTED POLICY. COVERAGE APPLIES TO CLAIMS THAT ARE FIRST MADE AGAINST YOU DURING A POLICY YEAR WITHIN THE POLICY PERIOD, AND FIRST REPORTED TO US WITHIN THAT POLICY YEAR, OR WITHIN SIXTY (60) DAYS AFTER EXPIRATION OR TERMINATION OF THIS POLICY FOR A WRONGFUL ACT COMMITTED ON OR AFTER THE RETROACTIVE DATE, IF APPLICABLE, AND BEFORE THE END OF THE POLICY YEAR. PLEASE READ THE POLICY CAREFULLY.

Company Liberty Surplus Insurance Corporation

Producer AmWINS Brokerage of Texas Inc.
5910 North Central Expressway,
Suite 500
Dallas, TX 75206

Policy No. EO5NAAQVUX001

Renewal of NEW

DECLARATIONS

Item 1. Named Insured and Mailing Address:

Sierra Title Group
Sierra Title of Hidalgo County Inc.
Metro Title Company Inc. dba Sierra Title of Cameron and Willacy Counties
Sierra Title Company Inc.
Sierra Title of New Mexico Inc.
Great Western Abstract and Title Company, LLC

3409 North 10th St.
McAllen, TX 78501

Item 2. Policy Period:

October 29, 2012 to October 29, 2013
(at 12:01 A.M. local time at the address of the Named Insured as stated in Item 1 above)

Item 3. Limits of Liability (inclusive of Claims Expenses):

A. $1,000,000 Each Claim
B. $1,000,000 Policy Period Aggregate

Item 4. Deductible (inclusive of Claims Expenses):

$100,000 Each Claim

This policy may be subject to surplus lines taxes, stamping fees, surcharges, and certain surplus lines reporting requirements mandated by state regulation. The Surplus Lines Broker is responsible for the disclosure of all related taxes, surcharges, and fees. The Surplus Lines Broker is also responsible for the applicable surplus lines reporting requirements including but not limited to the submission of diligent search forms.

Zimbra **cris.ayala@co.hidalgo.tx.us**

Fwd: Contract for Title Company Services Pool

From : Martha Salazar <martha.salazar@co.hidalgo.tx.us> Wed, Nov 13, 2013 01:48 PM
Subject : Fwd: Contract for Title Company Services Pool
To : Cris Ayala <cris.ayala@co.hidalgo.tx.us>

HOOOORRRRAAAAAYYY!!!!!!!!!!

From: "Steve Crain" <scrain@atlashall.com>
To: "Martha Salazar" <martha.salazar@co.hidalgo.tx.us>
Sent: Wednesday, November 13, 2013 1:39:18 PM
Subject: RE: Contract for Title Company Services Pool

The draft contracts are fine.

From: Martha Salazar [mailto:martha.salazar@co.hidalgo.tx.us]
Sent: Wednesday, November 13, 2013 1:25 PM
To: Steve Crain
Subject: Fwd: Contract for Title Company Services Pool

Mr. Crain:
Changes made. Please review and comment as to form.
Thanks,
Marty

From: "Cris Ayala" <cris.ayala@co.hidalgo.tx.us>
To: "Martha Salazar" <martha.salazar@co.hidalgo.tx.us>
Sent: Wednesday, November 13, 2013 1:17:33 PM
Subject: Re: Contract for Title Company Services Pool

Ms. Marty,
Made changes as recommended. Please forward to legal.

Thank you,
Cris

From: "Martha Salazar" <martha.salazar@co.hidalgo.tx.us>
To: "Cris Ayala" <cris.ayala@co.hidalgo.tx.us>
Sent: Wednesday, November 13, 2013 12:08:27 PM
Subject: Fwd: Contract for Title Company Services Pool

EFFECTIVE: November 28, 2013 thru November 27, 2014

HIDALGO COUNTY PURCHASING DEPARTMENT
PROPOSAL ACCEPTANCE SHEET

DEPARTMENT NAME: HIDALGO COUNTY

PROPOSAL DUE DATE: October 9, 2013	**PROPOSAL OPENING TIME: 9:30 A.M.**

DESCRIPTION OF PROPOSAL: "TITLE COMPANY SERVICES –POOL"

RFP NO: 2013-152-10-09-CGA

RFP#	NAME OF COMPANY	ACKNOWLEDGMENT OF RECEIPT
#01	Valley Land Title Company	1 Original; 7 Copies
#02	Sierra Title Of Hidalgo County Inc.	1 Original; 7 Copies
#03		
#04		
#05		
#06		
#07		
#08		
#09		
#10		

AI-41828 **Purchasing Department 17. B. 1.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: Comm. J. Palacios, Pct. #4 **Submitted By:** Moises Salazar, PURCHASING DEPT.

Department: PURCHASING DEPT.

Information

CAPTION

Recommendation by project architect, Mata Garcia Architects, LLP, for Commissioners' Court to award the Base Bid with Alternates 1 and 3 to lowest bidder meeting all specifications, Couric Enterprises, LLC dba Foremost Construction in the total amount of $1,211,000.00 for the project: Hidalgo County Precinct No. 4 “Construction of a Community Resource Center in San Carlos" (Bid No. 2013-072A-11-06-MSS).

BACKGROUND

Fiscal Impact

FISCAL YEAR: 2013 **ACCT. #:** 3-1303-392-000-000-002-0-000

FUNDS AVAILABLE Y/N?: Y **MATCHING FUNDS Y/N?:** N

BUDGETARY IMPACT:

Funding available pending CC approval of AI-41848.

Attachments

Bid Tabulation

Pct 4 Award Recommendation

Architect's Award Recommendation

Participation List

Form Review

Inbox	Reviewed By	Date
Purchasing Department	Marty Salazar	11/15/2013 11:22 AM
Budget & Management	Obdett Calzada	11/15/2013 02:01 PM
Glinda Pacheco	Glinda Pacheco	11/15/2013 05:09 PM
Auditor's Office	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Moises Salazar Started On: 11/14/2013

Final Approval Date: 11/15/2013

County of Hidalgo: 2013-072A-11-06-MSS-Hidalgo County Precinct No. 4
"Construction of a Community Resource Center in San Carlos"
November 13, 2013 3:00 P.M. Hidalgo County Purchasing Department
Mata+Garcia Architects LLP

General Contractor	Bid Bond	Base Bid	Alternate No. 1	Alternate No. 2	Alternate No. 3	Total: Base Bid/Alt1/Alt3	Base Bid $ Square Ft.	Allow G.C.	Allow Sub	Contract Days	Work Days	Start / Notice	Adden -dums
			Generator	Asphalt Roof in Lieu/Metal	Rain Collect. System		Bid/Alt1/Alt2 $ Square Ft.						
Bougambilias Construction: Brownsville		No Bid											
Foremost Construction: Harlingen	X	$1,046.000.00	+$105,000.00	- $35,000.00	+$60,000.00	$1,211,000.00	$123.06 $142.47	10%	10%	200 Days	6	7	1, 2
HighMark Construction: McAllen	X	$1,090.000.00	+$100,000.00	-$30,000.00	+$70,000.00	$1,260,000.00	$128.24 $148.24	10%	8%	210 Days	5 to 6	10	1, 2
J-Con Construction: Mission	X	$1,235,000.00	+$108,000.00	-$32,000.00	+$75,000.00	$1,418,000.00	$145.29 $166.82	10%	10%	300 Days	5	15	1, 2
NM Contracting: McAllen	X	$1,130,000.00	+$ 87,000.00	-$17,000.00	+$59,000.00	$1,276,000.00	$132.94 $150.12	10%	5%	210 Days	6	14	1, 2
Peacock Construction: Harlingen	X	$1,234,000.00	+$100,000.00	-$45,000.00	+$64,000.00	$1,398,000.00	$145.18 $164.47	10%	10%	210 Days	5	10	1, 2
Scoggins Construction: Harlingen		No Bid											
SDM Construction & Development: Pharr		No Bid											
Tri-Gen Construction: Weslaco	X	$1,098,900.00	+$101,000.00	-$30,000.00	+$60,000.00	$1,259,900.00	$129.28 $148.12	10%	10%	180 Days	5	10	1, 2

Zimbra **moises.salazar@co.hidalgo.tx.us**

Re: Hidalgo County Pct. No. 4 - San Carlos Community Resource Center - Architect's Recommendation

From : Steven Cruz <steven.cruz@co.hidalgo.tx.us> Thu, Nov 14, 2013 10:13 AM

Subject : Re: Hidalgo County Pct. No. 4 - San Carlos Community Resource Center - Architect's Recommendation 2 attachments

To : Hector R. Garcia <hector@matagarcia-architects.com>

Cc : Maria Lucio <maria.lucio@co.hidalgo.tx.us>, Moises Salazar <moises.salazar@co.hidalgo.tx.us>, clopez@matagarcia-architects.com, Chris Collins <ccollins@matagarcia-architects.com>, Joseph Palacios <joseph.palacios@co.hidalgo.tx.us>, Marcos Lopez <marcos.lopez@co.hidalgo.tx.us>

As per Mr. Garcias recomendation we concur and would like to proceed with awarding the contract to Foremost Construction Company. We would also like to include the two alternates. Please place on the next agenda. Thank you and if you have any questions feel free to contact our office.

From: "Hector R. Garcia" <hector@matagarcia-architects.com>
To: "Steven Cruz" <steven.cruz@co.hidalgo.tx.us>, "Maria Lucio" <maria.lucio@co.hidalgo.tx.us>, "Moises Salazar" <moises.salazar@co.hidalgo.tx.us>
Cc: hector@matagarcia-architects.com, clopez@matagarcia-architects.com, "Chris Collins" <ccollins@matagarcia-architects.com>
Sent: Thursday, November 14, 2013 9:49:50 AM
Subject: Hidalgo County Pct. No. 4 - San Carlos Community Resource Center - Architect's Recommendation

Steve / Lulu:

We enclose our recommendation letter for the awarding of the contract to Foremost Construction Company along with a completed tabulation sheet. If there is anything else you need to present this to Commissioner's Court let us know and we will forward the information.

Thanks!
Hector

Hector Rene Garcia
Architect / Partner
1314 West Ivy Avenue
McAllen, Texas 75801
T. 956.631.1945
F. 956.631.1968
C. 956.373.5519

image001.gif
570 B

image004.jpg
2 KB

Mata + Garcia Architects LLP

Unexpected Solutions | Unmatched Service | Unforgettable Experience

Mr. Steven Cruz, Director of Operations
Ms. Maria Lucio, Program Manager
Hidalgo County Precinct 4
1051 North Doolittle Road
Edinburg, Texas 78542

County of Hidalgo: 2013-072A-11-06-MSS-Hidalgo County Precinct No. 4 - Construction of a Community Resource Center in San Carlos

November 14, 2013

Mr. Cruz / Ms. Lucio:

We recommend that the San Carlos Community Resource Center project contract be offered to Foremost Construction of Harlingen, Texas in the amount of $1,211,000.00. The amount includes the base bid ($1,046,000.00), Alternate No. 1 (Emergency Generator $105,000.00) and Alternate No. 3 (Rainwater Harvesting System $60,000.00). We ask that Alternate No. 2 (Asphalt Shingle Roof in lieu of a Metal Roof) not be accepted. Once approved by commissioner's court, we can commence the negotiation phase with Foremost Construction.

We enclose a completed bid tabulation sheet with all of bids offered. Depending on the negotiation/project kick-off timeline, if Foremost is awarded the project and construction were to start January 1, 2014, we are looking at moving into the facility August 1, 2014.

We look forward to working with you and everyone at Precinct 4 to see this project completed.

Thanks,

Hector Rene Garcia
Architect / Partner

1314 Ivy Avenue, McAllen, Texas 78501 * Tel: 956.631.1945 * Fax: 956.631.1968
hector@matagarcia-architects.com

Zimbra **moises.salazar@co.hidalgo.tx.us**

Hidalgo County Pct. 4 - San Carlos Community Resource Center - List of Plan Holders as of October 28, 2013, 4:00 p.m.

From : Hector R. Garcia <hector@matagarcia-architects.com> Mon, Oct 28, 2013 04:12 PM

Subject : Hidalgo County Pct. 4 - San Carlos Community Resource Center - List of Plan Holders as of October 28, 2013, 4:00 p.m. 1 attachment

To : 'Moises Salazar' <moises.salazar@co.hidalgo.tx.us>, 'Steven Cruz' <steven.cruz@co.hidalgo.tx.us>, 'Maria Lucio' <maria.lucio@co.hidalgo.tx.us>

Cc : hector@matagarcia-architects.com

List of Plan Holders:

- Peacock Construction (General Contractor), Harlingen, Texas. Tel: 956.423.6733 Fax: 956.425.5683
- Tri-Gen Construction (General Contractor), Weslaco, Texas. Tel: 956.447.1048 Fax: 956.447.2003

o FSG (Electrical Sub-contractor), Harlingen/Austin, Texas. Tel: 512.440.7985

- Highmark Construction (General Contractor), McAllen, Texas. Tel: 956.451.3274 Fax: 956.664.2359
- Bougambilias Construction (General Contractor), Brownsville, Texas. Tel: 856.561.1875 Fax: 956.541.1925
- NM Contracting (General Contractor), McAllen, Texas. Tel: 956.631.5667 Fax: 956.627.3959

Ø Eberle Materials (Site work Sub-contractor), Donna, Texas. Tel: 956.461.3478 Fax: 956.461.3479

§ Garcia Paint Group (Painting Sub-contractor), McAllen Texas. Tel: 956.562.8472

o Koepke, Inc. (Electrical Sub-contractor), Mission, Texas. Tel: 956.585.7834 Fax: 956.581.0057

Ø Dos Logistics Inc. (Site work Sub-contractor), Weslaco, Texas. Tel: 956.968.8800 Fax: 956.447.8199

vFaries Plumbing (Plumbing Sub-contractor), Edinburg, Texas. Tel: 956.383.3221

- J-Con (General Contractor), Palmview, Texas. Tel: 956.227.3215 Fax: 956.581.8892
- Foremost Construction (General Contractor), Harlingen, Texas. Tel: 956.241.0694 Fax: 956.428.6123

image001.gif
570 B

AI-41793 **Purchasing Department 17. B. 2.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: Comm. Joseph Palacios, Pct. #4 **Submitted By:** Letty Saenz, PURCHASING DEPT.

Department: PURCHASING DEPT.

Information

CAPTION

A. Requesting approval of **"Clarification"** to caption a), b) & c) under **AI-41735 (approved by CC 11/12/13)**, to reflect for the purposes of negotiating a **"Professional ENGINEERING Services"** agreement and NOT "Surveying Services" for **JOB SPECIFIC PROJECT: FM 1925 (FM 907 - EAST OF SH 68)** within **HIDALGO COUNTY PRECINCT No. 4.**

B. Acceptance and approval of **Work Authorization No. 1** in the amount of (**$ 9,803.44**) submitted by L&G ENGINEERING LABORATORY contracted engineering firm for "professional laboratory services" or (On Call) "Construction Materials Testing" for projects located within Hidalgo County Precinct #4, under Contract# C-13-220-08-13 - **PROJECT: (CONSTRUCTION MATERIAL TESTING SERVICES FOR THE EMERGENCY SERVICES LINN-SAN MANUEL PROJECT).**

C. Requesting approval of the final negotiated professional services agreement# **C-13-281-11-19** with **LAZCAMREA, LLC** d/b/a **FULCRUM CONSULTING SERVICES** for the purposes of "Professional Engineering Services" for **JOB SPECIFIC PROJECT: WAREHOUSE FACILITY** at Hidalgo County Precinct No. 4.;

D. Acceptance and approval of **WORK AUTHORIZATION No. 1** in the amount of **($ 1,068.00)** submitted by **LAZCAMREA**, **LLC** d/b/a **FULCRUM CONSULTING SERVICES** contracted engineering firm for professional engineering services in connection to Contract# C-13-281-11-19 for JOB SPECIFIC PROJECT: WAREHOUSE FACILITY at Hidalgo County Precinct No. 4.

BACKGROUND

Approved AI-41735 by CC on 11/12/13 & (approved score grid)
WA#1 - C-13-220-08-13 - L&G Engineering "on call" Geo Tech Svcs (Linn-San Manuel Project)

Fiscal Impact

FISCAL YEAR: 2013 **ACCT. #:** 3-1200-431-00-124-007-0-XXX

FUNDS AVAILABLE Y/N?: **MATCHING FUNDS Y/N?:**

BUDGETARY IMPACT:

Funding will be identified by Pct

Available balance as of 11-15-13 for the following object codes (Possible funding sources):

334 $ 2,000.00
731 $46,768.19

890 $ 8,239.19

FISCAL YEAR: 2013 **ACCT. #:** 3-1301-419-40-124-136-0-720

FUNDS AVAILABLE Y/N?: Y **MATCHING FUNDS Y/N?:**

BUDGETARY IMPACT:

Amount available for requisition# 246989 as of 11-15-13 $9,803.44 for L&G Eng.

FISCAL YEAR: 2013 **ACCT. #:** 3-1342-419-40-124-126-0-720

FUNDS AVAILABLE Y/N?: **MATCHING FUNDS Y/N?:**

BUDGETARY IMPACT:

Available balance as of 11-15-13 $54,451.54

Attachments

AI-41735(apprved by CC on 11/12/13)
Score Grid
WA#1 - C-13-220-08-13- L&G Eng (On Call-GeoTech) Linn-San Manuel Proj
Contract Document-LAZCAMREA dba FULCRUM CONS SVCS-Wrehse Facillity-Pct4
legal
map

Form Review

Inbox	Reviewed By	Date
Purchasing Department	Marty Salazar	11/15/2013 02:43 PM
Budget & Management	Obdett Calzada	11/15/2013 02:52 PM
Manuel Chapa	Manuel Chapa	11/15/2013 04:54 PM
Auditor's Office	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Letty Saenz Started On: 11/13/2013 10:42 AM

Final Approval Date: 11/15/2013

APPROVED

AI-41735 **Purchasing Department** **19. C. 3.**
CC REGULAR
Meeting Date: 11/12/2013

Submitted For: Martha L. Salazar **Submitted By:** Letty Saenz, PURCHASING DEPT.
Department: PURCHASING DEPT.

Information

CAPTION

A. Requesting exemption from competitive bidding requirements under the Texas Local Government Code, Section 262.024 (A) (4) a professional surveying services.

(to REFLECT PROFESSIONAL ENGINEERING SERVIES)

B. Presentation of scoring grid (for the purpose of ranking by CC) of the firms graded and evaluated through the County's approved "pool" of professional surveying services for Project: **FM 1925 (FM 907 - East of SH 68)** within **Hidalgo County Precinct No. 4.**

Firm	L & G Engineering	R. Gutierrez Engineering Corp	Innovative Civil Eng Svcs, Ltd.
Evaluator	98	95	94
Ranking			

C. Authority for the Purchasing Department to negotiate a professional surveying services contract with the No. 1 ranked firm of L&G ENGINEERING for Project: **FM 1925 (FM 907 - East of SH 68)** within **Hidalgo County Precinct No. 4.**

BACKGROUND

Fiscal Impact

FISCAL YEAR: 2013 **ACCT. #:** 3-1200-431-00-124-007-0-XXX
FUNDS AVAILABLE Y/N?: **MATCHING FUNDS Y/N?:**
BUDGETARY IMPACT:
Funding will be identified by Pct

Available balance as of 11-8-13 for the following object codes (Possible funding sources):

334 $ 2,000.00
731 $49,174.19
890 $ 8,239.19

Attachments

Score Grid

Form Review

Inbox	Reviewed By	Date
Purchasing Department	Darlene Betancourt	11/08/2013 01:28 PM
Budget & Management	Debbie Tamez	11/08/2013 01:41 PM
Manuel Chapa	Manuel Chapa	11/08/2013 03:51 PM
Auditor's Office	Monica Badillo	11/08/2013 05:08 PM

Form Started By: Letty Saenz Started On: 11/08/2013 08:43 AM

Final Approval Date: 11/08/2013

HIDALGO COUNTY PRECINCT NO 4
FOR
Professional Engineering Services
for
FM 1925 (FM 907 – EAST OF SH 68)
located in Pct 4

Scoring & Evaluation GRID

Engineering Services

Total Scores	L & G Engineering	R. Gutierrez Engineering	Innovative Civil Engineering Services, Ltd.
Evaluator 1	98	95	94
RANKING			

Scoring & Evaluation was completed by Pct No 4 Staff

HIDALGO COUNTY

Professional Engineering Services
Contract # C-13-220-08-13
Work Authorization Form

WORK AUTHORIZATION NO. 1

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of Section I.A. of the Agreement made by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner's Court**, hereinafter called the "**Owner**," and, **L&G ENGINEERING LABORATORY, LLC** professional engineers of Texas, hereinafter called "**Engineer**".

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the **Engineer** to provide **Geotechnical Engineering Services for the Emergency Services Facility - San Manuel/Linn Project located in Hidalgo County Precinct No. Four (4)**

The scope of services to be provided by the **Owner** is identified in ***EXHIBIT "A" – Scope of Services to be Provided by the Owner*** attached hereto.

The scope of services to be provided by the **Engineer** is identified in ***EXHIBIT "B" – Scope of Services to be Provided by the Engineer*** attached hereto.

PART 2. ESTIMATED COST

The estimated cost for services under this Work Authorization is **$9,803.44**. This amount is based upon the costs outlined in the Estimated **Cost Proposal** attached hereto as **EXHIBIT "D".**

PART 3. PAYMENT

Compensation and payment to the Engineer for the services established under this Work Authorization shall be made in accordance with Article/Part/Section 5.1 of the Agreement.

PART 4. FUNDING

This Work Authorization No. **1** shall be funded through funding source:
Account No. **3-1301-419-40-124-136-0-720**
Requisition Number **246989** **(MUST BE INCLUDED AFTER CC APPROVAL)**

PART 5. PERIOD OF SERVICE

This Work Authorization shall become effective on the date of final acceptance of the parties hereto, and terminate upon completion of scopes of the work authorization or (DATE).

PART 6. RESPONSIBILITIES AND OBLIGATIONS
This Authorization does not waive the parties' responsibilities and obligations provided under the **Agreement**.

PART 7. ACKNOWLEDGEMENT AND CONFIRMATION
Acknowledgement and confirmation by Hidalgo County Precinct No. 4 Commissioner Joseph Palacios as to content and detail of this Work Authorization No. **# 1**.

HIDALGO COUNTY
COMMISSIONER PRECINCT NO. 4:

BY:_____

PART 8. ACCEPTANCE AND APPROVAL
This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on_____, 2013 as indicated below and effective as of the ____day of _____, 2013.

THE ENGINEER:
L&G ENGINEERING LABORATORY, LLC

By: Jacinto Garza, P.E.

THE OWNER:
HIDALGO COUNTY

Hon. Ramon Garcia, County Judge

ATTEST:

Arturo Guajardo Jr., County Clerk

LIST OF ATTACHMENTS

ATTACHMENT "A" -	Service to be provided by the Owner
ATTACHMENT "B" -	Services to be provided by the Engineer
ATTACHMENT "C" -	Work Schedule
ATTACHMENT "D" -	Cost Proposal

ATTACHMENT "A"

Scope of Services (Owner)

PROJECT: **Emergency Services Facility - San Manuel/Linn Project in Hidalgo County Precinct No. Four (4)**

SERVICES TO BE PROVIDED BY OWNER

The County of Hidalgo will provide **L&G Engineering Laboratory, LLC** with **Documents, Plans and Specifications** for the **Emergency Services Facility - San Manuel/Linn Project in Precinct No. 4 Project.**

ATTACHMENT "B"
Scope of Services

PROJECT: **Geotechnical Engineering Services for the Emergency Services Facility - San Manuel/Linn Project in Hidalgo County Pct. No. 4.**

GENERAL SCOPE OF WORK

The Scope of Work will entail providing **The County of Hidalgo** with **Geotechnical Engineering Services.**

The Scope of Work is identified as follows:

- ***Geotechnical Engineering Services***

L&G Engineering will furnish all equipment, materials, supplies, and incidentals as needed to perform the services required by this Contract: The work is as follows:

Geotechnical Engineering Services

Geotechnical Drilling Services

L&G Engineering will provide drilling services for **Hidalgo County Pct. No. 4**. Soil samples will be removed from the sample apparatus during drilling operations. One of our geologists or engineering technicians will conduct various field tests on the recovered samples, visually classify the samples, and record the appropriate data on a field boring log. The samples will be appropriately packaged to minimize loss of their natural moisture content and to reduce the possibility of damage during transportation to our soils laboratory for testing. The tests performed on these samples will include Moisture Content, Liquid Limit, Plastic Limit, Plasticity Index and Materials Finer that No. 200. Unconfined Compressive Strength and Dry Unit Weight tests will be performed as necessary to provide detailed description of undisturbed samples.

Drilling services will also include a 24-hour water level reading at each boring location. Piezometers, when required, will be installed to maintain the integrity of the borehole overnight or over a weekend. Following completion of drilling, sampling, and subsurface water monitoring operations, all boreholes will be backfilled with soil cuttings from the completed borings. If enough soil cuttings are unavailable, clean sand will be used to backfill the completed boreholes. If a piezometer is installed, the pipe will be removed following the water level readings and the borehole backfilled as described above.

Once all of the Engineering Properties of the soils have been determined, the final Log of Boring is created using the field and laboratory data. Included in the Log of Boring are THD Penetrometer Blow Counts, actual Moisture Contents, Plasticity Indices, and other laboratory test data obtained during the laboratory testing phase of the project. Proper description and location of strata, ground water elevations and test hole elevations will also be included in the Log of Boring.

Engineering Services

Engineering analyses will be conducted after reviewing the results of both the field and laboratory phases of the study. The findings and conclusions derived from the analyses will be presented in a written engineering report which will be prepared by the engineer. The report will include a boring location plan, boring logs with laboratory classification of recovered soil samples and subsurface water conditions encountered. The report will provide engineering recommendations for:

- Pier capacity curves; and
- Soil parameters that may be used in designing the foundations for the planned structures.

The geotechnical report will provide general comments and applicable recommendations regarding construction methods, sequences, and potential difficulties that may arise during overall construction as it relates to the soil and foundation aspects of this project. This information may serve to guide foundation selection and design and assist in the preparation of specifications for the project.

This contract **does not** include activities and corresponding costs that may be associated with the following:

- Providing an ATV mounted drill rig, dozer or special equipment to clear areas of vegetation and debris or to re-grade the site to gain access to the boring locations;
- Re-grading the site or portions of the site after drilling activities are completed;
- Site safety meetings that may be required; or
- Encountering hazardous or contaminated soils or substances during our field activities.

Hidalgo County Pct. No. 4 will be notified should these services become necessary for the completion of field exploration activities.

This proposal **does** include activities and corresponding costs that may be associated with locating buried utilities or pipelines as follows:

- Providing PVC pipe for water level readings; and
- Clearing the boring locations for underground utilities.

Hidalgo County Pct. No. 4 will be responsible for obtaining any necessary permits or authorization to egress areas where the borings are to be drilled.

Schedule

Based on the requested services, it is estimated that the drilling operations can take approximately two (2) to three (3) days to complete. We anticipate that drilling operations can usually begin within two (2) to three (3) days following notice to proceed, staking of the borings, clearing the boring locations of utilities and site and weather conditions permitting. The report and engineering analyses should generally be completed within two (2) weeks after completion of the drilling operations.

ATTACHMENT "C"
Work Schedule

PROJECT: **Geotechnical Engineering Services for the Emergency Services Facility - San Manuel/Linn Project in Hidalgo County Pct. No. 4.**

Work Schedule

L&G Engineering Laboratory will provide **Hidalgo County Pct. # 4** with **Geotechnical Engineering Services** as outlined in **Contract Agreement C-13-220-08-13.**

ATTACHMENT "D"

Cost Proposal

PROJECT: **Geotechnical Engineering Services for the Emergency Services Facility - San Manuel/Linn Project in Hidalgo County Pct. No. 4.**

See Attached

Attachment D
Geotechnical Field and Laboratory Services
Emergency Services Facility - San Manuel/Linn Project
Prepared for Hidalgo County Pct. No. 4

	SERVICES		UNITS	UNITS	UNIT COST	TOTAL COST
I.	**Project Management / Review/Report**					
	A. Engineer (Principal) (Senior Project Manager)		Hours	3	$ 154.76	$ 464.28
	B. Engineer (Principal)(Geotechnical)		Hours	6	$ 154.76	$ 928.56
	C. EIT/Engineer in Training-(Bear. Cap/PVR/Found. Capacity)		Hours	20	$ 116.01	$ 2,320.20
II.	**Utility Clearances / Boring Locates**					
	A. Technician/Soils (Logger) (Locate Borings)(Util Clr)		Hours	3	$ 46.44	$ 139.32
			LS			
			Cost			
			Mile			
	B. Mileage (Logger)(Soil Tech)		Mile	50	$ 0.51	$ 25.50
III.	**Field Exploration**					
A	Mobilization/Demobilization					
	1. Mobilization (Drill Rig and Crew)		Daily	1	$ 430.82	$ 430.82
B	Field Exploration					
	1. Soil Boring/Solid Stem (w SPT)		Feet	35	$ 30.17	$ 1,055.95
	Soil Boring/Mud Rotary (w SPT)		Feet	35	$ 30.17	$ 1,055.95
	2. Texas Cone Penetration Tests		Ea.			$ -
	3. Technician (Soils)(Logger)		Hour	8	$ 46.44	$ 371.52
	4. Technician (Soils)(Logger)24 Hr. Water Level Observations		Hour	3	$ 46.44	$ 139.32
	5. Piezometers		Each			
	6. Vehicle Charge (Support Truck)		Mile	50	$ 1.61	$ 80.50
	7. Mileage (Logger)(Soil Tech)		Mile	100	$ 0.51	$ 51.00
C						
IV	**Engineering Data Analysis / Report**					
	1. Engineering Specialist (Soil Classification)		Hours	4	$ 116.01	$ 464.04
	2. Engineering Specialist (Boring Logs)		Hours	4	$ 116.01	$ 464.04
	3. Moisture Content		Ea.	20	$ 10.30	$ 206.00
	4. Atterberg Limits of Soils		Ea.	12	$ 77.33	$ 927.96
	5. Finer #200 Sieve		Ea.	10	$ 53.85	$ 538.50
	6. Unconfined Compression Testing		Ea.	1	$ 48.48	$ 48.48
	7. Admin/Clerical/Report Reproduction		Hr.	2	$ 45.75	$ 91.50
	Project Total					$ 9,803.44

THE STATE OF TEXAS §
§
COUNTY OF HIDALGO §

AGREEMENT FOR PROFESSIONAL SERVICES
C-13-281-11-19

THIS AGREEMENT is made, by and between **HIDALGO COUNTY**, acting herein by and through the **Commissioners Court**, hereinafter called the "**Owner**", and **LAZCAMREA, LLC** d/b/a **FULCRUM CONSULTING SERVICES,** Professional Engineers of **LA FERIA, TEXAS**, hereinafter called the "**Engineer**".

WITNESSETH:

WHEREAS, the **Owner** desires to contract with the **Engineer** to provide professional engineering services for "**JOB SPECIFIC" - WAREHOUSE FACILITY** located within **HIDALGO COUNTY PRECINCT NO. 4,** hereinafter referred to as the ("**Project**").

WHEREAS, the **Owner** has determined that the services of a professional engineering firm is necessary to carry out the required Services;

WHEREAS, pursuant to Texas Government Code Chapter 2254.002, (the "Texas Professional Services Procurement Act"), the **Owner** requested proposals from a professional engineer to assist the **Owner** by providing the Services;

WHEREAS, **Owner** has selected the **Engineer** to provide the Services within Hidalgo County Precinct No. 4, in accordance to **Exhibit "A-1"** Request for Qualifications (RFQ) Procurement Packet.

NOW, THEREFORE, the **Owner** and the **Engineer** in consideration of the mutual covenants and agreements herein contained do mutually agree as follows:

ARTICLE 1. Employment of Engineer. The **Owner** agrees to employ the **Engineer** and the **Engineer** agrees to perform professional engineering services in connection with the **Project** as stated in the articles to follow, and for having rendered such services, the owner agrees to pay **the Engineer** compensation as stated in the articles to follow.

ARTICLE 2. Character and Extent of Services. This Agreement will provide for the development of the **Project** with the following:

2.1 Scope of Work. The **Owner** will furnish items and provide those services for the development of the **Project** and fulfillment of this Agreement, as identified in **EXHIBIT "A"** ***Services to be Provided by the Owner***, attached hereto and made a part of this Agreement as

identified in **EXHIBIT "B"-** Services to Provided by the Engineer, attached hereto and made a part of this agreement.

2.2 Classification of Services For this Agreement, the professional services to be provided by the **Engineer**, as more particularly identified in **EXHIBIT "B"**, attached hereto.

2.3 Schedule of Work. The **Engineer** shall prepare a schedule of work (hereinafter referred to as "**Work Schedule"**) in accordance with the terms identified in **EXHIBIT "C"** - ***Work Schedule***, attached hereto and made a part of this Agreement. exchange for such services.

2.4 Non-Exclusive Services of Engineer Hidalgo County reserves the right to request these services from other sources other than the engineer and shall not be in violation of any terms or conditions of this Agreement.

ARTICLE 3. Period of Service. Upon execution of this Agreement, the **Engineer** shall proceed with the work outlined under Article 2 hereof.

3.1 Termination Date. This Agreement shall be for a period of **one (1) year,** commencing, **NOVEMBER 19, 2013,** expiring, **NOVEMBER 18, 2014;** (hereinafter referred to as the ("**Termination Date**"), unless extended by written supplemental agreement, as provided in Article 8 hereof, duly executed by the **Engineer** and the **Owner** prior to the **Termination Date**, or otherwise terminated as provided in Article 3.4 herein and below.. The **Owner** assumes no liability or obligation for payment to the **Engineer** for work performed or costs incurred by the **Engineer** prior to the date authorized by the **Owner** for the **Enginee**r to begin work, during periods when work is suspended, or subsequent to the **Termination Date.**

3.2 Extension of the Termination Date. The **Engineer** shall notify the **Owner** in writing as soon as possible if it is determined, or reasonably anticipated, that the work under this Agreement cannot be completed before the **Termination Date,** and the **Owner** may , at the **Owner's** sole discretion, extend the **Termination Date** by written supplemental agreement as provided in Article 8 hereof. The **Engineer** shall allow adequate time for review and approval by the **Owner** of the written notice and request by the **Engineer** to extend the **Termination Date.**

3.3 Suspension of Work. Should the **Owner** desire to suspend the work under this Agreement, but not terminate this Agreement, the **Owner** shall provide thirty (30) calendar days verbal notification to the **Engineer**, followed by written confirmation from the **Owner** to the **Engineer** to that effect. The thirty-day notice may be waived as agreed in writing by both the **Owner** and the **Engineer**. The work under this Agreement may be reinstated and resumed in full force and effect within sixty (60) days of receipt of written notice from the **Owner** to the **Engineer**. The sixty-

day notice may be waived as agreed in writing by both the **Owner** and the **Engineer.**

If the **Owner** suspends the work, the **Termination Date** as identified above is not affected, and this Agreement will terminate on the date specified, unless extended by written supplemental agreement, as provided in Article 8 hereof, duly executed by the **Engineer** and the **Owner** prior to the **Termination Date.**

3.4 Termination of Agreement. This Agreement may be terminated before the stated **Termination Date** identified in Article 3.1 herein by any of the following conditions:

(1) **Commitment of Current Revenues**. In the event that, during any term hereof, the **Owner** does not appropriate sufficient funds to meet to the obligations of this Agreement, the **Owner** may terminate this Agreement upon thirty (30) days written notice to the **Engineer.** The **Owner** agrees, however, to use reasonable efforts to secure funds necessary for the continued performance of this Agreement. The parties intend this provision to be a continuing right to terminate this Agreement at the expiration of each budget period of the **Owner** pursuant to the provisions of Tex. Loc. Govt. Code Ann. ' 271.903 (Vernon Supp. 1995).

(2) By mutual agreement and consent, in writing, of both the **Engineer** and the **Owner**.

(3) By the **Owner,** upon failure of the **Engineer** to fulfill the **Engineer's** obligations set forth herein in a satisfactory manner as determined by the **Owner** and in sole opinion of the **Owner**, after the **Owner** provides written notice to the **Engineer** of such failure and the **Engineer** has not corrected such failure within (30) days of such written notice by the **Owner.**

(4) By the **Engineer**, upon failure of the **Owner** to fulfill the **Owner's** obligations set forth herein, after the **Engineer** provides written notice to the **Owner** of such failure and the **Owner** has not corrected such failure within thirty (30) days of such written notice by the **Engineer.**

(5) By the **Owner** without cause upon thirty (30) days written notice to the **Engineer.**

(6) By satisfactory completion of all services and obligations described herein.

Should the **Owner** terminate this Agreement as herein provided, no fees other than fees due and payable at the time of termination shall thereafter be paid to the **Engineer** notwithstanding anything herein to the contrary. In determining the value of the work performed by the **Engineer** prior to termination, the **Owner** shall be the sole judge of the value of such work performed. Compensation for work at termination will be based on a percentage of the work completed at that time. Should the **Owner** terminate this Agreement under (5) of the paragraph above, the amount charged during the thirty (30) day notice period shall not exceed the amount charged during the

preceding ninety (90) days.

If the termination of this Agreement is due to the failure of the **Engineer** to fulfill the **Engineer's** obligations under this Agreement, the **Owner** may take over the Project and prosecute the work to completion. In such case, the **Engineer** shall be liable to the Owner for any additional cost occasioned by the Owner.

If the **Engineer** defaults in the performance of this Agreement or if the **Owner** terminates this Agreement for fault on the part of the **Engineer**, the **Owner** will give consideration to payment of an amount in settlement to include: the actual costs incurred by the **Engineer** in performing the work to the date of default, the amount of work required which was satisfactorily completed to date of default, the value of the work which is usable to the **Owner**, the cost to the **Owner** of employing another consultant and/or firm to complete the work required and the time required to do so, and other factors which affect the value to the

Owner of the work performed at the time of default. This Agreement shall not be considered as specifying the exclusive remedy for any default by the **Engineer,** but all remedies existing at law and in equity may be availed of by either party and shall be cumulative.

The termination of the Agreement and payment of an amount is settlement as prescribed above shall extinguish all rights, duties, and obligations of the **Owner** and the **Engineer** under this Agreement, except the obligations set forth in Articles 11.2, 12, 13, 15, 16, 17, 18.3, 19, 22 and 26 hereto.

ARTICLE 4. Progress and Coordination. The **Engineer** shall, from time to time during the progress of the work, confer with the **Owner**. The **Engineer** shall prepare and present such information as may be pertinent and necessary, or as may be requested by the **Owner**, in order to evaluate features of the **Engineer's** services and work.

At the request of the **Owner** or the **Engineer**, conferences shall be provided at the **Engineer's** office, the office of the **Owner,** or at other locations designated by the **Owner.** These conferences shall also include evaluation of the **Engineer's** services and work when requested by the **Owner.**

All applicable study reports shall be submitted in preliminary form for approval by the **Owner** before the final report is issued. The **Owner's** comments regarding the **Engineer's** preliminary report will be addressed by the **Engineer** in the final report.

If funds by other agencies or entities are to be used for the development of the project under this Agreement, the **Engineer's** services and work will be subject to periodic review and approval by other agencies or entities, including those of the city, county, state and/or federal agencies.

Should it be determined that the progress in the production of the **Engineer's** services and work does not satisfy the requirements of the approved **Work Schedule** as provided by **Exhibit "C",** attached hereto, the **Owner** shall review the approved **Work Schedule** with the **Engineer** to determine the corrective action needed by either the **Owner** or the **Engineer.**

The **Engineer** shall promptly advise the **Owner** in writing of events which have a significant impact upon the progress of the **Engineer's** services and work and the approved **Work Schedule**, including:

(1) problems, delays, adverse conditions which will materially affect the ability to attain contract objectives, prevent the meeting of time schedules and goals, or preclude the timely completion and submittal of **Project** deliverables by the **Engineer** within established time periods; this disclosure will be accompanied by a statement by the **Engineer** of recommended or immediate action taken, or contemplated, and any **Owner** or other agency or entity assistance needed to resolve the situation: and

(2) favorable developments or events which enable meeting the **Work Schedule** goals sooner than anticipated.

ARTICLE 5. Compensation and Fees. For and in consideration of the services to be rendered by the Engineer, the Owner shall compensate the Engineer as follows:

5.1 ***Services***. For and in consideration of the ***Services*** to be rendered by the **Engineer**, as identified in Article 2 and more particularly identified in **EXHIBIT "B"**, attached hereto, the maximum amount payable by the **Owner** to the **Engineer** for ***Services***, subject to adjustment in accordance with Article 6.1 herein, will be provided in each work authorization issued. An outline and breakdown of the **Services Fee** is more particularly identified in **EXHIBIT "D"-Engineer Contract Rates**, attached hereto and made a part of this Agreement. Payments to the **Engineer** for ***Services*** shall be made by the **Owner**, upon presentation by the **Engineer** of the monthly **Request for Payment**, in accordance with the terms and provisions of Article 6 herein.

5.2 ***Special Services***. Those services that may be required to provided by the **Engineer** as ***Special Services*** are set forth below and more particularly described in **EXHIBIT "B"**, attached hereto. For and in consideration of these ***Special Services*** rendered as required by the **Engineer,** the **Owner** shall pay the **Engineer** a negotiated lump sum fee (hereafter referred to as "**Special Services Fee**") at the hourly labor rates and non-labor rates (hereinafter referred to as "**Contract Rates**") specified in **EXHIBIT "D"** - ***Contract Rates***, attached hereto and made a part of this Agreement, and as follows:

I. RESIDENT OR SITE ENGINEER, INSPECTOR. Actual performance of services of project site engineer, resident engineer and/or inspector, if required by **Owner**.

2. DOCUMENT COPIES. Actual performance and/or providing of additional copies (over 10) of report; additional copies (over 10) of plans (contract drawings), specifications and
estimates (PS&E); additional copies (over 10) of bidding documents: additional copies (over 10) of as-built drawings.

3. EXTRA TRAVEL. Extra travel required of **Engineer** and authorized by **Owner** to points outside of Hidalgo County.

4. EXPERT WITNESS. Assistance to the **Owner** as expert witness in any litigation with third parties, arising from the development or construction of the **Project**.

5. MISCELLANEOUS. Investigations involving detailed consideration of operation, maintenance and overhead expenses and (unless otherwise agreed) the preparation of rate schedules, earning and expense statements; preparation of feasibility studies; environmental document preparation; appraisals, valuations, and material audits; or inventories required for certification of force account construction performed by the **Owner**; preparation of change orders for extra work done by the **Contractor.**

ARTICLE 6. Method of Payment.

6.1 Request for Payment. Payments to the **Enginee**r for services rendered will be made while work is in progress as executed through a lump sum fee assigned to each work authorization (hereinafter referred to as **"Work Authorization"**) in accordance with Article 7 herein. For each **Work Authorization,** the **Engineer** shall prepare and submit to the **Owner** monthly progress reports in sufficient detail to support the progress of the work and in support of a request for payment (hereinafter referred to as "**Request for Payment**"). The progress report shall indicate the percent completion of the work accomplished by the **Engineer** during the billing period and to the date of the **Request for Payment**. On or before noon of the first Monday of each month during the performance of the services, the **Engineer** shall submit to the **Owner** for approval a **Request for Payment**. Payment of the lump sum fee for each **Work Authorization** identified in the **Request for Payment** will be in proportion to the percent completion of the work tasks identified in such **Work Authorizations** together with a detailed breakdown of the amount and the sum of all prior payments. The **Owner** shall review each such **Request for Payment** and may make such exceptions as the **Owner** reasonably deems necessary or appropriate under the circumstances then existing. About ten (10) working days after the Commissioners Court of the **Owner** meets approving such payment, the **Owner** shall make payment to the **Engineer** in the amount approved as aforesaid subject to Article 6.4 herein and below.

If the **Project**, or any portion(s) thereof, are deleted or otherwise not constructed, compensation to the **Engineer** by the **Owner** for the **Project** or such portions of the project shall be only the amounts paid the **Engineer** for actual work performed in accordance with the **Work**

Authorization(s) approved by the **Owner.**

6.2 Final Payment. After final completion of the work and acceptance thereof by the **Owner,** the **Engineer** shall submit a final request for payment ("**Final Request for Payment**") which shall set forth all amounts due and remaining unpaid to the **Engineer** and upon approval thereof by the **Owner,** the **Owner** shall pay to the **Engineer** the amount due (**"Final Payment"**) under such **Final Request for Payment** in accordance with the provisions of Article 6.1, hereof. The **Final Payment** shall not be made until the **Engineer** delivers to the **Owner** an affidavit that so far as the **Engineer** has knowledge or information any and all amounts due for materials and services over which the **Engineer** has control have been paid.

6.3 Qualification on Obligations to Pay. Any provision hereof to the contrary notwithstanding, the **Owner** shall not be obligated to make any payment (whether a payment under Article 6.1 hereof or **Final Payment**) to the **Engineer** hereunder if any one or more of the following conditions precedent exist:

(1) The **Engineer** is in default of any of its obligations hereunder or otherwise is in default under this Agreement or under any contract documents related to this Agreement;

(2) Any part of such payment is attributable to the **Engineer's** services which are not performed in accordance with this Agreement; provided, however, such payment shall be made as to the part thereof attributable to the **Engineer's** services which were performed in accordance with this Agreement.

(3) The **Engineer** has failed to make payments promptly to consultants or other third parties used in connection with the **Project** for which the **Owner** has made payment to the **Engineer;**

(4) If the **Owner,** in good faith judgment, determines that the portion of the compensation then remaining unpaid will not be sufficient to complete the **Engineer's** services in accordance with this Agreement, no additional payments will be due the **Engineer** hereunder unless and until the **Engineer,** at its sole cost, performs a sufficient portion of the **Engineer's** services so that such portion of the compensation then remaining unpaid is determined by the **Owner** to be sufficient to so complete the **Engineer's** services.

6.4 No partial payment made hereunder shall be or construed to be final acceptance or approval of that part of the **Engineer's** services to which such partial payment related or relieves the **Engineer** of any of its obligations hereunder with respect thereto.

6.5 The **Engineer** shall promptly pay all bills for labor and material performed and furnished by others in connection with the performance of the **Engineer's** services.

6.6 Waiver. The making of the **Final Payment** shall constitute a waiver of all claims by

the **Owner** except those arising from (1) faulty or defective services of the **Engineer** appearing after completion of the **Project.** (2) failure of the **Engineer's** services to comply with the requirements of this Agreement or any contracts or Agreements related to the **Project**, or (3) terms of any special warranties required by this Agreement or provided at law or in equity. The acceptance of **Final Payment** shall constitute a waiver of all claims by the **Engineer** except those previously made in writing and identified by the **Engineer** as unsettled at the time of the **Final Request for Payment**.

ARTICLE 7. Work Authorization. After execution of this Agreement, the **Engineer** shall proceed with the work outlined under Article 2 hereof, only as authorized by the **Owner** through an agreed **Work Authorization** document in the form identified in **EXHIBIT "E"**- ***Work Authorization Form***, attached hereto and made a part of this Agreement. The **Engineer** will identify, as approved by the **Owner,** the needed services for the **Project,** as required through the course of the development to the **Project.** The **Owner** shall authorize the **Engineer** to perform one or more of the agreed tasks identified in **EXHIBIT "B",** attached hereto, in the form of individual work authorizations. Upon authorization from the **Owner,** the **Engineer** will prepare a **Work Authorization** document, which will include a description of the work to be performed, including a description of the tasks and milestones, a work schedule, and an estimated cost proposal agreed upon by the **Owner** and the **Engineer**. The estimated cost proposal shall set forth in detail the computation of the cost of each work task, at the hourly rates established and identified in **EXHIBIT "D",** attached hereto. The **Work Authorizations** shall not waive the **Owner's** and the **Engineer's** responsibilities and obligations established in this Agreement.

The estimated cost proposal for each **Work Authorization**, developed by the **Engineer** and approved by the **Owner** shall be used by the **Owner** to appropriate a purchase order for the **Work Authorization.** Each executed **Work Authorization** shall become a part of this **Agreement**. Upon satisfactory completion of the **Work Authorization**, the **Engineer** shall submit the **Project's** deliverables as specified in the executed **Work Authorization** to the **Owner** for review and acceptance.

Work included in a **Work Authorization** shall not begin until the **Owner** and the **Engineer** have signed the **Work Authorization**. All work must be completed on or before the completion date specified in the **Work Authorization**, unless extended by written agreement by the **Engineer** and the **Owner.** The **Engineer** shall promptly notify the **Owner** of any event that will affect completion of the **Work Authorization.** All **Work Authorizations** must be executed and completed by both the **Engineer** and the **Owner** within the period established for this Agreement as specified in Article 3 hereof.

The final acceptance by the **Owner** of each **Work Authorization** for the **Project** shall serve as evidence of completion, on the part of the **Engineer,** of all services under this Agreement insofar as they pertain to that portion of work on the **Project** identified in the applicable work authorization.

ARTICLE 8. Supplemental Agreements. The terms of this Agreement may be amended by supplemental agreement if the Owner determines that (1) there is a need to extend the **Termination Date** identified in Article 3.1 hereof, (2) there has been a significant change in the scope, complexity or character of the services to be performed by the **Engineer,** and/or (3) for any other reason agreeable to the **Owner** and the Engineer. All supplemental agreements will be developed in the form identified in **EXHIBIT "F"** - ***Supplemental Agreement Form***, attached hereto and made a part of this Agreement, and incorporated herein by reference as **"Supplemental Agreement".**

If determined appropriate by the **Owner,** additional compensation to the **Engineer** for (1), (2) and/or (3) above shall be paid as a negotiated lump sum fee at the **Contract Rates** specified in **EXHIBIT "D"**, attached hereto. The negotiated lump sum fee shall be incorporated into the **Supplemental Agreement.**

Any **Supplemental Agreement** must be executed by both the **Engineer** and the **Owner** prior to the **Termination Date** specified in Article 3 hereof.

It is distinctly understood and agreed that no claim by the **Engineer** for additional work, as identified in Article 9 hereof, or changes or revisions in work, as identified in Article 10 hereof, shall be made by the **Engineer** until full execution of the **Supplemental Agreement** and authorization to proceed is granted by the **Owner**. The **Owner** reserves the right to withhold payment to the **Engineer** pending verification of satisfactory work performed by the **Engineer.**

ARTICLE 9. Additional Work. If the **Engineer** is of the opinion that any work it has been directed to perform is beyond the scope of this Agreement and constitutes extra work, the **Engineer** shall promptly notify the **Owne**r in writing, In the event the **Owne**r finds that such work does constitute extra work, the **Owner** shall so advise the **Engineer** and a written supplemental agreement will be executed between the **Owner** and the **Engineer** as provided herein. The **Engineer** shall not perform any proposed additional work or incur any additional cost prior to the execution by both the **Engineer** and the **Owner** of a supplemental agreement. Additional compensation from the **Owner** to the **Engineer** shall be paid as a negotiated lump sum fee at the Contract Rates specified in **EXHIBIT "D"** attached hereto. The negotiated lump sum fee shall be incorporated into the supplemental agreement as specified in Article 8 hereof. The **Owner** shall not be liable or under any obligation to compensate the **Engineer** for work performed or costs incurred

by the **Engineer** relating to additional work not directly associated with the performance of the work authorized in this Agreement or as amended through supplemental agreement.

ARTICLE 10. Changes or Revisions in Work. If the **Owner** finds it necessary to request changes to the work, and the changes are within the applications of sound engineering principles, the **Engineer** shall make such revisions if requested and directed by the **Owner.**

10.1 Preliminary Work. The **Engineer** will make, without expense to the **Owner,** such revisions of any preliminary reports or drawings as may be required to meet the needs of the **Owner** and the applications of sound engineering principles.

10.2 Previously Approved or Satisfactorily Completed Work. If the **Owner** finds it necessary to request the **Engineer** to make changes to work previously approved by the **Owner** or work satisfactorily completed for which the **Owner** approves or, after a definite plan has been approved by the **Owner**, if a decision is subsequently made by the **Owner**, which for proper execution involves extra services and expenses for changes in or additions to the drawings specifications or other documents, this will be considered as additional work, and compensation from the **Owner** to the Engineer will be in accordance with Article 9 hereof.

10.3 Project Delays. If the **Engineer** is required to perform additional work due to delays by the imposition of causes not within the **Engineer's** control, such as by the re-advertisement of bids or by the delinquency or insolvency of contractors, such work associated with these delays shall be considered additional work, and the **Engineer** shall be compensated by the **Owner** for such extra services and expense in accordance with Article 9 hereof.

10.4 Reduction of Project Cost. Notwithstanding any provision herein to the contrary, in the event it is necessary for the **Owner** to require changes in the final plan of the **Project** to enable it to the reduce the construction cost of the **Project** to an amount within the sum estimated by the **Engineer,** the **Engineer** will be required to make such revisions or changes. These changes will only be considered additional work by the **Engineer,** if the **Engineer** previously provided these same changes as options to the **Owner** at the stage of preliminary work or prior to the approval of the final plan for the Project, and the option or options were not selected or approved by the **Owner** to be incorporated into the final plan of the Project. Payment for this additional work will then be made to the **Engineer** in accordance with Article 9 hereof. If **the Engineer** failed to provide these changes as an option or options to the **Owner** at the stage of preliminary work or prior to the approval of the final plan of the **Project**, these changes will not be considered additional work and no additional compensation will be made to the **Engineer.**

ARTICLE 11. Ownership and Release of Documents.

11.1 Ownership of Documents. Original drawings and specifications are the property of the **Engineer** however the **Project** is the property of the **Owner**, and the **Engineer** may not use the drawings and specifications thereof for any purpose not relating to the **Project** with the **Owner's** consent. The **Owner** shall be furnished with such reproductions of drawings and specifications as the **Owner** may reasonably require. Upon completion of the work or any earlier termination of this Agreement under Article 3.4 hereof, the **Engineer** will revise drawings to reflect changes made during construction and will promptly furnish the **Owner** with one complete set of reproducible record prints. Prints shall be furnished by the **Engineer,** as an additional service, at any other time requested by **Owner.** All such reproductions shall be the property of the **Owner** who may use them without the **Engineer's** permission for any proper purpose relating to the **Project,** including but not limited to additions to or completion of the **Project.** Any additions or revisions by the **Owner** to a drawing signed, sealed, and dated by a registered professional engineer, shall be made in accordance with the Texas Engineering practice Act and the Rules of the State Board of Registration for Professional Engineers.

All documents furnished to the **Engineer** by the **Owner** shall be delivered to the **Owner** upon completion or termination of this Agreement. The **Engineer,** at the **Engineer's** own expense, may retain copies of such documents or any other data under this Agreement.

11.2 Release of Documents or Information. Release of information to the public or others regarding the **Project** will be accordance with the Texas Public Information Act.

ARTICLE 12. Discounts, Rebates, Refunds. In connection with procurement services rendered by the **Engineer,** if procurement services are required of the **Engineer** hereunder, all discounts, rebates and refunds shall accrue to the **Owner**. For some purchases, the **Engineer** may deem that payment within the discount period is not safe; and/or inspection, guarantees, or other considerations may dictate delay. In such cases, the **Engineer** shall promptly notify the **Owner** so that a course of action may be mutually agreed upon by the **Owner** and the **Engineer.**

ARTICLE 13. Records, Accounting, Inspection. The **Engineer** shall keep full and detailed records and accounts in a manner approved by the **Owner.** The **Engineer** shall afford the **Owner's** authorized personnel and independent auditors, if any, full access to the work performed by the **Engineer** regarding the **Project** and to all of the **Engineer's** books, records, correspondence, instructions, drawings, receipts, vouchers and other documents relating to such work under this Agreement and the **Engineer** shall preserve all such records for three (3) years after final payment. The **Engineer** shall deliver to the **Owner** upon completion of such work, a statement of the cost of such work detailed according to the accounting procedure and

requirements of the **Owner.**

ARTICLE 14. Subcontracting and Assignment. The **Engineer** shall not assign, subcontract or transfer the **Engineer's** interest in this Agreement without the prior written consent of the **Owner.** The **Engineer** shall bind every subconsultant by written subcontract to observe all the terms of this Agreement to the extent that they may be applicable to each subconsultant. No subcontract relieves the **Engineer** of any responsibilities under this Agreement.

The **Engineer,** and the **Owner,** do hereby bind themselves, their successors, executors, administrators and assigns to each other party of this Agreement and to the successors, executors, administrators, and assigns of such other party in respect to all covenants of this contract.

ARTICLE 15. Patents. The **Engineer** shall indemnify and save the **Owner** harmless from all liability for alleged or actual infringement of any patent resulting from the use of apparatus or equipment furnished or designed by the **Engineer** or from the use of any process designed by the **Engineer** or effected by said apparatus or equipment, and the **Engineer** shall indemnify and save the **Owner** harmless from and against all costs, legal fees, expenses and liabilities incurred in or about any claim of or action for such infringement: provided, however, that the **Owner** shall promptly transmit to the **Engineer** all papers served on the **Owner** in any suit involving such claim of infringement, and provided further, that the **Owner** permits the **Engineer** to have entire charge and control of the defense of any such suit. If because of actual infringement the use of such apparatus, equipment, or process is enjoined, the **Engineer** shall refund the purchase price thereof in proportion to the length of service uncompleted, the life of such apparatus or equipment being assumed as five years. The **Engineer** hereby grants to the **Owner** a non-exclusive, royalty-free license under patents now or hereafter owned by the **Engineer** covering any machines, apparatus, processes, articles, or products included in the **Engineer's** work hereunder.

ARTICLE 16. Confidential Information, Inventions and Other Restrictions.

16.1 Confidential Information. The **Engineer** shall not use in any way, commercial or otherwise, except to the extent required by the proper performance of this Agreement; and shall hold in confidence and not disclose to any person, for any reason or at any time, any information relating to the secret processes, products, compositions, machinery, apparatus or trade secrets of the **Owner**, or any other confidential information given to the **Engineer** by any of the **Owner's** commissioners, elected officials, employees, or representatives or acquired by the **Engineer** during the term of or as a result of this Agreement. Any information not generally available to the public shall be considered secret and confidential for the foregoing purposes; provided, however, that any technical information which was lawfully in the **Engineer's** possession prior to such disclosure to

the **Engineer** by the **Owner** or which is or shall lawfully be published or become part of general knowledge from sources other than the **Engineer** or which otherwise shall lawfully become available to the **Engineer** from a source other than the **Owner**, shall not be subject to these provisions. All the foregoing stipulations shall apply to such information and work hereunder as well as to any information and ideas originated or developed by the **Engineer** in performing such work. Such information may, of course, be disclosed to the proper officials or employees of the **Owner** if necessary to perform the work hereunder. The **Engineer** shall, however, inform each of its employees who receive such information of these restrictions and the **Engineer** shall take all reasonable precautions and exert all reasonable efforts to assure conformance with such restrictions by all of its officers, employees, and agents, obtaining from them if necessary, agreements satisfactory to the **Owner,** effectuating the purposes of this Article.

16.2 Inventions. The **Engineer** shall communicate to the **Owner** at once, and require the **Engineer's** employees assigned to this **Project** to communicate to the **Owner** all inventions and improvements which any of the **Engineer's** employees, either alone or in conjunction with any of the **Owner's** employees may conceive, make or discover during the course of or as a result of work on this **Project** under this or any ensuing agreement with the **Owner** that relates to the processes, products, compositions, machinery or plants of the **Owner**, or relating in any way to any of the operations in which the **Owner** may be obligated to pay to the **Engineer** as compensation for services rendered by the **Engineer** under contract with the **Owner**. The **Engineer** shall require its employees to execute patent applications and assignments thereof to the **Owner** or its nominees, and powers of attorney relating thereto for any country the **Owner** may designate, and shall take all other actions as the **Owner** may request to maintain and protect such inventions and improvements. The **Owner** shall pay all costs or charges incurred in protecting such inventions and improvements if the **Owner** desires to protect them. Before assigning any of the **Engineer's** employees to work under any contract with the **Owner** concerning this **Project,** the **Engineer** shall obtain from them agreements satisfactory to **Owner** complying in all respects with the terms and provisions of this Article.

16.3 The rights and obligations set forth in Article 16 shall survive the performance of this Agreement, or any termination, discharge or cancellation thereof

ARTICLE 17. Engineer's Seal, Responsibility and Warranties.

17.1 Engineer's Seal. The **Engineer** shall assign a responsible engineer or engineers licensed to practice in the State of Texas, who shall sign, seal and date all appropriate engineering submissions to the **Owner** in accordance with the Texas Engineering Practice Act and the Rules of

the Stare Board of Registration for Professional Engineers.

17.2 Engineer's Responsibility. The **Engineer** shall be responsible for the accuracy of the work for the **Project** and shall promptly make necessary revisions or corrections resulting from errors, omissions, or negligent acts by the **Engineer**. No additional compensation will be made to the **Engineer** for any necessary revisions or corrections resulting from errors, omissions, or negligent acts by the **Engineer.**

The **Engineer's** responsibility for all questions arising from design errors and/or omissions will be determined by the **Owner** or a designee appointed by the **Owner**. The **Engineer** will not be relieved of the responsibility for subsequent correction of any such errors or omissions or for clarification of any ambiguities until after the construction phase of the **Project** has been completed.

17.3 Warranties.

(a) The **Engineer** warrants that engineering design work performed by the **Engineer** hereunder shall be in accordance with sound engineering design practices and in conformance with applicable code and standards established for such work.

(b) Notwithstanding anything to the contrary contained in this Agreement, the **Owner** and the **Engineer** agree and acknowledge that the **Owner** is entering into this Agreement in reliance on the **Engineer's** experience and abilities with respect to performing the **Engineer's** services hereunder. The **Engineer** accepts the relationship of trust and confidence established between it and the **Owner** by this Agreement. The **Engineer** covenants with the **Owner** to use the **Engineer's** best efforts, skill, judgment and abilities to design the **Project** and to further the interests of the **Owner** in accordance with the **Owner's** requirements and procedures, in accordance with all professional standards, and in compliance with all applicable national, federal, state, county and municipal laws, regulations, codes, ordinances, orders and with those of any other body having jurisdiction. If the development of plans, specifications and estimates (hereinafter referred to as **"PS&E")** are identified in this Agreement under Article 2 hereof or **EXHIBIT "B"**, attached hereto, as part of the services to be provided by the **Engineer** for the **Project**, prior to the commencement of construction, the **Engineer** shall certify in writing to the **Owner** that the **PS&E** for the **Project**, and the improvements when built in accordance therewith, conform to all applicable governmental regulations, statutes and ordinances then in effect. The **Engineer** represents, covenants and agrees that there are no obligations, commitments or impediments of any kind that will limit or prevent performance of the **Engineer's** services.

(c) The **Engineer** represents, covenants and agrees that all of **Engineer's** services to be furnished by the **Engineer** under or pursuant to this Agreement form the inception of the Agreement

until the **Project** has been fully completed, shall be of the standard and quality which prevail among engineers of similar experience, knowledge, skill and ability engaged in engineering practice throughout Texas under the same or similar circumstances involving the design and construction of **Project.**

(d) The **Engineer** represents, covenants and agrees that the **Engineer's** special talent, training and experience cause the **Engineer** to be the prime professional on the **Project;** that because of such talent and training, the **Engineer** envisions the construction of the **Project** in its entirely and possesses the special skills which enable the **Enginee**r to recognize dangerous conditions that a reasonable, prudent engineer having such special skills could anticipate may arise from the proper use of the **Project** after acceptance by **Owner;** and that the **Engineer** recognizes that any commissioners, elected officials, employees and agents of the **Owner,** plus residents and owners of property within the area affected by the **Project** are within a class of foreseeable persons who will be relying on the project being designed in a professional and safe manner.

(e) If the development of **PS&E** is identified in this Agreement under Article 2 hereof or **EXHIBIT "B"**, attached hereto, as part of the services to be provided by the **Engineer** for the **Project,** the **Engineer** represents, covenants and agrees that the **PS&E** of the **Project** will be accurate and free from any material errors. The **Engineer** additionally represents, covenants and agrees to the following: that the design of the **Project** will conform to its foreseeable use as a **Project** with all the amenities as set forth in any **PS&E** developed by the **Engineer** for the **Project;** that the result of such **PS&E**, if built in accordance therewith, will be suitable for purposes for which the **Project** is designed; and the **Project** will be inspected in a workmanlike, professional manner and will be suitable for the **Project's** intended purpose. The **Engineer's** responsibilities as set forth herein shall at no time be in any way diminished by reason of any approval by the **Owner** of any **PS&E** developed by the **Engineer** for the **Project**, nor shall the **Engineer** be released from any liability by reason of such approval by the **Owner**, it being understood that the **Owner** at all times is ultimately relying upon the **Engineer'**s skill and knowledge in preparing such **PS&E.**

(f) In connection with the **Engineer'**s performance of procurement services hereunder, if any, the **Enginee**r use its best efforts to obtain from all vendors of equipment and materials, fullest possible warranties against defective materials and workmanship for the benefit of the **Owner.**

ARTICLE 18. Engineer's Resources. The **Engineer** shall furnish and maintain, at the **Engineer's** own expense, office space for the performance of all services, skilled and sufficient personnel, as well as adequate and sufficient equipment to perform the services as required under this Agreement.

18.1 Project Manager. The **Engineer** shall provide a manager **(Project Manager)** for the **Project** that is a registered professional engineer in the State of Texas. The **Project** manager shall have such knowledge and experience as will enable that **Project Manager** during the course of the **Project** without prior consent of the **Owner.** If, due to situations beyond the control of the **Engineer,** the **Engineer** must change the **Project Manager** prior to the completion and acceptance of the **Project,** the **Engineer** will submit a request to change the **Project Manager** to the **Owner** for approval.

18.2 Employees of the Engineer. All employees of the **Engineer** shall have such knowledge and experience as will enable them to perform the duties assigned to them and required for the services under this Agreement. Any employee of the **Engineer** who, in the opinion of the **Owner**, is incompetent, or whose conduct becomes detrimental to the work required under this Agreement, shall immediately be removed form association with the **Project** when so instructed by the **Owner.** The **Engineer** certifies that the **Engineer** presently has employed sufficient and qualified personnel, and will maintain sufficient and qualified personnel for performance of the services under this Agreement.

18.3 Documents/Information Exchange The purpose of this Article is to define the required automated resources, format for graphics files, and information exchange pertaining to the **Project.** Taking into consideration that the **Owner** has a significant investment is the development of the **Project,** there is a need for the **Engineer** to provide consistency in document development for information exchange. Consistency in document development for information exchange and production will help facilitate an economically efficient **Project**. Therefore, the **Engineer** shall provide the **Owner** with documents and information in accordance with the special requirement outlined in **EXHIBIT "B"** attached hereto.

ARTICLE 19. Indemnification. To the fullest extent permitted by applicable law, the **Engineer** and its agents, partners, subcontractors, and consultants (collectively **"Indemnitors")** shall and do agree to indemnify, and hold harmless the **Owner**, the **Owner's** respective directors, elected officials, employees and agents (collectively **"Indemnitors")** from and against all claims, damages, losses, liens, causes of action, suits, judgments and expenses, including attorney fees, of any nature, kind or description (collectively "Liabilities") of any person or entity whomsoever arising out of, caused by or resulting from the negligent performance of the **Engineer's** services through activities of the **Enginee**r, its agents, partners, subcontractors and/or consultants performed under this Agreement, and which are caused by or result from error, omission, or negligent act of the **Engineer** or of any person employed or contracted by the **Engineer** provided that any such

Liabilities (1) are attributable to bodily injury, personal injury, sickness, disease or death of any person, or to the injury to or destruction of tangible personal property including the loss of use and consequential damages resulting therefrom and (2) are caused in whole or in part by any negligent act or omission of the **Engineer,** anyone directly or indirectly employed by the **Engineer** or anyone for whose acts the **Engineer** may be legally liable. The **Engineer** shall also save harmless the **Owner** from any and all expense, including but not limited to, attorney fees which may be incurred by the **Owner** in litigation or otherwise resisting said claim or liabilities which may be imposed on the **Owner** as a result of such activities by the **Engineer,** its agents partners, subcontractors and/or consultants. In this connection, it is agreed and understood that the **Engineer** shall not be responsible for any portion of the liability proximately caused by the **Owner's** negligence.

ARTICLE 20. Joint and Several Liability. In the event more than one of the **Indemnitors** are connected with an accident or occurrence covered by the indemnification in Article 19 hereof, then each of such **Indemnitors** shall be jointly and severally responsible to the **Indemnitees** for indemnification and the ultimate responsibility among such **Indemnitors** for the loss and expense of any such indemnification shall be settled by separate proceedings and without jeopardy to any **Indemnitee**. The provisions of this Article shall not be construed to eliminate or reduce any other indemnification or right which the **Owner** or any of the **Indemnitees** has by law.

ARTICLE 21. Insurance. The **Engineer** shall obtain and maintain insurance in the limits of liability for each of the types of insurance coverage identified as follows.

(1) Workers Compensation, endorsed with a waiver of subrogation in favor of the **Owner** in accordance with the statutory obligations imposed by Workers Compensation or Occupational Disease laws under the Texas Workers Compensation Law **("Statutory Texas")**

(2) Commercial General Liability, endorsed with the **Owner** as an additional insured and endorsed with a waiver of subrogation in favor of the Owner *all to the extent of the liabilities assumed by the Engineer under Article 19 and Article 20* herein, in limits of liability not less than one million dollars (**$1,000,000**) combined single limit each occurrence and in the aggregate for bodily injury and property damage.

(3) Texas Business Automobile Policy, endorsed with the **Owner** as an additional insured and endorsed with a waiver of subrogation in favor of the **Owner** *all to the extent of the liabilities assumed by the Engineer under Article 19 and Article 20 herein*, in limits of liability not less than two hundred fifty thousand dollars (**$250,000**) each person for bodily injury, five hundred thousand dollars (**$500,000**) each occurrence for bodily injury, and one hundred thousand dollars (**$100,000**) each occurrence for property damage.

(4) Professional Liability in limits of **$1,000,000** each claim and aggregate.

The **Engineer** covenants and agrees to maintain an insurance policy in the minimum limits of liability for each of the types of insurance coverage identified above. The **Engineer** shall furnish the **Owner** with a certificate of insurance (***Hidalgo County* Certificate of Insurance**) showing the said policy to be in full force and effect during the period of service, identified in Article 3 hereto, for this Agreement. The completed Hidalgo County Certificate of Insurance shall be attached hereto and identified as **EXHIBIT "G"**- ***Hidalgo County Certificate of Insurance***. The **Engineer** will be considered in breach of contract should the **Engineer** fail to maintain an insurance policy in the minimum limits of liability and requirements identified above while performing services for and under this Agreement, and will be subject to default and termination of the Agreement as outlined in Article 3.4 hereto. Additionally, the **Engineer** covenants and agrees to use its best efforts to maintain an insurance policy in the minimum limits of liability and requirements identified above until one year following the date of the acceptance of the **Project** by **Owner.**

ARTICLE 22. Compliance with Laws. The **Engineer** shall comply with all applicable Federal, State and local laws, statutes, codes, ordinances, rules and regulations and the orders and decrees of any court, or administrative bodies or tribunals in any manner affecting the performance of this Agreement including, without limitation, workers compensation laws, minimum and maximum salary and wage statutes and regulations and licensing laws and regulations. When required the **Engineer** shall furnish the **Owner** with satisfactory proof of its compliance therewith.

ARTICLE 23. Non-Collusion. The **Engineer** warrants that the **Engineer** has not employed or retained any company or persons, other than a bona fide employee working solely for the **Engineer**, to solicit or secure this Agreement, and that the **Engineer** has not paid or agreed to pay any company, engineer or any other person or entity any fee, commission, percentage, brokerage fee, gifts or any other consideration contingent upon or resulting from the award or execution of this Agreement. For breach or violation of this warranty the **Owner** shall have the right to annul this Agreement without liability or, in the **Owner's** discretion, to deduct from the *Services Fee*, or otherwise recover, the full amount of each fee, commission, percentage, brokerage fee, gift or contingent fee.

ARTICLE 24. Gratuities. The **Owner** mandates that employees of the **Owner** shall not accept any benefits, gifts or favors from any person doing business or who reasonably speaking may do business with the **Owner** under this Agreement; the only exceptions allowed are ordinary business meals. Any person doing business with or who may reasonably seeking to do business with the **Owner** under this Agreement may not make any offer of benefits, gifts or favors to **Owner** employees, except as mentioned herein above. Failure on the part of the **Engineer** to adhere to this provision may result in the termination of this Agreement.

ARTICLE 25. Payment of Franchise Tax. The **Engineer** hereby certifies that the **Engineer** is not delinquent in Texas franchise tax payments, or that the **Engineer** is exempt from, or not subject to, such as tax. A false statement concerning franchise tax status shall constitute grounds for termination of the Agreement at the sole option of the **Owner.**

ARTICLE 26. Disputes. The **Engineer** shall be responsible for the settlement of all contractual and administrative issues arising out of any procurement made by the **Engineer** in support of the services under this Agreement.

ARTICLE 27. Severability. In the event any one or more of the provisions contained in this Agreement shall for any reason, be held to be invalid, illegal, or unenforceable in any respect such invalidity, illegality or unenforceability shall not affect any other provision thereof and this Agreement shall be construed as if such invalid, illegal or unenforceable provision had never been contained herein.

ARTICLE 28. Notices. All notices to either party by the other required under this Agreement shall be personally delivered or mailed to such party at the following respective addresses:

OWNER:	**ENGINEER**:
Hidalgo County	**LAZCAMREA, LLC** d/b/a **Fulcrum Consulting Services**
100 E. Cano, 2nd, Floor	**P.O. Box 530540 – 207 E. Magnolia Avenue**
Edinburg, Texas 78539	**La Feria, Texas 78559**

The Address may be changed by either party by written notice and notice sol mailed shall be effective upon mailing.

ARTICLE 29. Miscellaneous Provisions.

(a) This Agreement constitutes the entire Agreement between the **Engineer** and the **Owner** relating to the work herein described and supersedes any prior understanding or written or oral contracts between the parties respecting the subject matter defined herein. These are no previous or contemporary representations or warranties of the **Owner** or the **Engineer** not set forth herein.

(b) Except as specifically provided herein no modification, waiver, termination, rescission, discharge or cancellation of this Agreement or of any terms thereof shall be binding on the **Owner** unless in writing and executed by an officer or employee of the **Owner** specifically authorized to do so.

(c) No waiver of any provision of or a default under this Agreement shall affect the right of the **Owner** thereafter to enforce said provision or to exercise any right or remedy in the event of any other default whether or not similar.

(d) No modification, waiver, termination, discharge or cancellation of this Agreement or of any terms thereof shall impair the **Owner's** right with respect to any liabilities whether or not

liquidated of the **Engineer** to the **Owner** theretofore accrued.

(e) All rights and remedies of the **Owner** specified in this Agreement are in addition to the Owner's other rights and remedies.

(f) The **Engineer** shall remain an independent contractor and shall have no power nor shall the **Engineer** represent that the **Engineer** has any power to bind the **Owner** or to assume or to create any obligation express or implied on behalf of the **Owner** except as specifically authorized in advance by the **Owner.**

(g) The Agreement shall be construed under the laws of the State of Texas and is performable in Hidalgo County, Texas.

(h) This Agreement may only be amended by a written document executed by the Owner and the **Engineer** as provided by Article 8 herein.

ARTICLE 30. Signatory Warranty The undersigned signatory or signatories for the **Engineer** hereby represent and warrant that the signatory is an officer of the organization for which he or she has executed this Agreement and that he or she has full and complete authority to enter into this Agreement on behalf of the **Engineer.** The above-stated representations and warranties are made for the purpose of inducing the **Owner** to enter into this Agreement.

WITNESS WHEREOF, the **Engineer** and the **Owner** have caused this **Agreement for Professional Services** to be effective as of the _____ day of _____, 2013.

ENGINEER:
LAZCAMREA, LLC d/b/a
FULCRUM CONSULTING SERVICES

BY:_____
Jorge Lazaro, P.E.-General Manager

OWNER:
HIDALGO COUNTY

BY:_____
Ramon Garcia, County Judge

ATTEST:

BY:_____
Arturo Guajardo, Jr., County Clerk

Approved by Commissioner's Court on: _____2013.

APPROVED AS TO FORM:
Atlas, Hall & Rodriguez, L.L.P.

BY:_____
Stephen L. Crain, Attorney

ATTACHMENTS:

EXHIBIT A	-Scope of Services to be provided by the Owner
EXHIBIT B	-Scope of Services to be provided by the Engineer
EXHIBIT C	-Work Schedule
EXHIBIT D	-Engineer's Rates
EXHIBIT E	-Work Authorization Form
EXHIBIT F	-Supplemental Agreement Form
EXHIBIT G	-Certificate of Insurance (*Hidalgo County)*

EXHIBIT A-1

-Request for Qualifications (RFQ) Procurement Packet

Hidalgo County Purchasing Department
2812 S. Business Highway 281
Edinburg, Texas 78539
(956) 318-2626/ Fax: (956) 318-2629

November 12, 2012

Participant's name

Address

City

State, Zip Code

Re: **HIDALGO COUNTY**
Request for Qualifications - **"Professional Engineering Services Pool-Hidalgo County"**
(Including all funding sources, programs, and entities)
RFQ No: 2013-002-12-05-YZV

Dear Respondents:

Enclosed please find a Request for Qualifications (RFQ) packet for your consideration. Hidalgo County Purchasing Department welcomes and appreciates your participation in the RFQ process.

We have updated our RFQ packet. Carefully read and review all instructions, requirements, specifications and/or scope of work included in this packet.

If any further assistance is required, please do not hesitate to call the Purchasing Department at (956) 318-2626.

Sincerely,

Martha L. Salazar, CPPB
Hidalgo County Purchasing Agent

MLS/yzv

Enclosures

Hidalgo County Purchasing Department
2812 S. Business Highway 281
Edinburg, Texas 78539
(956) 318-2626/ Fax: (956) 318-2629

REQUEST FOR QUALIFICATIONS (RFQ)

TABLE OF CONTENTS

HIDALGO COUNTY
"Professional Engineering Services Pool"
(Including all funding sources, programs, and entities)

RFQ No: 2013-002-12-05-YZV

Item	Description	No. of Pages
1.	Request for Qualifications Letter	1
2.	Request for Qualifications, Legal Notice	9
3.	Exhibit A, Requirements	9
4.	Exhibit B, Evaluation Criteria	3
5.	Attachment B –Procurement Form –Areas of Specialization	1
6.	Exhibit C, Insurance Requirements,	4
7.	Exhibit D, CIQ Conflict of Interest Questionnaire	1
8.	Exhibit E, Proposer's Affidavit	1
9.	Vendor/Bidder Application and W-9 form	6
10.	Certification Regarding Debarment	1
11.	RFQ Submittal Check List	1

The above mentioned items shall be found in the Request for Qualifications (RFQ) packet that is attached herewith. Should you find that any of the items are not attached in its entirety please contact Purchasing by calling (956) 318-2626, advise of missing documentation, and Purchasing will forward information either through facsimile or by U.S. Mail.

Thank you.

Martha L. Salazar, CPPB, Purchasing Agent

November 12, 2012
Date

REQUEST FOR QUALIFICATIONS (RFQ)

HIDALGO COUNTY

(Including all funding sources, programs, and entities)

"Professional Engineering Services Pool"

RFQ NO: 2013-002-12-05-YZV

Acceptance Due Date: **December 05, 2012**

Martha L. Salazar, CPPB, Purchasing Agent
Hidalgo County Purchasing Department

Project Buyer Contact Information:

Yolanda Velasquez, Buyer III
(956) 292-7000 Ext. 4867
yolanda.velasquez@co.hidalgo.tx.us

1. Sealed qualifications will be received for "**HIDALGO COUNTY** (Including all funding sources, programs, and entities) **PROFESSIONAL ENGINEERING SERVICES POOL***"*, in accordance with the requirements attached hereto as Exhibit "A." Qualifications should address all requirements set forth. Respondents may suggest substitutions of features which they feel would be in the best interest of Hidalgo County ("County"). Strong rationale must be presented for any deviation from the requirements. Hidalgo County reserves the right to reject the deviation and its effect on the overall qualifications.

2. One (1) original, seven (7) copies of all qualifications and two (2) CDs in PDF Format are required with the respondent's name and address clearly typed/printed on upper left hand corner and the proper notation clearly typed/printed on the lower left hand corner of the envelope and/or package, ***RFQ No.: 2013-002-12-05-"HIDALGO COUNTY (Including all funding sources, programs, and entities)*** **PROFESSIONAL ENGINEERING SERVICES POOL***",* and in County's Purchasing Department, Physical Location: 2802 S. Business Hwy. 281 Postal/ Mailing: 2812 S. Business Hwy. 281 New Administration Building , Edinburg, Texas, **ON OR BEFORE 9:30 A.M., WEDNESDAY, DECEMBER 05, 2012.**

NO FACSIMILES OR LATE ARRIVALS WILL BE ACCEPTED. ANY QUALIFICATION RECEIVED AFTER THAT TIME WILL NOT BE OPENED AND WILL BE RETURNED. OVERNIGHT MAIL MUST ALSO BE PROPERLY LABELED ON THE OUTSIDE OF EXPRESS ENVELOPE OR PACKAGE IN REFERENCE TO QUALIFICATION.

Hidalgo County reserves the right to refuse and reject any/all qualifications and to waive any/all formalities or technicalities, or to accept the proposal considered the best and most advantageous to Hidalgo County.

3. Hidalgo County reserves the right to separate and accept, or eliminate any item(s) listed under this qualification that it deems necessary to accommodate budgetary and/or operational requirements. Hidalgo County also reserves the right to reject any or all qualifications submitted and further reserves the right to design the evaluation criteria to be used in selecting the lowest and best qualification for approval. Receipt of any qualification shall under no circumstances obligate County to accept the lowest dollar qualification. The award of this contract shall be made to the responsible offeror whose qualification is determined to be the best evaluated offer resulting from negotiation, taking into consideration the relative importance of price and other evaluation factors as herein set forth.

4. Failure of the delivered item to perform as specified or failure to meet the stated delivery schedule shall release Hidalgo County from all obligations to the contracting party with regard to the item(s) in question. In such event, County may elect to award the contract to the next-lowest responsible respondent, or to reject all qualifications and re-advertise.

5. For work to be performed at a County owned or operated location, each respondent shall, in its sole discretion, visit the job site before preparing the qualification and thoroughly familiarize himself/herself with existing conditions. Respondent should take field dimensions and note all circumstances which affect the dollar amount of the qualification.

6. Descriptive specifications are referenced in this document to indicate the general kind and quality of equipment desired by Hidalgo County. Due to various styles and models of equipment, respondents are required to include illustrations, specifications, explanation of warranties, and service data with their qualification including catalogue numbers and any necessary references.

7. Proposed prices are to remain firm for a minimum of ninety (90) days after priced qualification opening.

8. County reserves the right to accept or reject any or all qualifications.

9. Any interpretations, amendments, corrections or changes to this qualification document must be in a written addendum and signed by the County Judge or his designee. Addenda will be mailed to all who are known to have received a copy of the Request for Qualifications. Respondents shall acknowledge receipt of all addenda as a part of their qualification.

10. Costs are to be net F.O.B., County Prepaid.

11. County is exempt from Federal Excise Tax, State Tax and Local Tax. Do Not include tax in cost figure. If it is determined that tax was included in the cost figures it will not be included in the tabulation of any awards. Tax exemption certificates will be furnished upon request.

12. Funds for this procurement have been provided through the County budget for this fiscal year only. County, on an annual basis, has the right to reconsider a contract during the budget process for ensuing years if financial resources of County are insufficient to meet the liabilities of said contract. The award of a qualification or contract hereunder will not be construed to create a debt of the County which is payable out of funds beyond the current fiscal year.

13. DELIVERY INSTRUCTIONS:

- No deliveries accepted after 3:00 P.M., Monday-Friday.
- At least seventy two (72) hours prior notice of delivery must be given to Martha L. Salazar, CPPB, Purchasing Agent before delivery will be accepted.
- If you need additional information call the office listed below:

Hidalgo County Purchasing Department
Martha L. Salazar, CPPB, Purchasing Agent
(956) 318-2626

14. BILLING AND PAYMENT INSTRUCTIONS:

- Invoices must include:
  a) Name and address of successful respondent
  b) Name and address of receiving department or official
  c) Purchase Order Number and Contract number (if any)
  d) Notation- **HIDALGO COUNTY (Including all funding sources, programs, and entities) PROFESSIONAL ENGINEERING SERVICES POOL"**
  e) Descriptive information as to the items or services delivered, including product code, item number, quantity, etc.
- Discount payments will be considered when offered.

- Contact person for Billing and Payment questions:

HIDALGO COUNTY AUDITOR'S OFFICE
Postal/Mailing 2808 S. Business Hwy. 281
Edinburg, Texas 78539
(956) 318-2511

15. SCHEDULE OF EVENTS

Qualification Opening, 9:30 A.M.	**December 05, 2012**
Award of Contract	_____, 2013
Commence Work or Deliver Products	_____, 2013

16. HIDALGO COUNTY HOLIDAYS

2013 YEAR	
New Year's Day	12/31/12 and 01/01/13
Martin Luther King Day	01/21/13
President's Day	02/18/13
Good Friday	03/29/13
Easter	01/01/13
Memorial Day	05/27/13
Independence Day	07/04/13
Labor Day	09/02/13
Veteran's Day	11/11/13
Thanksgiving Day	11/28/13 and 11/29/13
Christmas Day	12/24/13 and 12/25/13

17. ~~BID OR PERFORMANCE BOND~~ AND DEBARMENT CERTIFICATION; ~~PAYMENT UNDER CONTRACT~~:

- ~~If the contract proposed is for the construction of public works or is for a contract for goods and services exceeding $100,000, all bidders shall furnish a good and sufficient bid bond in the amount of five percent of the total contract price. A bid bond must be executed with a surety company authorized to do business in Texas~~. All respondents are also required to furnish a certification or acknowledgment stating that the contractor or vendor is free from suspension or debarment pursuant to federal regulation 45CFR76.

- ~~Together with the signing of a contract or issuance of a purchase order following the acceptance of a qualification, and prior to commencement of the actual work, the respondent shall furnish a performance bond to the County for the full amount of the contract, if that contract exceeds $50,000.~~

- ~~If the contract is for $50,000 or less, no money will be paid to the contractor until completion and acceptance of the work or the fulfillment of the purchase obligation to the County, and, if applicable, the receipt by County of satisfactory evidence that all subcontractors and materialmen have been paid.~~

- ~~If a contract is for the construction, alteration or repair of public buildings or public works, the contractor *shall* provide a payment bond for a contract in excess of Twenty Five Thousand Dollars ($25,000.00), as required by Tex. Govt. Code Ch. 2253.~~

- ~~For requirements contracts, bond requirements are determined by applying the proposed unit price to the estimated quantities included in the specifications.~~

18. ETHICAL STANDARDS:

- It shall be a breach of ethics to offer, give or agree to give any elected official, department head or employee, or former elected official, department head or employee, of the County, or for any elected official, department head or employee or former elected official, department head or employee of the County, to solicit, demand, accept or agree to accept from another person, entity or organization, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, preparation or any part of a program requirement or purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter pertaining to any program requirement or a contract or subcontract, or to any solicitation or qualification therefore pending before any department or agency of the County.

- It shall be a breach of ethics for any payment, gratuity or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor for any contract for the County, or any person associated therewith, as an inducement for the award of a subcontract or order.

- No public official shall have an interest in a contract awarded hereunder except in accordance with Tex. Loc. Govt. Code Chapter 171.

- **NOTICE:**
  ALL COMMUNICATIONS BY A VENDOR TO THE COUNTY, ITS OFFICIALS, AND DEPARTMENT HEADS REGARDING THIS PROCUREMENT SHALL BE DONE THROUGH THE HIDALGO COUNTY PURCHASING DEPARTMENT.

  No vendor, its representative, agent, or employee shall engage in private communication with a member of the Hidalgo County Commissioners Court or county department heads regarding any procurement of goods or services by the County from the date that the bid, RFP, or RFQ is released. No private communication regarding the purchase shall be permitted until the procurement process is complete and a purchase order is granted or a contract is entered into. Members of the commissioners court are required to make a reasonable effort to inform themselves regarding potential procurements and have a duty to inquire of vendors, their representatives or employees, the nature of any private communication being sought prior to engaging in any communication. “Private Communication” means communication with any vendor outside of a posted meeting of the governing body, a regular meeting of a standing or appointed committee, or a negotiation with a vendor which has been specifically authorized by the governing body.

19. DISCLOSURE OF CONFLICT OF INTEREST

- **Effective January 1, 2006, Chapter 176 of the Texas Local Government Code requires that any vendor, person, consultant or contractor considering doing business with Hidalgo County ("the County") to disclose in the Conflict of Interest Questionnaire (the "CIQ") attached as Exhibit D, the vendor, person, consultant or contractor's affiliation or business relationship that might cause a conflict of interest with the County. By law, the CIQ must be filed with the Hidalgo County Clerk's Office no later than the seventh business day after the date the person becomes aware of facts that require that statement to be filed. The disclosure requirement applies to a person or business who contracts or seeks to contract with Hidalgo County for the sale or purchase of property, goods or service. Any purchase order or contract resulting from this process shall be considered null and void if the successful respondent fails to comply with Texas Local Government Code Chapter 176. Vendors, consultants, contractors and others who desire to conduct business with Hidalgo County are encouraged to refer to Texas Local Government Code Chapter 176 for the details of this law. An offense under Texas Local Government Code Chapter 176 is a Class C Misdemeanor.**

  Please submit completed CIQ forms to the Hidalgo County Clerk's Office located at 100 N. Closner, Edinburg, Texas 78539, Hidalgo County Courthouse.

  COMPLETION AND SUBMISSION OF FORM CIQ IS THE SOLE RESPONSIBILITY OF THE PROSPECTIVE RESPONDENT.

20. If, during the life of any contract or qualification awarded, the successful respondent's net prices generally available to other customers for items awarded herein are reduced below the contracted price, it is understood and agreed that the benefits of such reduction shall be extended to County.

21. Qualifications, and all goods and services provided thereunder, shall comply with all federal, state and local laws concerning this type(s) of goods and/or services.

22. Minimum Standards For Responsible Prospective Respondents: A prospective respondent must affirmatively demonstrate respondent's responsibility. A prospective respondent, by submitting a qualification, represents to County that it meets the following requirements:

- Possess or is able to obtain adequate financial resources as required to perform under the qualification;
- Be able to comply with the required or proposed delivery schedule;
- Have a satisfactory record of performance;
- Have a satisfactory record of integrity and ethics;
- Be otherwise qualified and eligible to receive an award.

23. Successful respondent will pay or cause to be paid, without cost or expenses to County, all FICA, FUTA/SUTA and Federal Income Withholding Taxes of all employees, and all wages and benefits as required by Federal or State law. Successful respondent's officers, agents and/or employees will not be entitled to any benefits of an employee or elected official of County, including, but not limited to, benefits associated with County's civil service system.

24. Any contract award to a successful respondent will be in effect until (a) the contract expires, (b) delivery and acceptance of products, and/or performance of services ordered, or (c) terminated by County with thirty (30) day's written notice prior to cancellation.

25. County reserves the right to enforce performance of any contract awarded hereunder in any manner prescribed by law or deemed to be in the best interest of the County in the event of breach or default by successful respondent; County reserves the right to terminate any contract immediately in the event a successful respondent fails to:

A. Meet schedules;
B. Pay any required fees or taxes; or
C. Otherwise perform in accordance with the requirements.

26. Successful respondent shall defend, indemnify and save harmless County and all its elected officials, officers, agents and employees from all suits, actions, or other claims of any character, name and description brought for or on account of any injuries or damages received or sustained by any person, persons, or property on account of any negligent act or fault of the successful respondent, or of any agent, employee, subcontractor or supplier in the execution of, or performance under, any contract which may result from qualification award. Successful respondent indemnifies and will indemnify and save harmless County from liability, claim or demand on their part, agents, servants, customers, and/or employees whether such liability, claim or demand arise from event or casualty happening or within the occupied premises themselves or happening upon or in any of the halls, elevators, entrances, stairways or approaches of or to the facilities within which the occupied premises are located. Successful respondent shall pay any judgment with costs which may be obtained against County growing out of such injury or damages, and shall, upon request, provide a defense to County by counsel reasonably acceptable to County. Successful respondent's indemnity hereunder shall include, but is not limited to, claims relating to patent, copyright or trademark infringement, and the like, arising out of the goods or services provided by successful respondent.

27. Successful respondent shall warrant that all items/services shall conform with the specifications and/or all warranties provided under the Uniform Commercial Code and be free from all defects in material, workmanship and the like. Items supplied under a contract pursuant to this Request for Qualifications shall be subject to County's approval. Items found to be defective or not meeting specifications shall be replaced by successful respondent within two business days at no expense to County. Items not picked up within one (1) week after notification shall be deemed a donation to County and may be used or disposed of at County's discretion and without waiver of any other rights of County as to the item's nonconformity.

28. This document and any disputes arising hereunder shall be governed and construed according to the laws of the State of Texas, and will be performable exclusively in Hidalgo County, Texas.

29. The successful respondent shall not assign, sell, transfer or convey its rights under any awarded contract, in whole or in part, without the prior written consent of County.

30. Respondents shall provide with the qualification response, a list of at least three (3) references where like services have been supplied by their firm. Include the name of the business or government, address, telephone number and name of representative or contact person.

31. Respondents must provide **all** documentation requested with this Qualification in their response. Failure to provide this information may result in rejection of the qualification as none conforming.

Request for Qualifications
for
HIDALGO COUNTY
(Including all funding sources, programs, and entities)

"Professional Engineering Services Pool"

To: Martha L. Salazar, CPPB, Purchasing Agent
Hidalgo County Purchasing Department
Physical Location: 2802 S. Business Hwy. 281
Postal/ Mailing: 2812 S. Business Hwy. 281
New Administration Building
Edinburg, Texas 78539

In accordance with the Requirements, and subject to all laws and regulations of the United States and state and local laws, the undersigned respondent proposes and commits to furnish all labor, equipment, material, software and services as set forth in the documents hereinbefore mentioned. The undersigned further agrees, upon acceptance of its qualification, to execute a contract and/or Purchase Order issued by Hidalgo County for performing and completing the work described in the Requirements within the time stated and for the prices proposed in the documents attached hereto and made a part hereof.

Respondent acknowledges receipt of all of the pages of the documents referenced in the Request for Qualification Checklist presented in connection with this procurement. Respondent understands that Hidalgo County reserves the right to reject any or all qualifications and further reserves the right to design the evaluation criteria to be used in selecting the lowest and best qualification.

Respondent agrees that this qualification shall be good and may not be withdrawn for a period of ninety (90) calendar days after the scheduled closing time for receiving qualifications, as contained in the Requirements.

Respectfully submitted,

Firm: _____

Address: _____

By: _____

Printed Name: _____

Title: _____

The County of Hidalgo will be accepting Statements of Qualifications from qualified State of Texas registered Professional Engineering firms in order to establish a pre-qualified pool of Engineers on an "As Needed Basis" per project by all County Departments and/or applicable Programs requiring said services as set forth in the requirements. Upon approval and acceptance by Hidalgo County Commissioners' Court, the term of the pre-qualified pool of Engineers will be for a period starting **February 9, 2013 and ending February 08, 2014**. The Hidalgo County Purchasing Department will receive sealed envelopes containing Statements of Qualifications for the provision of **"PROFESSIONAL ENGINEERING SERVICES POOL"-HIDALGO COUNTY** (including all funding sources, Programs, and Entities as specified herein. Statements of Qualifications will be accepted until **9:30 A.M., Wednesday, December 05, 2012. ANY RFQ RECEIVED AFTER THAT TIME WILL NOT BE OPENED AND WILL BE RETURNED.**

The following outlines the Request For Qualifications:

SECTION I - GENERAL TERMS AND CONDITIONS

RFQ DOCUMENT SUBMITTALS/DELIVERY:

A total of **one (1) original, seven (7) copies and two (2) CD's in PDF format** of the RFQ shall be submitted as part of your response.

Respondents must complete and include in their response, all documentation requested in this RFQ. Refer to enclosed RFQ Check List form for documents to be included with your response.

Hidalgo County is requesting that statements of qualifications responses be sealed, clearly marked and labeled with the Company's name, RFQ Number *2012-002-12-05-YZV* **, Project Title** *Professional Engineering Services Pool***, and Opening Date, and be delivered to Martha L. Salazar, CPPB, Purchasing Agent, at:**

US Postal Mail Address:
Martha L. Salazar, CPPB, Purchasing Agent
Hidalgo County Purchasing Department
Administration Building
2812 S. Business Hwy 281
Edinburg, Texas 78539

Physical Address:
Martha L. Salazar, CPPB, Purchasing Agent
Hidalgo County Purchasing Department
Administration Building
2802 S. Business Hwy. 281
Edinburg, Texas 78539

Hidalgo County requires respondents, when hand delivering statements of qualifications, to have a Purchasing Department representative time/date stamp and initial the sealed envelope when dropping RFQ off.

All costs and expenses associated with the preparation and submission of (rfq's, bids, proposals and/or quotes) shall be the responsibility of the respondent and no reimbursement for such charges or expenses shall be passed onto Hidalgo County.

DISCLOSURE OF CONFLICT OF INTEREST:

Effective January 1, 2006, Chapter 176 of the Texas Local Government Code requires that any vendor, person, consultant of contractor considering doing business with Hidalgo County ("the County") to disclose in the Conflict of Interest Questionnaire ("the CIQ") attached as **Exhibit D**, the vendor, person consultant or contractor's affiliation of business relationship that might cause a conflict of interest with the County. By law, the CIQ must be filed with the Hidalgo County Clerk's Office no later than the seventh business day after the date the person becomes aware of facts that require that statement to be filed. The disclosure requirement applies to a person or business who contract or seeks to contract with Hidalgo County for the sale or purchase of property, goods or service. Any purchase order or contract resulting from this process shall be considered null and void if the Vendors, consultants, contractors and others who desire to conduct business with Hidalgo County are encourage to refer to Texas Local Government Code Chapter 176 for the details of this law. An offense under Texas Local Government Code Chapter 176 is a Class C Misdemeanor.

Please submit complete CIQ forms to the Hidalgo County Clerk's Office located at 100 No. Closner, Edinburg, TX 78539-Hidalgo County Courthouse. **COMPLETION AND SUBMISSION OF FORM CIQ IS THE SOLE RESPONSIBILITY OF THE PROSPECTIVE BIDDER.**

PROPOSER'S AFFIDAVIT:

Respondents to this RFQ must submit a signed Proposer's Affidavit (attached herein in Exhibit E) certainly that the submission is (1) not the result of Collusion as described in the Proposer's Affidavit, (2) that the Respondent does not have a Conflict of Interest as described in the Proposer's Affidavit, or that the Respondent has not and will not attempt to lobby directly or indirectly as described in the Proposer's Affidavit.

NON-DISCRIMINATION:

Respondents, during the performance of this contract, will not discriminate against any employee or applicant for employment because of race, religion, sex, national origin or disability except where religion, sex, national origin or disability is a bona fide occupational qualification reasonably necessary to the normal operation of the contractor.

PROCESSING TIME FOR PAYMENT:

Respondents are advised that a minimum of thirty (30) days is required to process invoices for payment.

ELECTRONIC TRANSMISSION OF RFQ's:

Hidalgo County's Purchasing Department will not accept telegraphic or electronically transmitted submissions.

PROOF OF FINANCIAL AND BUSINESS CAPABILITY:

Respondents must, upon request, furnish satisfactory evidence of their ability to furnish products or services in accordance with the terms and conditions of these requirements. Hidalgo County will make the final determination as to the vendor's ability.

RESPONDENT DEFAULT:

Hidalgo County reserves the right, in case of respondent default, to procure the articles or services

from other sources and hold the defaulting respondent responsible for any excess costs occasioned thereby.

RESTRICTIVE OR AMBIGUOUS REQUIREMENTS:
It is the responsibility of the respondent to review the Request for Qualifications (RFQ) packet and to notify in writing the Purchasing Department if the requirements are formulated in a manner that would unnecessarily restrict competition. These criteria also apply to requirements that are ambiguous.

RFQ QUESTIONS AND ANSWERS: Any protest(s) or question(s) regarding the requirements or request for qualifications procedures must be received in the Purchasing Department **via facsimile to (956)292-7612 or via e-mail to yolanda.velasquez@co.hidalgo.tx.us NO LATER THAN Monday, November 19, 2012** at 5:00 p.m. Responses will be sent to all applicants by **Wednesday, November 21, 2012. TELEPHONE INQUIRIES WILL NOT BE ACCEPTED.**

SIGNING OF QUALIFICATIONS:
In order to be considered, all submittals **must** be signed. **Please sign the original in blue ink**.

WAIVING OF INFORMALITIES:
Hidalgo County reserves the right to waive minor informalities or technicalities when it is in the best interest of Hidalgo County.

SUBCONTRACTING:
The successful submitter may not subcontract the award without the written consent of the Commissioners' Court of Hidalgo County.

TERM OF POOL:
The pool term is for a period of one (1) year or upon completion of project(s) unless project specific for more than one (1) year.

DAVIS BACON ACT:
All selected and awarded firms are required to include the Davis-Bacon Act when advertising and developing project specifications.

SECTION II - RFQ REQUIREMENTS

REQUEST FOR QUALIFICATIONS:
The required contents and limitations for the preparation of the RFQ are described in this section. Failure to provide the requested information or adhere to any County limitations may result in disqualification of the submitted RFQ.

UNDERSTANDING OF THE PROJECT:
This section should demonstrate the respondent's understanding of the project needs, the work required, and any local issues or concerns. This description should be concise, candid, and limited to 3 pages in length.

FIRM QUALIFICATIONS:

The County of Hidalgo is seeking to contract with a competent engineering firm(s), registered and licensed to practice in the State of Texas that has had experience in, but not limited to, the following areas:

- Roadway, Bridge and General Design and Construction
- Federal, State and County-funded construction projects
- Solid Waste related projects
- Mechanical Engineering Projects

Additionally, this section should include a description of the firm's project personnel and their most recent (and varied) projects. For each project, a client contact name and phone number should be included for reference purposes. Additionally, the names of the personnel proposed for this project who participated in the listed projects should be provided. This project list is limited to 5 pages.

What does your firm specialize in?_____

Minimum experience: Years? _____ Projects? _____

PERSONNEL AND STAFFING:
The firm should provide an organizational chart for the project and a summary paragraph of the project work to be performed by each proposed staff member. Biographic summaries that highlight the experience relevant to the specific project responsibilities should be provided for all proposed personnel. There is a one (1) page limitation for each biographic summary provided.

REQUIRED CERTIFICATIONS AND SUBMITTAL:
This section will contain any current licenses and/or certifications and assurance as required by the STATE OF TEXAS. The engineering firm(s) should include copies of their Professional Liability Insurance.

SCOPE OF SERVICES:
The engineering services contract will encompass all project-related engineering services to the County of Hidalgo including, but not limited to, the following:

A.
- Route and Design Studies
- Social, Economic, Environmental Studies and Public Involvement
- Right of Way Maps and Data
- Utility Adjustments
- Surveying
- Pre-Design

B.

- Roadway Design
- Drainage Design
- Solid Waste
- Signing, Markings and Signalization
- Traffic Control Plans
- Bridge Design
- Plans and Specifications
- Bid Preparation

C.

- Building Design
- Plans, Drawings and Specifications
- Bid Package Preparation

D.

- Construction Contract Management
- Conduct Construction Materials Engineering and Testing Services
- Design for New Construction
- Design for Alterations/Renovations
- Needs Assessment
- ADA Compliance
- Code Analysis
- Cost Estimating

E.

- Soil/Rock and Foundation Studies
- Excavations and Trenches
- Dams and Cut or Filled Slopes

- Pavements
- Water and Waste Retention/Disposal
- Specialized Testing and Instrumentation

Other Engineering Services include:
Project Development Management, Facility Analysis & Master Planning, Site Planning & Analysis, Roof Design, Parking Design, Security Design, Energy Conservation, Ventilation Design, Acoustical Design, Asbestos Abatement Monitoring, etc.

Additionally, this section should include, but not restricted to the following information:

A. Firm name, address, phone number and person(s) to contact regarding the Statement of Qualifications.

B. Qualifications and recent experience of the firm and key personnel relative to the performance of similar services for public entities. This should also include the following information:

    1. Copy of current license certification with state seal.
    2. History of engineering certification from the State of Texas.
    3. List of projects related to the subject areas within the past year.

C. List of in-State references including the name, address and phone number of the person most closely associated with the firm's prior project performance.

D. Ability to commence services immediately after successfully negotiating a contract for services.

E. Statement regarding an Affirmative Action Program.

PARTICIPATING FIRMS ARE NOT TO PROVIDE A FEE PROPOSAL WITH THIS SUBMITTAL:
The fee will be negotiated in accordance with the Professional Services Procurement Act, Tex. Govt. Code Ann. 2254.001, et seq.

PART III – SELECTION / EVALUATION

SELECTION/EVALUATION PROCESS:
The evaluation system consists of a 100-point system.

1. **PROFESSIONAL QUALIFICATIONS OF PROJECT TEAM**
   The firms should provide information on their proposed professional team members, i.e. applicable certifications/registrations and other pertinent information that demonstrates their qualifications to perform the contract. The professional team members responsible/assigned to assist County projects shall be identified in the organizational chart. Team members shall have experience in performing various types of contracts for counties, cities, irrigation districts, TX DOT or other clients as stated in the Request for Qualifications. A list of, and scope of, the various projects, for comparative purposes, shall be included in an appendix.

2. **EXPERIENCE OF PROJECT TEAM/ABILITY TO COMMIT RESOURCES**
   In addition to the Project Manager and the Professional Team Member(s), the provider shall designate experienced engineering staff to completely and efficiently perform the work, either through their own personnel, sub-providers or commitment to hire additional staff. The proposal shall identify the project team composition, project leadership, reporting responsibilities and address how sub-providers, if any, will fit into the management structure. Résumés of the key technical staff members, limited to two (2) pages per person. must be included in an appendix, as well as narrative descriptions of projects proposed as similar work experience.

3. **METHODOLOGY**

   The RFQ should provide a description of the firm's approach to the methodology and management to the scope of services for the project.

4. **UNDERSTANDING OF PROJECT/SIMILAR PROJECTS**
   The proposal shall include the following:

   * demonstrate an understanding of the scope of services
   * address appropriate Federal/State/Local regulations and policies
   * identify information to be gathered or obtained

   Responsiveness to RFQ:
   - Response is Clear;
   - Response is Well Organized;
   - Easy to Evaluate;
   - Appropriate to this RFQ

   The firms should provide as much background information as to it's experience in providing

similar services to State, City, County or any other governmental agencies. Reference information should be as current as possible, especially contact persons and telephone numbers.

5. **FAMILIARITY WITH APPLICABLE RULES AND REGULATIONS**
The RFQ should indicate through past experience of the proposed Team that they possess sufficient knowledge of governmental regulations, appropriate codes, guidelines, professional standards and policies (as required).

STATEMENT OF QUALIFICATIONS GRADING AND RANKING PROTOCOL:

Once a Project has been identified and it is determined that Engineering services are required, approval to seek engagement for professional services is sought from Hidalgo County Commissioners Court. The following protocol and procedures are utilized;

1. Hidalgo County Commissioners' Court, Elected Official and/or the User Department in need of Engineering Services will nominate (at the minimum) three (3) firms from Hidalgo County's approved pool of firm, thereafter, will review, score and evaluate the statement of qualifications received in response to this Hidalgo County Request for Qualifications;

2. A grid of the scores will be presented to Commissioners' Court for the purpose of **ranking and approval** for the Purchasing Department to enter into negotiations with the number one (1) ranked firm;

NEGOTIATION PROCESS:

Negotiations will commence with Commissioners' Court approved number one ranked firm;

1. Firm(s) will be asked to submit (as part of those negotiations) a "scope of service" including fees;

2. The negotiated contract including best and final offer with the successful firm will be presented to Commissioners' Court (including compliance with all requirements as well as insurances) for consideration and final approval.

3. If negotiations with the number one (1) ranked firm fail, the Purchasing Department will recommend to Commissioners' Court that negotiations cease with the number one (1) ranked firm and commence to negotiate with the next highest ranked firm.

EVALUATION CRITERIA
PROFESSIONAL ENGINEERING SERVICES POOL
RFQ No. 2013-002-12-05-YZV

The respondent's RFQ will be evaluated based on the criteria presented below. These criteria will be scored on the scales shown on the enclosed "RFQ Evaluation Form."

1. PROFFESIONAL QUALIFICATIONS OF PROJECT TEAM (20)

The firms should provide information on their proposed professional team members, i.e. applicable certifications/registrations and other pertinent information that demonstrates their qualifications to perform the contract. The professional team members responsible/assigned to assist County projects shall be identified in the organizational chart. Team members shall have experience in performing various types of contract for counties, cities, irrigation districts, or other clients as stated in the Request for Qualifications (RFQ). A list of, and scope of, the various projects, for comparative purposes, shall be included in an appendix.

2. EXPERIENCE OF PROJECT TEAM/ABILITY TO COMMIT RESOURCES (25)

In addition to the Project Manager and the Professional Team Member(s), the provider shall designate experienced engineering staff to completely and efficiently perform the work, either through their own personnel, sub-providers or commitment to hire additional staff. The proposal shall identify the project team composition, project leadership, reporting responsibilities and address how sub-providers, if any, will fit into the management structure. Résumés of the key technical staff members, limited to two (2) pages per person, must be included in an appendix, as well as narrative descriptions of projects proposed as similar work experience.

3. METHODOLOGY (20)

The RFQ should provide a description of the firm's approach to the methodology and management to the scope of services for the project.

4. UNDERSTANDING OF PROJECT/SIMILAR PROJECTS (25)

The proposal shall include the following:
* demonstrate an understanding of the scope of services
* address appropriate Federal/State/Local regulations and policies
* identify information to be gathered or obtained

Responsiveness to RFQ:
- Response is Clear;
- Response is Well Organized;
- Easy to Evaluate;
- Appropriate to this RFQ

The firms should provide as much background information as to it's experience in providing similar services to State, City, County or any other governmental agencies. Reference information should be as current as possible, especially contact persons and telephone numbers.

5. FAMILIARITY WITH APPLICABLE RULES AND REGULATIONS (10)

The RFQ should indicate through past experience of the proposed Team that they possess sufficient knowledge of governmental regulations, appropriate codes, guidelines, professional standards and policies (as required).

EVALUATION CRITERIA
PROFESSIONAL ENGINEERING SERVICES POOL
RFQ No. 2013-002-12-05-YZV

Selection Criteria	Points	Score
1. Professional Qualifications of Project Team (20 pts maximum)		
➢ Registered and licenses to practice in the State of Texas (i.e. certifications/registrations and other pertinent information that demonstrates their qualifications to perform the contract)	10	
➢ Provides information on proposed professional Team qualifications to perform various types of contracts	5	
➢ Team members identified in the organizational chart.	5	
Comments/Rationale For Points:		TOTAL _____
2. Experience of Project Team/Ability to Commit Resources (25 pts maximum)		
➢ Designate engineering staff members in an appendix form	5	
➢ Identifying the project composition, project leadership, reporting responsibilities	10	
➢ Experience of engineering staff to completely and efficiently perform the work.	10	
➢		
Comments/Rationale For Points:		TOTAL _____
3. Methodology/Experience/Availability of Project Manager (20 pts maximum)		
➢ Firm's approach to the methodology and management to the scope of services for the project(s).	5	
➢ Must be a Professional Engineer registered in the State of Texas and must be included in Appendix	5	
➢ Project Manager must have five (5) types of projects plus be 85-100 % involvement with technical development of project	10	
Comments/Rationale For Points:		TOTAL _____
4. Understanding of Project/Similar Projects (25 pts maximum)		
➢ Demonstrate and understanding of the scope of services	5	
➢ Address appropriate Federal/ State/ Local regulations and policies. Knowledge and experience of working with multiple entities, counties, cities, etc.	5	
➢ Identify information to be gathered or obtained/proposed approach to complete the scope	5	
➢ RFQ responsiveness. Response is clear, well organized, easy to evaluate, and appropriate to this RFQ.	5	
➢ Reference Information including contact persons and telephone numbers.	5	
Comments/Rationale For Points:		TOTAL _____
5. Familiarity with Applicable Rules and Regulations (10 pts maximum)		
➢ Indicate passed experience of the proposed Firm knowledge of governmental regulations, appropriate codes, guidelines, professional standards and policies	5	
➢ Must contain a narrative that outlines applicable regulations, guideline, standards, and policies	5	
Comments/Rationale For Points:		TOTAL _____
Total Score		

Firm/Participant's Name:_____

Evaluator: _____Department: _____

Project Name:_____Date:_____

PROCUREMENT FORM
ATTACHMENT "B"
HIDALGO COUNTY-PROFESSIONAL ENGINEERING SERVICES POOL
RFQ NO: 2013-002-12-05-YZV

Name and Address of Firm:	_____ _____ _____
Principals of Firm and Titles:	_____ _____ _____
Firm's Registration No.:	_____

Area of Specialization:

	Civil Engineering		Electrical Engineering
	Structural Engineering		Highway Engineering
	MEP Engineering (Mech/Elec/Plumb)		
	Mechanical Engineering		
	Environmental Engineering		

Local References (Rio Grande Valley) List Four (4) Only:

Reference #1: _____

Reference #2: _____

Reference #3: _____

Reference #4: _____

Recent Projects (Within Two [2] Years) List Four (4) Only:

Project #1: _____

Project #2: _____

Project #3: _____

Project #4: _____

Submitted By: _____

Signature: _____

Typed Name: _____

EXHIBIT "C"

Insurance Requirements
Professional Services
(i.e...Engineers, Architects, Appraisers & Surveyors)

The proposer awarded the contract shall furnish proof of insurance, which will also include any subcontractor that is subcontracted by the proposer in at least the following limits, to be in place prior to providing any services under this Contract and to continue at all times in force in effect during the term of this Contract:

1. Professional liability insurance policy with limits of at least One Million Dollars ($1,000,000) per occurrence, or limited to claims made, include at least a five (5) year extended reporting period.

2. A Five Hundred Thousand Dollars ($500,000.00) Comprehensive General Liability insurance policy providing additional coverage to all underlying liabilities of County.

3. Automobile liability insurance policy with limits of at least Three Hundred Thousand Dollars ($300,000.00) per person and Five Hundred Thousand Dollars ($500,000.00) per occurrence. Coverage should include injury to or death of persons and property damage claims with limits up to Five Hundred Thousand Dollars ($500,000.00) arising out of the services provided to County hereunder.

4. Uninsured/Underinsured motorist coverage in an amount equal to the bodily injury limits set forth immediately above;

5. Workers compensation insurance in amounts established by Texas law, unless the Bidder is specifically exempted from the Texas Workers Compensation Act, Texas Labor Code Chapter 401, et. seq.

<u>Hidalgo County will only accept certificates of insurance on an Acord form (as attached hereto).</u>
Certificates of insurance naming County as an additional insured shall be submitted to County for approval prior to any services being performed by Contractor. Each policy of insurance required hereunder shall extend for a period equivalent to, or longer than the term of the Contract, and any insurer hereunder shall be required to give at least thirty (30) days written notice to the County prior to the cancellation of any such coverage on the termination date, or otherwise. This Contract shall be automatically suspended upon the cancellation, or other termination, of any required policy of insurance hereunder, and such suspension shall continue until evidence adequate replacement coverage is provided to County. If replacement coverage is not provided within thirty (30) days following suspension of the Contract, this Contract shall automatically terminate.

ACORD CERTIFICATE OF INSURANCE

DATE (MM/DD/YY)

PRODUCER	THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.
	INSURERS AFFORDING COVERAGE
INSURED	INSURER A:
	INSURER B:
	INSURER C:
	INSURER D:
	INSURER E:

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THER TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	**GENERAL LIABILITY** ☐ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS MADE ☐ OCCUR ☐ OWNER'S & CONT. PROT ☐ OWNER'S PROTECTIVE LIABILITY GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☐ PROJECT ☐ LOC				EACH OCCURRENCE FIRE DAMAGE (Any one fire) MED (Any one person) PERS & ADV INJURY AL AGGREGATE ODUCTS – COMP/OP AGG	$ $ $ $ $ $
B	**AUTOMOBILE LIABILITY** ☐ ANY AUTO ☐ ALL OWNED AUTOS ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ☐ NON-OWNED AUTOS				COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ $ $ $
	GARAGE LIABILITY ☐ ANY AUTO				AUTO ONLY-EA ACCIDENT OTHER THAN AUTO ONLY EA ACC AGG	$ $ $
C	**EXCESS LIABILITY** ☐ OCCUR ☐ CLAIMS MADE ☐ DEDUCTIBLE ☐ RETENTION $				EACH OCCURENCE AGGREGATE	$ $
D	**WORKERS COMPENSATION AND EMPLOYER'S LIABILIT**				WC STATU-TORY LIMITS ☐ OTHER E.L. EACH ACCIDENT E.L. DISEASE-EA EMPLOYEE E.L. DISEASE-POLICY LIMIT	 $ $ $
	OTHER					

DESCRIPTION OF OPERATIONS / LOCATION / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

County of Hidalgo shall be named as additional insured on all Commercial General Liability policies.

CERTIFICATE HOLDER	ADDITIONAL INSURED; INSURER LETTER: _____ CANCELLATION
Hidalgo County **Attn: Purchasing Department** **2812 S Highway Bus. 281** **Edinburg, Texas 78539**	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BY CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL ***30*** DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES. AUTHORIZED REPRESENTATIVE

SAMPLE

Insurance Requirement Acknowledgment

I, _____, authorized representative for _____,
Company/Vendor

hereby acknowledge receipt of the County's required insurance limits. Said requirements:

will be acquired within 10 working days after notification from Purchasing Department of award of project by the Hidalgo County Commissioners' Court;

will acquire additional amounts required to meet the County's requirements within 10 working days after notification from Purchasing Department of award of project by the Hidalgo County Commissioners' Court; currently carry the following

Professional Liability (Errors & Omissions): $_____

Automobile Liability: $_____ General Liability: $_____

have already been met, see attached copy of insurance certificate.

_____ _____
Authorized Representative Date

Notice to Proposer:

A certificate of insurance for the required insurance limits shall be provided to the Purchasing Department's Contract Managers in order to qualify for award and to execute a contract between your Company and the County

Failure to provide Certificates of Insurance to the Purchasing Department's Contract Managers will cause the award to be rescinded and re-awarded to next qualified vendor. Certificates of Insurance will be monitored and verified on a **quarterly basis** to ensure coverage policy is in place. It is the Company's obligation to maintain the appropriate insurance coverage throughout the term of the contract.

THIS FORM MUST ACCOMPANY YOUR PACKET

PROJECT REQUIREMENTS ACKNOWLEDGMENT

This is to certify that I, _____, possess all of the **APPLICABLE**:

1. Licenses: _____
2. Bonds: _____
3. Certificates: _____
4. Permits: _____
5. Other: _____

necessary to carry out the required project. Furthermore, I am providing copies of the required documentation so that, if my company is awarded this project, I may be eligible to enter into a contract with Hidalgo County and proceed to complete the project in a timely manner.

*** Any licenses, bonds, certificates, permits, etc. which are required must be presented as part of the packet in order to expedite the evaluation process. Failure to provide said documentation will result in the disqualification of your proposal/qualification.**

_____ _____

Authorized Signature Date

_____

Company

_____

Address

_____

City, State, Zip

CONFLICT OF INTEREST QUESTIONNAIRE

FORM CIQ

For vendor or other person doing business with local governmental entity

This questionnaire reflects changes made to the law by H.B. 1491, 80th Leg., Regular Session.

This questionnaire is being filed in accordance with Chapter 176, Local Government Code by a person who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the person meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the person becomes aware of facts that require the statement to be filed. *See* Section 176.006, Local Government Code.

A person commits an offense if the person knowingly violates Section 176.006, Local Government Code. An offense under this section is a Class C misdemeanor.

OFFICE USE ONLY

Date Received

1 **Name of person who has a business relationship with local governmental entity.**

2 ☐ **Check this box if you are filing an update to a previously filed questionnaire.**

(The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date the originally filed questionnaire becomes incomplete or inaccurate.)

3 **Name of local government officer with whom filer has employment or business relationship.**

_____

Name of Officer

This section (item 3 including subparts A, B, C & D) must be completed for each officer with whom the filer has an employment or other business relationship as defined by Section 176.001(1-a), Local Government Code. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer named in this section receiving or likely to receive taxable income, other than investment income, from the filer of the questionnaire?

☐ Yes ☐ No

B. Is the filer of the questionnaire receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer named in this section AND the taxable income is not received from the local governmental entity?

☐ Yes ☐ No

C. Is the filer of this questionnaire employed by a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership of 10 percent or more?

☐ Yes ☐ No

D. Describe each employment or business relationship with the local government officer named in this section.

4

_____ _____

Signature of person doing business with the governmental entity Date

Adopted 06/29/2007

EXHIBIT "E"
PROPOSER'S AFFIDAVIT

PROPOSER'S AFFIDAVIT OF NON-COLLUSION
NON-CONFILICT OF INTERST, AND ANTI-LOBBYING

STATE OF TEXAS
COUNTY OF HIDALGO

Affiant, _____, being first duly sworn, deposes that:

(1) Affiant does hereby state neither the Proposer nor any of the Proposer's officers, partners, owners, agents, representatives, employees, or parties in interest, has in any way colluded, conspired, agreed, directly or indirectly with any person, firm, corporation, or other proposer, or potential proposer, to provide any money or other valuable consideration for assistance in procuring or attempting to procure a contract or fix the prices in the attached proposed or the proposal of any other proposer, and further states that no such money or other reward will be hereinafter paid.

(2) Affiant further states they have neither recommended or suggested to Hidalgo County or nay of its officials or employees, any of the terms or provisions set forth in their Request for Proposal and subsequent agreement, except at a meeting open to all interested proposers, of which proper notice was given.

(3) Affiant, further states their officers, employees, or agents have not, and will not attempt to lobby, directly or indirectly, the Hidalgo County Commissioner's Court between proposal submission date and award by the Hidalgo County Commissioner's Court.

(4) Affiant further states no officer, or stockholder of the Proposer is a member of the staff, or related to any employee of the Hidalgo County except as noted herein below:

Signature/Title: _____

Subscribed and sworn to before me this _____day of _____, 20_____

Notary Public_____

My commission expires:_____, 20_____.

HIDALGO COUNTY
PURCHASING DEPARTMENT
Proposer/Vendor Application

Complete in print or type. Please return this application to the Hidalgo County Purchasing Department thru Facsimile: (956) 318-2629, in person or regular mail to: 2802 South Business Hwy 281, Edinburg, Texas 78539 or e-mail: purchasing@co.hidalgo.tx.us

Company Name: **Telephone No. ( )**

dba Name:

Legal Name:

Mailing Address : **Fax No. ( )**

Physical Address:

City, State, Zip **Tax I.D. No.**

Remit to Address : **City, State, Zip**

E-Mail Address:

Representative(s) Name(s) & Title(s)

Type of Organization (check one): _____ **Individual** _____ **Partnership** _____ **Corporation** _____**Non-Profit** _____ **LLC** _____ **Sole Proprietor** _____ **Other, Specify** _____
State Identification No._____ **(Please attached completed W-9 form with this application)**
Federal Identification No. or (if individual) SS No. _____

State of Incorporation: _____ **Date:**_____ **Other**: _____

Type of Business (check one): _____ **Manufacturer** _____ **Wholesaler** _____ **Retailer** _____ **Broker** _____ **Distributor** _____ **Service Organization** _____ **Other, Specify** _____

Name & Title of Person(s) Authorized to Sign Bids, Proposals, and/or Contracts:

Small and/or Disadvantaged Business Information (check application criteria)

Small Business:

Less than 125,000 annual gross receipt
Less than 250,000 annual gross receipt
Less than 499,000 annual gross receipt
More than 500,000 annual gross receipt

Disadvantaged Business (At Least 51% Ownership)

Black American
Hispanic American
Asian Pacific American
Native American
Women
Other

Have you been certified as a HUB or an MBE/WBE source?: Yes No

Indicate Certification No.(s): _____ **or are Certificate(s) attached?:** Yes No

What type of product(s) is/are solicited by your company?: _____

Would you like to be provided with specifications for procurements of such products?: Yes No

To Be Completed by the County: Rec'd by (Purchasing):_____ **Date Rec'd by (Purchasing):**_____

Date Forwarded Information to Auditor's Office:_____**Entry Date:** _____ **Vendor No.:** _____

HISTORICALLY UNDERUTILIZED BUSINESS (HUB) DECLARATION

The primary objective of the Hidalgo County HUB Program is to ensure Historically Underutilized Businesses receive a fair and equal opportunity for participation in the County's procurement process. This fact holds true for Services (Professional & Non-Professional), Commodities, and Construction contracts and any subcontracts thereto. The program strongly encourages Prime Contractors to provide subcontracting opportunities to Certified Hub Contractors/Vendors. Our goal for HUB contractor/vendor participation, as well as HUB subcontractor participation is 30%. To be considered as a "Certified HUB Contractor/Vendor" the contractor/vendor must have been certified by, and hold a current and valid certification with any of the three agencies listed below.

Have you been Certified as a HUB or an MBE/WBE source?: Yes No

If yes, by whom?: Texas Building & Procurement Commission Other_____

Indicate Certification No(s).:_____ or Are Certificate(s) Attached?: Yes No

LIST OF CERTIFIED HUB SUBCONTRACTORS

(Attach additional pages if necessary)

What percentage of the Bid, RFP,or RFQ is to be subcontracted with Certified HUB sources?: ____% (List HUB Subcontractor information below).

HUB Subcontractor Name: _____ HUB Status: _____
Certifying Agency (Check all applicable): Texas Building & Procurement Commission Other _____
Address: _____ City: _____ State: _____ Zip: _____
Contact Person: _____ Title: _____ Phone No.: ( )_____
Subcontract Amount: $_____ Description of Work to be Performed: _____

HUB Subcontractor Name: _____ HUB Status: _____
Certifying Agency (Check all applicable): Texas Building & Procurement Commission Other _____
Address: _____ City: _____ State: _____ Zip: _____
Contact Person: _____ Title: _____ Phone No.: ( )_____
Subcontract Amount: $_____ Description of Work to be Performed: _____

HUB Subcontractor Name: _____ HUB Status: _____
Certifying Agency (Check all applicable): Texas Building & Procurement Commission Other _____
Address: _____ City: _____ State: _____ Zip: _____
Contact Person: _____ Title: _____ Phone No.: ( )_____
Subcontract Amount: $_____ Description of Work to be Performed: _____

Form **W-9**
(Rev. January 2011)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

Give Form to the requester. Do not send to the IRS.

Print or type See **Specific Instructions** on page 2.

Name (as shown on your income tax return)

Business name/disregarded entity name, if different from above

Check appropriate box for federal tax classification (required): ☐ Individual/sole proprietor ☐ C Corporation ☐ S Corporation ☐ Partnership ☐ Trust/estate

☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶

☐ Other (see instructions) ▶

☐ Exempt payee

Address (number, street, and apt. or suite no.)

Requester's name and address (optional)

City, state, and ZIP code

List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Social security number

			–		–				

Employer identification number

		–							

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. citizen or other U.S. person (defined below).

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 4.

Sign Here **Signature of U.S. person ▶** **Date ▶**

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),

2. Certify that you are not subject to backup withholding, or

3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the following cases:

- The U.S. owner of a disregarded entity and not the entity,
- The U.S. grantor or other owner of a grantor trust and not the trust, and
- The U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person, do not use Form W-9. Instead, use the appropriate Form W-8 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.

2. The treaty article addressing the income.

3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.

4. The type and amount of income that qualifies for the exemption from tax.

5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity not subject to backup withholding, give the requester the appropriate completed Form W-8.

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS a percentage of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,

2. You do not certify your TIN when required (see the Part II instructions on page 3 for details),

3. The IRS tells the requester that you furnished an incorrect TIN,

4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or

5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See the instructions below and the separate Instructions for the Requester of Form W-9.

Also see *Special rules for partnerships* on page 1.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account, for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of $50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a $500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Name

If you are an individual, you must generally enter the name shown on your income tax return. However, if you have changed your last name, for instance, due to marriage without informing the Social Security Administration of the name change, enter your first name, the last name shown on your social security card, and your new last name.

If the account is in joint names, list first, and then circle, the name of the person or entity whose number you entered in Part I of the form.

Sole proprietor. Enter your individual name as shown on your income tax return on the "Name" line. You may enter your business, trade, or "doing business as (DBA)" name on the "Business name/disregarded entity name" line.

Partnership, C Corporation, or S Corporation. Enter the entity's name on the "Name" line and any business, trade, or "doing business as (DBA) name" on the "Business name/disregarded entity name" line.

Disregarded entity. Enter the owner's name on the "Name" line. The name of the entity entered on the "Name" line should never be a disregarded entity. The name on the "Name" line must be the name shown on the income tax return on which the income will be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a domestic owner, the domestic owner's name is required to be provided on the "Name" line. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on the "Business name/disregarded entity name" line. If the owner of the disregarded entity is a foreign person, you must complete an appropriate Form W-8.

Note. Check the appropriate box for the federal tax classification of the person whose name is entered on the "Name" line (Individual/sole proprietor, Partnership, C Corporation, S Corporation, Trust/estate).

Limited Liability Company (LLC). If the person identified on the "Name" line is an LLC, check the "Limited liability company" box only and enter the appropriate code for the tax classification in the space provided. If you are an LLC that is treated as a partnership for federal tax purposes, enter "P" for partnership. If you are an LLC that has filed a Form 8832 or a Form 2553 to be taxed as a corporation, enter "C" for C corporation or "S" for S corporation. If you are an LLC that is disregarded as an entity separate from its owner under Regulation section 301.7701-3 (except for employment and excise tax), do not check the LLC box unless the owner of the LLC (required to be identified on the "Name" line) is another LLC that is not disregarded for federal tax purposes. If the LLC is disregarded as an entity separate from its owner, enter the appropriate tax classification of the owner identified on the "Name" line.

Other entities. Enter your business name as shown on required federal tax documents on the "Name" line. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on the "Business name/ disregarded entity name" line.

Exempt Payee

If you are exempt from backup withholding, enter your name as described above and check the appropriate box for your status, then check the "Exempt payee" box in the line following the "Business name/ disregarded entity name," sign and date the form.

Generally, individuals (including sole proprietors) are not exempt from backup withholding. Corporations are exempt from backup withholding for certain payments, such as interest and dividends.

Note. If you are exempt from backup withholding, you should still complete this form to avoid possible erroneous backup withholding.

The following payees are exempt from backup withholding:

1. An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2),

2. The United States or any of its agencies or instrumentalities,

3. A state, the District of Columbia, a possession of the United States, or any of their political subdivisions or instrumentalities,

4. A foreign government or any of its political subdivisions, agencies, or instrumentalities, or

5. An international organization or any of its agencies or instrumentalities.

Other payees that may be exempt from backup withholding include:

6. A corporation,

7. A foreign central bank of issue,

8. A dealer in securities or commodities required to register in the United States, the District of Columbia, or a possession of the United States,

9. A futures commission merchant registered with the Commodity Futures Trading Commission,

10. A real estate investment trust,

11. An entity registered at all times during the tax year under the Investment Company Act of 1940,

12. A common trust fund operated by a bank under section 584(a),

13. A financial institution,

14. A middleman known in the investment community as a nominee or custodian, or

15. A trust exempt from tax under section 664 or described in section 4947.

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 15.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 9
Broker transactions	Exempt payees 1 through 5 and 7 through 13. Also, C corporations.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 5
Payments over $600 required to be reported and direct sales over $5,000 [1]	Generally, exempt payees 1 through 7 [2]

[1] See Form 1099-MISC, Miscellaneous Income, and its instructions.

[2] However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney, and payments for services paid by a federal executive agency.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-member LLC that is disregarded as an entity separate from its owner (see *Limited Liability Company (LLC)* on page 2), enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note. See the chart on page 4 for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local Social Security Administration office or get this form online at *www.ssa.gov*. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at *www.irs.gov/businesses* and clicking on Employer Identification Number (EIN) under Starting a Business. You can get Forms W-7 and SS-4 from the IRS by visiting IRS.gov or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note. Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: *A disregarded domestic entity that has a foreign owner must use the appropriate Form W-8.*

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if item 1, below, and items 4 and 5 on page 4 indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on the "Name" line must sign. Exempt payees, see *Exempt Payee* on page 3.

Signature requirements. Complete the certification as indicated in items 1 through 3, below, and items 4 and 5 on page 4.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account [1]
3. Custodian account of a minor (Uniform Gift to Minors Act)	The minor [2]
4. a. The usual revocable savings trust (grantor is also trustee)	The grantor-trustee [1]
b. So-called trust account that is not a legal or valid trust under state law	The actual owner [1]
5. Sole proprietorship or disregarded entity owned by an individual	The owner [3]
6. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulation section 1.671-4(b)(2)(i)(A))	The grantor*
For this type of account:	**Give name and EIN of:**
7. Disregarded entity not owned by an individual	The owner
8. A valid trust, estate, or pension trust	Legal entity [4]
9. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
10. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
11. Partnership or multi-member LLC	The partnership
12. A broker or registered nominee	The broker or nominee
13. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
14. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulation section 1.671-4(b)(2)(i)(B))	The trust

[1] List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

[2] Circle the minor's name and furnish the minor's SSN.

[3] You must show your individual name and you may also enter your business or "DBA" name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

[4] List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships* on page 1.

***Note.** Grantor also must provide a Form W-9 to trustee of trust.

Note. If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records from Identity Theft

Identity theft occurs when someone uses your personal information such as your name, social security number (SSN), or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Publication 4535, Identity Theft Prevention and Victim Assistance.

Victims of identity theft who are experiencing economic harm or a system problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

Protect yourself from suspicious emails or phishing schemes. Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to *phishing@irs.gov.* You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at: *spam@uce.gov* or contact them at *www.ftc.gov/idtheft* or 1-877-IDTHEFT (1-877-438-4338).

Visit IRS.gov to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.

Certification
Regarding Debarment, Suspension and Ineligibility

As is required by the Federal Regulations Implementing Executive Order 12549, Debarment and Suspension, 45 CFR Part 76, Government-wide Debarment and Suspension, the applicant certifies, to the best of his or her knowledge and belief, that both it and its principals:

a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency;

b. Have not within a three-year period preceding this bid proposal and/or application been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state, or local) transaction or contract under a public transaction, violation of federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

c. Are not presently indicted for or otherwise criminally or civilly charged by a government entity with commission of any of the offenses enumerated herein; and

d. Have not within a three-year period preceding this bid proposal and/or application had one or more public transactions terminated for cause or default.

Signature:_____
Print Name:_____
Title:_____
Telephone Number:_____
Date:_____

If the bidder is unable to certify to all of the statements in this Certification, such bidder should attach an explanation to this proposal.

HIDALGO COUNTY
(Including all funding sources, programs, and entities)
REQUEST FOR QUALIFICATIONS
PROFESSIONAL ENGINEERING SERVICES POOL

RFQ No.: 2013-002-12-05-YZV

RFQ SUBMITTAL CHECK LIST

All forms listed below must be included in the RFQ response.

Indicate with a check mark (✓) the Forms completed and included in this response:

_____ Page 9 of Legal Notice

_____ Attachment "B" –Procurement Form –Areas of Specialization

_____ Exhibit "C" -Acknowledgement forms (pages 3 and 4)

_____ Exhibit "D" -CIQ Form -Copy of County Clerk File Recording fee receipt.

_____ Exhibit "E" –Proposers Affidavit

_____ Vendor Bidder Application and IRS form W-9

_____ Certification Regarding Debarment

_____ One Original, 7 Copies, and 2 CD's containing a complete copy of Response.

EXHIBIT A
-Scope of Services to be provided by the Owner

The following provides an outline of the services to be provided by the **OWNER** in the development of the Project.

The **OWNER** will provide to the **ENGINEER** the following:

(1) Authorization to the **ENGINEER** to begin work in accordance with Section 3 of this Agreement.

(2) Payment for work performed by the **ENGINEER** and accepted by the **OWNER** in accordance with Section 6 of the Agreement.

(3) Assistance to the **ENGINEER,** as necessary, to obtain the required data and information from other local, regional, State and Federal agencies that the **ENGINEER** cannot easily obtain.

(4) Provide any available relevant data the **OWNER** may have on file concerning the project.

(5) Provide timely review and decisions in response to the **ENGINEER'S** request for information and/or required submittals and deliverables, in order for the **ENGINEER** to maintain the agreed-upon work schedule prepared in accordance with Attachment "C" of this Agreement.

(6) Attend and participate in progress meetings as required and as coordinated and conducted by the **ENGINEER.**

(7) Assist the **ENGINEER** in the preparation of the project mailing list; provide representation, a site and stenographer for all public meetings; additionally:

Public Meetings

(a) Approve agenda and all exhibits prior to public meeting.
(b) Approve date and location of the meeting.
(c) Review/approve Public Meeting Report.

(8) Attend the Preliminary Concept Conference coordinated and conducted by the ENGINEER and more particularly identified in Attachment "B" of the Agreement.

(9) Assist the ENGINEER as required in the coordination with the USACE and the Federal Emergency Management Agency (FEMA) and any other coordinating agency or entity.

(10) Review and approve the Project design criteria.

(11) Review and approve change orders as required and prepared by the ENGINEER.

EXHIBIT B

-Scope of Services to be provided by the Engineer

Warehouse Facility at Precinct 4

PREPARED BY:

LAZCAMREA, LLC d/b/a **FULCRUM CONSULTING SERVICES**

FULCRUM
CONSULTING SERVICES

PLANNERS * ENGINEERS * ARCHITECTS * SURVEYORS

PROPOSAL #:PN-100813D

November 5, 2013

Hidalgo County Precinct No. 4
Joseph Palacios, Commissioner
1051 N. Doolittle Rd.
Edinburg, Texas 78542

Re: Warehouse Foundation

Dear Mr Palacios,

Fulcrum Consulting Services (FCS) is pleased to submit this proposal for the preparation of civil plans and specifications for the above referenced project. The plans and specifications will be for the following proposed items

1. Warehouse Foundation Plan - 20'x60'

PROJECT UNDERSTANDING

FCS understands that our scope of services will include the preparation of civil engineering construction documents that will encompass the warehouse building foundation. The range of services will include the following:

a) Topographic survey, site design and grading plan
b) Foundation design to include details, plan and profile
c) Construction staking
d) TWO (2) Site Visits

SCHEDULE

FCS proposes to deliver the civil engineering construction documents in approximately 8 weeks from the time that we receive written authorization to proceed. Completion of these services may be affected by the availability of information from other parties and other factors out of our control.

FEES

The fees to provide the services listed above have been determined on a lump sum basis. Based on the information provided and the proposed scope of work required, FCS will perform the listed civil engineering services for the lump sum of ONE THOUSAND SIXTY-EIGHT DOLLARS ($1,068.00). The fees include the submittal of one electronic copy in PDF format. The breakdown of this lump sum is as follows:

Item		Estimated Cost
1. Warehouse Foundation (20'x60')		$9,600.00
	Total =	$9,600.00

With an 8% Engineering Fee: $9,600.00 x 8% = $768.00
Each site visit costs $150.00.
The Total Engineering Fee plus site visits is $1,068.00.

The following efforts are not included as part of this proposal but can be performed at an additional expense:

a) Full-time Inspection.

AUTHORIZATION

To authorize our services, please sign and complete the attached proposal authorization and return one copy of the authorized proposal to our office. We will proceed with the work upon receipt of proposal authorization. If you should have any questions or require additional information, please call. We look forward to working with you on this and future projects.

Sincerely,
Fulcrum Consulting Services

Raul Ysquierdo Jr.
FCS Graduate Project Engineer

XC: Fulcrum Consulting Services - Office File

EXHIBIT C
-Work Schedule

A detailed work schedule for each **Work Authorization**, identified and more particularly described in Article 7 of this Agreement, shall be prepared by the **Engineer** to be submitted and approved by the Owner in writing for each **Work Authorization**. The work schedule will provide specific work sequence and definite review times by the **Owner** and the **Engineer** of the work performed.

The **Engineer** will diligently pursue the completion of each **Work Authorization** as defined by the milestones and deliverable due dates outlined in each **Work Authorization**'s associated work schedule.

The **Engineer** will inform the **Owner** (in reasonable advance of the delay) should the **Engineer** encounter delays that would prevent the performance of all work in accordance with the established work schedule.

EXHIBIT D

-Engineer's Contract Rates

FOR

Warehouse Facility at Precinct 4

SUBMITTED BY:

LAZCAM REA, LLC d/b/a **FULCRUM CONSULTING SERVICES**

HIDALGO COUNTY PCT. No. 4

Project Name: Warehouse Project

Planning & Engineering	Principal	Project Engineer	Design Engineer	Engineering Technician	CAD Tech.	CAD Tech.	Admin. Assist.
101 - Project Adminstration	0	1	1	0.5	0	0	0
101- Field Work & Design Critieria	0	1	1	0.5	0	0	0
101 - Final Design	0	1	1	0.5	0	0	0
101 - Construction	0	1	1	0	0	0	0
TOTAL HOURS	0	4	4	1.5	0	0	0
BILLING RATE	$150.00	$140.00	$110.00	$45.33	$29.80	$60.00	$50.00
SUBTOTAL - LABOR COST	$0.00	$560.00	$440.00	$68.00	$0.00	$0.00	$0.00
TOTAL ENGINEERING							$1,068.00

EXHIBIT E
-Work Authorization

HIDALGO COUNTY
Professional Engineering Services
Contract # C-13-281-11-19
Work Authorization Form

WORK AUTHORIZATION NO. ___

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of Section I.A. of the Agreement made by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner's Court**, hereinafter called the "**Owner**," and, **LAZCAMREA, LLC** d/b/a **FULCRUM CONSUTLING SERVICES,** professional engineers of **La Feria, Texas**, hereinafter called "**Engineer**".

PART 1. SCOPE OF WORK
The purpose of this Work Authorization is for the **Engineer** to provide

_____

_____

The scope of services to be provided by the **Owner** is identified in ***EXHIBIT "A" – Scope of Services to be provided by the Owner*** attached hereto.

The scope of services to be provided by the **Engineer** is identified in ***EXHIBIT "B" – Scope of Services to be provided by the Engineer*** attached hereto.

PART 2. ESTIMATED COST
The estimated cost for services under this Work Authorization is **$** _____. This amount is based upon the costs outlined in the Estimated **Cost Proposal** attached hereto as **EXHIBIT "D".**

PART 3. PAYMENT
Compensation and payment to the Engineer for the services established under this Work Authorization shall be made in accordance with **Article**/Part/Section **7** of the Agreement.

PART 4. FUNDING
This Work Authorization No.1 shall be funded through funding source:
Account No**.** _____
Requisition Number _____ **(MUST BE INCLUDED AFTER CC APPROVAL)**

PART 5. PERIOD OF SERVICE
This Work Authorization shall become effective on the date of final acceptance of the parties hereto, and terminate ***upon completion of scopes of the work authorization***.

PART 6. RESPONSIBILITIES AND OBLIGATIONS
This Authorization does not waive the parties' responsibilities and obligations provided under the **Agreement**.

PART 7. ACKNOWLEDGEMENT AND CONFIRMATION
Acknowledgement and confirmation by **Hidalgo County Precinct No. 4,** Commissioner Joseph Palacios as to content and detail of this **Work Authorization No.** ___.

HIDALGO COUNTY PRECINCT No. 4

BY: _____
Joseph Palacios, Commissioner

PART 8. ACCEPTANCE AND APPROVAL
This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on _____ as indicated below and effective as of ____ day of _____**,** 2013.

THE ENGINEER:
LAZCAMREA, LLC d/b/a
FULCRUM CONSULTING SERVICES

By: Jorge Lazaro, P.E.-General Manager

THE OWNER:
HIDALGO COUNTY

By: Ramon Garcia, County Judge

ATTEST:

By: Arturo Guajardo, Jr., County Clerk

LIST OF ATTACHMENTS

ATTACHMENT "A" - Service to be provided by the Owner
ATTACHMENT "B" - Services to be provided by the Engineer
ATTACHMENT "C" - Work Schedule
ATTACHMENT "D" - Cost Proposal

EXHIBIT F
-Supplemental Agreement Form

THE STATE OF TEXAS §
§
COUNTY OF HIDALGO §

SUPPLEMENTAL AGREEMENT No. __
TO AGREEMENT FOR PROFESSIONAL SERVICES

THIS **SUPPLEMENTAL AGREEMENT** is made pursuant to the terms and conditions of Article 8 of the Agreement made by and between **HIDALGO COUNTY**, acting herein by and through the **Commissioner's Court**, hereinafter called the "**Owner**", and _____**,** Professional Engineers of, _____, Texas, hereinafter called the "**Engineer**".

WITNESSETH

WHEREAS, the **Owner** and the **Engineer** executed the **Agreement** on the _____ day of _____ **2013** concerning engineering for _____ (hereinafter referred to as the "**Project**"); and,

WHEREAS, Article ___ of the **Agreement**, (article title), establishes _____; and,

WHEREAS, it has become necessary to amend the contract to _____

AGREEMENT

NOW THEREFORE, premises considered, the **Owner** and the **Engineer** agree that said **Agreement** is amended as follows:

I. Article ___ of the **Agreement**, (article title), is revised to

_____
_____
_____
_____
_____
_____

All other provisions are unchanged and remain in full force and effect.

IN WITNESS WHEREOF, the Engineer and the Owner have caused this Supplemental Agreement to the Agreement for Professional Services to be executed as of the _____ day of _____, 20__.

THE ENGINEER:

BY:_____

THE OWNER:
HIDALGO COUNTY

BY:_____
Ramon Garcia, County Judge

LIST OF ATTACHMENTS

(as required)

EXHIBIT G

-Certificate of Insurance (*Hidalgo County*)

FOR

Warehouse Facility at Precinct 4

SUBMITTED BY:

LAZCAMREA, LLC d/b/a **FULCRUM CONSULTING SERVICES**

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 11/13/2013

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
JOHN FTACEK
101 S MAIN ST
StateFarm LA FERIA, TX 78559

CONTACT NAME: JOHN FTACEK
PHONE (A/C, No, Ext): 956-797-2881 **FAX (A/C, No):** 956-797-1803
E-MAIL ADDRESS:

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : STATE FARM LLOYDS INSURANCE COMPANY	
INSURER B : STATE FARM MUTUAL INURANCE COMPANY	
INSURER C : TEXAS MUTUAL INSURANCE COMPANY	
INSURER D : STATE FARM FIRE AND CASUALTY COMPANY	
INSURER E :	
INSURER F :	

INSURED
LAZ CAMREA, LLC DBA: FULCRUM CONSULTING SERVICES
207 EAST MAGNOLIA AVENUE
LA FERIA, TX 78559

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS		
A	GENERAL LIABILITY [X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [X] POLICY [ ] PRO-JECT [ ] LOC			90-B4-W575-5	08/12/2013	08/12/2014	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ $ $ $ $ $	1,000,000 5,000 2,000,000
B	AUTOMOBILE LIABILITY [ ] ANY AUTO [ ] ALL OWNED AUTOS [X] SCHEDULED AUTOS [ ] HIRED AUTOS [ ] NON-OWNED AUTOS			200-3651-F27-53B	06/27/2013	12/27/2013	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ $ $ $	1,000,000
	[ ] UMBRELLA LIAB [ ] OCCUR [ ] EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [ ] RETENTION $						EACH OCCURRENCE AGGREGATE	$ $	
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICE/MEMBER EXCLUDED? Y/N [Y] (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		SBP-001240295-20120713	07/13/2013	07/13/2014	[ ] WC STATU-TORY LIMITS [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ $ $	 1,000,000 1,000,000 1,000,000
D	ARCHITECTS AND ENGINEERS PROFESSIONAL LIABILITY INSURANCE POLICY			PS0000004408901	08/30/2013	08/302014	1,000,000 - LIMIT OF LIAB EACH CLAIM 1,000,000 - TOTAL LIMIT OF LIABILITY		

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

SEE ATTACHMENT OF SCHEDULED AUTOS

CERTIFICATE HOLDER

HIDALGO COUNTY PRECINCT #4
1051 N DOOLITTLE ROAD
EDINBURG, TX 78542

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

John Ftacek

© 1988-2010 ACORD CORPORATION. All rights reserved.

AGENCY CUSTOMER ID: _____

LOC #: _____

ADDITIONAL REMARKS SCHEDULE

AGENCY		NAMED INSURED
JOHN FTACEK STATE FARM INSURANCE AGENCY		HIDALGO COUNTY PRECINCT #4 1051 N DOOLITTLE ROAD EDINGBURG, TX 78542
POLICY NUMBER 200 3651-F27-53C		
CARRIER STATE FARM MUTUAL	NAIC CODE	EFFECTIVE DATE:

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: 25 FORM TITLE: CERTIFICATE OF LIABILITY INSURANCE

SCHEDULE OF VEHICLES:

1	2008	CHEVROLET SUBURBAN	3GNFC16088G101803
2	2008	FORD E150	1FTNE14W08DB52831
3	2008	FORD F250 SD	1FTSW21R18EB54067
4	2011	CHEVROLET TAHOE	1GNSCBE08BR364564
5	2012	CHEVROLET SUBURBAN	1GNSCJE05CR541185
6	2006	FORD F250 SD	1FTSW20546EA21282

© 2008 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD

Zimbra **leticia.saenz@co.hidalgo.tx.us**

RE: Review & Approve - Contract # C-13-281-11-19-LAZCAMREA d/b/a Fulcrum Consulting Services (Ware House Facility at Precinct 4)

From : Steve Crain <scrain@atlashall.com> Mon, Nov 18, 2013 12:41 PM

Subject : RE: Review & Approve - Contract # C-13-281-11-19-LAZCAMREA d/b/a Fulcrum Consulting Services (Ware House Facility at Precinct 4) 1 attachment

To : 'Leticia H. Saenz' <leticia.saenz@co.hidalgo.tx.us>

The agreement is fine.

From: Leticia H. Saenz [mailto:leticia.saenz@co.hidalgo.tx.us]
Sent: Monday, November 18, 2013 11:57 AM
To: Steve Crain; Marynel Trevino
Subject: Fwd: Review & Approve - Contract # C-13-281-11-19-LAZCAMREA d/b/a Fulcrum Consulting Services (Ware House Facility at Precinct 4)
Importance: High

Good Morning, Mr. Crain-

Can you please give me status on review and approval of the attached agreement.

Note: Its has been placed for final approval on tomorrow's CC.

Please advise.

Thank you and have a great day…

Leticia H. Saenz, CPPB/Contracts Manager
Hidalgo County Purchasing Department
2812 South Business Highway 281
Edinburg, Texas 78539
P*(956) 318-2626* ***F****(956) 318-2629*
Email: *leticia.saenz@co.hidalgo.tx.us*

…DON'T WORRY…BE HAPPY…

From: "Leticia H. Saenz" <leticia.saenz@co.hidalgo.tx.us>
To: "Steve Crain" <scrain@atlashall.com>, "Marynel Trevino" <mntrevino@atlashall.com>
Sent: Friday, November 15, 2013 1:28:29 PM
Subject: Review & Approve - Contract # C-13-281-11-19-LAZCAMREA d/b/a Fulcrum Consulting Services (Ware House Facility at Precinct 4)

Good afternoon, Mr. Crain-

Please review and approve as to form, attached hereto, **Professional Services Agreement #C-13-281-11-19** with **LAZCAMREA** d/b/a **Fulcrum Consulting Services** for **"job specific"-Warehouse Facility at Precinct 4.**

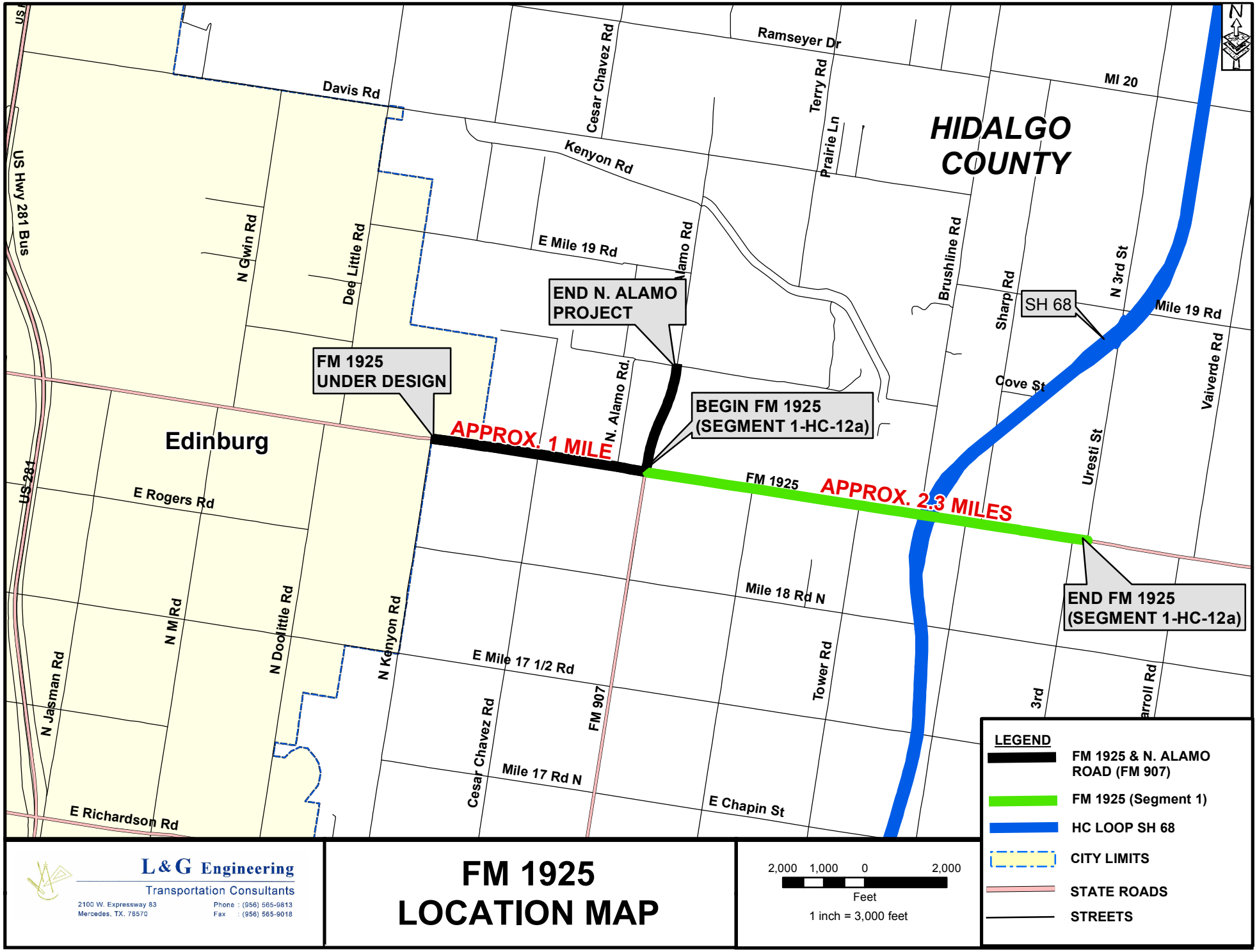
*******Note: This agreement will be placed on next Tuesday's CC agenda for final approval.***

Thank you.

Leticia H. Saenz, CPPB/Contracts Manager
Hidalgo County Purchasing Department
2812 South Business Highway 281
Edinburg, Texas 78539
P*(956) 318-2626* ***F****(956) 318-2629*
Email: *leticia.saenz@co.hidalgo.tx.us*

...DON'T WORRY...BE HAPPY...

image001.gif
345 B



L&G Engineering
Transportation Consultants
2100 W. Expressway 83
Mercedes, TX. 78570
Phone : (956) 565-9813
Fax : (956) 565-9018

FM 1925 LOCATION MAP

AI-41839 **Purchasing Department 17. C. 1.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: Hon. Guadalupe **Submitted By:** Vangie Garcia, PURCHASING DEPT.

Department: PURCHASING DEPT.

Information

CAPTION

a. Action to amend the Sole Source Declaration (approved-CC-03/13/12-AI#31263) for Elections Department) with Environmental Systems Research Institute to add the Hidalgo County Sheriff's Office and any future applicable County elected offices, departments, programs or agencies including the purchase of any future hardware, software maintenance, technical support/updates/upgrades/licenses and any other pertinent related services under Environmental Systems Research Institute (ESRI);

b. Approval for the continuation of the software maintenance services (detailed under background)with ending term of October 31, 2014 thru requsition #245642 for the amount of $4,000.00 and thereafter on yearly basis pursuant to the aforementioned line item through the life term use by department user including the signing of required document by County Judge, Court Member.

BACKGROUND

Continuation of the software services are for the ArcGIS for Desktop Standard (formerly ArcEditor) Concurrent Use Primary Maintenance, ArcGIS for Server Workgroup Standard One Core Additional Maintenance and the ArcGIS for Server Workgroup Standard Up to Two Cores Maintenance.

NOTE: The software enables Sheriff's Office and the 911 Center to pin point exactly on the map where Hidalgo County Deputies are at all times by displaying real time and motion as they are driving. Sheriff's Office rely on this software for the safety of their Officers among other extreme services.

Fiscal Impact

FISCAL YEAR: 2013 **ACCT. #:** 1100-421-00-280-001-0-336

FUNDS AVAILABLE Y/N?: **MATCHING FUNDS Y/N?:**

BUDGETARY IMPACT:

Attachments

ESRI'S DOCUMENTATION

PREVIOUS AGENDA

Form Review

Inbox	Reviewed By	Date
Purchasing Department	Marty Salazar	11/15/2013 02:46 PM
Budget & Management	Obdett Calzada	11/15/2013 02:56 PM
Auditor's Office	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Vangie Garcia Started On: 11/14/2013 02:35 PM

Final Approval Date: 11/15/2013

Req 245642

Esri Inc
380 New York Street
Redlands CA 92373

C-13-085-11-06

SUBJECT: MAINTENANCE QUOTE

DATE: 10/04/2013
TO: Mike Garza
ORGANIZATION: County of Hidalgo
Sheriffs Office
FAX #: **PHONE #:** 956-457-4862

FROM: Barbara Walker
FAX #: 909-307-3083 **PHONE #:** 909-793-2853 Ext. 3936
EMAIL: bwalker@esri.com

Number of pages transmitted (including this cover sheet): 3

QUOTATION #25589154
DOCUMENT DATE: 07/30/2013

Please find the attached quotation for your forthcoming software maintenance term. Keeping your maintenance current entitles you to exclusive benefits, and if you choose to discontinue your coverage, you will become ineligible for these valuable benefits and services. All maintenance fees from the date of discontinuation will be due and payable if you decide to reactivate your coverage at a later date. For details regarding the maintenance program benefits for your licensing, please visit http://www.esri.com/maintenancebenefits.

Customers who have multiple copies of some Esri products may have the option of supporting some of their licenses with secondary maintenance. Please contact Customer Service to find out more about the availability of secondary maintenance.

For information about Esri Desktop, Developer software, or Web services terms of use, as well as purchase order terms and conditions, please visit http://www.esri.com/legal/licensing/software-license.html.

Do you need training? You can get affordable Esri software training for your entire organization with a subscription to Esri Virtual Campus. To find out how, visit the campus: http://training.esri.com/gateway/index.cfm

For details about ECP discounts and waivers for non-profit users please visit http://www.conservationgis.org/grant

If you have any questions or need additional information, please contact Customer Service at 888-377-4575 Option 5.

380 New York Street
Redlands, CA 92373
Phone: 909-793-28533936
Fax #: 909-307-3083

Quotation

Date: 07/30/2013 **Quotation Number:** 25589154

Send Purchase Orders To:
Esri, Inc.
380 New York Street
Redlands, CA 92373-8100
Attn: Barbara Walker

Please include the following remittance address on your Purchase Order:
Esri, Inc.
File #54630
Los Angeles, CA 90074-4630

County of Hidalgo
Sheriffs Office
P.O. Box 1228
Edinburg TX 78540-1228
Attn: Mike Garza

Customer Number: 432840
For questions regarding this document, please contact Customer Service at 888-377-4575.

Item	Qty	Material#	Unit Price	Extended Price
10	1	86497 ArcGIS for Desktop Standard (formerly ArcEditor) Concurrent Use Primary Maintenance Start Date: 11/01/2013 End Date: 10/31/2014	1,500.00	1,500.00
1010	2	109271 ArcGIS for Server Workgroup Standard One Core Additional Maintenance Start Date: 11/01/2013 End Date: 10/31/2014	625.00	1,250.00
2010	1	109900 ArcGIS for Server Workgroup Standard Up to Two Cores Maintenance Start Date: 11/01/2013 End Date: 10/31/2014	1,250.00	1,250.00

Subtotal	4,000.00
Estimated Tax	0.00
Total	**$ 4,000.00**

DUNS/CEC: 06-313-4175 CAGE: 0AMS3

This quotation is valid for 90 days and is subject to your Esri License Agreement. The quotation information is proprietary and may not be copied or released other than for the express purpose of system selection and purchase/license. This information may not be given to outside parties or used for any other purpose without consent from Environmental Systems Research Institute, Inc. (Esri).

Any estimated sales and/or use tax has been calculated as of the date of this quotation and is merely provided as a convenience for your organization's budgetary purposes. Esri reserves the right to adjust and collect sales and/or use tax at the actual date of invoicing. If your organization is tax exempt or pays state taxes directly, then prior to invoicing, your organization must provide Esri with a copy of a current tax exemption certificate issued by your state's taxing authority for the given jurisdiction.

Esri may charge a fee to cover expenses related to any customer requirement to use a third party vendor management, procurement, or invoice program.

Issued By: Barbara Walker **Ext:** 3936

[LEHMANNH]

To expedite your order, please reference your customer number and this quotation number on your purchase order.

380 New York Street
Redlands, CA 92373
Phone: 909-793-28533936
Fax #: 909-307-3083

Quotation

Date: 07/30/2013 **Quotation No:** 25589154 **Customer No:** 432840

Item	Qty	Material#	Unit Price	Extended Price

IF YOU WOULD LIKE TO RECEIVE AN INVOICE FOR THIS MAINTENANCE QUOTE YOU MAY DO ONE OF THE FOLLOWING:

- RESPOND TO THIS EMAIL WITH YOUR AUTHORIZATION TO INVOICE
- SIGN BELOW AND FAX TO 909-307-3083
- FAX YOUR PURCHASE ORDER TO 909-307-3083

REQUESTS VIA EMAIL OR SIGNED QUOTE INDICATE THAT YOU ARE AUTHORIZED TO OBLIGATE FUNDS FOR YOUR ORGANIZATION AND THAT YOUR ORGANIZATION DOES NOT REQUIRE A PURCHASE ORDER.

If there are any changes required to your quotation, please respond to this email and indicate any changes in your invoice authorization.

If you choose to discontinue your support, you will become ineligible for support benefits and services. All maintenance fees from the date of discontinuation will be due and payable if you decide to reactivate your support coverage at a later date.

This transaction is governed exclusively by the terms of the above-referenced contract, if any, or Esri's standard terms and conditions at www.esri.com/legal.

In order to expedite processing, please reference the quotation number and any/all applicable Esri contract number(s) (e.g. MPA, ELA, SmartBuy, GSA, BPA) on your ordering document.

By signing below, you are authorizing Esri to issue a software support invoice in the amount of $_____ plus sales tax, if applicable.

Please check one of the following:

_____ I agree to pay any applicable sales tax.

_____ I am tax exempt. Please contact me if Esri does not have my current exempt information on file.

Please indicate on your purchase order if this purchase is funded through the American Recovery and Reinvestment Act, and whether Esri is a Prime Recipient, Sub-recipient, or Vendor for reporting purposes.

_____ _____

Signature of Authorized Representative Date

_____ _____

Name (Please Print) Title

{LEHMANNH}

SOLE SOURCE LETTER

Environmental Systems Research Institute, Inc. (Esri)
380 New York Street
Redlands, CA 92373
E-mail: jricks@esri.com

DATE: May 6, 2013

TO: To Whom It May Concern

RE: Esri Sole Source Justification for Geographic Information System Software

This letter confirms that Esri, as owner and manufacturer, is the sole-source provider of **software maintenance** (technical support plus Esri software updates/upgrades) for Esri products.

Esri is the sole-source provider of the following Esri products in the commercial, state, and local government marketplace:

- ArcGIS for Aviation Bundle
- ArcGIS for Desktop Advanced
- ArcGIS for Desktop Standard
- ArcGIS for Maritime: Bathymetry Bundle
- ArcGIS for Maritime: Charting Bundle
- ArcGIS for Server and extensions
- ArcGIS Online (excluding data owned by 3rd party providers)
- ArcGIS Runtime and Extensions
- Certain proprietary training courses
- Esri Business Analyst Server
- Esri Defense Mapping Bundle
- Esri Developer Network (EDN) subscriptions
- Esri MapStudio
- Esri Roads and Highways
- Portal & Hosted Portal for ArcGIS

In an effort to support diversity in federal contracting, Esri has authorized certain small and/or disadvantaged companies (see GSA Advantage! for details) as resellers of Esri products to eligible entities purchasing under a GSA Schedule, including the following products otherwise available only from Esri:

- ArcGIS for Aviation Bundle
- ArcGIS for Desktop Advanced
- ArcGIS for Desktop Standard
- ArcGIS for Maritime: Bathymetry Bundle
- ArcGIS for Maritime: Charting Bundle
- ArcGIS for Server and extensions
- Certain Esri instructor-led training courses
- Esri Business Analyst Server
- Esri Defense Mapping
- Esri Production Mapping

Esri distributes certain software licenses, ***excluding those listed above***, through open-market value-added resellers and distributors.

If you have further questions, please contact me at 909-793-2853, extension 1-1990.

Sincerely,

Jackie Ricks

AI-31263 **22. F. 2.**

CC REGULAR

Meeting Date: 03/13/2012

Submitted By: Tanya Delira, PURCHASING DEPT.

Department: PURCHASING DEPT.

Information

CAPTION

Elections Department:

1. Requesting exemption from competitive bidding requirements under Texas Local Government Code, Chapter 262.024, (a)(7)

2. Approval of a "Sole Source Declaration" with Enviromental Systems Research Institute for purchase or licenses, maintenance and support services and authority to purchase 2 ArcEditor Concurrent Use Upgrade from ArcView Single Use thru requistion 20953 in the amount of $9,900.00.

BACKGROUND

Fiscal Impact

FISCAL YEAR: 2012 ACCT. #: 2-1100-414-00-130-001-0-747

FUNDS AVAILABLE Y/N?: Y MATCHING FUNDS Y/N?:

BUDGETARY IMPACT:

Req#209531 available for $9,900.00

Attachments

ESRI 209531
ESRI AFFIDAVIT
ESRI SOLE SOURCE LETTER
ESRI ELECTIONS LETTER
legal approval

Form Review

Inbox	Reviewed By	Date
Budget & Management	Merlen P. Munoz	02/29/2012 10:03 AM
Roland Garcia	Rolando Garcia	03/08/2012 01:17 PM
Auditor's Office	Monica Badillo	03/09/2012 05:05 PM

Form Started By: Tanya Delira Started On: 02/29/2012 08:55 AM

Final Approval Date: 03/09/2012

Requisition

Req # 00209531

PO #

Date: 01/19/12

Bill To: x
x

Vendor : 306703
ENVIRONMENTAL SYSTEMS RESEARCH INSTI'
INC. DBA ESRI
380 NEW YORK STREET
REDLANDS CA 92373-8100
FAX (909)793-5953

Ship To: ELECTIONS
101 S. 10TH AVENUE
EDINBURG TX 78539

Contact: **Mel Esparza**
956-318-2570

Contract No:

Special Instructions:

QUANTITY	UOM	DESCRIPTION	UNIT PRICE	AMOUNT
		DO NOT DUPLICATE ORDER		
2.00		ArcEditor Concurrent Use Upgrade from ArcView Single Use; item# 102583	4,950.00	9,900.00
1.00				.00
		Account No	Encumbrance	
		2-1100-414-00-130-001-0-747	9,900.00	
			Freight	.00
			Total	9,900.00
		REPORT ROAD HAZARDS 1-866-HCR-SAFE OR 1-866-427-7233		

Authorized By: _____

esri

Quotation # 20397386

Date: December 12, 2011

ENVIRONMENTAL SYSTEMS RESEARCH INSTITUTE, INC.
380 New York St
Redlands, CA 92373-8100
Phone: (909) 793-2853 Fax: 1 (909) 307-3049
DUNS Number: 06-313-4175 CAGE Code: 0AMS3

To expedite your order, please attach a copy of this quotation to your purchase order.
Quote is valid from: 12/12/2011 To: 06/09/2012

Customer # 431226 Contract #

COUNTY OF HIDALGO
ELECTIONS DEPT
101 S 10 AVE
EDINBURG, TX 78539

ATTENTION: Veronica Lopez
PHONE: (956) 318-2570
FAX:

Material	Qty	Description	Unit Price	Total
102583	2	ArcEditor Concurrent Use Upgrade from ArcView Single Use*	4,950.00	9,900.00
			Item Total:	9,900.00
			Subtotal:	9,900.00
			Sales Tax:	0.00
			Estimated Shipping & Handling(2 Day Delivery) :	0.00
			Contract Pricing Adjust:	0.00
			Total:	$9,900.00

*A volume discount has been applied. Quantity discounts apply on a per-order, per-item basis. If you wish to purchase a different number of licenses, please contact me for a revised quotation with adjusted per-unit pricing.

Software must be current on maintenance in order to be eligible for upgrade. You may review the maintenance status of your licenses using the Esri Customer Care Portal at https://customers.esri.com or by calling Customer Service at 888-377-4575. Your annual maintenance will be adjusted to reflect the rate of the upgraded license at the next maintenance renewal term. Along with payment, Esri must receive a completed 'Certificate of Uninstallation' (attached) before your order can be processed.

The following items are optional items listed for your convenience.
These items are not included in the totals of this quotation.

Material	Qty	Description	Unit Price	Total
86497	1	ArcEditor Concurrent Use Primary Maintenance (FYI, year 2)	1,500.00	1,500.00
86500	1	ArcEditor Concurrent Use Secondary Maintenance (FYI, year 2)	1,200.00	1,200.00

* Please indicate on your purchase order if this purchase is funded through the American Recovery and Reinvestment Act, and whether Esri is a Prime Recipient, Sub-recipient, or Vendor for reporting purposes.

For questions contact: Sandra Evich **Email:** sevich@esri.com **Phone:** (909) 793-2853 x1720

Acceptance of this quotation is limited to the Esri License Agreement and the Quotation Terms and Conditions
This Quotation is made in confidence for your review. It may not be disclosed to third parties, except as required by law.

If sending remittance, please address to: Esri, File No. 54630, Los Angeles, Ca 90074-4630

EVICHS

This offer is limited to the terms and conditions incorporated and attached herein.

ESRI QUOTATION TERMS AND CONDITIONS

Esri, 380 New York St., Redlands, CA 92373-8100 USA • TEL 909-793-2853 • FAX 909-793-5953

All quotations are valid for ninety (90) days unless otherwise stated on the quotation form. These prices and terms are valid only for items purchased for use and delivery within the United States.

This quotation information is proprietary and may not be copied or released other than for the express purpose of the current system selection and purchase. This information may not be given to outside parties or used for any other purpose without written consent from Environmental Systems Research Institute, Inc. (Esri).

To expedite your order, please reference the quotation number on your purchase order.

ORDER PROCESS

The order process is initiated when Esri receives an original purchase order or some form of advance payment. Several additional documents (e.g., Master License Agreement, credit application, Tax Exemption Certificate) may be required to complete the order process. Generally, the need for these documents varies by the type of software, data, web-enabled services, subscriptions, professional services or other products ordered, which is determined upon receipt of the purchase order (or advance payment). If delivery must be expedited, please contact your marketing representative for assistance.

IMPORTANT! Collectively, these documents contain the authorizations and information necessary to ship proper versions of the software or data on the correct media, or to initiate web-enabled services, subscriptions, or professional services. Please return them promptly to avoid unnecessary delays in shipping or delivery. Please return all documents to Esri Customer Service, or as otherwise directed.

Please show the following remittance address on your purchase order:

Esri, File No. 54630, Los Angeles, CA 90074-4630

ESRI LICENSE AGREEMENTS

All Esri software, data, web-enabled services, and subscriptions offered in this quotation are commercial off-the-shelf items developed at private expense and subject to Esri commercial license terms. You may have a signed license agreement on file that covers this order. If so, please reference the license agreement number on your purchase order. Unless a signed license is on file with Esri, Esri software, data, web-enabled services and subscriptions are subject to the Esri License Agreement included with the deliverable item as an on-line or click-through agreement. A copy is enclosed. Certain software or data requires a Master License Agreement signed by both parties. Professional services agreements may also include license terms.

Some Esri software is copy protected with a software keycode or hardware key, and some software, data, web-enabled services or subscriptions require registration or a password. You will be given instructions to access the keycode, register, or obtain a password through the Esri website or by other means.

MAINTENANCE

After expiration of any complimentary period of maintenance that may apply to the licensed software, Esri will quote maintenance payable annually in advance. A reinstatement fee applies when maintenance has lapsed.

DATA AND WEB SERVICES DISCLAIMER

Data and Web Services may contain some nonconformities, defects, errors, or omissions. THE DATA AND WEB SERVICES ARE PROVIDED "AS-IS" WITHOUT WARRANTY OF ANY KIND. Without limiting the generality of the preceding sentence, Esri and its licensors do not warrant that the data and Web Services will meet Licensee's needs or expectations, that the use of the data or Web Services will be uninterrupted, or that all nonconformities can or will be corrected. Esri and its licensors are not inviting reliance on this data or Web Services, and Licensee should always verify actual data or Web Services.

DELIVERY

FOB Redlands, CA, USA

Software: Allow thirty (30) days from Esri's receipt of purchase order, signed Software License Agreement(s), and other documents, as required.

Hardware: Manufacturer's terms apply. Lead times depend on make/models purchased.

Note: Standard delivery method is ground or two (2)-day air for software and surface carrier for hardware. Actual delivery method may vary depending on weight. Other service is available for an additional fee (e.g., overnight delivery).

PAYMENT TERMS
Net thirty (30) days, on approved credit. Orders less than eight hundred dollars ($800) require prepayment by check or credit card unless your organization is a government agency, university, college, or Fortune 500 company.

TAXES
This quote includes applicable sales or use taxes for the prices quoted as required by law. The tax amount may change depending on the time lapse between this quote and your order to us. Esri will include applicable sales or use taxes on your invoice unless you provide proof with your order that your organization or use of the product is tax exempt.

Esri, 380 New York St., Redlands, CA 92373-8100 USA • TEL 909-793-2853 • FAX 909-793-5953

IMPORTANT—READ CAREFULLY

UNLESS SUPERSEDED BY A SIGNED LICENSE AGREEMENT BETWEEN YOU AND ESRI, ESRI IS WILLING TO LICENSE SOFTWARE, DATA, WEB SERVICES, OR DOCUMENTATION TO YOU ONLY IF YOU ACCEPT ALL TERMS AND CONDITIONS CONTAINED IN THIS LICENSE AGREEMENT. PLEASE READ THE TERMS AND CONDITIONS CAREFULLY. SOFTWARE, DATA, OR DOCUMENTATION WILL NOT BEGIN DOWNLOADING TO OR INSTALL ONTO YOUR COMPUTER SYSTEM UNTIL YOU HAVE MANIFESTED YOUR ASSENT TO THE TERMS AND CONDITIONS OF THE LICENSE AGREEMENT BY CLICKING "I accept the License Agreement" BELOW. IF YOU DO NOT AGREE TO THE TERMS AND CONDITIONS AS STATED, THEN ESRI IS UNWILLING TO LICENSE SOFTWARE, DATA, WEB SERVICES, OR DOCUMENTATION TO YOU, AND YOU SHOULD CLICK "I do not accept the License Agreement" BELOW AND RETURN THE PACKAGE TO ESRI OR ITS AUTHORIZED DISTRIBUTOR. SEE http://www.esri.com/legal FOR UPDATED TERMS THAT MAY APPLY TO FUTURE VERSIONS OF SOFTWARE, DATA, WEB SERVICES, AND DOCUMENTATION.

LICENSE AGREEMENT
(E204 04/22/2010)

This License Agreement is between you (**"Licensee"**) and **Environmental Systems Research Institute, Inc. ("Esri")**, a California corporation with a place of business at 380 New York Street, Redlands, California 92373-8100 USA.

ARTICLE 1—DEFINITIONS

Definitions. The terms used are defined as follows:

a. "Beta" means any alpha, beta, or prerelease Software, Data, Documentation, or Web Services.
b. "Data" means any Esri or third-party digital dataset(s) including, but not limited to, geographic vector data coordinates, raster, reports, or associated tabular attributes licensed under this License Agreement.
c. "Documentation" means all printed and digital materials including, but not limited to, help files, user reference documentation, training documentation, or technical information and briefings.
d. "Samples" means sample code, sample applications, add-ons, or sample extensions of Software, Data, Documentation, or Web Services.
e. "Software" means all or any portion of Esri's proprietary software technology accessed or downloaded from an Esri authorized website or delivered on any media in any format including backups, updates, service packs, patches, hot fixes, or permitted merged copies.
f. "Term License" means license provided for use in a limited time period or on a subscription or transaction basis.
g. "Web Services" means software services or Esri or third-party data provided by Esri that perform geographic information system (GIS) functions, tasks, or data services and are accessed over the Internet.

ARTICLE 2—INTELLECTUAL PROPERTY RIGHTS AND RESERVATION OF OWNERSHIP

Software, Data, Web Services, and Documentation are licensed and not sold. Esri and its licensors own Software, Data, Web Services, and Documentation and all copies, which are protected by United States and applicable international laws, treaties, and conventions regarding intellectual property and proprietary rights including trade secrets. Licensee agrees to use reasonable means to protect Software, Data, Web Services, and Documentation from unauthorized use, reproduction, distribution, or publication. Esri and its third-party licensors reserve all rights not specifically granted in this License Agreement including the right to change and improve Web Services.

ARTICLE 3—GRANT OF LICENSE

3.1 Grant of License. Subject to the terms of this License Agreement, Esri grants to Licensee a personal, nonexclusive, nontransferable license solely to

a. Use the type and number of copies of Software, Data, and Documentation and access Web Services (i) for which the applicable license fees have been paid, (ii) for Licensee's own internal use, and (iii) in accordance with Exhibit 1 and the licensed configuration on file as authorized by Esri or its authorized distributor.
b. Access and use any secure Esri website resources made available to Licensee for Licensee's own internal use, provided that Licensee follows Esri's terms of use policy specified therein. All password or controlled access information provided by Esri or its authorized distributor shall be treated as Esri confidential information.

3.2 Beta License. Licensee may be accepted into a current Beta Testing Program.

a. If Licensee is accepted into the Beta Testing Program, Esri will provide to Licensee access to Beta and will grant Licensee a personal, nonexclusive, nontransferable, royalty-free Term License to use Beta at the authorized and identified test sites solely for the purpose of testing Beta as delivered, in accordance with the Beta Testing Program guidelines and the terms of this License Agreement. This grant of license is effective from the date Licensee is accepted into the program or date of receipt of any Beta until the date of the commercial release of Software from Esri Customer Service or the date of termination of the Beta Testing Program for the specific Beta, whichever is sooner.
b. Licensee agrees to provide suggestions or comments regarding performance, usability or effectiveness, bug reports, test reports, or other feedback (collectively, "Feedback") to Esri with respect to Beta.
c. Licensee grants to Esri the right to freely use, share, disclose, reproduce, license, distribute and otherwise publicly display and perform any Feedback provided to Esri by Licensee. Licensee will not provide Feedback that Licensee knows or reasonably should have known contains content subject to license or use restrictions.
d. Beta and Feedback contain confidential information and trade secrets that are proprietary to Esri. Licensee agrees to use commercially reasonable means (at least as great as those used by Licensee for its own confidential information) to maintain the integrity, confidentiality, and Esri proprietary rights in Beta and Feedback. Licensee may not share or release Feedback or results of Beta testing with any third party.
e. Beta is subject to change prior to its commercial release or may never be commercially released. Licensee acknowledges that Beta is not suitable or licensed for full use in any production system and accepts all responsibility for use and any results generated.

3.3 Evaluation License. Esri may from time to time offer Term License(s) for Software, Data, Web Services, or Documentation for Licensee's evaluation only.

3.4 Consultant or Contractor Access. Subject to Section 3.1, Esri grants Licensee the right to provide access to and use of Software, Data, Web Services, or Documentation to any consultant or contractor of Licensee exclusively for the benefit of Licensee. Licensee shall be solely responsible for compliance by consultants and contractors with this License Agreement. Access to or use of Software, Data, Web Services, and Documentation by consultants or contractors not exclusively for the benefit of Licensee is prohibited.

3.5 Educational Program License. If Licensee has been qualified by Esri or its authorized distributor to participate in an educational program, the following additional terms apply:

a. *Educational Use License.* Licensee agrees to use Software, Data, Web Services, and Documentation solely for educational, research, and academic purposes that are noncommercial in nature. Licensee shall not use Software, Data, Web Services, and Documentation for any Administrative Use or profit-generating activities.
b. *Administrative Use Term License.* Licensee may use the Software, Data, Web Services, and Documentation for administrative activities that are not directly related to instruction or education, such as asset mapping, facilities management, demographic analysis, routing, campus safety, and accessibility analysis ("Administrative Use"). Licensee shall not use the Software, Data, Web Services, or Documentation for any profit-generating activities.

3.6 Grant Program License. If Licensee has been qualified to participate in an Esri grant program, Licensee may only use the type and number of copies of the Software, Data, Web Services, and Documentation permitted in the Esri grant document

and the licensed configuration on file with Esri Customer Service, and solely for noncommercial purposes specified in the Esri grant document. Licensee shall not use the Software, Data, Web Services, and Documentation for any profit-generating activities.

ARTICLE 4—SCOPE OF USE

4.1 Permitted Uses

a. Licensee may install and store Software, Data, and Documentation on electronic storage device(s).
b. Licensee may make one (1) copy of Software, Data, and Documentation for archival purposes. Licensee may make routine computer backups.
c. Licensee may customize Software using any (i) macro or scripting language, (ii) published application programming interface (API), or (iii) source or object code libraries, but only to the extent that such customization is described in Documentation.
d. Licensee may use, copy, or prepare derivative works of Documentation supplied in digital format and thereafter reproduce, display, and redistribute the customized documentation only for Licensee's own internal use. Portions of Documentation supplied in digital format merged with other software and printed or digital documentation are subject to this License Agreement. Licensee shall include the following copyright attribution notice acknowledging the proprietary rights of Esri and its licensors: "Portions of this document include intellectual property of Esri and its licensors and are used herein under license. Copyright © [*Insert the actual copyright date(s) from the source materials*] Esri and its licensors. All rights reserved."

4.2 Uses Not Permitted

a. Except as provided herein, Licensee shall not sell, rent, lease, sublicense, lend, assign, or time-share Software, Data, Web Services, or Documentation. Licensee shall not act as a service bureau or commercial application service provider (ASP) that allows third-party access to Software, Data, Web Services, and Documentation. Licensee shall not use Software, Data, Web Services, or Documentation for a site or service and operate the site or the service for a profit or generate revenue through direct or indirect methods (e.g., advertising or by charging for access to the site or service).
b. Except as provided herein, Licensee shall not redistribute Software, Data, or Web Services to third parties, in whole or in part, including, but not limited to, extensions, components, or DLLs.
c. Licensee shall not reverse engineer, decompile, or disassemble Software, Data, Web Services, or Documentation except to the extent that such activity is expressly permitted by applicable law notwithstanding this restriction.
d. Except to the extent that applicable law prohibits this restriction, Licensee shall not make any attempt to circumvent the technological measure(s) that controls access to or use of Software, Data, Web Services, and Documentation.
e. Except as provided herein, Licensee shall not redistribute Software activation number(s), registration number/license authorization file(s), developer license file(s), or Web Services access codes to third parties.
f. Licensee shall not use Software or Web Services to transfer or exchange any material where such transfer or exchange is prohibited by intellectual property laws or any other applicable laws.
g. Licensee shall not remove or obscure any Esri or its licensors' patent, copyright, trademark, or proprietary rights notices contained in or affixed to Software, Data, Web Services, or Documentation.
h. Licensee shall not unbundle individual or component parts of Software or Data for independent use.
i. After a reasonable transition period, Licensee shall not use an older version of the Software that Licensee has updated to a newer version. Licensee shall not use more Software licenses at any given time than the total quantity in Licensee's licensed configuration on file with Esri.

ARTICLE 5—TERM AND TERMINATION

This License Agreement is effective upon acceptance. This License Agreement and any licenses granted hereunder shall continue until (i) such time that Licensee elects in writing to discontinue use of Software, Data, Web Services, or Documentation and terminates the license; (ii) expiration of a Term License; or (iii) either party terminates the license for a material breach that is not cured within ten (10) days of written notice to the other party, except that termination is immediate for a material breach of a nature that is impossible to cure. Upon termination of a license, Licensee shall (i) cease access and use of Web Services and clear Web Services client-side data cache; and (ii) cease use, uninstall, remove, and destroy all Software, Data, and Documentation and any whole or partial copies, modifications, or merged portions in any form and execute and deliver evidence of such actions to Esri or its authorized distributor.

ARTICLE 6—LIMITED WARRANTIES AND DISCLAIMERS

6.1 Limited Warranties. Except as otherwise provided in this Article 6, Esri warrants that (i) the unmodified Software will substantially conform to the published Documentation and (ii) media on which the Software, Data, and Documentation are provided will be free from defects in materials and workmanship under normal use and service for a period of ninety (90) days from the date of receipt.

6.2 Data and Web Services Disclaimer. Data and Web Services may contain some nonconformities, defects, errors, or omissions. THE DATA AND WEB SERVICES ARE PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND. Without limiting the generality of the preceding sentence, Esri and its licensors do not warrant that Data and Web Services will meet Licensee's needs or expectations, that the use of Data and Web Services will be uninterrupted, or that all nonconformities can or will be corrected. Esri and its licensors are not inviting reliance on Data or Web Services, and Licensee should always verify actual Data or Web Services.

6.3 Special Disclaimer. SAMPLES, HOT FIXES, PATCHES, EVALUATION SOFTWARE, AND BETA ARE DELIVERED "AS IS" WITHOUT WARRANTY OF ANY KIND. LICENSEE ASSUMES ALL RISK AS TO THE QUALITY AND PERFORMANCE OF THE SAMPLES, HOT FIXES, PATCHES, EVALUATION SOFTWARE, AND BETA.

6.4 Internet Disclaimer. THE PARTIES EXPRESSLY ACKNOWLEDGE AND AGREE THAT THE INTERNET IS A NETWORK OF PRIVATE AND PUBLIC NETWORKS AND THAT (i) THE INTERNET IS NOT A SECURE INFRASTRUCTURE, (ii) THE PARTIES HAVE NO CONTROL OVER THE INTERNET, AND (iii) NONE OF THE PARTIES SHALL BE LIABLE FOR DAMAGES UNDER ANY THEORY OF LAW RELATED TO THE DISCONTINUANCE OF OPERATION OF ANY PORTION OF THE INTERNET OR POSSIBLE REGULATION OF THE INTERNET THAT MIGHT RESTRICT OR PROHIBIT THE OPERATION OF THE WEB SERVICE.

6.5 General Disclaimer. EXCEPT FOR THE ABOVE EXPRESS LIMITED WARRANTIES, ESRI DISCLAIMS ALL OTHER WARRANTIES OR CONDITIONS OF ANY KIND, WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SYSTEM INTEGRATION, AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS. ESRI DOES NOT WARRANT AND DISCLAIMS THAT SOFTWARE, DATA, WEB SERVICES, OR DOCUMENTATION WILL MEET LICENSEE'S NEEDS; THAT LICENSEE'S OPERATION OF THE SAME WILL BE UNINTERRUPTED, ERROR FREE, FAULT TOLERANT, OR FAIL SAFE; OR THAT ALL NONCONFORMITIES CAN OR WILL BE CORRECTED. SOFTWARE, DATA, WEB SERVICES, AND DOCUMENTATION ARE NOT DESIGNED, MANUFACTURED, OR INTENDED FOR USE IN ENVIRONMENTS OR APPLICATIONS THAT MAY LEAD TO DEATH, PERSONAL INJURY, OR PHYSICAL PROPERTY/ENVIRONMENTAL DAMAGE. ANY SUCH USE SHALL BE AT LICENSEE'S OWN RISK AND COST.

6.6 Exclusive Remedy. Licensee's exclusive remedy and Esri's entire liability for breach of the limited warranties set forth in this Article 6 shall be limited, at Esri's sole discretion, to (i) replacement of any defective media; (ii) repair, correction, or a workaround for Software subject to the Esri Maintenance Program found at www.esri.com/legal/maintenance.html; or (iii) return of the license fees paid by Licensee for Software or Documentation that does not meet Esri's limited warranty, provided that Licensee uninstalls, removes, and destroys all copies of Software or Documentation and executes and delivers evidence of such actions to Esri or its authorized distributor.

ARTICLE 7—LIMITATION OF LIABILITY

7.1 Disclaimer of Certain Types of Liability. ESRI AND ITS LICENSORS SHALL NOT BE LIABLE TO LICENSEE FOR COSTS OF PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOST PROFITS, LOST SALES, OR BUSINESS EXPENDITURES; INVESTMENTS; BUSINESS COMMITMENTS; LOSS OF ANY GOODWILL; OR FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR RELATED TO THIS LICENSE AGREEMENT OR USE OF SOFTWARE, DATA, WEB SERVICES, OR DOCUMENTATION, HOWEVER CAUSED ON ANY THEORY OF LIABILITY, WHETHER OR NOT ESRI OR ITS LICENSORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.

7.2 General Limitation of Liability. EXCEPT AS PROVIDED IN ARTICLE 8—INFRINGEMENT INDEMNITY, ESRI'S TOTAL CUMULATIVE LIABILITY HEREUNDER, FROM ALL CAUSES OF ACTION OF ANY KIND, INCLUDING, BUT NOT LIMITED TO, CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY, BREACH OF WARRANTY, MISREPRESENTATION, OR OTHERWISE, SHALL NOT EXCEED THE AMOUNTS PAID BY LICENSEE FOR SOFTWARE, DATA, WEB SERVICES, OR DOCUMENTATION PURSUANT TO THIS LICENSE AGREEMENT.

7.3 Applicability of Disclaimers and Limitations. Licensee agrees that the limitations of liability and disclaimers set forth in this License Agreement will apply regardless of whether Licensee has accepted Software, Data, Web Services, or Documentation or any other product or service delivered by Esri. The parties agree that Esri has set its fees and entered into this License Agreement in reliance on the disclaimers and limitations set forth herein, that the same reflect an allocation of risk between the parties, and that the same form an essential basis of the bargain between the parties. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.

ARTICLE 8—INFRINGEMENT INDEMNITY

8.1 Esri shall defend, indemnify, and hold harmless Licensee from and against any loss, liability, cost, or expense, including reasonable attorneys' fees, which may be incurred by Licensee against any claims, actions, or demands by a third party alleging that Software infringes a US patent, copyright, or trademark, provided

a. Licensee promptly notifies Esri in writing of the claim;
b. Licensee provides documents clearly describing the allegations of infringement;
c. Esri has sole control of the defense of any actions and negotiations related to the defense or settlement of any claim; and
d. Licensee cooperates fully in the defense of the claim.

8.2 If Software is found to infringe a US patent, copyright, or trademark, Esri, at its own expense, may either (i) obtain rights for Licensee to continue using Software or (ii) modify the allegedly infringing elements of Software while maintaining substantially similar software functionality or data/informational content. If neither alternative is commercially reasonable, the infringing item(s) shall be returned to Esri, the license shall terminate, and Licensee shall uninstall the infringing item(s). Esri's entire liability shall then be to indemnify Licensee pursuant to Section 8.1 and to refund license fees paid by Licensee for the infringing item(s), prorated on a five (5)-year, straight-line depreciation basis beginning from the initial date of delivery.

8.3 Esri shall have no obligation to defend Licensee or to pay any resulting costs, damages, or attorneys' fees for any claims or demands alleging direct or contributory infringement of Software by (i) the combination of or integration with a product, process, or system not supplied by Esri; (ii) material alteration by anyone other than Esri or contractors acting on behalf of Esri; (iii) use after Licensee has been notified of possible infringement; or (iv) use after modifications are provided or a return is ordered by Esri under Section 8.2.

8.4 In no event shall the indemnification set forth in this Article 8 apply to any Samples, Beta, or evaluation software delivered hereunder.

THE FOREGOING STATES THE ENTIRE OBLIGATION OF ESRI WITH RESPECT TO INFRINGEMENT OR ALLEGATION OF INFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS OF ANY THIRD PARTY.

ARTICLE 9—GENERAL PROVISIONS

9.1 Future Updates. New or updated Software, Data, Web Services, and Documentation shall be governed by the then-current Esri license terms and conditions included with the deliverable Software, Data, Web Services, or Documentation.

9.2 Export Control Regulations. Licensee expressly acknowledges and agrees that Licensee shall not export, reexport, transfer, or release Software, Data, Web Services, or Documentation, in whole or in part, to (i) any US embargoed country (or to a national or resident of any US embargoed country); (ii) any person on the US Treasury Department's list of Specially Designated Nationals; (iii) any person or entity on the US Commerce Department's Denied Persons List, Entity List, or Unverified List; or (iv) any person or entity where such export or reexport violates any US export control laws or regulations

including, but not limited to, the terms of any export license or license exemption and any amendments and supplemental additions to US export laws as they may occur from time to time.

9.3 Taxes and Fees, Shipping Charges. License fees quoted to Licensee are exclusive of any and all taxes or fees, including, but not limited to, sales tax, use tax, value-added tax (VAT), customs, duties, or tariffs, and shipping and handling charges.

9.4 No Implied Waivers. The failure of either party to enforce any provision of this License Agreement shall not be deemed a waiver of the provisions or of the right of such party thereafter to enforce that or any other provision.

9.5 Severability. The parties agree that if any provision of this License Agreement is held to be unenforceable for any reason, such provision shall be reformed only to the extent necessary to make the intent of the language enforceable.

9.6 Successor and Assigns. Licensee shall not assign, sublicense, or transfer Licensee's rights or delegate its obligations under this License Agreement without Esri's prior written consent, and any attempt to do so without consent shall be void. This License Agreement shall be binding upon the respective successors and assigns of the parties to this License Agreement. Notwithstanding, a government contractor that has acquired Software, Data, Web Services, or Documentation under contract to the government may assign this License Agreement to its government customer upon written notice to Esri, provided the government customer assents to the terms of this License Agreement.

9.7 Survival of Terms. The provisions of Articles 2, 5, 6, 7, 8, and 9 of this License Agreement shall survive the expiration or termination of this License Agreement.

9.8 Equitable Relief. Licensee agrees that any breach of this License Agreement by Licensee may cause irreparable damage and that, in the event of such breach, in addition to any and all remedies at law, Esri shall have the right to seek an injunction, specific performance, or other equitable relief in any court of competent jurisdiction without the requirement of posting a bond or undertaking or proving injury as a condition for relief.

9.9 US Government Licensee. Software, Data, Web Services, and Documentation are commercial computer software, commercial data, commercial computer software documentation, and commercial Web Services. This License Agreement contains Esri's commercial license terms and conditions for such items. The commercial license rights in this License Agreement strictly govern Licensee's use, reproduction, or disclosure of Software, Data, Web Services, and Documentation. No other license terms or conditions shall apply unless expressly agreed in writing by Esri and Licensee. Esri Software source code is unpublished, and all rights to Software, Data, Web Services, and Documentation are reserved. In the event any court, arbitrator, or board holds that the Licensee has greater rights to any portion of Software, Data, Web Services, or Documentation under applicable public procurement law, such rights shall extend only to the portions affected.

9.10 Governing Law, Arbitration

a. *Licensees in the United States of America, Its Territories, and Outlying Areas.* This License Agreement shall be governed by and construed in accordance with the laws of the State of California without reference to conflict of laws principles, except that US federal law shall govern in matters of intellectual property. Except as provided in Section 9.8, any dispute arising out of or relating to this License Agreement or the breach thereof that cannot be settled through negotiation shall be finally settled by arbitration administered by the American Arbitration Association under its Commercial Arbitration Rules. Judgment on the award rendered by the arbitrator may be entered in a court of competent jurisdiction. If Licensee is a US government agency, this License Agreement is subject to the Contract Disputes Act of 1978, as amended (41 U.S.C. 601–613), in lieu of the arbitration provisions of this clause. This License Agreement shall not be governed by the United Nations Convention on Contracts for the International Sale of Goods, the application of which is expressly excluded.
b. *All Other Licensees.* Except as provided in Section 9.8, any dispute arising out of or relating to this License Agreement or the breach thereof that cannot be settled through negotiation shall be finally settled under the Rules of Arbitration of the International Chamber of Commerce by one (1) arbitrator appointed in accordance with said rules. The language of the arbitration shall be English. The place of the arbitration shall be at an agreed-upon location. This License Agreement shall not be governed by the United Nations Convention on Contracts for the International Sale of Goods, the application of which is expressly excluded. Either party shall, at the request of the other, make available documents or witnesses relevant to the major aspects of the dispute.

9.11 Maintenance. Maintenance for qualifying Software or Data consists of updates and other benefits, such as access to technical support, specified in Esri's or its distributor's most current applicable software maintenance policy.

9.12 Patents. Licensee may not seek, and may not permit any other user to seek, a patent or similar right worldwide that is based on or incorporates any Esri technology or services. This express prohibition on patenting shall not apply to Licensee's software and technology except to the extent that Esri technology or services, or any portion thereof, are a part of any claim or preferred embodiment in a patent application or a similar application.

9.13 Entire Agreement. This License Agreement, including Exhibit 1, constitutes the sole and entire agreement of the parties as to the subject matter set forth herein and supersedes any previous license agreements, understandings, and arrangements between the parties relating to such subject matter. Additional or different terms included with an order or other document shall not be binding on Esri. Any modification(s) or amendment(s) to this License Agreement must be in writing and signed by each party.

EXHIBIT 1
SCOPE OF USE
(E300 09/29/2011)

Esri, 380 New York St., Redlands, CA 92373-8100 USA • TEL 909-793-2853 • FAX 909-793-5953

The scope of use for the Software, Data, and Web Services identified below is described in the applicable footnotes identified in parentheses.

Software

- ArcExplorer—Java and Windows Editions (20 and 25)
- ArcGIS API for iOS, Windows Phone, or Android (1, 16, 25, and 33)
- ArcGIS Desktop
  - ArcInfo (either 1 or 2 and 25, 26, 33, 44, and 45)
  - ArcEditor (either 1 or 2 and 25, 26, 33, 44, and 45)
  - ArcView (either 1 or 2 and 25, 33, 44, and 45)
- ArcGIS Desktop Extensions (7)
- ArcGIS Engine Developer Kit and Extensions (1, 14, 15, 22, 25, 26, and 43)
- ArcGIS Engine Runtime and Extensions (either 1 or 2 and 15, 22, 25, 26, and 33)
- ArcGIS Explorer (20, 25, and 33)
- ArcGIS for AutoCAD (1, 20, and 25)
- ArcGIS for iOS (1, 25, and 33)
- ArcGIS Mobile Deployments (1, 15, 16, 25, 33, and 54)
- ArcGIS Runtime (1, 15, 18, 33, 35, and 59)
- ArcGIS Runtime SDK (1, 15, 18, 33, 35, and 60)
- ArcGIS Server
  - Workgroup (either 3 or 5 and 8, 9, 25, 28, 29, 30, 32, 33, 38, 39, 40, and 45; if licensed as a Term License, 6 will also apply)
  - Enterprise (either 3, 4, or 5 and 8, 9, 25, 27, 31, 33, 38, 39, 40, and 45; if licensed as a Term License, 6 will also apply)
    - Cloud Bundle (6 and 33)
- ArcGIS Server Extensions
  - ArcGIS for INSPIRE (7, 8, 33, and 35)
  - ArcGIS Server Geoportal Extension (either 3, 4, or 5 and 7 and 52)
  - ArcGIS Server Image Extension (7, 8, and 42)
  - ArcGIS Server Image Extension Service Editor (1)
  - Other Extensions (7)
- ArcGIS Web Mapping (including SharePoint, JavaScript, Adobe Flex, Microsoft Silverlight/WPF, SOAP, and REST) (6, 33, and 35)
- ArcIMS
  - ArcIMS and Extensions (either 3, 4, or 5 and 8, 10, 31, and 45)
- ArcLogistics
  - Desktop (1 and 25)
  - Using ArcGIS Online (6, 20, 25, 34, 35, and 46)
  - Using ArcGIS Server (6, 20, 25, 34, 35, and 46)
  - Navigator (1 and 46)
- ArcPad (1, 12, 13, 25, and 33)
- ArcReader (20, 25, 33, and 45)
- ArcView 3.x and Extensions (1, 7, and 17)
- Esri Aeronautical Solution (either 1 or 2)
- Esri Business Analyst (Canadian Edition) (either 1 or 2 and 6, 25, 33, 36, 45, and 48)
- Esri Business Analyst (either 1 or 2 and 25, 33, 45, and 48)
- Esri Business Analyst Online API for Adobe Flex, Microsoft Silverlight, SOAP, and REST (6, 16, 25, 33, 35, 55, and 56)
- Esri Business Analyst Server
  - Workgroup (either 3, 4, or 5 and 8, 9, 21, 25, 28, 29, 31, 33, 39, 40, 45, and 48)
  - Enterprise (either 3, 4, or 5 and 8, 9, 21, 25, 27, 31, 33, 39, 40, 45, and 48)
- Esri Business Analyst Server (Canadian Edition) (either 3, 4, or 5 and 8, 9, 21, 25, 27, 31, 33, 36, 39, 40, 45, and 48)
- Esri Business Analyst Server Developer (3, 6, 25, 33, 35, and 51)
- Esri Business Analyst Server Developer (Canadian Edition) (3, 6, 25, 33, 35, 36, and 51)
- Esri CityEngine (either 1 or 2 and 44)
- Esri Defense Mapping (either 1 or 2)
- Esri Developer Network (EDN) Software, Web Services, and Data (6, 7, 24, 25, 26, 33, 34, and 35)
- Esri File Geodatabase API (47)
- Esri Nautical Solution (either 1 or 2)
- Esri Production Mapping (either 1 or 2)
- Geoportal Clients for ArcGIS (7, 20, and 52)
- MapIt (11, 25, 31, 33, 35, 49, and 50)
- MapObjects—Java Edition (1, 5, 8, 15, 18, and 19)
- MapObjects LT (1, 14, and 16)
- MapObjects—Windows Edition (1, 14, 15, 16, and 18)
- MOLE (1)
- NetEngine Internet (5)
- Portal for ArcGIS (5, 6, 31, 33, 61, 62, and 63)
- Tracking Server (either 4 or 5 and 31)

Web Services

- ArcGIS Online Services (6, 25, 33, 34, and 35)
- Esri Business Analyst Online (6, 25, 33, 48, 56, 57, and 58)
- Esri Business Analyst Online Mobile (1, 6, 25, 33, 48, 56, 57, and 58)
- Esri Community Analyst (6, 25, 33, 48, 56, 57, and 58)
- Esri MapStudio (6, 25, 33, 34, 35, and 56)
- Esri Redistricting Online (6, 25, 33, 34, and 35)

Data

- Data with ArcGIS Data Appliance (6, 23, 25, and 41)
- Esri Address Coder (either 1, 2, or 5 and 21, 22, 25, and 48)
- Esri Business Analyst (Canadian Edition) Data (either 1 or 2 and 6, 21, 25, 33, 36, 45, and 48)
- Esri Business Analyst Data (either 1 or 2 and 21, 25, 33, 45, and 48)
- Esri Business Analyst Server (Canadian Edition) Data (either 3, 4, or 5 and 21, 25, 33, 36, 45, and 48)
- Esri Business Analyst Server Data (either 3, 4, or 5 and 21, 25, 33, 45, and 48)
- Esri Data & Maps (either 1, 2, 3, 4, or 5 and 23 and 37)
- Esri Data (either 1, 2, or 5 and 25 and 48)
  - Demographic, Consumer Spending, Market Potential, Retail MarketPlace, Business, Traffic, Shopping Center, Cable Boundaries, Banking, and Crime
- Sourcebook•America (1 and 21)
- StreetMap Premium (either 1, 2, 4, or 5 and 6 and 25)
- Tapestry Segmentation (either 1, 2, or 5 and 21 and 48)

1. "Single Use License." Licensee may permit a single authorized end user to install and use the Software, Data, and Documentation on a single computer for use by that end user on the computer on which the Software is installed. Remote access is not permitted. Licensee may permit the single authorized end user to make a second copy for end user's exclusive use on a portable computer as long as only one (1) copy of the Software, Data, and Documentation is in use at any one (1) time. No other end user may use the Software, Data, or Documentation under the same license at the same time for any other purpose.
2. "Concurrent Use License." Licensee may install and use the Software, Data, and Documentation on computer(s) on a network, but the number of simultaneous users may not exceed the number of licenses acquired. No other end user may use the Software, Data, or Documentation under the same license at the same time for any other purpose.
3. "Development Server License." Licensee may install and use the Software on a single computer to design and build applications that interface with or utilize server Software as described in the Documentation.
4. "Staging Server License." In addition to the Development Server License rights, Licensee may use and install the Software for the following purposes: user acceptance testing, performance testing, load testing of other third-party software, staging new commercial data updates, and training activities.
5. "Deployment Server License." In addition to the Staging Server License rights, Licensee may install and use the Software or Data to provide services to multiple users on the same or other computer(s).
6. "Term License." License is provided for use for a limited time period or on a subscription or transaction basis.
7. Extensions to Software programs follow the same scope of use as that granted for the corresponding Software programs.
8. The administration tools for the Software may be copied and redistributed throughout Licensee's organization.
9. User-developed ArcGIS Server administration tools may be copied throughout Licensee's organization, but the ArcCatalog application (found in ArcGIS Desktop) may not be copied.
10. The ArcIMS license includes the right to deploy MapObjects—Windows Edition applications on the Internet or intranet. Licensee shall not develop client/server solutions with the ArcIMS—Java Archive (JAR) files without a license for the MapObjects—Java Edition developer kit.
11. Licensee may install and use the Software to provide services to multiple users on the same or other computer(s). The Software is licensed per server. The licensed server is the server on which Licensee installs the Spatial Data Service.
12. Software is only licensed for navigational use when used in conjunction with ArcLogistics.
13. "Dual Use License" means the Software may be installed on a desktop computer and used simultaneously with either a personal digital assistant (PDA) or handheld mobile computer as long as the Software is only used by a single individual at any one (1) time.
14. Developers must include the following attribution with any deployed MapObjects application: "Portions of this computer program are owned by LizardTech, Inc., and are Copyright © 1995–2002 LizardTech, Inc., and/or the University of California. All rights reserved. US Patent No. 5,710,835."
15. Deployment licenses for desktop or Internet application(s) may be subject to payment of additional license fees.
16. Licensee may deliver applications to its sublicensee(s) provided Licensee uses a written sublicense agreement that protects Esri's rights in its Software, Data, Web Services, and Documentation to the same extent as the Esri License Agreement including, but not limited to, the following terms:
    a. Sublicensee may not reverse engineer, decompile, or disassemble the Esri Software, Data, Web Services, or Documentation, except to the extent permitted by applicable law; copy for commercial use; transfer; or assign its rights under the license grant;
    b. Sublicensee may not use any Esri Software, Data, Web Services, or Documentation, in whole or in part, separate from Licensee's executable application; and
    c. Third-party dependent or required components are redistributable subject to permission from the owner or author.
    d. Applications may be subject to deployment fees owed to Esri. Licensee shall contact its distributor for details.
17. Licensee may use Business Objects Crystal Reports software only with the ArcView 3.x Software with which it was acquired and subject to the Crystal Reports License Agreement available on the media. Licensee may not use a software program or system to cache or queue report requests.
18. The deployment license is per application per computer.
19. MapObjects—Java Edition contains Java Archive files, which indicate they are authentic Esri-certificated files when used over the Internet. Licensee shall not use Esri certification or reference Esri as a source of trusted content in any modified MapObjects—Java Archive files. Licensee may deploy the unmodified Java class Esri-certified libraries as an integral part of the Licensee's application(s).
20. Licensee may reproduce and deploy the Software provided all the following occur: (a) the Software is reproduced and deployed in its entirety; (b) a license agreement accompanies each copy of the Software that protects the Software to the same extent as the Esri License Agreement, and the recipient agrees to be bound by the terms and conditions of the license agreement; (c) all copyright and trademark attributions/notices are reproduced; and (d) there is no charge or fee attributable to the use of the Software.
21. Licensee shall not withhold any substantial right (e.g., extension of credit) from any individual based solely on the individual's place of residence, as profiled in the Tapestry Segmentation system.

22. (a) ArcGIS Engine Runtime licenses shall not be used for Internet and server development and deployment; (b) an end user must license either ArcGIS Engine Runtime Software or other ArcGIS Desktop Software (ArcView, ArcEditor, or ArcInfo) to obtain the right to run an ArcGIS Engine application on one (1) computer; and (c) the ArcGIS Engine Runtime extensions shall not be used in combination with ArcGIS Desktop Software to run ArcGIS Engine applications. A single user can have multiple applications installed on one (1) computer for use only by that end user.
23. Licensee may redistribute the Data as described in the Redistribution Rights Matrix available at http://www.esri.com/legal/, in the Help system, or in supporting metadata files, subject to the specific attribution descriptions and requirements for the dataset accessed.
24. EDN Software, Web Services, and Data may only be used by one (1) named developer per subscription solely for the purposes of research, development, testing, and demonstration of a prototype application. EDN server Software and Data may be installed on multiple computers for use by any named EDN developer.
25. Use of included third-party owned data shall be subject to the Use of Data Restrictions found at http://www.esri.com/legal/ for the specific Data accessed. The Use of Data Restrictions may be modified by Esri from time to time. If a modification is unacceptable to Licensee, Licensee may cancel a subscription upon written notice to Esri, or discontinue use of the Data or Web Services, as applicable. If Licensee continues to use the Data or Web Services, Licensee will be deemed to have accepted the modification.
26. An ArcSDE Personal Edition geodatabase is restricted to ten (10) gigabytes of Licensee data.
27. ArcGIS Server Web ADF Runtime Software may not be deployed independent of Licensee's ArcGIS Server Enterprise configuration.
28. Use is limited to ten (10) concurrent end users of applications other than ArcGIS Server applications. This restriction includes use of ArcGIS Desktop Software, ArcGIS Engine Software, and third-party applications that connect directly to any ArcGIS Server geodatabase. There are no limitations on the number of connections from web applications.
29. Software can only be used with SQL Server 2005/2008 Express.
30. Use is restricted to a maximum of ten (10) gigabytes of Licensee data.
31. Redundant Software installation(s) for failover operations is allowed but can only be operational during the period the primary site is nonoperational. The redundant Software installation(s) shall remain dormant, except for system maintenance and updating of databases, while the primary site or any other redundant site is operational.
32. No redundant Software installation is permitted.
33. Licensee's access to and use of Cloud Bundle, ArcGIS Web Mapping, ArcGIS Online Services, Business Analyst Online, Business Analyst Online API, or Microsoft Bing Maps is conditioned upon Licensee's acceptance of the Esri Web Services and API Terms of Use, the Business Analyst Online Web Subscription Terms and Conditions, the Terms of Use for Bing Maps Services, and any other terms and conditions applicable thereto or to any third-party data being accessed through them, found at http://www.esri.com/legal.
34. Licensee's organization is limited to the number of specified credits, transactions, geography, or number of users as described in the online product description.
35. Licensed end users shall not share the client-side data cache derived from ArcGIS Online Services with other licensed end users or third parties.
36. Licensee's use of Esri Business Analyst (Canadian Edition) Data is subject to the Use of Data Restrictions specific to Esri Business Analyst (Canadian Edition) Data.
37. Data provided with StreetMap USA may be used for mapping, geocoding, and routing purposes but is not licensed for dynamic routing purposes. For instance, StreetMap USA may not be used to alert a user about upcoming maneuvers (such as warning of an upcoming turn) or to calculate an alternate route if a turn is missed.
38. The ArcGIS Server 3D extension included with ArcGIS Server Standard (Workgroup or Enterprise) may only be used for generating globe data cache(s) or publishing a globe document as an ArcGIS Globe Service. No other use of the ArcGIS Server 3D extension Software is permitted with ArcGIS Server Standard.
39. Any editing functionality included with ArcGIS Server is not permitted for use with ArcGIS Server Basic (Workgroup or Enterprise).
40. Geospatial Enterprise JavaBeans (EJB) provided with ArcGIS Server (Workgroup or Enterprise) is permitted for use only with ArcGIS Server Advanced.
41. Licensee may only use Data from a single state with the Single State version of ArcGIS Data Appliance. This restriction applies to a large-scale (i.e., scale levels below 1:100,000) street map, transportation layer, boundaries and places layer, and one (1)-meter or better resolution imagery included in the USA Collection. This restriction does not apply to the small-scale (i.e., scale levels above 1:100,000) maps provided in the World Collection, which are intended for display at global and regional scales.
42. Licensee has the right to one (1) desktop deployment of the ArcGIS Server Image extension Service Definition Editor for every four (4) cores of ArcGIS Server Image extension that are licensed.
43. Licensee may develop an unlimited number of applications on a single computer and deliver the applications to end users with or without the ArcGIS Engine Runtime Software.

44. For any operating system environment in which Licensee runs instances of the Concurrent Use License management software, Licensee may run up to the same number of passive failover instances of the Concurrent Use License management software in a separate operating system environment for temporary failover support.
45. Data licensed with Esri Business Analyst and Esri Business Analyst Server is restricted for use only in conjunction with the respective Business Analyst extension.
46. Licensee should not follow any route suggestions that appear to be hazardous, unsafe, or illegal. Licensee assumes all risk of using this navigation Software.
47. Licensee may develop and distribute software or web applications that use the Esri File Geodatabase API to Licensee's end users.
48. Licensee may include reports and maps created from the Software or Data in hard-copy or read-only format for presentation packages or marketing studies for subsidiaries and customers. The total content of the Esri reports and maps must be less than twenty percent (20%) of Licensee's total content of the presentation package or marketing study. Full, complete, stand-alone reports or maps created from the Software or Data and not part of a presentation package or marketing study cannot be resold, sublicensed, or otherwise transferred without prior written permission of Esri. Licensee's third-party customer may only receive reports and maps generated by Licensee and may only use the maps and reports received from Licensee for internal purposes. In no case shall Licensee redistribute the Data in digital formats.
49. Esri MapIt Silverlight Web or WPF applications may not be deployed independent of Licensee's MapIt deployment configuration.
50. Licensee has the right to one (1) desktop deployment of Spatial Data Assistant for each Esri MapIt server license.
51. Esri Business Analyst Server Developer and Data may only be installed on one (1) server per license solely for the purposes of research, development, testing, and demonstration of a prototype application.
52. Source code is the intellectual property of Esri. Licensee shall treat any source code file identified as "Software" in a README file or at http://www.esri.com/legal/ as a trade secret for Licensee's own internal use only and not for further redistribution or access by unlicensed third parties. Licensee shall not modify the Software, Documentation, Data, or source code to incorporate, embed, link, or otherwise include any code, libraries, or data licensed or distributed under an open source licensing or distribution models similar to Free Software Foundation's GNU General Public License (GPL) or GPL-compliant licenses, including, without limitation, the Artistic License (e.g., Perl), the Mozilla Public License, the Netscape Public License, and the Sun Community or Industry Standards License, that could require a user to make its proprietary source code available to a requesting third party.
53. Reserved.
54. ArcGIS Mobile is licensed for use with ArcGIS Server Advanced (Enterprise or Workgroup) and ArcGIS Desktop (ArcInfo, ArcEditor, ArcView, and ArcGIS Engine applications).
55. Licensee may develop software or web applications that use the Business Analyst Online API to access, query, create, display, and redistribute Reports and resulting static, electronic maps to end user(s) of Licensee's software or web applications. End user(s) of Licensee's software or web applications may use the Reports and maps for internal purposes only and not for further redistribution. "Report" means any formatted output created by the Business Analyst Online API, which includes PDF, CSV, Excel, HTML, and XML formats. Licensee shall not redistribute any Data in vector formats.
56. For Reports or maps displayed or posted to an external website, or Reports or maps created for Licensee's end user(s), Licensee shall affix an attribution notice to Licensee's online and/or hard-copy output that acknowledges Esri's and its third-party data supplier's intellectual property. These notices are found in the PDF or export image format of each individual Report or image, or as follows: "Source [Esri, Supplier]" or Copyright © [year(s)] [Esri, Supplier]. All rights reserved."
57. Licensee may only display or post any combination of 100 Business Analyst Online or Community Analyst Reports and maps on its external websites.
58. Licensee shall order a separate Business Analyst Online or Community Analyst subscription for each person who uses Business Analyst Online or Community Analyst and shall provide output from the Business Analyst Online or Community Analyst subscription only to the e-mail of the individual subscriber.
59. Licensee may develop an unlimited number of applications on a single computer and deliver the applications to end users with or without the ArcGIS Runtime Software up to the number of deployment licenses that have been purchased.
60. (a) ArcGIS Runtime licenses shall not be used for Internet and server development and deployment; (b) an end user must purchase a software application that includes an ArcGIS Runtime license to obtain the right to run an ArcGIS Runtime application on one (1) computer. A single user may have multiple ArcGIS Runtime licensed applications installed on one (1) computer that utilize a single ArcGIS Runtime.
61. Oracle is a third-party beneficiary of Esri's rights under the Esri License Agreement with respect to the Software but is not a party hereto and assumes no obligations hereunder.
62. Esri and its Licensors reserve the right to conduct an audit of Licensee's use of the Software. Licensee will provide reasonable assistance and access to information regarding Licensee's use of the Software. Audit results may be reported to Esri's Licensors. Fees for over-deployment or excess usage are payable within thirty (30) days of the invoice date.
63. Licensee may not publish the results of benchmark tests run on the Software without the prior written permission of Esri and its Licensors.

CERTIFICATE OF UNINSTALLATION/ REMOVAL AND DESTRUCTION

Esri, 380 New York St., Redlands, CA 92373-8100 USA • TEL 888-377-4575, option 1 • FAX 909-793-4801
For international customers, please contact your local Esri Distributor.

Pursuant to the License Agreement and Purchase Orders between Esri and Licensee, Licensee may use only the quantity of Esri Software or Data licenses for which appropriate license fees have been paid to Esri and/or in accordance with the licensed configuration on file as authorized by Esri. Licensee must discontinue use of Software or Data when licenses are upgraded, converted, or transferred, including associated authorizations, keycodes, registrations, or unlock codes, if applicable. Esri requests return of this Certificate of Uninstallation/Removal and Destruction of the Esri Software or Data, including associated authorizations, keycodes, registrations, or unlock codes, within thirty (30) days of receipt of new media for any upgraded or converted Software or Data.

CHECK APPROPRIATE BOX BELOW

_____ As of the date signed below, Licensee hereby certifies the proprietary Esri Software, Data, authorizations, keycodes, registrations, unlock codes, Documentation, revisions, and updates for the platform identified below will be uninstalled or removed and destroyed. If any other copies of Esri Software, Data, authorizations, keycodes, registrations, unlock codes, Documentation, revisions, and updates are subsequently discovered, except as authorized in writing by Esri, they shall also be uninstalled or removed and destroyed in a manner consistent with this certification.

_____ Licensee represents and warrants that Licensee shall uninstall or remove and destroy the proprietary Esri Software, Data, authorizations, keycodes, registrations, unlock codes, Documentation, revisions, and updates for the platform identified below within thirty (30) days of the date signed below. If any other copies of Esri Software, Data, authorizations, keycodes, registrations, unlock codes, Documentation, revisions, and updates are subsequently discovered, except as authorized in writing by Esri, they shall also be uninstalled or removed and destroyed in a manner consistent with this certification.

Esri Customer/End User Number

Company Name

Sentinel Key Number (begins with 371) or Media Access Control (MAC) Address*
(Concurrent Use 9.x and prior)

Authorized Signature

Name (Printed)

FlexLM HostID*—for UNIX Operating System
(Concurrent Use 9.x and prior, Floating and Nodelock)

Title

Authorization/Registration Number(s)*
(May begin with ESU, EFL, UNK, ECP, EDN, or KEY)

Date

Unlock Code(s)*

Types of Esri Software or Data that have been or will be uninstalled/removed and destroyed:

*Additional Authorizations, Registrations, Unlock Codes, Sentinel Keys, MAC Addresses, and FlexLM HostIDs as appropriate:

HIDALGO COUNTY PURCHASING DEPARTMENT
SOLE SOURCE AFFIDAVIT

THIS IS AN OFFICIAL PURCHASING DOCUMENT-RETAIN WITH PURCHASE ORDER

Before me, the undersigned official, on this day, personally appeared Chris Johnson a person known to me to be the person whose signature appears below, whom after being duly sworn upon his/her oath deposed and said:

1. My name is Chris Johnson. I am over the age of 18, have never been convicted of crime and am competent to make this affidavit.
2. I am an authorized representative of the following company or firm: Environmental Systems Research Institute, Inc.
3. The above named company or firm is the sole source for the following item(s), product(s) or service(s):
   ArcEditor
4. Competition in providing the above named item(s), product(s), service(s) is precluded by the existence of a patent, copyright, secret process or monopoly as stated under Section 262.024(a)(7)(A), of the Local Government Code. Also, attached hereto is a sole source letter, which sets forth the reasons why this Vendor is a sole source provider (dated and signed).
5. There is/are no other like item(s) or product(s) available for purchase that would serve the same purpose or function.
6. Note: This Vendor understands that by providing false information on this Sole Source Affidavit, it may be considered a non-responsible Vendor on this and future purchases and may result in discontinuations of any/all business with Hidalgo County.

Signature

SWORN AND SUBSCRIBED TO under oath before me on 10 day of February, 2012

See attached
NOTARY PUBLIC

PRINTED NAME

MY COMMISSION EXPIRES

COMPANY NAME: Environmental Systems Research Institute, Inc. **(Esri)**
ADDRESS, CITY, STATE & ZIP CODE: 380 New York Street, Redlands, CA 92373-8100
PHONE: 888-377-4575 Fax NUMBER: 909-307-3083
CONTACT NAME AND TITLE: Customer Service Department
WEB ADDRESS: www.esri.com EMAIL: service@esri.com
FEDERAL TAX ID NUMBER: **95-2775732** TEXAS SALES TAX NUMBER: **1-95-2775732-2**

CALIFORNIA JURAT WITH AFFIANT STATEMENT

GOVERNMENT CODE § 8202

☑ See Attached Document (Notary to cross out lines 1–6 below)
☐ See Statement Below (Lines 1–6 to be completed only by document signer[s], *not* Notary)

Signature of Document Signer No. 1

Signature of Document Signer No. 2 (if any)

State of California

County of San Bernardino

Subscribed and sworn to (or affirmed) before me on this 16th day of February, 2012, by

(1) CHRIS JOHNSON,
Name of Signer

proved to me on the basis of satisfactory evidence to be the person who appeared before me (.) (,)

(and

(2) _____,
Name of Signer

proved to me on the basis of satisfactory evidence to be the person who appeared before me.)

Signature _____
Signature of Notary Public

JESSICA M. LUND
COMM. #1947672
NOTARY PUBLIC - CALIFORNIA
SAN BERNARDINO COUNTY
My Comm. Expires September 8, 2015

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Further Description of Any Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

RIGHT THUMBPRINT OF SIGNER #1	RIGHT THUMBPRINT OF SIGNER #2
Top of thumb here	Top of thumb here

© 2010 National Notary Association • NationalNotary.org • 1-800-US NOTARY (1-800-876-6827)

Item #5910

SOLE SOURCE LETTER

Environmental Systems Research Institute, Inc. (Esri)
380 New York Street
Redlands, CA 92373
Telephone: 909-793-2853, extension 1990
E-mail: jricks@esri.com

DATE: 01/19/2012

TO: To Whom It May Concern

FROM: Jackie Ricks, Esri Contracts and Legal Services

RE: Esri Sole Source Justification for Geographic Information System Software

This letter confirms that Esri, as owner and manufacturer, is the sole-source provider of **software maintenance** (technical support plus Esri software updates/upgrades) for Esri products.

Esri is the sole-source provider of the following Esri products in the commercial, state, and local government marketplace:

> ArcGIS ArcEditor; ArcGIS ArcInfo; ArcGIS Server and extensions; ArcInfo Workstation and extensions; Esri Developer Network (EDN) subscriptions; MOLE; Esri Production Mapping, Esri Defense Mapping, Esri Aeronautical Solution, and Esri Nautical Solution; and certain proprietary training courses.

In an effort to support diversity in federal contracting, Esri has authorized certain small and/or disadvantaged companies (see GSA Advantage! for details) as resellers of Esri products to eligible entities purchasing under a GSA Schedule, including the following products otherwise available only from Esri:

> ArcGIS ArcEditor; ArcGIS ArcInfo; ArcGIS Server and extensions; Esri Production Mapping, Esri Defense Mapping, Esri Aeronautical Solution, and Esri Nautical Solution; and certain Esri instructor-led training courses.

Esri distributes certain software licenses, ***excluding those listed above***, through open-market value-added resellers and distributors.

If you have further questions, please contact me at 909-793-2853, extension 1-1990.

Sincerely,

J. Ricks

Jackie Ricks

HIDALGO COUNTY
texas

Hidalgo County
Elections Department
101 S. 10th St.
P.O. Box 659
Edinburg, Texas 78540
Office: (956) 318-2570
Fax: (956) 318-2569

Memorandum

To: **Martha Salazar- Purchasing Agent**

From: **Yvonne Ramón- Elections Administrator**

Date: **February 22, 2012**

Subject: **ESRI- ArcEditor Concurrent Use Upgrade from ArcView**

The Elections Department IT Division is in need of two ArcEditor Concurrent Use Upgrade licenses. These particular licenses are needed in order to allow employees to work concurrently on the same data. As you know, we are in the middle of the redistricting process and need these licenses in order to make any progress.

In 2004 the first ESRI GIS licenses was purchased by the Elections Department. At that time, ESRI had a DIR contract which allowed for ease during the procurement process. ESRI no longer holds a DIR contract. We have provided your department with a sole source letter as well as a sole source affidavit (requisition # 209531).

ESRI, the industry leader and most popular GIS software used around the world, was the vendor chosen due to the features offered by the ArcView software. ESRI is the industry standard for this type of product. ArcGIS ArcView is the most popular full-featured software for visualizing, managing, creating, and analyzing geographical data. Due to the experience obtained over the past years with the GIS software purchased in 2004, we would like to continue with ESRI and upgrade to the ArcEditor Concurrent Use Upgrade license. Please assist us with the requisition in order to obtain the needed software.

Thank you for continued cooperation. If you have any questions, please contact me at (956) 318-2570 ext. 5712.

Angela Garcia

From: Tanya.Delira <tanya.delira@co.hidalgo.tx.us>
Sent: Tuesday, March 13, 2012 8:19 AM
To: 'Arcy Duran'; angela.garcia@co.hidalgo.tx.us; 'priscilla.torres'
Subject: FW: ESRI ArcView License Upgrade. (Req # 209531)

Attached please find the legal approval for AI-31263.

From: Martha Salazar [mailto:martha.salazar@co.hidalgo.tx.us]
Sent: Tuesday, March 13, 2012 8:17 AM
To: 'Tanya.Delira'
Subject: FW: ESRI ArcView License Upgrade. (Req # 209531)

From: Steve Crain [mailto:scrain@atlashall.com]
Sent: Tuesday, March 13, 2012 7:39 AM
To: 'Martha Salazar'
Subject: RE: ESRI ArcView License Upgrade. (Req # 209531)

Based on this explanation it appears it is OK if we are purchasing upgrades.

From: Martha Salazar [mailto:martha.salazar@co.hidalgo.tx.us]
Sent: Monday, March 12, 2012 5:08 PM
To: 'Steve Crain'
Subject: FW: ESRI ArcView License Upgrade. (Req # 209531)
Importance: High

Mr. Crain:
This information has been received from Elections in connection with the sole source item we have been discussing. Let me know if you think this will change your concern. Item is on tomorrow's agenda.
Marty

From: luis.diaz [mailto:luis.diaz@co.hidalgo.tx.us]
Sent: Monday, March 12, 2012 4:52 PM
To: Martha.Salazar@co.hidalgo.tx.us
Cc: tanya.delira@co.hidalgo.tx.us; 'Yvonne Ramon'; 'Veronica Lopez'; scrain@atlashall.com
Subject: ESRI ArcView License Upgrade. (Req # 209531)

Good Afternoon Mrs. Salazar,

The Elections Department is in need of purchasing upgrades from our two current ESRI ArcView licenses to ESRI ArcEditor licenses to accompany our Geographic Information System. ArcView licenses can be purchased through multiple vendors the ArcEditor upgrade on the other had; can only be purchased through ESRI being that they are the sole source provider of the upgrade from ArcView to ArcEditor. I have attached a copy of the sole source letter provided by ESRI Contracts and Legal Services stating on the second paragraph that ESRI is the sole source provider of ESRI upgrades and extensions ArcEditor being listed on the following paragraph as one of the items ESRI provides sole source. The hardware that houses ESRI software are standard high performance Dell desktop computers. ESRI is not the provider of any hardware our office holds. There is no other provider for the ESRI software upgrades form Arcview to

ArcEditor. The Elections Department has been provided Geographic Information System software and support by ESRI since 2004 when it was initially purchased.

Thank You

Luis M. Diaz
Elections Project Coordinator
Hidalgo County Elections Department
101 S. 10th Avenue Edinburg, Texas 78542
P: (956) 318-2570
F: (956) 393-2039
W: /

AI-41651 **Purchasing Department 17. C. 2.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted By: Yvette Islas, PURCHASING DEPT.

Department: PURCHASING DEPT.

Information

CAPTION

Requesting authority to advertise and approval of procurement packet (specifications/plans, legal notice, etc) for "Hidalgo County Adult Detention Center and Law Enforcement Facility Repairs and/or Replacement" RFB #2013-133A-12-11-YSS.

BACKGROUND

Proposed Timeline:
1st ad: Saturday, November 23, 2013
2nd ad: Saturday, November 30, 2013
Bid Opening Date: Wednesday, December 11, 2013

Fiscal Impact

FISCAL YEAR: 2013 **ACCT. #:** 3-1100-421-00-280-001-0-540

FUNDS AVAILABLE Y/N?: Y **MATCHING FUNDS Y/N?:** N

BUDGETARY IMPACT:

PO#685622

Attachments

13-133A specs n plans

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/06/2013 03:45 PM
Glinda Pacheco	Glinda Pacheco	11/13/2013 11:04 AM
Yvette Islas (Originator)	Yvette Islas	11/15/2013 03:03 PM
Budget & Management	Obdett Calzada	11/15/2013 03:35 PM
Glinda Pacheco	Glinda Pacheco	11/15/2013 03:58 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Yvette Islas Started On: 11/05/2013 04:55 PM

Final Approval Date: 11/15/2013

REQUEST FOR BID

FOR

Hidalgo County Sheriff's Office

Hidalgo County Adult Detention Center and Law Enforcement Facility Repairs and/or Replacement

Bid No. 2013-133A-12-11-YSS

IN

EDINBURG, TEXAS

STRUCTURAL ENGINEER

CHANIN ENGINEERING, LLC

MEP ENGINEER

MEP SOLUTIONS ENGINEERING

ARCHITECT

SAM GARCIA ARCHITECTS

COPY NO. _____

DATED: _____

INDEX

A. Request for Bids.....2 PAGES

B. Instruction To Bidders Section 00100..... 9 PAGES

C. Hidalgo County Request for Bids..... 32 PAGES

D. Bid Form.....4 PAGE

E. Supplements To Bid Forms Section 00400 ..... 1 PAGES

F. Agreement Form Section 00500 ..... 7 PAGES

G. Bonds and Certificates Section 00600..... 1 PAGES

H. General Conditions Section 00700 ... .17 PAGE

I. Required Documents .....11 PAGE

J. Wages Rates Section 00820 ..... 2 PAGES

K. Summary Section 01100..... 3 PAGES

L. Price and Payment Procedures Section 01200 ……..8 PAGES

M. Payment Procedures Section 01290…….4 PAGES

N. Administrative Requirements Section 01300……5 PAGES

O. Construction Progress Schedule Section 01323…….5 PAGES

P. Submittal Procedures Section 01330…….7 PAGES

Q. Quality Requirements Section 01400…….5 PAGES

R. Temporary Facilities and Controls Section 01500……..10 PAGES

S. Product Requirements Section 01600……2 PAGES

T. Product Substitution Procedures Section 01630……..3 PAGES

U. Execution Requirements Section 017000……11 PAGES

V. Index of Technical Specifications.....ATTACHEMENT

HIDALGO COUNTY SHERIFF'S OFFICE
Hidalgo County Adult Detention Center and
Law Enforcement Facility Repairs and / or Replacement
Edinburg, TX

INDEX OF DRAWINGS

1. **STRUCTURAL DRAWINGS**

CS-COVER SHEETS
S1.0-SITE PLAN
S2.0-GENERAL NOTES
S2.1-GENERAL NOTES
S3.0-UPLIFT PLAN ADC BUILDING
S3.1-UPLIFT PLAN LEC BUILDING
S4.0- PARTIAL FLOOR PLAN ADC BUILDING
S5.0-ADC BUILDING OVERALL ROOF PLAN
S5.1-ADC BUILDING ROOF PLAN AREA #1
S5.2- ADC BUILDING ROOF PLAN AREA#2
S5.3- ADC BUILDING ROOF PLAN AREA#3
S5.4- ADC BUILDING ROOF PLAN AREA#4
S5.5- ADC BUILDING ROOF PLAN AREA#5
S5.6-LEC BUILDING OVERALL ROOF PLAN
S6.0-DETAILS
S6.1-DETAILS
S7.0-PICTURES

2. **ARCHITECT DRAWINGS**

A1.1-EXISTING ROOF PLAN
A1.2-ROOF ZONES
A1.3-ROOF MODIFICATIONS
A2.1-DETAILS
A2.2-DETAILS

3. **M.E.P DRAWINGS**

M1.0-MECHANICAL PLAN AREA 1
M2.0- MECHANICAL PLAN AREA 2
M3.0- MECHANICAL PLAN AREA 3
M4.0- MECHANICAL PLAN AREA 4
M5.0- MECHANICAL PLAN AREA 5 SECOND FLOOR

M8.0- MECHANICAL SCHEDULES

M9.0- MECHANICAL SCHEDULES

ES1.0- ELETRICAL SITE PLAN 1

E1.0-ELECTRICAL SPECIAL SYSTEM PLAN AREA 1

E2.0- ELECTRICAL SPECIAL SYSTEM PLAN AREA 2

E3.0- ELECTRICAL SPECIAL SYSTEM PLAN AREA 3

E4.0- ELECTRICAL SPECIAL SYSTEM PLAN AREA 4

E5.0- ELECTRICAL SPECIAL SYSTEM PLAN AREA 5

E6.0-ELECTRICAL SPECIAL SYSTEM PLAN AREA 5 SECOND FLOOR

E7.0- ELECTRICAL MECHANICAL EQUIPMENT LOCATION PLAN AREA 1

E8.0- ELECTRICAL MECHANICAL EQUIPMENT LOCATION PLAN AREA 2

E9.0- ELECTRICAL MECHANICAL EQUIPMENT LOCATION PLAN AREA 3

E10.0- ELECTRICAL MECHANICAL EQUIPMENT LOCATION PLAN AREA 4

E11.0- ELECTRICAL MECHANICAL EQUIPMENT LOCATION PLAN AREA 5

E12.0- ELECTRICAL MECHANICAL EQUIPMENT LOCATION PLAN AREA 5 SECOND FLOOR

E13.0-ELECTRICAL SPECIAL SYSTEM PLAN LEC BUILDING

E14.0-ELECTRICAL SPECIAL SYSTEM PLAN ADC BUILDING

E15.0-ELECTRICAL PLAN LEC BUILDING

E16.0-ELECTRICAL MECHANICAL EQUIPMENT CONNECTION SCHEDULE

P1.0-ROOF CONDENSATE PLAN AREA 1

P2.0- ROOF CONDENSATE PLAN AREA 2

P3.0- ROOF CONDENSATE PLAN AREA 3

P4.0- ROOF CONDENSATE PLAN AREA 4

P5.0- ROOF CONDENSATE PLAN AREA 5 SECOND FLOOR

P6.0- ROOF CONDENSATE PLAN LEC BUILDING

P7.0- ROOF CONDENSATE PLAN DETAILS

END OF SECTION

HIDALGO COUNTY SHERIFF'S OFFICE
Hidalgo County Adult Detention Center and
Law Enforcement Facility Repairs and / or Replacement
Edinburg, TX

TABLE OF CONTENTS

DIVISION 1 – GENERAL REQUIREMENTS

01100 Summary
01200 Price and Payment Procedures
01290 Payment Procedures
01300 Administrative Requirements
01323 Construction Progress Schedules
01330 Submittal Procedures
01400 Quality Requirements
01400 Quality Requirements – Roofing
01500 Temporary Facilities and Controls
01600 Product Requirements
01600 Product Requirements – Roofing
01700 Execution Requirements

DIVISION 3-CONCRETE

03100 Concrete Forms and Accessories
03200 Concrete Reinforcements
03300 Cast-In- Place Concrete

DIVISION 5 – METALS

05120 Structural Steel
05310 Steel Deck Repair/Replacement (If Required)

DIVISION 6 – WOOD AND PLASTICS
06105 Miscellaneous Carpentry

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

07210 Foamed-In-Place Insulation
07551 Modified Bitumen Membrane Roofing (Re-Cover)
07592 Membrane Re-Cover Roofing Preparation
07620 Sheet Metal Flashing and Trim

DIVISION 9 – FINISHES

09300 Tile
09510 Acoustical Panel Ceilings

DIVISION 13, 15, 16 –REFER TO MEP'S TABLE OF CONTENTS

END OF SECTION

Division	Section Title

DIVISION 13 – SPECIAL CONSTRUCTION
13852 DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM

Division	Section Title

DIVISION 15 – MECHANICAL
15010 MECHANICAL GENERAL REQUIREMENTS
15050 MECHANICAL MATERIALS AND METHODS
15067 HANGERS AND SUPPORTS
15077 MECHANICAL IDENTIFICATION
15080 MECHANICAL INSULATION
15150 SANITARY WASTE AND VENT PIPING
15430 PLUMBING SPECIALTIES
15732 ROOF TOP UNITS
15815 METAL DUCTS
15820 DUCT ACCESSORIES
15855 DIFFUSERS, REGISTERS, AND GRILLES
15950 TESTING ADJUSTING AND BALANCING

Division	Section Title

DIVISION 16 – ELECTRICAL
16051 COMMON WORK RESULTS FOR ELECTRICAL
16060 GROUNDING AND BONDING
16075 ELECTRICAL IDENTIFICATION
16120 CONDUCTORS AND CABLES
16130 RACEWAYS AND BOXES
16410 ENCLOSED SWITCHES AND CIRCUIT BREAKERS
16511 INTERIOR LIGHTING

HIDALGO COUNTY

REQUEST FOR BIDS

Request for Bids for the work identified below in accordance with proposals documents and addenda as may be issued prior to date of proposal opening will be received by the Hidalgo County, until proposal closing date and time, as identified below. The County shall receive, publicly open, and read aloud the names of the Proposers and, if any are required to be stated, all prices stated in each proposal. The County shall evaluate each Bid submitted in relation to the published selection criteria. The County shall document the basis of its selection and shall make the evaluations public not later than the seventh day after the date the contract is awarded.

OWNER:	Hidalgo County Commissioner's Court 711 E. El Cibolo Rd. Edinburg, TX 78541
PROJECT NAME:	**HIDALGO COUNTY SHERIFF'S OFFICE** **Hidalgo County Adult Detention Center and Law Enforcement Facility Repairs and/or Replacement**
PROPOSAL OPENING DATE AND TIME:	
LOCATION OF PROPOSAL OPENING:	Hidalgo County Purchasing Department
CONSULTING ENGINEER: **(Structural)**	Chanin Engineering, LLC 400 Nolana, Suite N-2 McAllen, Texas 78504 Phone: (956) 687-9421
CONSULTING MEP:	Mep Solutions 600 E Beaumont Ave, McAllen, TX 78501 Ph:956-664-2727
CONSULTING ARCHITECT:	Sam Garcia Architects 1335 E. Jasmine Ave. McAllen, TX 78501 Ph: 956-212-4930
CONSTRUCTION PROJECT MANAGER:	Prodigy Construction Management, LLC 1335 E. Jasmine Ave. McAllen, TX 78501 Ph: 956-800-1122

Responsible Bidders may obtain sets of plans and specifications at place identified upon deposit of **$150.00** per set with check made payable to **Chanin Engineering, LLC**.

Bid Documents will be available beginning and may be obtained from the following address:

Chanin Engineering, LLC
400 Nolana Suite N2
McAllen, TX 78504
Phone: 956-687-9421

Office Hours are 8:00 AM to 5:00 PM

Full Refund: Deposits will be returned provided all Contract Documents and addendums are returned to the Engineer, complete with all sheets bound in their original order within ten (10) days after the deadline for submission or proposals.

Forfeit of Deposit: When the Documents are not returned under the conditions specified, none of the deposit will be returned. However, the Documents shall remain the property of the Owner and must be returned.

The Owner reserves the right to reject any and all Bids and to waive any informality in the Bid process.

No Bid shall be withdrawn within forty-five (45) days after the Bid opening without the specific consent of the Owner.

SECTION 00100
INSTRUCTION TO BIDDERS

PROJECT: **HIDALGO COUNTY SHERIFF'S OFFICE**
Hidalgo County Adult Detention Center and
Law Enforcement Facility Repairs and/or Replacement

STRUCTURAL ENGINEER: CHANIN ENGINEERING, LLC
400 Nolana, Suite N-2
McAllen TX, 78504
(956)687-9421

1.0 METHOD OF BIDDING: The Owner invites the following proposal(s):

BASE PROPOSAL: All work for the HCSO ADC and LEC and all related work as indicated by the Contract Documents except the work indicated by the alternates.

ALTERNATES:

Alternate No. 1: Remove and Replace existing Quarry Tile in ADC Kitchen.

Alternate No. 2: Remove and Replace existing Suspended Ceiling and Accessories in ADC Kitchen.

Alternate No. 3: Remove and Replace Three Cooler/ Freezer Doors and Components in ADC Kitchen.

Alternate No. 4: Remove and Replace Cooler/ Freezer Compressor for ADC Kitchen.

Alternate No. 5: Remove and Replace six (6) light poles on LEC Parking Lot.

2.0 RESPONSIBLE BIDDERS

2.1 Bids will be accepted from responsible Bidders only for the entire scope of work described in the Contract Documents. As prerequisite to a Bidder's qualifying for the award of contract on this work, the Bidder must complete each item of the Hidalgo County Statement of Credentials Form. The Statement and other requested information must be submitted with the bid, no later than the bid opening time and date. Facsimile transmittals are not acceptable. All Bidders submitting a Bid are encouraged to attend the bid opening.

2.2 The primary purposes of the evaluation process will be to:
1.2.1 Gather information for the Owner's evaluation procedure.
1.2.2 Enable the Owner and/or Engineer to evaluate the Bids.

2.3 In arriving at his/her opinion concerning the Bidder's qualifications, the Engineer will use the same criteria that the Owner will use in determination of the selection of the Bidders.

2.4 In the event the Bidders fail to submit the Hidalgo County Statement of Credentials Form no later than the bid opening time and date, it will result in disqualification of the bid.

3.0 BIDDER'S PRESENTATION: The Bidder, by signing and executing this bid, certifies and represents to the County that:

3.1 Bidder has read and understands the Bid Documents and his bid is made in accordance therewith.

3.2 Bidder has visited the site, has familiarized himself with the local conditions under which the work is to be performed and has correlated his observations with the requirements of the proposed Contract Documents.

3.3 Bidder agrees to comply with use of the Davis Bacon wages rates for Hidalgo and Cameron County. The prevailing rates of wages are the minimums that must be paid in conformance with all applicable laws of the State of Texas and the Hidalgo County. These rates are attached to the contract documents and labeled as Attachment "A".

3.4 Bidder agrees to comply with the requirements outlined in Section 3.5. These requirements are absolute, and any Bidder who subsequently does not agree to comply with these requirements will automatically disqualify himself from receiving award of the contract.

3.5 Bidder agrees that:

- 3.5.1 Each Bidder by making his bid represents that his bid includes only material and equipment specified in the Bid Documents and supplemented, if necessary, for a complete and operating system.
- 3.5.2 Each Bidder (and Sub-Bidder or supplier submitting a bid to a Bidder) shall submit an affidavit stating that no asbestos, PCBs or lead building materials shall be used.
- 3.5.3 Where subcontract work is involved and where Acceptable Subcontractors are designated for particular sections of phases of the Work, each Bidder by making his bid represents that his bid includes only firms designated as Acceptable Subcontractors.
- 3.5.4 The Bidder will furnish and pay for a bid bond in the form of a bid bond, postal money order, certified check or cashier's check in the amount of **five percent (5%) of the total greatest amount, bid including any applicable alternates**, in accordance with Section 8.0.
- 3.5.5 If awarded, the Bidder shall furnish and pay for a Performance Bond and a Payment Bond each in the full contract amount in accordance with Section 9.0. Include this cost in your proposal.
- 3.5.6 Work on the project will begin immediately upon receipt of signed Contract or Notice to Proceed.
- 3.5.7 Bidder shall carry and keep in full force for the duration of the Project, insurance coverage for builder's risk, workmen's compensation, comprehensive general liability, and automobile liability as required by the General Conditions and/or Supplementary General Conditions of the Specifications, as outlined in Section 10.0.
- 3.5.8 Bidder will participate as a team member in cooperation with the Project Engineer.
- 3.5.9 The Bidder will assign a competent full-time superintendent, to the project, and that superintendent shall be maintained on the project for the duration of the project, subject only to his continuous employment. The superintendent shall be on site at all times and shall have a minimum of ten (10) years experience as a superintendent.

3.6 Bidder has not offered, conferred or agreed to confer any pecuniary benefit, as defined by §1.07(a)(6) of the Texas Penal Code, or any other thing of value, as consideration for the receipt of information or any special treatment or advantage relating to this bid.

3.7 Bidder has not offered, conferred or agreed to confer any pecuniary benefit or other things of value as consideration for the recipient's decision, opinion, recommendation, vote or other exercise of discretion concerning this bid.

3.8 Bidder has neither coerced nor attempted to influence the exercise of discretion by any officer, trustee, agent or employee of the County concerning this bid on the basis of any consideration not authorized by law.

3.9 Bidder has not received any information not available to other Bidders so as to give the undersigned a preferential advantage with respect to this bid.

3.10 Bidder has not violated any state, federal or local law, regulation or ordinance relating to bribery, improper influence, collusion or the like.

3.11 Bidder will not in the future offer, confer, or agree to confer any pecuniary benefit or other thing of value to any officer, trustee, agent or employee of the County in return for the person having exercised the person's official discretion, power or duty with respect to this bid.

3.12 Bidder has not now and will not in the future offer, confer, or agree to confer a pecuniary benefit or other thing of value to any officer, trustee, agent or employee of the County in connection with information regarding this bid, the submission of this bid, the award of this bid or the performance, delivery or sale pursuant to this bid.

4.0 REQUEST FOR BID

4.1 Bid Documents include the Request for Bid Documents, General Terms Font Size and Conditions, the Bid Form, Project Scope (Plans and Specifications), and the Proposed Contract Documents, including any Addenda issued prior to receipt of bids. The Contract Documents for the work consist of the Owner-Contractor Agreement, the Conditions of the Contract (General, Supplementary and other Conditions), the Drawings, the Specifications, and all Addenda issued prior to receipt of Bids.

4.2 In addition to documents issued to Bidder, bid documents will be available at the following location(s).

Chanin Engineering, LLC
400 Nolana Suite N2
McAllen, TX 78504
Phone: 956-687-9421

4.3 **Subcontractors:** Subcontractors and Suppliers intending to submit bids to General Construction Bidders are required to prepare their bids based on a complete set of bid documents. If after reviewing the complete set of bid documents, Subcontractors and Supplier Bidders desire to purchase individual drawings and specification section for their bid convenience, they may do so by ordering the specific drawings and specifications directly from the reproduction company. Each Bidder purchasing a partial set of proposal documents is responsible for determining exactly which documents he requires and is responsible for all costs associated with printing and delivery. Subcontractors and Suppliers exercising this option must agree to do so on the basis that 1) all documents shall be returned to the Engineer, without refund, after submitting a bid and 2) documents shall not be used on other construction projects.

4.4 Successful Subcontractors and Supplier Bidders may retain their Bid documents until completion of the construction.

5.0 REQUEST FOR BID PROCEDURES

5.1 A bid is invalid if it has not been received at the designated location prior to the time and date for receipt of bids indicated in the Request for Bids, or prior to any extension thereof issued to the Bidders by Addenda.

5.2 All requested Alternates shall be included. If no change in the Base Bid is required, enter "No Change".

5.3 Prior to the receipt of bids, Addenda will be mailed or delivered to each person or firm recorded by the Engineer as having received the bid documents and will be available for inspection wherever the bid documents are kept available for that purpose.

5.4 Bid will be received only on the Owner's Form of bid for the work as indicated by the bid documents, filled in, and enclosed in a sealed envelope addressed as listed below. Bids will be received at no other place.

Name of Bidder
BID 2013-133A-12-11-YSS
HIDALGO SHERIFF'S OFFICE-HIDALGO COUNTY
Adult Detention Center and Law Enforcement Facility Repairs and/or Replacement
Attn:

5.5 Estimated Budget Cost: The estimated budget for Sheriff's Substation is $4,200,000.00.

5.6 Pre-Bid Conference: A pre-bid conference will be held on Monday December 2, 2013 @ 1:00 p.m. at Hidalgo County ADC 711 E. El Cibolo Rd, Edinburg, Texas, 78541. Attendance by representatives of the building contractors is highly desirable and encouraged. Sub-Contractors and material suppliers who expect to be associated with the project are invited and urged to attend. Representatives of the Architects, Engineers and Architects Consultants will review the plans, specifications, details, materials, demolition, alterations and requirements of the work. An addendum indicating any change in the Contract Documents will be issued, if necessary, if subsequent to this meeting.

5.7 Pre-Construction Conference: A pre-construction conference will be held prior to beginning any work on this project. After full execution of the contract, performance and payment bonds, and insurance certificate, the Contractor shall contact the Architect and set up a date, time and place to meet on site with the Contractor, his major subcontractors, Owner and the Architect. The purpose of this meeting will be to discuss schedules, procedures, special considerations, and any other pertinent items related to this project.

5.8 The Owner reserves the right to reject any bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the Owner that such Bidder is properly qualified to carry out the obligations of the contract and to complete the work therein. Conditional bids will not be accepted.

5.9 The County shall select the Bidder that offers the best, lowest and most responsible value based on the published selection criteria.

5.10 Conditions of Work: Each bidder must inform himself fully of the conditions relating to the construction of the project and the employment of labor thereon. Failure to do so will not relieve a successful bidder of his obligation to furnish all material and labor necessary to carry out the provisions of his contract.

5.11 Obligation of Offerer: At the time of the opening of bids each bidder will be presumed to have inspected the site and to have read and to be thoroughly familiar with the Contract Documents (including all addenda). The failure or omission of any bidder to examine any form, instrument or document shall in no way relieve the bidder from any obligation in respect of this bids.

5.12 The County shall first attempt to negotiate contract with the selected Bidder. The County and its engineers may discuss with the selection Bidder options for a scope or time modification and any price change associated with the modification. If the County is unable to negotiate a contract with the selected Bidder, the County shall, formally and in writing, end negotiations with that Bidder and proceed to the next Bidder in the order of the selection ranking until a contract is reached or all bids are rejected.

5.13 In determining best value for the County, the County is not restricted to considering price alone, but may consider any other factor stated in the selection criteria.

5.14 Time of Completion: Time of completion of this Contract is of importance to the Owner and may be considered in the award of the Contract. Payments on the Contract will be made as provided by the Contract. Payments on the Contract will not be made on the Contract after 30 days prior to the completion date set by the Contractor, until final completion and acceptance by the Engineer Construction Project Manager and Owner. The Contractor shall include in his bid a time to complete the base bid (stated in calendar days) that includes his best anticipation of the number of working days that construction may be unable to take place, due to inclement weather and muddy ground. This anticipated number of lost working days shall be included on the bid form in the space designated for the total number of calendar required to complete the base bid. Extensions to the Completion Date will be granted only if, in the opinion of the Engineer and Owner, climatological conditions that impede the progress of construction significantly exceed conditions for the local area. A guide for average climatological conditions will be the bulletin "Local Climatological Data", published by the Department of Commerce.

5.15 A bid may be withdrawn only upon request by the Bidder or his duly authorized representative, provided such request is received by the Owner at the place designated for receipt of bids and prior to the time fixed for the opening of bids. A withdrawal of a bid shall not be effective unless a written confirmation of the withdrawal is received by the Owner at said place within 48 hours before the time fixed for the opening of bids. The Bid Bond will be returned with the bid if withdrawn in accordance with the above. The withdrawal of a bid does not prejudice the right to the Bidder to file a new bid at the time and place stated.

No bid may be withdrawn after the time fixed for the opening of bids for a period of 30 days.

5.16 Rejection of Request for Bids: The Owner shall have the right to reject any or all bids and to reject a bid not accompanied by any required bid security, or by other data required by the bid documents, or to reject a bid which is in any way incomplete or irregular.

5.17 Phasing of Construction: The Contractor is to submit a Phasing of Construction Plan for review and approval by the Owner and Architect within ten (10) days of notice of award. Also included herein are the anticipated areas of construction to be included in each phase.

5.18 List of Subcontractors: the successful offeror shall submit a List of Subcontractors within (10) ten days of the award of contract.

5.19 Site Maintenance/Special Temporary Facilities: The successful offeror shall be required to fulfill the following requirements:

a. Provide temporary 6' chain link fence around entire staging areas.
b. Provide adequate signage for:
    -Construction area warning
    -entrance/exits for trucks and workers
1. Adequate traffic direction for construction vehicles.
2. Daily site cleanup.
3. Job Trailer for use of County personnel and their agents.

6.0 INTERPRETATION OF REQUEST FOR BID DOCUMENTS

6.1 Bidders and sub-Bidders requiring clarification or interpretation of the bid documents shall make a written request which shall reach the Structural Engineer no later than. Questions may be faxed to (956) 687-3211 or e-mailed to miguel@chaninengineering.com

6.2 Any interpretation, correction or change of the bid documents will be made by Addendum. Interpretations, corrections or changes of the bid documents made in any other manner will not be binding.

6.3 Addenda and Interpretation: No interpretation of the meaning of the plans, specifications or other pre-bid documents will be made to any bidder orally. Every request for such interpretation should be in writing addressed to the Engineer, and to be given consideration must be received at least (5) days prior to the date fixed for the opening of bids. Any and all such interpretations and any supplemental instruction will be in the form of written addenda to the specifications which, if issued, will be mailed to all prospective bidders not later than three days prior to the date fixed for the opening of bids. Failure of any bidder to receive any such addendum or interpretation shall not relieve such bidder from any obligation under his bid as submitted. All addenda so issued shall become part of the contract documents.

7.0 SUBSTITUTIONS OF MATERIALS AND EQUIPMENT

7.1 The materials, products and equipment described in the bid documents establish a standard of required function, dimension, appearance and quality to be met by any proposed substitution. The materials and equipment named in, and the procedures covered by these specifications have been selected as a standard because of quality, particular suitability or record of satisfactory performance. It is not intended to preclude the use of equal or better materials or equipment provided that same meets the requirements of the particular project and is approved in an addendum as a substitution prior to the submission of bids.

7.2 No substitution will be considered prior to receipt of bids unless written request for approval has been received by the Engineer at least seven (7) calendar days prior to the date for receipt of bids. Each such request shall include the name of the material or equipment for which it is to substituted and a complete description of the proposed substitute including drawings, cuts, performance and test data and any other information necessary for an evaluation. The Engineer's decision of approval or disapproval of a proposed substitution shall be final.

7.3 If the Engineer approves any proposed substitution prior to receipt of bids, such approval will be set forth in an Addendum. Bidders shall not rely upon approvals made in any other manner.

7.4 No substitutions will be considered after the Contract award.

8.0 BID BOND/BID GUARANTEE

Bid bonds are required for bids in excess of $25,000. A bid bond will be submitted in the form of a Bid bond, postal money order, certified check or cashier's check in an amount not less the **five percent (5%) of the total greatest amount, bid including any applicable alternates**, payable without recourse to Hidalgo County. Failure to furnish a bid guarantee in the proper form and amount by the time set for opening may be caused for rejection of the bid. If the successful Bidder, upon acceptance of his bid by the County within the period specified therein for acceptance, fails to execute such further contractual documents, if any, and give such bond(s) (i.e., performance bonds, payment bonds, delivery, etc.) as may be required within the time specified (ten [10] calendar days if no period is specified) after receipt of the forms by him, then he shall be liable for any cost of procuring the work which exceeds the amount of his bid, and the bid guarantee shall be available toward such difference.

9.0 PERFORMANCE BOND AND PAYMENT BOND

Performance bonds are required for bids in excess of $100,000. Payment bonds are required for bids in excess of $25,000.

9.1 When a performance or payment bond is required, the amounts shall be for 100% of the contract amount. Any required bond(s) must be filed with the County within 10 days from the date of the Notice Of Award.

9.2 The only forms of surety acceptable as a performance or payment bond are: Cashier's Check, Certified Check, or a Surety or Blanket Bond from a company chartered or authorized to do business in Texas. Bonds completed (signed) by an out-of-Texas surety require a counter signature by a Texas resident agent of a company chartered or authorized to do business in Texas.

9.3 Bonds and other forms of surety must be made payable to Hidalgo County.

9.4 Bonds in excess of $100,000 must be from a surety that holds a Certificate of Authority from the United States Department of Treasury or have reinsurance for liability in excess of $100,000 from a United States Treasury listed reinsurer.

9.5 Payment and Performance Bonds must be in accordance with Texas Government Code 2253.

10.0 INSURANCE

10.1 Each Bidder shall include in his bid the complete cost for insurance required under the General Terms and Conditions and any Supplementary Conditions.

10.2 Bidder shall carry and keep in full force for the duration of the project the following coverage's:

10.2.1 Workers' Compensation – Statutory Limits
10.2.2 Employer's Liability:
9.11.1.1 Bodily Injury by Accident - $500,000 Each Accident
9.11.1.2 Bodily Injury by Disease - $500,000 Each Employee
9.11.1.3 Bodily Injury by Disease - $1,000,000 Aggregate
9.11.1.4 Bodily Injury by Accident - $1,000,000 Aggregate

10.3 Commercial General Liability (Premises Operations, Independent Contractors, Products/Completed Operations, Personal Injury, Contractual Liability, Explosion, Collapse, Underground and Broad Form Property Damage) – Combine Single Limit for Bodily Injury and Property Damage of $1,000,000 per Occurrence.

10.4 Comprehensive Automotive Liability - $1,000,000 Combined Single Limit per Occurrence.

10.5 Owner's Protective Liability Insurance Policy – The successful Bidder must obtain at it expense an owner's liability insurance policy naming the County, its employees and the Engineer insured with the following limits: Bodily Injury - $1,000,000 Each Occurrence and $1,000,000 Aggregate.

10.6 Builder's Risk Insurance: The successful Bidder must obtain at its expense, on an all risk basis, builder's risk insurance coverage, including workmanship acceptable to the County, in the amount of insurance equal at all times to 100% of the contract sum. The policy must also name its subcontractors and the County as additional insured, as their respective interests may appear. The policy must have the following endorsement: "This insurance shall be specific as to coverage and not considered as contributing insurance with any permanent insurance maintained on the present premises." For renovation projects, the County waives subrogation for damage by fire to an existing building structure if building structure is in the care, custody or control of the

contractor and the builder's risk policy must be endorsed to include coverage for an existing building structure.

10.7 All policies shall contain special endorsements to include:

10.2.7.1 The County as an additional insured (except for Workers' Compensation).

10.2.7.2 Waiver of subrogation in favor of the County under the Workers' Compensation and Employers' Liability policies.

10.2.7.3 A statement that a notice shall be given to County by certified mail thirty (30) days prior to cancellation or upon any materials change in coverage.

END OF SECTION 00100

REQUEST FOR BIDS (RFB)

HIDALGO COUNTY SHERIFF'S OFFICE

"Hidalgo County Adult Detention Center and Law Enforcement Facility Repairs and/or Replacement"

BID No. 2013-133A-12-11-YSS

Acceptance Date: **DECEMBER 11, 2013**

Martha L. Salazar, CPPB, Purchasing Agent
Hidalgo County Purchasing Department

Project Buyer Contact Information:

Yvette Salinas, Buyer III
(956) 292-7000 Ext. 4874
yvette.salinas@co.hidalgo.tx.us

Form HCPD-03

1. Sealed bids will be received for the construction of: **"HIDALGO COUNTY SHERIFF'S OFFICE–"Hidalgo County Adult Detention Center and Law Enforcement Facility Repairs and/or Replacement"** in accordance with the specifications attached as Exhibit "A" hereto. Bids should address all specifications set forth. Bidders may suggest substitutions of features which they feel would be in the best interest of Hidalgo County ("County"). Strong rationale must be presented for any deviation from the specifications. Hidalgo County reserves the right to reject the deviation and its effect on the overall bid.

2. One (1) original and three (3) copies of all bids are required with the bidders name and return address clearly typed/printed on upper left hand corner and the proper notation clearly typed/printed on the lower left hand corner of the envelope and/or package: **"BID-2013-133A-12-11-YSS-HIDALGO COUNTY SHERIFF'S OFFICE– Hidalgo County Adult Detention Center and Law Enforcement Facility Repairs and/or Replacement"** and in County's Purchasing Department, physical address: 2802 S. Business Hwy 281, mailing address 2812 S. Business 281 New Administration Building,, Edinburg, Texas, **on or before 3:00, December 11, 2013.**

   NO FACSIMILES OR LATE ARRIVALS WILL BE ACCEPTED. ANY RFB RECEIVED AFTER THAT TIME WILL NOT BE OPENED AND WILL BE RETURNED. OVERNIGHT MAIL MUST ALSO BE PROPERLY LABELED ON THE OUTSIDE OF EXPRESS ENVELOPE OR PACKAGE WITH REFERENCE TO "REQUEST FOR BIDS-2013-133A-12-11-YSS-HIDALGO COUNTY SHERIFF'S OFFICE– Hidalgo County Adult Detention Center and Law Enforcement Facility Repairs and/or Replacement".

   WRITTEN QUESTIONS WILL BE ACCEPTED. Written RFI's shall be sent to the office of project architect/engineer: Chanin Engineering LLC, to the attention of Miguel Chanin, P.E. at Miguel@chaninengineering.com, Please call 956-687-9421 to confirm receipt of RFI. RFI's will not be answered by phone. NO HAND WRITTEN RFI'S will be answered. All inquiries shall be forwarded by 5:00 pm local time on December 04, 2013. Inquiries beyond this date will not be responded. Contact project architect for copies of Addenda. All bidders who paid a deposit will be required to return Addenda as part of the Construction Documents in order to receive full deposit refund.

   Hidalgo County reserves the right to refuse and reject any/all RFB and to waive any/all formalities or technicalities, or to accept the RFB considered the best and most advantageous to Hidalgo County

3. Hidalgo County reserves the right to: A. separate and accept, or eliminate any item(s) listed under this bid that it deems necessary to accommodate budgetary and/or operational requirements; B. reject any or all bids submitted and further reserves the right to design the evaluation criteria to be used in selecting the lowest and best bid for approval; and C. award the bid to one bidder or to multiple bidders if the County determines it is in its best interest to do so."

4. The Bidder shall not substitute items named in the bid without the express written

consent of Hidalgo County. Failure of the delivered item(s) to perform as specified, or failure to meet the stated delivery schedule shall release Hidalgo County from all obligations to the contracting party with regard to the item(s) in question. In such event, County may elect to award the contract to the next-lowest responsible bidder, or to reject all bids and re-advertise.

5. For work to be performed at a County owned or operated location, each bidder shall, in its sole discretion, visit the job site before preparing the bid and thoroughly familiarize himself/herself with existing conditions. Bidder should take field dimensions and note all circumstances which affect the dollar amount of the bid.

6. Descriptive specifications are referenced in this document to indicate the general kind and quality of equipment desired by Hidalgo County. Due to various styles and models of equipment, bidders are required to include illustrations, specifications, explanation of warranties, and service data with their bid including catalogue numbers and any necessary references.

7. No bid may be withdrawn within thirty (30) days from the scheduled time to open bids.

8. Proposed prices are to remain firm for a minimum of ninety (90) days after bid opening.

9. Any interpretations, amendments, corrections or changes to this bid document must be in a written addendum and signed by the County Judge or his designee. Addenda will be mailed to all who are known to have received a copy of the Request for Bids. Bidders shall acknowledge receipt of all addenda as a part of their bid.

10. County reserves the right to accept or reject any or all bids.

11. Costs are to be net F.O.B., County Prepaid.

12. County is exempt from Federal Excise Tax, State Tax and Local Tax. Do Not include tax in cost figure. If it is determined that tax was included in the cost figures it will not be included in the tabulation of any awards. Tax exemption certificates will be furnished upon request.

13. Funds for this procurement have been provided through the County budget for this fiscal year only. County, on an annual basis, has the right to reconsider a contract during the budget process for ensuing years if financial resources of County are insufficient to meet the liabilities of said contract. The award of a bid or contract hereunder will not be construed to create a debt of the County which is payable out of funds beyond the current fiscal year.

14. Upon award and prior to execution of a contract, Sole Proprietorships are required to submit a copy of their social security cards to the Hidalgo County Auditor's Office in order to establish an account with the County. All awarded vendors must submit a completed W-9 and a copy o their Federal ID Number Certificate.

15. DELIVERY INSTRUCTIONS:

- No deliveries accepted after 3:00 P.M., Monday-Friday.
- At least seventy two (72) hours prior notice of delivery must be given to Martha

L. Salazar, Purchasing Agent before delivery will be accepted.

. If you need additional information call the office listed below:

Hidalgo County Purchasing Department
Martha L. Salazar, Purchasing Agent
(956) 318-2626

16. BILLING AND PAYMENT INSTRUCTIONS:

. Invoices must include:

a) Name and address of successful bidder
b) Name and address of receiving department or official
c) Purchase Order Number (if any)
d) Notation – **"BID-2013-133A-12-11-YSS-HIDALGO COUNTY SHERIFF'S OFFICE– Hidalgo County Adult Detention Center and Law Enforcement Facility Repairs and/or Replacement"** Descriptive information as to the items or services delivered, including product code, item number, quantity, etc.

. Discount payments will be considered when offered.

. Contact person for Billing and Payment questions:

Ray Eufracio, CPA, Hidalgo County Auditor
2802 S. Business Hwy 281
Edinburg, TX 78539
(956) 318-2511

17. Schedule

Pre-Bid Conference,	**1:00 PM**	**December 02, 2013**
Bid Opening,	**3:00 PM**	**December 11, 2013**
Award of Contract		_____, 20XX
Commence Work or Deliver Products		_____, 20XX

HIDALGO COUNTY APPROVED HOLIDAYS

2013 YEAR	
New Year's Day	12/31/12 and 01/01/13
Martin Luther King Day	01/21/13
President's Day	02/18/13
Good Friday	03/29/13
Easter	04/01/13
Memorial Day	05/27/13
Independence Day	07/04/13
Labor Day	09/02/13
Columbus Day	10/07/13
Veteran's Day	11/11/13
Thanks Giving Day	11/28/13 and 11/29/13
Christmas Day	12/24/13 and 12/25/13

18. Bid or Performance Bond and Debarment Certification; Payment Under Contract:

. If the contract proposed is for the construction of public works or is for a contract for goods & services exceeding $100,000, all bidders shall furnish a good and sufficient bid bond in the amount of five percent of the total contract price. A bid bond must be executed with a surety company authorized to do business in Texas. All bidders are also required to furnish a certification or acknowledgment stating that the contractor or vendor is free from suspension or debarment pursuant to federal regulation 45CFR Part 76.

. Together with the signing of a contract or issuance of a purchase order following the acceptance of a bid, and prior to commencement of the actual work, the bidder shall furnish a performance bond to the County for the full amount of the contract, if that contract exceeds $100,000.

. If the contract is for $50,000 or less, no money will be paid to the contractor until completion and acceptance of the work or the fulfillment of the purchase obligation to the County, and, if applicable, the receipt by County of satisfactory evidence that all subcontractors and material men have been paid.

. If a contract is for the construction, alteration or repair of public buildings or public works, the contractor *shall* provide a payment bond for a contract in excess of Twenty Five Thousand Dollars ($25,000.00), as required by Tex. Govt. Code Ch. 2253.

. For requirements contracts, bond requirements are determined by applying the proposed unit price to the estimated quantities included in the specifications.

19. Ethical Standards:

. It shall be a breach of ethics to offer, give or agree to give any elected official, department head or employee, or former elected official, department head or employee, of the County, or for any elected official, department head or employee or former elected official, department head or employee of the County, to solicit, demand, accept or agree to accept from another person, entity or organization, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, preparation or any part of a program requirement or purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter pertaining to any program requirement or a contract or subcontract, or to any solicitation or proposal therefore pending before any department or agency of the County.

. It shall be a breach of ethics for any payment, gratuity or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor for any contract for the County, or any person associated therewith, as an inducement for the award of a subcontract or order.

. No public official shall have an interest in a contract awarded hereunder except in accordance with Tex. Loc. Govt. Code Chapter 171.

- NOTICE:

ALL COMMUNICATIONS BY A VENDOR TO THE COUNTY, ITS OFFICIALS, AND DEPARTMENT HEADS REGARDING THIS PROCUREMENT SHALL BE DONE THROUGH THE HIDALGO COUNTY PURCHASING DEPARTMENT.

No vendor, its representative, agent, or employee shall engage in private communication with a member of the Hidalgo County Commissioners Court or county department heads regarding any procurement of goods or services by the County from the date that the Bid, RFP, or RFQ is released. No private communication regarding the purchase shall be permitted until the procurement process is complete and a purchase order is granted or a contract is entered into. Members of the commissioners court are required to make a reasonable effort to inform themselves regarding potential procurements and have a duty to inquire of vendors, their representatives or employees, the nature of any private communication being sought prior to engaging in any communication. "Private Communication" means communication with any vendor outside of a posted meeting of the governing body, a regular meeting of a standing or appointed committee, or a negotiation with a vendor which has been specifically authorized by the governing body.

20. Disclosure of Conflict of Interest

. Effective January 1, 2006, Chapter 176 of the Texas Local Government Code requires that any vendor, person, consultant or contractor considering doing business with Hidalgo County ("the County") to disclose in the Conflict of Interest Questionnaire (the "CIQ") attached as Exhibit D, the vendor, person, consultant or contractor's affiliation or business relationship that might cause a conflict of interest with the County. By law, the CIQ must be filed with the Hidalgo County Clerk's Office no later than the seventh business day after the date the person becomes aware of facts that require that statement to be filed. The disclosure requirement applies to a person or business who contracts or seeks to contract with Hidalgo County for the sale or purchase of property, goods or service. Any purchase order or contract resulting from this process shall be considered null and void if the successful bidder fails to comply with Texas Local Government Code Chapter 176. Vendors, consultants, contractors and others who desire to conduct business with Hidalgo County are encouraged to refer to Texas Local Government Code Chapter 176 for the details of this law. An offense under Texas Local Government Code Chapter 176 is a Class C Misdemeanor.

Please Submit completed CIQ forms to the Hidalgo County Clerk's Office located at 100 N. Closner, Edinburg, Texas 78539-Hidalgo County Courthouse
COMPLETION AND SUBMISSION OF FORM CIQ IS THE SOLE RESPONSIBILITY OF THE PROSPECTIVE BIDDER.

21. If, during the life of any contract or bid awarded, the successful bidder's net prices generally available to other customers for items awarded herein are reduced below the contracted price, it is understood and agreed that the benefits of such reduction shall be extended to County.

22. Bids, and all goods and services provided thereunder, shall comply with all federal, state and local laws concerning this type(s) of goods and/or services

23. Minimum Standards For Responsible Prospective Bidders: A prospective bidder must affirmatively demonstrate bidder's responsibility. A prospective bidder, by submitting a bid, represents to County that it meets the following requirements:

- **Possess and submit a Certificate of Account Status indicating bidder is in "Good Standing" with the Texas Comptroller of Public Accounts if such bidder is incorporated in the State of Texas. If the bidder is not incorporated with the Texas, the bidder must submit the appropriate evidence of filing with the Texas Secretary of State stating that the business is authorized to transact business in Texas.**
- Possess or is able to obtain adequate financial resources as required to perform under the bid;
- Be able to comply with the required or proposed delivery schedule;
- Have a satisfactory record of performance;
- Have a satisfactory record of integrity and ethics;
- Be otherwise qualified and eligible to receive an award.

24. Successful bidder will pay or cause to be paid, without cost or expenses to County, all FICA, FUTA/SUTA and Federal Income Withholding Taxes of all employees, and all wages and benefits as required by Federal or State law. Successful bidder's officers, agents and/or employees will not be entitled to any benefits of an employee or elected official of County, including, but not limited to, benefits associated with County's civil service system.

25. Any contract award to a successful bidder will be in effect until (a) the contract expires, (b) delivery and acceptance of products, and/or performance of services ordered, or (c) terminated by County with thirty day's written notice prior to cancellation.

26. County reserves the right to enforce performance of any contract awarded hereunder in any manner prescribed by law or deemed to be in the best interest of the County in the event of breach or default by successful bidder; County reserves the right to terminate any contract immediately in the event a successful bidder fails to:

A. Meet schedules;
B. Pay any required fees or taxes; or
C. Otherwise perform in accordance with the specifications.

27. Successful bidder shall defend, indemnify and save harmless County and all its elected officials, officers, agents and employees from all suits, actions, or other claims of any character, name and description brought for or on account of any injuries or damages received or sustained by any person, persons, or property on account of any negligent act or fault of the successful bidder, or of any agent, employee, subcontractor or supplier of successful bidder in the execution of, or performance under, any contract which may result from bid award or which arises from any event or casualty happening on or within County premises themselves or happening upon or in any halls, elevators, entrances, stairways or approaches of or to such County facilities. Successful bidder shall pay any judgment with costs which may be obtained against County growing out of such injury or

damages, and shall, upon request, provide a defense to County by counsel reasonably acceptable to County. Successful bidder's indemnity hereunder shall include, but is not limited to, claims relating to patent, copyright or trademark infringement, and the like, arising out of the goods and services provided by successful bidder.

28. Successful bidder shall warrant that all items/services shall conform with the specifications and/or all warranties provided under the Uniform Commercial Code and be free from all defects in material, workmanship and the like. Items supplied under a contract pursuant to this Request for Bids shall be subject to County's approval. Items found to be defective or not meeting specifications shall be replaced by successful bidder within two business days at no expense to County. Items not picked up within one (1) week after notification shall be deemed a donation to County and may be used or disposed of at County's discretion and without waiver of any other rights of County as to the item's nonconformity.

29. ***Vendors hereby assigns to purchaser any and all claims for overcharges associated with this contract which arise under the antitrust laws of the United States, 15 USCA, Section 1 et. seq., and which arise under the antitrust laws of the State of Texas, Bus. & Com. Code, Section 15.01, et. seq.***

30. This document and any disputes arising hereunder shall be governed and construed according to the laws of the State of Texas, and will be performable exclusively in Hidalgo County, Texas.

31. The successful bidder shall not assign, sell, transfer or convey its rights under any awarded contract, in whole or in part, without the prior written consent of County.

32. Statement of Credentials:

In order to assist the Owner in determining the ability of each Bidder to properly fulfill the requirements of this proposed contract, the Bidder will complete the "STATEMENT OF CREDENTIALS." All questions must be answered and the data given must be clear and comprehensive. **The statement must be notarized.** If necessary, questions may be answered on separate attached sheets. The Bidder may submit any additional information he/she desires.

It must include the following: general bidder information, experience, contracts on hand, and subcontractor(s) information.

In addition, except as otherwise provided, the **general contractor/**bidder shall perform no **more** than eighty percent **(80%)** of the work with his own organization, and **no less than** twenty percent **(20%)** of the work may be subcontracted.

The organization of the specifications into divisions, sections, articles, etc., and the arrangement and titles of project drawings shall not control the Bidder in dividing the work among subcontractors or in establishing the extent of work to be performed by any trade.

Awarded bidder shall assign a project superintendent who is directly employed by the Bidder, that superintendent will be required to be on the job on a daily basis. No subcontractors will be allowed to act as project superintendents at any point during the construction of said project.

Bidder shall have a significant business presence with the Rio Grande Valley Area, the

business must be headquartered in either Hidalgo, Cameron, or Starr County or a local office must be located in either of the three counties (Hidalgo, Cameron, Starr) with at least thirty percent (30%) of the total company workforce employed at the local office. County reserves the right to request payrolls and any necessary documentation to confirm that the local office meets these requirements.

Bidders shall carefully examine the plans, specifications and other documents, visit the site of the work, and fully inform themselves as to all conditions and matters which can affect the work or cost thereof. Should the bidder find discrepancies in, or omissions from the plans, specifications or other documents, or should he/she be in doubt as their meaning, he/she should at once notify the **Architect/Engineer** and obtain clarification by addendum prior to submitting any bid.

Bidder herby certifies that said company carried liability coverage and workers compensation insurance coverage that meets the requirements set forth in this Request for Bids/Proposals when performing work on this project for Hidalgo County.

Furthermore, bidder certifies that any subcontractor on the project shall provide the said company with a certificate relating that all employees of the subcontractor also are provided with workers' compensation insurance coverage. Bidder will provide copies of all of these certificates to Hidalgo County during the course of the project for all subcontractors working on the project.

When applicable, all **contractors and** subcontractors must comply with federally determined prevailing Davis-Bacon and Related Acts wage rate.

Hidalgo County encourages the hiring of minority women subcontractors and/or suppliers whenever and wherever feasible.

BIDDERS ACKNOWLEDGEMENT
Bid for

HIDALGO COUNTY SHERIFF'S OFFICE

"Hidalgo County Adult Detention Center and Law Enforcement Facility Repairs and/or Replacement"
BID-2013-133A-12-11-YSS

To: Martha L. Salazar, CPPB, Purchasing Agent
Hidalgo County Purchasing Department
2802 S. Bus. Hwy. 281
Edinburg, Texas 78539

In accordance with the Specifications, and subject to all laws and regulations of the United States and state and local laws, the undersigned bidder proposes and commits to furnish all labor, equipment, material, software and services as set forth in the documents hereinbefore mentioned. The undersigned bidder further agrees, upon acceptance of its bid, to execute a contract and/or Purchase Order issued by Hidalgo County for performing and completing the work described in the Specifications within the time stated and for the prices proposed in the documents attached hereto and made a part hereof.

Bidder acknowledges receipt of all of the pages of the documents referenced in the Invitation to Bid Checklist presented in connection with this procurement. Bidder understands that Hidalgo County reserves the right to reject any or all bids and further reserves the right to design the evaluation criteria to be used in selecting the lowest and best bid.

Bidder agrees that this bid shall be good and may not be withdrawn for a period of ninety (90) calendar days after the scheduled closing time for receiving bids, as contained in the Specifications.

Respectfully submitted,

Bidder: _____

Address: _____

By: _____

Printed Name: _____

Title: _____

(This page must be submitted in response)

STATEMENT OF CREDENTIALS

for Facility Construction and Related Projects
(none-road improvements)

1. GENERAL: In order to assist the Owner in determining the ability of each Bidder to properly fulfill the requirements of this proposed contract, the Bidder will complete the following items. **All questions must be answered** and the data given must be clear and comprehensive. **This statement must be notarized.** If necessary, questions may be answered on separate attached sheets. The Bidder may submit any additional information he/she desires.

Name of Bidder: _____

Address: _____

_____

Date Organized: _____ Date Incorporated: _____

Office Number: _____ Fax Number: _____

Number of years in business under present name: _____

Type of work performed by your company: _____

_____

Have you ever failed to complete any work awarded to you? _____

Have you ever defaulted on a contract? _____

2. EXPERIENCE: The Bidder will give below a list of similar projects which he/she has completed within the last five (5) years.

1. Owner: _____

Address: _____

Ph/Fx Number: _____ Email: _____

Scope of Work Description: _____

Date Completed: _____Total Cost: _____

****

2. Owner: _____

Address: _____

Ph/Fx Number: _____ Email: _____

Scope of Work Description: _____

Date Completed: _____Total Cost: _____

****

3. Owner: _____

Address: _____

Ph/Fx Number: _____ Email: _____

Scope of Work Description: _____

Date Completed: _____Total Cost: _____

****

4. Owner: _____

Address: _____

Ph/Fx Number: _____ Email: _____

Scope of Work Description: _____

Date Completed: _____Total Cost: _____

****

5. Owner: _____

Address: _____

Ph/Fx Number: _____ Email: _____

Scope of Work Description: _____

Date Completed: _____Total Cost: _____

****

3. **CONTRACTS ON HAND:** The Bidder shall provide below a list of any contracts/projects he/she currently has on hand:

4. **SUBCONTRACTORS:** List any subcontractors you propose to use on the Hidalgo County's project. Use additional page if necessary. This information is considered preliminary and may be revised prior if bid is awarded and re-submitted during the pre-construction phase. However, it is expressly understood that the use of any subcontractor other than those listed with bid shall require written approval from Hidalgo County.

   Failure to submit the information as required may result in a disqualification of your bid.

5. **PERFORMANCE OF WORK BY BIDDER:** Except as otherwise provided, the **general contractor/**bidder shall perform no **more** than eighty percent **(80%)** of the work with his own organization, and **no less than** twenty percent **(20%)** of the work may be subcontracted.

   The organization of the specifications into divisions, sections, articles, etc., and the arrangement and titles of project drawings shall not control the Bidder in dividing the work among subcontractors or in establishing the extent of work to be performed by any trade.

   Awarded bidder shall assign a project superintendent who is directly employed by the Bidder, that superintendent will be required to be on the job on a daily basis. No subcontractors will be allowed to act as project superintendents at any point during the construction of said project.

   Bidder shall have a significant business presence with the Rio Grande Valley Area, the business must be headquartered in either Hidalgo, Cameron, or Starr County or a local office must be located in either of the three counties (Hidalgo, Cameron, Starr) with at least thirty percent (30%) of the total company workforce employed at the local office. County reserves the right to request payrolls and any necessary documentation to confirm that the local office meets these requirements.

   Bidders shall carefully examine the plans, specifications and other documents, visit the site of the work, and fully inform themselves as to all conditions and matters which can affect the work or cost thereof. Should the bidder find discrepancies in, or omissions from the plans, specifications or other documents, or should he/she be in doubt as their meaning, he/she should at once notify the Engineer and obtain clarification by addendum prior to submitting any bid.

   Bidder herby certifies that said company carried liability coverage and workers compensation insurance coverage that meets the requirements set forth in this Request for Bids/Proposals when performing work on this project for Hidalgo County.

   Furthermore, bidder certifies that any subcontractor on the project shall provide the said company with a certificate relating that all employees of the subcontractor also are provided with workers' compensation insurance coverage. Bidder will provide copies of all of these certificates to Hidalgo County during the course of the project for all subcontractors working on the project.

   All subcontractors must comply with federally determined prevailing Davis-Bacon and Related Acts wage rate.

   Hidalgo County encourages the hiring of minority women subcontractors and/or suppliers whenever and wherever feasible.

The undersigned hereby authorizes and requests any person, firm, or corporation to furnish any information requested by the owner in verification of the recitals comprising this Statement of Credentials.

Executed this _____ day of _____, 20_____.

_____

By_____

Title_____

Subscribed and sworn to me this ____ day of _____, 20___.

By:_____

Notary Public in and for _____County, Texas

My commission expires _____

EXHIBIT "C"

Insurance Requirements
Applicable to the Acquisition of Goods and /or Services (other than Professional Services)

The Bidder awarded the contract shall furnish proof of insurance, which will also include any subcontractor that is subcontracted by the bidder in at least the following limits, to be in place prior to providing any services under this Contract and to continue at all times in force in effect during the term of this Contract:

1. A Five Hundred Thousand Dollar ($500,000.00) Comprehensive General Liability insurance policy providing additional coverage to all underlying liabilities of County.

2. Automobile liability insurance policy with limits of at least Three Hundred Thousand Dollars ($300,000.00) per person and Five Hundred Thousand Dollars ($500,000.00) per occurrence. Coverage should include injury to or death of persons and property damage claims with limits up to Five Hundred Thousand ($500,000.00) arising out of the services provided to County hereunder.

3. Uninsured/Underinsured motorist coverage in an amount equal to the bodily injury limits set forth immediately above;

4. Workers compensation insurance in amounts established by Texas law, unless the Bidder is specifically exempted from the Texas Workers Compensation Act, Texas Labor Code Chapter 401, et. seq.

Hidalgo County will only accept certificates of insurance on an Acord form (as attached hereto). Certificates of insurance naming County as an additional insured shall be submitted to County for approval prior to any services being performed by Contractor. Each policy of insurance required hereunder shall extend for a period equivalent to, or longer than the term of the Contract, and any insurer hereunder shall be required to give at least thirty (30) days written notice to the County prior to the cancellation of any such coverage on the termination date, or otherwise. This Contract shall be automatically suspended upon the cancellation, or other termination, of any required policy of insurance hereunder, and such suspension shall continue until evidence adequate replacement coverage is provided to County. If replacement coverage is not provided within thirty (30) days following suspension of the Contract, this Contract shall automatically terminate.

ACORD

CERTIFICATE OF INSURANCE

DATE (MM/DD/YY)

PRODUCER

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURERS AFFORDING COVERAGE

INSURED

INSURER A:

INSURER B:

INSURER C:

INSURER D:

INSURER E:

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THER TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	**GENERAL LIABILITY** ☐ COMMERCIAL GENERAL LIABILITY ☐ ☐ CLAIMS MADE OCCUR ☐ OWNER'S & CONT. PROT ☐ OWNER'S PROTECTIVE LIABILITY GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY PROJECT ☐ LOC				EACH OCCURRENCE	$
					FIRE DAMAGE (Any one fire)	$
					MED (Any one person)	$
					PERS & ADV INJURY	$
					AL AGGREGATE	$
					ODUCTS – COMP/OP GG	$
B	**AUTOMOBILE LIABILITY** ☐ ANY AUTO ☐ ALL OWNED AUTOS ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ☐ NON-OWNED AUTOS				COMBINED SINGLE LIMIT (Ea accident)	$
					BODILY INJURY (Per person)	$
					BODILY INJURY (Per accident)	$
					PROPERTY DAMAGE (Per accident)	$
	GARAGE LIABILITY ☐ ANY AUTO				AUTO ONLY-EA ACCIDENT	$
					OTHER THAN AUTO ONLY EA ACC	$
					AGG	$
C	**EXCESS LIABILITY** ☐ OCCUR ☐ CLAIMS MADE ☐ DEDUCTIBLE ☐ RETENTION $				EACH OCCURENCE	$
					AGGREGATE	$
						$
						$
						$
D	**WORKERS COMPENSATION AND EMPLOYER'S LIABILIT**				WC STATU-TORY LIMITS ☐ OTHER	
					E.L. EACH ACCIDENT	$
					E.L. DISEASE-EA EMPLOYEE	$
					E.L. DISEASE-POLICY LIMIT	$
	OTHER					

SAMPLE

DESCRIPTION OF OPERATIONS / LOCATION / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

County of Hidalgo shall be named as additional insured on all Commercial General Liability policies.

CERTIFICATE HOLDER

Hidalgo County
Attn: Purchasing Department
2812 S Highway Bus. 281
Edinburg, Texas 78539

ADDITIONAL INSURED; INSURER LETTER: _____

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BY CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL ***30*** DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Insurance Requirement Acknowledgment

I, _____, authorized representative for _____,
Company/Vendor

hereby acknowledge receipt of the County's required insurance limits. Said requirements:

❒ will be acquired within 10 working days after notification from Purchasing Department of bid awarded by the Hidalgo County Commissioners' Court;

❒ will acquire additional amounts required to meet the County's requirements within 10 working days after notification from Purchasing Department of bid award by the Hidalgo County Commissioners' Court; currently carry the following:

Automobile Liability: $_____ General Liability: $_____

❒ have already been met, see attached copy of insurance certificate.

_____ _____.
Authorized Representative Date

Notice to Bidder:
A certificate of insurance for the required insurance limits shall be provided to the Purchasing Department's Contract Managers in order to qualify for award of bid and to execute a contract between your Company and the County

Failure to provide Certificates of Insurance to the Purchasing Department's Contract Managers will cause the bid award to be rescinded and re-awarded to next lowest bidder. Certificates of Insurance will be monitored and verified on a **quarterly basis** to ensure coverage policy is in place. It is the Company's obligation to maintain the appropriate insurance coverage throughout the term of the contract.

THIS FORM MUST ACCOMPANY BID PACKET

PROJECT REQUIREMENTS ACKNOWLEDGMENT

This is to certify that I, _____, possess all of the APPLICABLE:

1. Licenses: _____.
2. Bonds: _____.
3. Certificates: _____.
4. Permits: _____.
5. Other: _____.

necessary to carry out the required project. Furthermore, I am providing copies of the required documentation so that, if my company is awarded this bid, I may be eligible to enter into a contract with Hidalgo County and proceed to complete the project in a timely manner.

* Any licenses, bonds, certificates, permits, etc. which are required must be presented as part of the bid packet in order to expedite the bid evaluation process. Failure to provide said documentation will result in the disqualification of your bid.

_____ _____.
Authorized Signature Date

_____.
Company

_____.
Address

_____.
City, State, Zip

EXHIBIT "D"

CONFLICT OF INTEREST QUESTIONNAIRE — FORM CIQ

For vendor or other person doing business with local governmental entity

This questionnaire reflects changes made to the law by H.B. 1491, 80th Leg., Regular Session.

This questionnaire is being filed in accordance with Chapter 176, Local Government Code by a person who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the person meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the person becomes aware of facts that require the statement to be filed. *See* Section 176.006, Local Government Code.

A person commits an offense if the person knowingly violates Section 176.006, Local Government Code. An offense under this section is a Class C misdemeanor.

OFFICE USE ONLY
Date Received

1 **Name of person who has a business relationship with local governmental entity.**

2 ☐ **Check this box if you are filing an update to a previously filed questionnaire.**

(The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date the originally filed questionnaire becomes incomplete or inaccurate.)

3 **Name of local government officer with whom filer has employment or business relationship.**

_____
Name of Officer

This section (item 3 including subparts A, B, C & D) must be completed for each officer with whom the filer has an employment or other business relationship as defined by Section 176.001(1-a), Local Government Code. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer named in this section receiving or likely to receive taxable income, other than investment income, from the filer of the questionnaire?

☐ Yes ☐ No

B. Is the filer of the questionnaire receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer named in this section AND the taxable income is not received from the local governmental entity?

☐ Yes ☐ No

C. Is the filer of this questionnaire employed by a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership of 10 percent or more?

☐ Yes ☐ No

D. Describe each employment or business relationship with the local government officer named in this section.

4

_____ _____
Signature of person doing business with the governmental entity Date

Adopted 06/29/2007

PROPOSER'S AFFIDAVIT
Exhibit "E"

PROPOSER'S AFFIDAVIT OF NON-COLLUSION
NON-CONFILICT OF INTERST, AND ANTI-LOBBYING

STATE OF TEXAS
COUNTY OF HIDALGO

Affiant, _____, being first duly sworn, deposes that:

(1) Affiant does hereby state neither the Proposer nor any of the Proposer's officers, partners, owners, agents, representatives, employees, or parties in interest, has in any way colluded, conspired, agreed, directly or indirectly with any person, firm, corporation, or other proposer, or potential proposer, to provide any money or other valuable consideration for assistance in procuring or attempting to procure a contract or fix the prices in the attached proposed or the proposal of any other proposer, and further states that no such money or other reward will be hereinafter paid.

(2) Affiant further states they have neither recommended or suggested to Hidalgo County or any of its officials or employees, any of the terms or provisions set forth in their Request for Proposal and subsequent agreement, except at a meeting open to all interested proposers, of which proper notice was given.

(3) Affiant, further states their officers, employees, or agents have not, and will not attempt to lobby, directly or indirectly, the Hidalgo County Commissioner's Court between proposal submission date and award by the Hidalgo County Commissioner's Court.

(4) Affiant further states no officer, or stockholder of the Proposer is a member of the staff, or related to any employee of the Hidalgo County except as noted herein below:

Signature/Title: _____

Subscribed and sworn to before me this _____day of _____, 20___.

_____

Notary Public

My commission expires:_____, 20___

Certification
Regarding Debarment, Suspension Ineligibility

As is required by the Federal Regulations Implementing Executive Order 12549, Debarment and Suspension, 45 CFR Part 76, Government-wide Debarment and Suspension, in the applicant certifies, to the best of his or her knowledge and belief, that both it and its principals:

a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency;

b. Have not within a three-year period preceding this bid/proposal and/or application been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state or local) transaction or contract under a public transaction, violation of federal or state antitrust statutes or commission of embezzlement, theft, theory, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

c. Are not presently indicted for or otherwise criminally or civilly charged by a government entity with commission of any of the offenses enumerated herein; and

d. Have not within a three-year period preceding this bid/proposal and/or application had one or more public transactions terminated of cause or default.

Signature:_____

Print Name:_____

Title:_____

Telephone Number:_____

Date:_____

If the proposer is unable to certify to all of the statements in this Certification, such proposer should attach an explanation to this proposal.

HIDALGO COUNTY
PURCHASING DEPARTMENT
Proposer/Vendor Application

Complete in print or type. Please return this application to the Hidalgo County Purchasing Department
thru Facsimile: (956) 318-2629 or (956) 292-7612
in person or regular mail to:
Mailing/Postal Address: 2812 S. Business Hwy. 281
Physical Address: 2802 S. Business Hwy. 281
Edinburg, Texas 78539
or e-mail: purchasing@co.hidalgo.tx.us

Company Name: **Telephone No. ( )**

dba Name:

Legal Name:

Mailing Address: **Fax No. ( )**

Physical Address:

City, State, Zip **Tax I.D. No.**

Remit to Address : **City, State, Zip**

E-Mail Address:

Representative(s) Name(s) & Title(s)

Type of Organization (check one): _____ Individual _____ Partnership _____ Corporation _____Non-Profit
_____ LLC _____ Sole Proprietor _____ Other, Specify
State Identification No._____ (Please attached completed W-9 form with this application)
Federal Identification No. or (if individual) SS No.

State of Incorporation: _____ Date:_____ Other:

Type of Business (check one): _____ Manufacturer _____ Wholesaler _____ Retailer _____ Broker
_____ Distributor _____ Service Organization _____ Other, Specify

Name & Title of Person(s) Authorized to Sign Bids, Proposals, and/or Contracts:

Small and/or Disadvantaged Business Information (check application criteria)

Small Business:	**Disadvantaged Business (At Least 51% Ownership)**	
☐ Less than 125,000 annual gross receipt	☐ Black American	☐ Native American
☐ Less than 250,000 annual gross receipt	☐ Hispanic American	☐ Women
☐ Less than 499,000 annual gross receipt	☐ Asian Pacific American	☐ Other
☐ More than 500,000 annual gross receipt		

Have you been certified as a HUB or an MBE/WBE source?: ☐ Yes ☐ No

Indicate Certification No.(s):_____ or are Certificate(s) attached?: ☐ Yes ☐ No

What type of product(s) is/are solicited by your company?:

Would you like to be provided with specifications for procurements of such products?: ☐ Yes ☐ No

To Be Completed by the County: Rec'd by (Purchasing):_____ Date Rec'd by (Purchasing):

Date Forwarded Information to Auditor's Office:_____Entry Date: _____ Vendor No.:

(THIS PAGE MUST BE SUBMITTED WITH PROPOSAL)

HISTORICALLY UNDERUTILIZED BUSINESS (HUB) DECLARATION

The primary objective of the Hidalgo County HUB Program is to ensure Historically Underutilized Businesses receive a fair and equal opportunity for participation in the County's procurement process. This fact holds true for Services (Professional & Non-Professional), Commodities, and Construction contracts and any subcontracts thereto. The program strongly encourages Prime Contractors to provide subcontracting opportunities to Certified Hub Contractors/Vendors. Our goal for HUB contractor/vendor participation, as well as HUB subcontractor participation is 30%. To be considered as a "Certified HUB Contractor/Vendor" the contractor/vendor must have been certified by, and hold a current and valid certification with any of the three agencies listed below.

Have you been Certified as a HUB or an MBE/WBE source?: □Yes □ No

If yes, by whom?: □ Texas Building & Procurement Commission □ Other_____

Indicate Certification No(s).:_____ or Are Certificate(s) Attached?: □ Yes □ No

LIST OF CERTIFIED HUB SUBCONTRACTORS

(Attach additional pages if necessary)

What percentage of the Bid, RFP, or RFQ is to be subcontracted with Certified HUB sources?: _____%
(List HUB Subcontractor information below).

HUB Subcontractor Name: _____ HUB Status:
Certifying Agency (Check all applicable): □Texas Building & Procurement Commission □other
Address: _____ City: _____ State: _____ Zip:
Contact Person: _____ Title: _____ Phone No.: ( )
Subcontract Amount: $_____ Description of Work to be Performed:

HUB Subcontractor Name: _____ HUB Status:
Certifying Agency (Check all applicable): □Texas Building & Procurement Commission □other
Address: _____ City: _____ State: _____ Zip:
Contact Person: _____ Title: _____ Phone No.: ( )
Subcontract Amount: $_____ Description of Work to be Performed:

HUB Subcontractor Name: _____ HUB Status:
Certifying Agency (Check all applicable): □Texas Building & Procurement Commission □other
Address: _____ City: _____ State: _____ Zip:
Contact Person: _____ Title: _____ Phone No.: ( )
Subcontract Amount: $_____ Description of Work to be Performed:

(THIS PAGE MUST BE SUBMITTED WITH PROPOSAL)

Form **W-9**
(Rev. November 2005)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

Give form to the requester. Do not send to the IRS.

Print or type See Specific Instructions on page 2.

Name (as shown on your income tax return)

Business name, if different from above

Check appropriate box: ☐ Individual/ Sole proprietor ☐ Corporation ☐ Partnership ☐ Other ► ---------- ☐ Exempt from backup withholding

Address (number, street, and apt. or suite no.)

Requester's name and address (optional)

City, state, and ZIP code

List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on Line 1 to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Social security number
			–			–		

or

Employer identification number
			–					

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. person (including a U.S. resident alien).

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. (See the instructions on page 4.)

Sign Here Signature of U.S. person ► Date ►

Purpose of Form

A person who is required to file an information return with the IRS, must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

U.S. person. Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee.

In 3 above, if applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

For federal tax purposes, you are considered a person if you are:

- An individual who is a citizen or resident of the United States,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States, or
- Any estate (other than a foreign estate) or trust. See Regulations sections 301.7701-6(a) and 7(a) for additional information.

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the following cases:

- The U.S. owner of a disregarded entity and not the entity,

- The U.S. grantor or other owner of a grantor trust and not the trust, and
- The U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person, do not use Form W-9. Instead, use the appropriate Form W-8 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the recipient has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity not subject to backup withholding, give the requester the appropriate completed Form W-8.

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 28% of such payments (after December 31, 2002). This is called "backup withholding." Payments that may be subject to backup withholding include interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,
2. You do not certify your TIN when required (see the Part II instructions on page 4 for details),
3. The IRS tells the requester that you furnished an incorrect TIN,
4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or
5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See the instructions below and the separate Instructions for the Requester of Form W-9.

Also see *Special rules regarding partnerships* on page 1.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of $50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a $500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Name

If you are an individual, you must generally enter the name shown on your income tax return. However, if you have changed your last name, for instance, due to marriage without informing the Social Security Administration of the name change, enter your first name, the last name shown on your social security card, and your new last name.

If the account is in joint names, list first, and then circle, the name of the person or entity whose number you entered in Part I of the form.

Sole proprietor. Enter your individual name as shown on your income tax return on the "Name" line. You may enter your business, trade, or "doing business as (DBA)" name on the "Business name" line.

Limited liability company (LLC). If you are a single-member LLC (including a foreign LLC with a domestic owner) that is disregarded as an entity separate from its owner under Treasury regulations section 301.7701-3, enter the owner's name on the "Name" line. Enter the LLC's name on the "Business name" line. Check the appropriate box for your filing status (sole proprietor, corporation, etc.), then check the box for "Other" and enter "LLC" in the space provided.

Other entities. Enter your business name as shown on required federal tax documents on the "Name" line. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on the "Business name" line.

Note. You are requested to check the appropriate box for your status (individual/sole proprietor, corporation, etc.).

Exempt From Backup Withholding

If you are exempt, enter your name as described above and check the appropriate box for your status, then check the "Exempt from backup withholding" box in the line following the business name, sign and date the form.

Generally, individuals (including sole proprietors) are not exempt from backup withholding. Corporations are exempt from backup withholding for certain payments, such as interest and dividends.

Note. If you are exempt from backup withholding, you should still complete this form to avoid possible erroneous backup withholding.

Exempt payees. Backup withholding is not required on any payments made to the following payees:

1. An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2),
2. The United States or any of its agencies or instrumentalities,
3. A state, the District of Columbia, a possession of the United States, or any of their political subdivisions or instrumentalities,
4. A foreign government or any of its political subdivisions, agencies, or instrumentalities, or
5. An international organization or any of its agencies or instrumentalities.

Other payees that may be exempt from backup withholding include:

6. A corporation,
7. A foreign central bank of issue,
8. A dealer in securities or commodities required to register in the United States, the District of Columbia, or a possession of the United States,
9. A futures commission merchant registered with the Commodity Futures Trading Commission,
10. A real estate investment trust,
11. An entity registered at all times during the tax year under the Investment Company Act of 1940,
12. A common trust fund operated by a bank under section 584(a),
13. A financial institution,
14. A middleman known in the investment community as a nominee or custodian, or
15. A trust exempt from tax under section 664 or described in section 4947.

The chart below shows types of payments that may be exempt from backup withholding. The chart applies to the exempt recipients listed above, 1 through 15.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt recipients except for 9
Broker transactions	Exempt recipients 1 through 13. Also, a person registered under the Investment Advisers Act of 1940 who regularly acts as a broker
Barter exchange transactions and patronage dividends	Exempt recipients 1 through 5
Payments over $600 required to be reported and direct sales over $5,000 [1]	Generally, exempt recipients 1 through 7 [2]

[1] See Form 1099-MISC, Miscellaneous Income, and its instructions.

[2] However, the following payments made to a corporation (including gross proceeds paid to an attorney under section 6045(f), even if the attorney is a corporation) and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees; and payments for services paid by a federal executive agency.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-owner LLC that is disregarded as an entity separate from its owner (see *Limited liability company (LLC)* on page 2), enter your SSN (or EIN, if you have one). If the LLC is a corporation, partnership, etc., enter the entity's EIN.

Note. See the chart on page 4 for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local Social Security Administration office or get this form online at *www.socialsecurity.gov*. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at *www.irs.gov/businesses* and clicking on Employer ID Numbers under Related Topics. You can get Forms W-7 and SS-4 from the IRS by visiting *www.irs.gov* or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note. Writing "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: *A disregarded domestic entity that has a foreign owner must use the appropriate Form W-8.*

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if items 1, 4, and 5 below indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). Exempt recipients, see *Exempt From Backup Withholding* on page 2.

Signature requirements. Complete the certification as indicated in 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account [1]
3. Custodian account of a minor (Uniform Gift to Minors Act)	The minor [2]
4. a. The usual revocable savings trust (grantor is also trustee)	The grantor-trustee [1]
b. So-called trust account that is not a legal or valid trust under state law	The actual owner [1]
5. Sole proprietorship or single-owner LLC	The owner [3]
For this type of account:	**Give name and EIN of:**
6. Sole proprietorship or single-owner LLC	The owner [3]
7. A valid trust, estate, or pension trust	Legal entity [4]
8. Corporate or LLC electing corporate status on Form 8832	The corporation
9. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
10. Partnership or multi-member LLC	The partnership
11. A broker or registered nominee	The broker or nominee
12. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity

[1] List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

[2] Circle the minor's name and furnish the minor's SSN.

[3] You must show your individual name and you may also enter your business or "DBA" name on the second name line. You may use either your SSN or EIN (if you have one). If you are a sole proprietor, IRS encourages you to use your SSN.

[4] List first and circle the name of the legal trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules regarding partnerships* on page 1.

Note. If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons who must file information returns with the IRS to report interest, dividends, and certain other income paid to you, mortgage interest you paid, the acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA, or Archer MSA or HSA. The IRS uses the numbers for identification purposes and to help verify the accuracy of your tax return. The IRS may also provide this information to the Department of Justice for civil and criminal litigation, and to cities, states, the District of Columbia, and U.S. possessions to carry out their tax laws. We may also disclose this information to other countries under a tax treaty, to federal and state agencies to enforce federal nontax criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism.

You must provide your TIN whether or not you are required to file a tax return. Payers must generally withhold 28% of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to a payer. Certain penalties may also apply.

HIDALGO COUNTY SHERIFF'S OFFICE

"Hidalgo County Adult Detention Center and Law Enforcement Facility Repairs and/or Replacement"

BID No. 2013-133A-12-11-YSS

SUBMITTAL CHECK LIST

The following list of forms must be included in the RFB response, failure to submit any of these forms may be considered non responsive.

Indicate with a check mark (✓) the Forms completed and included in response:

_____ Page 9 of Legal Notice

_____ Exhibit "C" -Acknowledgement forms (pages 3 and 4)

_____ Exhibit "D" -CIQ Form.

_____ Exhibit "E" –Proposers Affidavit

_____ Certification Regarding Debarment

_____ Vendor Bidder Application and IRS form W-9

_____ STATEMENT OF CREDENTIALS

_____ One (1) original and three (3) copies of complete Response, including any other documentation requested in this RFB not herein listed (i.e. Bid Form, Bid Bond, Sub-Contractors List, references, etc).

Name: _____

Signature: _____ Date: _____

REQUEST FOR BIDS

TO SUPPLY HIDALGO COUNTY with sealed bids for: **2013-133A-12-11-YSS "HIDALGO COUNTY ADULT DETENTION CENTER AND LAW ENFORCEMENT FACILITY REPAIRS AND/OR REPLACEMENT."**

A BIDDER'S BOND from a reliable surety company licensed to operate in the State of Texas or certified Cashier's Check, payable without recourse to the County of Hidalgo, for the amount of not less than **5%** of the total bid shall accompany the bid as guaranty that, if awarded the contract, the bidder will enter into a contract with the County of Hidalgo. Payment and Performance Bonds shall be executed except in the event into a single payment contract with the County of Hidalgo in lieu of a Performance Bond. In the event the total amount bid is $25,000 or less, the successful contract has the option to enter into a single payment contract with the County of Hidalgo in lieu of a Payment and Performance Bond.

Bid Packets may be obtained at the office of the project engineer Miguel Chanin, P.E., ***Chanin Engineering LLC*, 400 Nolana Suite N-2, McAllen, TX 78504 (956) 687-9421** for the amount of **$150.00.** General and/or Prime Contractors submitting bids and/or proposals to the County of Hidalgo shall be refundable.

PRE-BID CONFERENCE is scheduled for Monday, December 02, 2013 at 3:00 P.M. at HIDALGO COUNTY SHERIFF'S OFFICE LAW ENFORCEMENT FACILITY, 711 El Cibolo Road, Edinburg, TX 78541.

UPON SUBMITTING SEALED BID, bidders are required to properly identify (handwritten, typed or printed) sealed envelope and/or packet as follows: Bidders' name and address on the upper left hand corner of the sealed envelope and/or package and Bid **No.:2013-133A-12-11-YSS-"Hidalgo County Adult Detention Center and Law Enforcement Facility Repairs and/or Replacement"** on the lower left hand corner of sealed envelope/and or packet. **OVERNIGHT MAIL MUST ALSO BE PROPERLY LABELED ON THE OUTSIDE OF EXPRESS ENVELOPE OR PACKAGE.**

The sealed bid must contain one (1) original and three (3) copies of bid and must be clearly identified and addressed for delivery to:

Martha L. Salazar, CPPB, Hidalgo County Purchasing Agent
Hidalgo County Purchasing Department

US Postal Mail/Courier Address	Physical Location:
Hidalgo County New Administration Building	Hidalgo County New Administration Building
2812 S. Business Hwy 281	2802 S. Business Hwy. 281
Edinburg, Texas 78539	(Southeast of Canton Rd & Business 281)
	Edinburg, Texas 78539

BIDS ACCEPTANCE: Sealed bids will be accepted until **3:00 p.m. on Wednesday December 11, 2013** at which time they will be opened in the Hidalgo County Purchasing Department Conference Room at **Physical Location: 2802 S. Business Hwy 281, Hidalgo County New Administration Building, Edinburg, Texas 78539.** NO FACSIMILES OR LATE ARRIVALS WILL BE ACCEPTED. ANY BID RECEIVED AFTER THAT TIME WILL NOT BE OPENED AND WILL BE RETURNED.

Attention is called to the fact that not less than, the federally determined prevailing **(Davis-Bacon and Related Acts)** wage rate, as issued and contained in the contract documents, must be paid on this project. In addition the successful bidder must ensure that employees and applicants for employment are not discriminated against because of race, color, religion, sex, age, disability or national origin.

BIDS MAY BE HELD by the County of Hidalgo for a period not to exceed ninety (90) days from the date of the opening of bids for the purpose of reviewing the bids and investigating the qualifications of bidders, prior to awarding of the contract.

THE COUNTY reserves the right to refuse and reject any/all bids and to waive any/all formalities or technicalities, or accept the bids considered the best and most advantageous to the County.

Typed-written bidding RFI's shall be faxed to 956-687-3218 or emailed to Miguel Chanin, P.E. at miguel@chaninengineering.com. Please call 956-687-9421 to confirm receipt of faxed RFI. RFI's **will not be answered by phone**. NO HAND WRITTEN RFI'S will be processed/answered. All inquiries shall be forwarded by December 04, 2013. Inquiries beyond this date will not be responded. Contact project engineer's office for copies of Addenda. All bidders who paid a deposit will be required to return Addenda as part of the Construction Documents in order to receive full deposit refund.

BY ORDER OF THE COMMISSIONERS COURT OF HIDALGO COUNTY, TEXAS on this the 19th day of November, 2013.

MARTHA L. SALAZAR, CPPB
HIDALGO COUNTY PURCHASING AGENT

REPORT ROAD HAZARDS@1-866-HCR-SAFE OR 1-866-427-7233

THE STATE OF TEXAS §
§
COUNTY OF HIDALGO §

CONSTRUCTION CONTRACT
C-13-133A-00-00

This Agreement, entered into this _____day of _____, 2___ by and between Hidalgo County (hereinafter called the "OWNER," and, _____ (a Texas corporation), of County of Hidalgo, and State of Texas, hereinafter called "CONTRACTOR".

WITNESSETH

That for and in consideration of the payments and agreement hereinafter mentioned, to be made and performed by the OWNER, the CONTRACTOR hereby agrees with the OWNER to commence and complete the construction described as follows:

Hidalgo County Adult Detention Center and Law Enforcement Facility Repairs and/or Replacement

Hereinafter called the project, for the sum of _____ Dollars and _____ Cents and all extra work in connection therewith, under the terms and stated in the General and Special Conditions of the Contract; and at his (its or their) own proper cost and expense to furnish all the materials, supplies, machinery, equipment, tools, superintendence, labor, insurance, and other accessories and services necessary to complete the said project in accordance with the conditions and prices stated in the Proposal, the General Conditions and Special Conditions printed or written explanatory matter thereof, the specifications and contract documents therefore as prepared by ___ _____engineer_____, entitled the Architect/Engineer, and as enumerated in Paragraph 1.01.A.12 of the General Conditions, all of which are made a part hereof and collectively evidence and constitute the contract.

The CONTRACTOR hereby agrees to commence work under this contract on or after a date to be specified in written "Notice to Proceed" of the OWNER and to fully complete the project within _____consecutive calendar days thereafter. The CONTRACTOR further agrees to pay, as liquidated damages, the sum of $_____for each consecutive calendar day thereafter.

The OWNER agrees to pay the CONTRACTOR in current funds for the performance of the contract, subject to additions and deductions, as provided in the General Conditions of the contract, and to make payments on account thereof as provided in Paragraphs 14.02.C and 14.07.C of the General Conditions.

DRAFT

IN WITNESS WHREOF, the parties to these present have executed this contract in four (4) counterparts, each of which shall be deemed an original, in year and day first above mentioned.

APPROVED BY COMMISIONERS COURT ON, _____, 2_____.

CONTRACTOR:_____
Print Name & Title: _____
Name of Firm: _____
_____
Address: _____
_____
Fed I.D. #/SS #: _____

STATE OF TEXAS

COUNTY OF HIDALGO

This instrument was acknowledged before me on this the _____day of _____,

2_____, by _____Of and on behalf of _____
(Title) (A corporation)

_____
Notary Public-Signature

APPROVED AS TO FORM:
Atlas & Hall, L.L.P.
800 Pecan
McAllen, Texas 78504

BY: _____

ATTEST:

_____
Arturo Guajardo, Jr., County Clerk

COUNTY OF HIDALGO:

_____
Ramon Garcia, County Judge

DRAFT

BID FORM (Need to insert unit prices and allowance)

PROJECT: **HIDALGO COUNTY SHERIFF'S OFFICE Hidalgo County Adult Detention Center and Law Enforcement Facility Repairs and/or Replacement**
PLACE: Hidalgo County Purchasing Department
Hidalgo County New Administration Building
DATE: December 11, 2013
SUBMISSION TIME: 3:00 p.m.

Pursuant to and in compliance with the Request for Bids and the proposed Contract Documents, prepared by Chanin Engineering, LLC. relating to the above referenced project, the undersigned, having become thoroughly familiar with the terms and conditions of the proposed Contract Documents and with local conditions affecting the performance and costs of the work at the place where the work is to be completed, and having fully inspected the site in all particulars, hereby proposes and agrees to fully perform the work within the time stated and in strict accordance with the proposed Contract Documents, and addenda, thereto, including furnishing of any and all labor and materials for all General Construction and Site Work, for the following sum of money:

A. BID
All labor, materials, services and equipment necessary for completion of the work shown on the drawings and in the specifications. All divisions included, minus alternates.

TOTAL COST DOLLAR ($_____)

1. If awarded this Contract, the undersigned will execute a satisfactory Construction Contract, Performance Bond, Labor and Material Payment Bond and proof of insurance coverage, with the Owner for the entire work as per the Contract Documents within ten (10) days after notice of award. It is agreed that this proposal is subjected to the Owner's acceptance for a period of ninety (90) days from the date of opening.

B. The following are alternates to the Base Proposal: It is understood that if no figure is listed for an Alternate may be accepted and there will be no change in the Base Proposal amount indicated above. Strike out (add) or (deduct) as required for each alternate. Refer Division 1 Section "Alternates" for complete description of the Alternates.

Alternates

1. Remove and Replace existing Quarry Tile in ADC Kitchen.

If the Owner elects to proceed with Alternate Number One, (add) (deduct) the sum of:
$_____

2. Remove and Replace existing Suspended Ceiling and Accessories in ADC Kitchen.

If the Owner elects to proceed with Alternate Number Two, (add) (deduct) the sum of:
$_____

3. Remove and Replace Three Cooler/ Freezer Doors and Components in ADC Kitchen.
If the Owner elects to proceed with Alternate Number Three, (add) (deduct) the sum of:

$_____

4. Remove and Replace Cooler/ Freezer Compressor.

If the Owner elects to proceed with Alternate Number Four, (add) (deduct) the sum of:
$_____

5. Remove and Replace Light Poles on LEC Parking Lot

C. **Unit Price Schedule: Provide Unit Costs for the Following Items**

	Description	Unit Pricing
1.	Fire alarm Devices with rough-in (1 each)	_____
2.	Pull Station with Stopper II (1 each)	_____
3.	Audio Visual Device (1 each)	_____
4.	Visual Device (1 each)	_____
5.	Ceiling Smoke Detector (1 each)	_____
6.	Smoke Detector Guard (1 each)	_____
7.	Audio Visual Guard (1 each)	_____
8.	Duct Detector (1 each)	_____
9.	Fire Alarm Relay Module (1 each)	_____
10.	Fire Alarm Monitor Module (1 each)	_____
11.	Fire Alarm Notification Power Supply (1 each)	_____
12.	Fiber Optic cable per 100 ft six strand multimode 62.5 Micron Plenum Rated (1 each)	_____
13.	A/C diffusers in Kitchen (1 each)	_____
14.	Drop In lights In kitchen (1 each)	_____
15.	2 Welded ½" rods at (e) steel joist bottom chord, 20' lengths each	_____
16.	Replacement of wet roof areas identified by the Thermocore® Infrared Scan. Description: Provide wet roof area replacement according to Section 07551 Modified Bitumen Membrane Roofing (Re-Cover). Unit of Measurement: 1 square foot.	_____

17. Deteriorated existing metal roof decking repair or replacement. _____

Description: Provide deteriorated metal roof decking repair or replacement with new metal roofing to match existing according to Section 05310 Steel Deck Repair/Replacement (If Required).
Unit of Measurement: 1 square foot.

18. Deteriorated existing wood blocking or nailer repair or replacement. _____

Description: Provide deteriorated wood blocking and nailer repair or replacement with new pressure-treated wood blocking or nailers according to Section 06105 Miscellaneous Carpentry.
Unit of Measurement: 1 board foot.
Supply Cost for 2x4
2x6
2x8

D. Contract Execution:

If awarded this contract the undersigned will execute a satisfactory Construction Contract, Performance Bond, Labor and Material Payment Bond and proof of insurance coverage, with the Owner for the entire work as per the contract Documents within 10 days after notice of award. It is agreed that this proposal is subjected to the Owners acceptance for a period of 30 (thirty days) from the above date.

E. Enclosed is a Certified Check or Bid Bond in the amount of $_____ in compliance with the specification requirements. (5% of highest amount bid.)

The above Check or Bid Bond is to become the property of the Owner in the event the Construction Contract (when offered by the Owner) and the bonds and proof of insurance coverage are not executed within the time set forth above.

F. Extra Work:

The undersigned agrees that should any change in the work or extra work be ordered the allowance for overhead and profit combined shall be as scheduled below, but in no case shall it exceed 5%. The following applicable percentages shall be added to the extra work cost as defined by Article 12 of the General Conditions.

1. Allowance to the Contractor for overhead and profit for extra work provided by his own forces: Maximum 5%

2. Allowance to the Contractor for overhead and Profit for extra work provided by a subcontractor and supervised by the Contractor: Maximum 5%

3. The General Contractor shall not be allowed to charge the Owner for “extended overhead” changes relating to Change of Orders or weather delays.

G. The Undersigned agrees to the following:
   A. To furnish all labor and materials as shown and specified
   B. To complete the base proposal (and any alternates selected) including anticipated delays due to inclement weather or muddy ground conditions in ____ calendar days.
   C. To work ____ working days per week
   D. To start work ____ days after notice of award of contract.

H. The full amount of all Allowances as specified in the General Requirements. Division I, of the Specifications, is included in the proposal item price shown

I. Receipt is acknowledgment of the following addenda:

No._____	Dated_____
No._____	Dated_____
No._____	Dated_____
No._____	Dated_____
No._____	Dated_____
No._____	Dated_____

J. The Offeror attests and affirms that he and his subcontractors are skilled and experienced in the use and interpretation of plans, specifications, addenda and related proposal documents and, that he has carefully reviewed the plans, specifications, addenda and related proposal documents for this project and has found them to be free of conflicts and/or ambiguities and sufficient for proposal and construction purposes. Further, he has carefully examined the soils reports and the site of the work, and, through his own personal observations, has satisfied himself as to the nature, location and requirements of the work; the character, quality and quantity of materials required; the difficulties likely to be encountered; the other items and/or conditions which may affect the satisfactory performance of the work. He has based his bid solely on these documents, and personal observations, and has not relied in any way on any explanation or interpretation, oral or written, from any source other than those written and issued by the Architect/Engineer.

K. Offerer agrees that the Owner has the right to accept or reject any or all proposals and to waive all informalities

---

The undersigned affirms that the information provided herein is true and sufficiently complete so as not to be misleading and has the authority to bind the represented company to a contract.

_____	_____
Title of Official	Signature Official
_____	_____
Date	Company Name

SUPPLEMENTS TO BID FORMS

SECTION 00400

BID SECURITY

Each Bid must be accompanied by a Bid Security in the amount of 5% of the largest possible total of the Bid submitted.

The Bid Security may be by cash, certified check or a Bid Bond. The Bid Bond must be executed by the Bidder as principal. The Bid Bond form and security company are subject to approval by the Owner and the Surety must comply with requirements noted in Section 29 of the Supplementary General Conditions.

The Bid Security will be returned to all except the three lowest Bidders within three days after opening of the Bids.

The remaining Bid Securities will be returned promptly after the Owner and the accepted Bidder have executed the contract, or, if no award has been made within thirty days after the date of the opening of bids, upon demand of the Bidder anytime thereafter so long as he has not been notified of the acceptance of his bid.

END OF SECTION

AGREEMENT FORM

SECTION 00500

AGREEMENT (Stipulated Sum)

The Agreement shall be executed as per the attached sample form.

END OF SECTION

THESTATEOFTEXAS §
§
COUNTYOFHIDALGO §

CONSTRUCTION CONTRACT
C-XX-XXX-XX-XX

This Agreement, entered into this_____day of _____, 2____by and between Hidalgo County (hereinafter called the "OWNER," and,___(a Texas corporation), of County of Hidalgo, and State of Texas, hereinafter called "CONTRACTOR".

WITNESSETH

That for and in consideration of the payments and agreement hereinafter mentioned, to be made and performed by the OWNER, the CONTRACTOR hereby agrees with the OWNER to commence and complete the construction described as follows:

Hereinafter called the project, for the sum ofDollars and
Cents and all extra work in connection therewith, under the terms and stated in the General and Special Conditions of the Contract; and at his (its or their) own proper cost and expense to furnish all the materials, supplies, machinery, equipment , tools, superintendence, labor, insurance, and other accessories and services necessary to complete the said project in accordance with the conditions and prices stated in the Proposal, the General Conditions and Special Conditions printed or written explanatory matter thereof, the specifications and contract documents therefore as prepared by engineer _____, entitled the Architect/Engineer, and as enumerated in Paragraph 1.01.A.12 of the General Conditions, all of which are made a part hereof and collectively evidence and constitute the contract.

The CONTRACTOR hereby agrees to commence work under this contract on or after a date to be specified in written "Notice to Proceed" of the OWNER and to fully complete the project withinworking days thereafter. The CONTRACTOR further agrees to pay, as liquidated damages, the sum of $500for each consecutive calendar day thereafter.

The OWNER agrees to pay the CONTRACTOR in current funds for the performance of the contract, subject to additions and deductions, as provided in the General Conditions of the contract, and to make payments on account thereof as provided in Paragraphs 14.02.C and 14.07.C of the General Conditions

SAMPLE

IN WITNE SS WHREOF, the parties to these present have executed this contract in four (4) counterparts, each of which shall be deemed an original, in year and day first above mentioned.

APPROVED BY COMMISIONERS COURT ON,_____, 2_____.

CONTRACTOR:_____
Print Name & Title:_____
Name of Firm:_____
_____
Address:_____
_____
Fed I.D. #/SS #:_____

STATE OF TEXAS

COUNTY OF HIDALGO

This instrument was acknowledged before me on this the _____day of_____,

2____, by _____ Of and on behalf of_____
(Title) (A corporation)

_____
Notary Public-Signature

APPROVED AS TO FORM:
Atlas &Hall , L.L.P .
800 Pecan
McAllen , Texas 78504

BY:_____

ATTEST:

_____
Arturo Guajardo, Jr., County Clerk

COUNTY OF HIDALGO:

_____
Ramon Garcia, County Judge

SAMPLE

FORM OF AGREEMENT FOR ENGINEERING CONSTRUCTION

THIS AGREEMENT, MADE ON THE _th day of, by and between the
HIDALGO COUNTY
711 E. El Cibolo Rd.
Edinburg TX 78541

party of the first part, hereinafter called the OWNER, and **Contractor** Address

party of the second part, hereinafter called the CONTRACTOR.

It is understood ENGINEER representing OWNER shall be Chanin Engineering, LLC.

WITNESSETH, That the Contractor and the Owner, for the consideration hereinafter named, agree as follows:

ARTICLE I - SCOPE OF THE WORK.

The Contractor hereby agrees to furnish all of the materials and all of the equipment and labor necessary and to perform all of the work shown on the drawings and described in the specifications for the project entitled **HIDALGO COUNTY SHERIFF'S OFFICE Hidalgo County Adult Detention Center and Law Enforcement Facility Repairs and / or Replacement** for the contract sum of $_____ (IN WORDS), herein referred to as the Work.

The following shall be the Contract Documents:

1. Hidalgo County Construction Contract;
2. Form of Agreement For Engineering Construction;
3. The General Conditions for Engineering Construction;
4. The Drawings and Specifications prepared by Chanin Engineering LLC and Consultants for the project.
5. The Contractor's Response to Competitive Bid/Schedule of Values.

ARTICLE II - TIME OF COMPLETION.

The Contractor shall achieve Substantial Completion within one hundred and eighty days of issuance of a notice to proceed issued to the Contractor. Final Completion shall be obtained within thirty days of Substantial Completion.

Time is of the essence in all phases of the Work. It is specifically understood and agreed by and between Owner and Contractor that time is of the essence in the Substantial Completion and Final Completion of the Work and Owner shall sustain actual damages as a result of Contractor's failure, neglect or refusal to achieve said deadlines. Such actual and direct damages are, and will continue to be, impracticable and extremely difficult to determine. Execution of this Agreement under these specifications shall constitute agreement by Owner and Contractor that the amounts stated below are the minimum value of the costs and actual and direct damages caused by failure of Contractor to substantially complete the work within the allotted times, that such sums are liquidated direct damages and shall not be construed as a penalty, and that such sums may be deducted from payments due Contractor if such delay occurs. It is expressly understood that the said sum per day is agreed upon as a fair estimate of the pecuniary damages which will be sustained by the Owner in the event that the Work is not completed within the agreed time, or within the extended time, if any, otherwise provided for herein. Said sum shall be considered as liquidated damages only and in no sense shall be considered a penalty, said damages being caused by additional compensation to personnel, for loss of interest on money, and other miscellaneous increased costs, all of which are difficult to exactly ascertain. Failure to substantially complete the Work within the designated period, or as it may be extended, shall be construed as a breach of this Agreement.

It is expressly agreed as a part of the consideration inducing the Owner to execute this Agreement that the Owner may deduct from the Final Payment made to the General Contractor a sum equal to $500.00 per day for each and every additional calendar day beyond the agreed date of Substantial Completion.

Timely Final Completion is an essential condition of this Agreement. Contractor agrees to achieve Final Completion of the Agreement within 30 days of the designated or extended date of Substantial Completion. Owner and Contractor agree that should Contractor fail to achieve Final Completion of the Agreement by the deadline, Owner shall continue to be damaged to a greater degree by such delay. Contractor and Owner agree that the amount of liquidated damages for each calendar day Final Completion is delayed beyond the date set for Final Completion shall be the sum of $500.00 per day. Owner may deduct form the Final Payment made to Contractor, or, if sufficient funds are not available, then Contractor shall pay Owner the amounts specified per day for each and every calendar day the breach continues after the deadline for Final Completion of the Work.

Such damages shall be in addition to, and not in lieu of, any other right or remedies. Owner may have against Contractor for failure to timely achieve Substantial and/or Final Completion. If the Work is not completed by the time stated in the Agreement, or as extended, no payments for Work completed beyond that time shall be made until the Project reaches Final Completion

ARTICLE III - THE CONTRACT SUM.

The contract sum shall be $_____ (IN WORDS),
Changes in the work made under Section 16 of the General Conditions, and not included in Article I, that cannot be classified as coming under any of the Contract units may be done at mutually agreed-upon unit price, or under the provisions of Article V “Extra Work”.

ARTICLE IV - PROGRESS PAYMENTS
The Owner shall make payments on account of the Contract as follows:
Attached hereto as is the Schedule of Values apportioning the various divisions or phases of Work. Each line item contained in the Schedule of Values shall be assigned a monetary price such that the total of all such items shall equal the Contract Price.
The Contractor shall submit to the Owner and Engineer a monthly application for payment no later than the twenty-fifth (25th) day of the calendar month for the preceding thirty (30) days. Applications for payments shall be itemized and supported by the Contractor’s Schedule of Values and any other substantiating data as required by the Owner. Payment applications may include payment requests on the account of properly authorized interim Change Documents. The Owner shall pay the amount otherwise due on any payment application, less any amounts as set forth below, no later than thirty days after Owner and Engineer receive the monthly application. The Owner may deduct, from any progress payment, such amounts as may be retained.
If approved by the Owner, applications for payment may include materials and equipment not incorporated into the Work but delivered to the suitable stored on-site and applicable insurance, storage and transportation costs to the site. Approval of payment applications for stored materials and equipment shall be conditioned on submission by the Contractor of bills of sale and proof of applicable insurance, or such other procedures satisfactory to the Owner to establish the proper valuation of the stored materials and equipment, the Owner’s title to such materials and equipment, and to otherwise protect the Owner’s interests therein, including transportation to the site.
As a prerequisite for payment, the Contractor shall provide, if requested by the Owner, partial lien and claim waivers in the amount of the application for payment and affidavits from its Subcontractors, materialmen and suppliers for the completed Work. **If such waivers are conditioned upon payment, Owner shall have the right to pay the amount due to such Subcontractor, materialman or supplier directly in return for an unconditional waiver.**
From each progress payment made prior to the time Substantial Completion of the Work has been reached, the Owner shall retain five percent (5%) of the amount otherwise due after deduction of any amounts as provided herein.
The Owner may adjust or reject a Contractor payment application or nullify a previously approved Contractor payment application, in whole or in part, as may reasonably be necessary to protect the Owner from loss or damage based upon the following, to the extent that the Contractor is responsible therefor under the Agreement:

1. the Contractor’s repeated failure to perform the Work as required by the Contract Documents;
2. loss or damage arising out of or relating to this Agreement and caused by Contractor, to

the Owner, or others to whom the Owner may be liable.

3. the Contractor's failure to properly pay Subcontractors for labor, materials, equipment or supplies furnished in connection with the Work.

4. nonconforming or Defective Work not corrected in a timely fashion;

5. reasonable evidence of delay in performance of the Work such that the Work will not be completed within the Contract Time, and that the unpaid balance of the Contract Price is not sufficient to offset any direct damages that may be sustained by the Owner as a result of the anticipated delay caused by the Contractor; and

6. reasonable evidence demonstrating that the unpaid balance of the Contract Price is insufficient to fund the cost to complete the Work.

The Owner shall give written notice to the Contractor at the time of disapproving or nullifying an application for payment of the specific reasons therefor. When the above reasons for disapproving or nullifying an application for payment are removed, payment will be made for the amounts previously withheld.

Neither the Owner's payment of progress payments nor its partial or full use or occupancy of the project constitutes acceptance of Work not complying with the Contract Documents.

ARTICLE V - EXTRA WORK

If the Engineer orders, in writing, the performance of any work not covered by the Drawings or included in the Specifications, and for which no items in the contract are provided, and for which no unit price or lump sum are provided.

(a) The contractor shall be reimbursed for all costs incurred in doing the work, and shall receive an additional payment of 5% of all such cost to cover his indirect overhead costs, plus 5% of all costs, including indirect overhead, as his fee.

(b) The "Cost of the Work" shall be determined as the net sum of the following items:

1. Job Office and all necessary temporary facilities such as buildings, use of land not furnished by the Owner, access roads and utilities. The costs of these items include construction, furnishings and equipment, maintenance during the period that they are needed, demolition and removal. Salvage valued agreed on or received by the Contractor shall be credited to the Owner.

2. All materials used on the work whether for temporary or permanent construction.

3. All small tools and supplies; all fuel, lubricants, power, light, water and telephone service.

4. All plant and equipment at specified rental rates and terms of use. If the rental rates do not include an allowance for running repairs and repair parts needed for ordinary maintenance of the plant and equipment, then such items of cost are to be included in the Cost of the Work.

5. All transportation costs on equipment, material and men.

6. All labor for the project and including the salaries of superintendents, foremen, engineers, inspectors, clerks and other employees or officers, who do not devote their full time to their work.

7. All payroll charges such as Social Security payments, unemployment insurance, workmen's compensation insurance premiums, pension and retirement allowances, and social insurance premiums, vacation and sick leave allowances applicable to wages or salaries paid to employees for work done in connection with the contract.

8. All premiums on fire, public liability, property damage or other insurance coverage authorized or required by the Engineer or the Owner or regularly paid by the Contractor in the conduct of his business.

9. All sales, use, excise, privilege, business, occupation, gross receipt and all other

taxes paid by the Contractor in connection with the work, but excluding state income derived from this contract and Federal Income taxes.

10. All travel or other related expense of general supervisory employees for necessary visits to the job excluding expenses of such employees incurred at the Home Office of the contractor.

11. All Subcontracts approved by the Engineer or Owner.

12. Any other cost incurred by the Contractor as a direct result of executing the Order, subject to approval by the Engineer.

13. Credit to the Owner for the following items:
    a. Such discounts on invoices as may be obtained provided that the Owner advances sufficient funds to pay the invoices within the discount period.

    b. The mutually agreed salvage value of materials, tools or equipment charged to the Owner and taken over by the Contractor for his use or sale at the completion of the work.

    c. Any rebates, refunds, returned deposits or other allowances properly credited to the Cost of the work.

(c) The cost of the work done each day shall be submitted to the Engineer in a satisfactory form on the succeeding day, and shall be approved by him or adjusted at once.

(e) Prior to Contractor's performance of any "extra work," the Owner, Engineer and Contractor shall execute a change order to memorialize the work and the cost.

ARTICLE VI – CONTRACT ATTACHMENTS

Attached and made part of the contract documents are the following:

1. Hidalgo County Purchasing Department Bidder/Vendor Application
2. HUB Declaration
3. Conflict of Interest Questionnaire
4. W-9

IN WITNESS WHEREOF the parties hereto have executed this Agreement, the day and year first above written.

AGREED: OWNER

BY: _____

WITNESS:

BY: _____

CONTRACTOR

BY: _____
PRESIDENT

WITNESS:

BY: _____ (CORPORATE SEAL)

BONDS AND CERTIFICATES

SECTION 00600

The Contractor shall furnish the following Bonds and Certificates to be delivered simultaneously with the executed contract:

A. Performance Bond
B. Labor and Materials Payment Bond
C. Certificates of Insurance

The Performance, Labor and Materials bond shall be provided on Bonds which comply with Article 5160 of the Revised Civil Statutes of the State of Texas as amended by Acts of the 64th Legislature 1975 and Acts of the 65th Legislature, 1977.

The Surety on such bonds shall be a surety company satisfactory to the Owner. See Article 11 of the supplementary condition.

Costs of the above stated bonds and insurance are to be included in the bid.

Attorneys-in-Fact who sign bonds must file with each bond a certified and effective dated copy of their Power of Attorney.

The Performance Bond shall guarantee the repair and maintenance of all defects due to faulty materials and workmanship that appear within one (1) year from date of substantial completion.

END OF SECTION

GENERAL CONDITIONS

SECTION 00700

The General Conditions of the Contract are set forth in the Documents that follow containing sections 1-45 and are hereby made part of the Contract Documents.

END OF SECTION

GENERAL CONDITIONS OF CONTRACT FOR ENGINEERING CONSTRUCTION

SEC. 1 - DEFINITIONS

SEC. 2 - COPIES OF DRAWINGS FURNISHED

SEC. 3 - ORDER OF COMPLETION

SEC. 4 - OWNER OF DRAWINGS

SEC. 5 - **FAMILIARITY WITH WORK**

SEC. 6 - CHANGED CONDITIONS

SEC. 7 - MATERIALS AND APPLIANCES

SEC. 8 - EMPLOYEES

SEC. 9 - ROYALTIES AND PATENTS

SEC. 10 - SURVEYS

SEC. 11 - PERMITS, LICENSES AND REGULATIONS

SEC. 12 - PROTECTION OF THE PUBLIC AND OF WORK AND PROPERTY

SEC. 13 - INSPECTION OF WORK

SEC. 14 - SUPERINTENDENCE

SEC. 15 - DISCREPANCIES

SEC. 16 - CHANGES IN THE WORK

SEC. 17 - EXTENSION OF TIME

SEC. 18 - CLAIMS

SEC. 19 - DEDUCTIONS FOR UNCORRECTED WORK

SEC. 20 - CORRECTION OF WORK BEFORE FINAL PAYMENT

SEC. 21 - SUSPENSION OF WORK

SEC. 22 - THE OWNER'S RIGHT TO TERMINATE CONTRACT

SEC. 23 - CONTRACTOR'S RIGHT TO STOP WORK OR TERMINATE CONTRACT

SEC. 24 - REMOVAL OF EQUIPMENT

SEC. 25 - RESPONSIBILITY FOR WORK

SEC. 26 - PARTIAL COMPLETION AND ACCEPTANCE

SEC. 27 - PAYMENTS WITHHELD PRIOR TO FINAL ACCEPTANCE OF WORK

SEC. 28 - CONTRACTOR'S INSURANCE

SEC. 29 - SURETY BONDS

SEC. 30 - ASSIGNMENT

SEC. 31 - RIGHTS OF VARIOUS INTERESTS

SEC. 32 - SEPARATE CONTRACTS

SEC. 33 - SUBCONTRACTS

SEC. 34 - ENGINEER'S STATUS

SEC. 35 - ENGINEER'S DECISIONS

SEC. 36 - ARBITRATION
SEC. 37 - LAND FOR WORK
SEC. 38 - CLEANING UP
SEC. 39 - ACCEPTANCE AND FINAL PAYMENT
SEC. 40 - GENERAL GUARANTY
SEC. 41 - SHOP DRAWINGS/SUBMIT/RFI'S
SEC. 42 - TESTING
SEC. 43 - PAYMENT SCHEDULE
SEC. 44 - RETAINAGE
SEC. 45 - INDEMNITY AND HOLD HARMLESS AGREEMENT

SEC. 1 - DEFINITIONS

(a) The Contract Documents shall consist of Advertisement for Bids or Notice to Contractors, Instructions to Bidders, form of Bid or Proposal, the signed Agreement, the General and Special conditions of contract, the Drawings, and the Specifications, including all modifications thereof incorporated in any of the documents before the execution of the Agreement.

(b) The Owner, the Contractor and the Engineer are those named as such in the Agreement. They are treated throughout the contract Documents as if each were of singular number and masculine gender.

(c) Wherever in this contract the word "Engineer" is used it shall be understood as referring to the Engineer of the Owner, acting personally or through assistants duly authorized in writing by the Engineer.

(d) Written notice shall be deemed to have been duly served if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or to an authorized representative of such individual, firm, or corporation, or if delivered at or sent by registered mail to the last business address known to him who gives the notice, with a copy sent to the central office of the contractor.

(e) The term "Subcontractor" shall mean anyone (other than the contractor) who furnished at the site, under an Agreement with the contractor, labor, or labor and materials, or labor and equipment, but shall not include any person who furnishes services of a personal nature.

(f) Work shall mean the furnishing of all labor, materials, equipment, and other incidentals as are required to complete the Contract for the purpose for which it was intended but was not shown on the Drawings or called for in the Specifications, or is desired by the Owner in addition to that work called for in the Drawings and Specifications.

(g) Dispute shall mean lack of agreement between any parties that have any obligations, duties, or responsibilities under the terms of the contract, Drawings, or Specifications.

SEC. 2 - COPIES OF DRAWINGS FURNISHED

Unless otherwise provided in the Contract Documents, the Engineer will furnish to the Contractor, free of charge, all copies of Drawings and Specifications reasonably necessary for the execution of the work. Twenty five (25) copies will be furnished to the Contractor. Additional copies may be requested at a cost of $150 each.

Drawings may not be reproduced in any way without prior clearance from the Owner and Engineer.

SEC. 3 - ORDER OF COMPLETION

The contractor shall submit, at such times as may be reasonably requested by the Engineer, schedules which shall show the order in which the Contractor proposes to carry on the work, with dates at which the Contractor will start the several parts of the work, and estimated dates of completion of the several parts.

Work on ADC and LEC may only occur on working days.

All OSHA regulations must be followed at all times.

Contractor to provide all roof access locations to Engineer and Owner in writing at least seven (7) days in advance for pre-approval.

Contractor to provide to Engineer and Owner in writing all projected work days, including number and names of personnel to be on site, at least seven (7) days in advance.

Any changes to the schedule must be submitted in writing to the Owner and Engineer at least seven (7) days in advance.

Owner must be notified at all times of projected work areas. Temperature control in the facility must be maintained at all times. Mechanical and Roofing work must be coordinated accordingly.

SEC. 4 - OWNER OF DRAWINGS

All drawings, Specifications and copies thereof furnished by the Engineer shall not be reused on other work and, with the exception of the signed Contract, sets are to be returned to him on request, at the completion of the work.

SEC. 5 - FAMILIARITY WITH WORK

The Owner shall make known to all prospective bidders, prior to the receipt of bids, all information that he may have as to subsurface conditions in the vicinity of the work, topographical maps, or other information that might assist the bidder in properly evaluating the amount and character of the work that might be required. Such information is given, however, as being the best factual information available to the Owner. The Contractor, by careful examination, shall satisfy himself as to the nature and location of the work, the character of equipment and facilities needed preliminary to and during the prosecution of the work, the general and local conditions, and all other matters which can in any way affect the work under this Contract.

SEC. 6 - CHANGED CONDITIONS

The Contractor shall promptly, and before such conditions are disturbed, notify the Engineer in writing of: (1) Subsurface or latent physical conditions at the site differing materially from those indicated in this Contract; or (2) previously unknown physical or other conditions at the site, or an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in this Contract. The Engineer shall promptly investigate the conditions, and if he finds that such conditions do so materially differ and cause an increase or decrease in the cost of, or the time required for, performance of this Contract, an equitable adjustment shall be made and the Contract modified in writing accordingly. Any claim of the Contractor for adjustment hereunder shall not be allowed unless he has given notice as above required; provided that the Engineer may, if he determines the facts so justify, consider and adjust any such claims asserted before the date of final settlement of the Contract. If the parties fail to agree upon the adjustment to be made, the dispute shall be determined as provided in Section 39 hereof.

SEC. 7 - MATERIALS AND APPLIANCES

Unless otherwise stipulated, the Contractor shall provide and pay for all materials, labor, water, tools, equipment, light, power, transportation and other facilities necessary for the execution and completion of the work. Unless otherwise specified, all materials incorporated in the permanent work shall be new and both workmanship and materials shall be of good quality. The Contractor shall, if required, furnish satisfactory evidence as to the kind and quality of materials.

SEC. 8 - EMPLOYEES

The Contractor shall at all times enforce strict discipline and good order among his employees, and shall seek to avoid employing on the work any unfit person or anyone not skilled in the work assigned to him. The Owner shall have the authority to request that Contractor remove any objectionable employee from project site.

Adequate sanitary facilities shall be provided by the Contractor.

Contractor shall submit a list of all personnel for General Contractor and any Sub Contractors that will be on site for background check and approval by Owner.

All pre-approved personnel that will be on site shall wear a Picture ID Badge at all times that includes their respective company logo. They shall also wear a hard hat and fluorescent green vest at all times. Failure to comply with any of these requirements will be justification for removal from the project by the Owner.

Random searches of Contractor or Subcontractor personnel vehicles by Owner may occur.

SEC. 9 - ROYALTIES AND PATENTS

The Contractor shall pay all royalties and license fees. He shall defend all suits or claims for infringement of any patent rights and shall save the Owner harmless from loss on account thereof except that the Owner shall be responsible for all such loss when a particular process or the product of a particular manufacturer or manufacturers is specified, unless the Owner has notified the Contractor prior to the signing of the contract that the particular process or product is patented or is believed to be patented.

SEC. 10 - SURVEYS

Unless otherwise specified, the Owner shall furnish all land surveys and establish all base lines for locating the principal component parts of the work together with a suitable number of bench marks adjacent to the work. From the information provided by the Owner, the Contractor shall develop and make all detail surveys needed for construction such as slope stakes, batter boards, stakes for pile locations and other working points, lines and elevations.

The contractor shall carefully preserve bench marks, reference points and stakes and, in case of willful or careless destruction, he shall be charged with the resulting expense and shall be responsible for any mistakes that may be caused by their unnecessary loss or disturbance.

SEC. 11 - PERMITS, LICENSES AND REGULATIONS

Permits and licenses of a temporary nature necessary for the prosecution of the work shall be secured and paid for by the Contractor. Permits, licenses and easements for permanent structures or permanent changes in existing facilities shall be secured and paid for by the Owner, unless otherwise specified. The Contractor shall give all notices and comply with all laws, ordinances, rules and regulations bearing on the conduct of the work as drawn and specified. If the contractor observes that the Drawings and Specifications are at variance therewith, he shall promptly notify the Engineer in writing, and any necessary changes shall be adjusted as provided in the Contract for changes in the work.

SEC. 12 - PROTECTION OF THE PUBLIC AND OF WORK AND PROPERTY

The Contractor shall provide and maintain all necessary watchmen, barricades, warning lights and signs and take all necessary precautions for the protection, and safety of the public. He shall take all reasonable precautions to protect the Owner's property from injury or loss arising in connection with this contract. He shall make good any damage, injury or loss to his work and to the property of the Owner resulting from lack of reasonable protective precautions, except such as resulting from lack of reasonable protective precautions, except such as may be due to errors in the Contract Documents, or caused by agents or employees of the Owner. He shall adequately protect adjacent private and public property, as provided by law and the Contract Documents.

In an emergency affecting the safety of life, of the work, or of adjoining property, the Contractor is, without special instructions or authorization from the Engineer, hereby permitted to act at his discretion to prevent such threatened loss or injury. He shall also so act, without appeal, if so authorized or instructed by the Engineer.

Any compensation claimed by the Contractor on account of emergency work, shall be determined by agreement or arbitration.

SEC. 13 - OBSERVATION OF WORK

The Owner shall provide sufficient competent personnel, working under the supervision of a qualified Engineer, for the observation of the work while such work is in progress to ascertain that the completed work will comply in all respects with the standards and requirements set forth in the Specifications. Notwithstanding such observation, the Contractor will be held responsible for the acceptability of the finished work.

The Engineer and his representatives shall at all times have access to the work whenever it is in preparation or progress, and the Contractor shall provide proper facilities for such access, and for observation.

If the Specifications, the Engineer's instructions, laws, ordinances, or any public authority require any work to be specially tested or approved, the Contractor shall give the Engineer timely notice of its readiness for observation, and if the observed is by an authority other than the Engineer of the date fixed for such observation. Observations by the Engineer shall be made promptly, and where practicable at the source of supply. If any work should be covered up without approval or consent of the Engineer, it must be uncovered if required by the Engineer at the Contractor's expense, unless the Engineer has unreasonably delayed inspection.

Re-examination of the work may be ordered by the Engineer, and, if so ordered, the work must be uncovered by the Contractor. If such work is found to be in accordance with the Contract Documents, the Owner shall pay the cost of re-examination and replacement. If such work is not in accordance with the Contract Documents, the Contractor shall pay such cost.

SEC. 14 - SUPERINTENDENCE

The Contractor shall keep on his work, during its progress, a competent superintendent with more than ten (10) years experience as a superintendent and any necessary assistants. The superintendent shall be on site at all times. The superintendent shall represent the Contractor, and all directions given to him shall be binding as if given to the Contractor. Important directions shall immediately be confirmed in

writing to the Contractor. Other directions shall be so confirmed on written request in each case. The Contractor shall give efficient superintendence to the work, using his best skill and attention.

SEC. 15 - DISCREPANCIES

If the Contractor, in the course of the work, finds any discrepancy between the Drawings and the physical conditions of the locality, or any errors or omissions in Drawings he shall immediately inform the Engineer, in writing, and the Engineer shall promptly verify the same. Any work done after such discovery, until authorized will be done at the Contractor's risk.

SEC. 16 - CHANGES IN THE WORK

The Owner may make changes in the Drawings and Specifications of scheduling of the Contract within the general scope at any time by a written order. If such changes add to or deduct from the contractor's cost of the work, the Contract shall be adjusted accordingly. All such work shall be executed under the conditions of the original Contract except that any claim for extension of time caused thereby shall be adjusted at the time of ordering such change.

In giving instructions, the Engineer shall have authority to make minor changes in the work not involving extra cost, and not inconsistent with the purposes of the work, but otherwise, except in an emergency endangering life or property, no extra work or change shall be made unless in pursuance of a written order by the Engineer, and no claim for an addition to the Contract Sum shall be valid unless the additional work was so ordered.

The Contractor shall proceed with the work as changed and the value of any such extra work or change shall be determined as provided in the Agreement.

If unit prices are stated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are materially changed in a proposed Change Order or Construction Change Directive so that application of such unit prices to quantities of Work proposed will cause substantial inequity to the Owner or Contractor, the applicable unit prices shall be equitably adjusted.

Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Engineer of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time.

A Construction Change Directive signed by the Contractor indicates the Contractor's agreement therewith, including adjustment in Contract Sum and Contract Time or the method for determining them. Such agreement shall be effective immediately and shall be recorded as a Change Order.

SEC. 17 - EXTENSION OF TIME

Extension of time stipulated in the Contract for completion of the Work will be made when changes in the work occur, as provided in Section 18; when the work is suspended as provided in Section 23; and when the work of the Contractor is delayed on account of conditions which could not have been foreseen, or which were beyond the control of the Contractor, his Subcontractors or suppliers, and which were not the result of their fault or negligence. Extension of time for completion shall also be allowed for any delays in the progress of the work caused by any act (except as provided elsewhere in these General Conditions) or neglect of the Owner or of his employees or by other contractors employed by the Owner, or by any delay in the furnishing of Drawings and necessary information by the Engineer, or by any other cause which in the opinion of the Engineer entitled the Contractor to an extension of time, including but not restricted to acts of the public enemy, acts of any government in either its sovereign or any applicable contractual capacity, acts of another contractor in the performance of a contract with the Owner, fires, floods, epidemics, quarantine restrictions, freight embargoes, usually severe weather, or labor disputes.

The Contractor shall notify the Engineer promptly of any occurrence or conditions which in the Contractor's opinion entitle him to an extension of time. Such notice shall be in writing and shall be submitted in ample time to permit full investigation and evaluation of the contractor's claim. In no case shall the Contractor make a claim for an extension of time more than 30 days after the delay has commenced. The Engineer shall acknowledge receipt of the Contractor's notice within 5 days of its receipt. Failure to provide such notice shall constitute a waiver by the Contractor of any claim. The Owner has discretion to determine whether an extension of time request is with our without merit.

If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time, could not have been reasonably anticipated and had an adverse effect on the scheduled construction. Extensions of time may be requested for any month of construction for days lost due to adverse weather in excess of the normally expected lost time; provided, however, if Engineer determines that the seasonal average of adverse weather days during construction is less than would be normally expected, no Change Order shall be issued and the request for extension of time shall be denied.

SEC. 18 - CLAIMS

If the Contractor claims that any instructions by Drawings or other media issued after the date of the Contract involve extra cost under this Contract, he shall give the Engineer written notice thereof within 7 days after the receipt of such instructions, and in any event before proceeding to execute the work, except in emergency endangering life or property, and the procedure shall then be as provided for changes in the work. No such claim shall be valid unless so made.

SEC. 19 - DEDUCTIONS FOR UNCORRECTED WORK

If the Engineer deems it inexpedient to correct work that has been damaged or that was not done in accordance with the Contract, an equitable deduction from the Contract price shall be made therefore, unless the Contractor elects to correct to work.

SEC. 20 - CORRECTION OF WORK BEFORE FINAL PAYMENT

The Contractor shall promptly remove from the premises all materials and work condemned by the Engineer as failing to meet Contract requirements, whether incorporated in the work or not. The Contractor shall promptly replace and re-execute his own work in accordance with the Contract and without expense to the Owner and shall bear the expense of making good all work of other contractors destroyed or damaged by such removal or replacement.

If the Contractor does not take action to remove such condemned materials and work within 10 days after written notice, the Owner may remove such condemned material and may store the material at the expense of the Contractor. If the Contractor does not pay the expense of such removal and storage within ten days' time thereafter, the Owner may, upon ten days' written notice, sell such materials at auction or private sale and shall pay to the Contractor any net proceeds thereof, after deducting all the costs and expenses that should have been borne by the Contractor.

SEC. 21 - SUSPENSION OF WORK

The Owner may at any time suspend the work, or any part thereof by giving 1 day notice to the Contractor in writing. The work shall be resumed by the Contractor within ten (10) days after the date fixed in the written notice from the Owner to the Contractor so to do.

If the work, or any part thereof, shall be stopped by notice in writing aforesaid, and if the Owner does not give notice in writing to the Contractor to resume work at a date within 15 days of the date fixed in the written notice to suspend, then the contractor may abandon that portion of the work so suspended and he will be entitled to the estimates and payments for all work done on the portions so abandoned, if any, plus 10% of the value of the work so abandoned, to compensate for loss of overhead, plant expense, and anticipated profit.

SEC. 22 - THE OWNER'S RIGHT TO TERMINATE CONTRACT

If the Contractor should be adjudged as bankrupt, or if he should make a general assignment for the benefit of his creditors, or if a receiver should be appointed as a result of his insolvency, or if he should be deemed by the Owner to be in violation of the Contract, then the Owner, upon the certificate of the Engineer that sufficient cause exists to justify such action, may, without prejudice to any other right or remedy and after giving the Contractor and his Surety seven days' written notice terminate the employment of the Contractor and take possession of the premises and of all materials, tools, equipment and other facilities installed on the work and paid for by the Owner, and finish the work by whatever method he may deem expedient. In such case the Contractor shall not be entitled to receive any further payment until the work is finished. If the unpaid balance of the Contract price shall exceed the expense of finishing the work, including compensation for additional managerial and administrative services, such excess shall be paid to the Contractor. If such expense shall exceed such unpaid balance, the Contractor shall pay the difference to the Owner.

SEC. 23 - CONTRACTOR'S RIGHT TO STOP WORK OR TERMINATE CONTRACT

The Contractor may terminate the Contract if the Work is stopped for a period of 30 consecutive days through no act or fault of the Contractor or a Subcontractor, Sub-subcontractor or their agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with the Contractor, for any of the following reasons:

1. Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped;

2. An act of government, such as a declaration of national emergency that requires all Work to be stopped;

The Contractor may terminate the Contract if, through no act or fault of the Contractor or a Subcontractor,
Sub-subcontractor or their agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with the Contractor, repeated suspensions, delays or interruptions of the entire Work by the Owner as described in Section 21 constitute in the aggregate more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365-day period, whichever is less.

If one of the reasons described in Section 23.1 or 23.2 exists, the Contractor may, upon seven days' written notice to the Owner and Engineer, terminate the Contract and recover from the Owner payment for Work properly executed in accordance with the Contract Documents. .

Owner shall not be responsible for damages for loss of anticipated profits on Work not performed on account of any termination described in Subparagraphs 23.1 and 23.2.

SEC. 24 - REMOVAL OF EQUIPMENT

In the case of termination of this Contract before completion from any cause whatever, the Contractor, if notified to do so by the Owner, shall promptly remove any part or all of his equipment and supplies from the property of the Owner, failing which the Owner shall have the right to remove such equipment and supplies at the expense of the Contractor.

SEC. 25 - RESPONSIBILITY FOR WORK

The Contractor assumes full responsibility for the work. Until its final acceptance, the Contractor shall be responsible for damage to or destruction of the work (except for any part covered by Substantial acceptance as set forth in Sec. 26). He agrees to make no claims against the Owner for damages to the work from any cause except negligence or willful acts of the Owner, acts of an Enemy, or acts of war.

Existing Structures: The Contractor shall, at his own expense immediately make permanent repairs and restore to original condition any and all utility lines, irrigation lines, pipe lines, pavement, or structures that are to remain in place and damaged by the Contractor's equipment or workmen during the performance of work under this contract, or damaged as a result of improperly executed work.

Traffic Areas, Driveways, Entrances: All traffic areas, driveways and entrances shall be restored to usable condition at the Contractor's expense as the work progresses. The Contractor shall make every effort to cooperate with the wishes of the individual property owners in providing access to private property along the site of the work.

Detours: The Contractor shall do such work as may be necessary to provide and maintain a detour adjacent to all road structures for public travel. The Contractor shall maintain the detours in such condition that the public can travel over same in comfort and safety, and shall at his own expense perform such work as may be required to keep said detours open to the public at all times. The Contractor shall cooperate with the Engineer in the regulation of traffic and shall so govern his work that when it becomes necessary to suspend construction for a considerable period of time, the roadways will be re-opened to public travel. Materials and equipment shall be stored and the work shall be so conducted as to obstruct public travel as little as possible, and in no case shall there be less than twenty (20) feet in width of unobstructed roadway for the use of traffic. Materials and equipment stored in or near the path of traffic shall be protected with applicable traffic control devices in compliance with the Texas MUTCD.

Traffic Control Devices: When any section of the contraction site is closed to traffic, the Contractor shall furnish and maintain at each end of the closed section and at all intersecting streets - roads - construction site within the section, standard barricades, adequate warning signs and directional

signs. All lights shall be kept burning from sunset to sunrise. If at any time the barricades are not, in the opinion of the Engineer, sufficient to prevent traffic from entering the closed portions of the street-road-construction site, the Contractor shall provide and maintain watchmen at such points and for such periods of time as the Engineer may direct. When directed by the Engineer, the Contractor shall provide and maintain such standard barricades, signs, lights and flags within the closed portion of the street-road-construction site as may be necessary to protect the work and safeguard local traffic.

No direct compensation except as specifically provided in these specifications will be made to the Contractor for the work and material involved in constructing and maintaining detours and approaches; furnishing, installing and maintaining barricades, danger, warning, and necessary for the proper direction, safety, and convenience of traffic during the Contract period, as this work is to be considered subsidiary to the several items for which unit prices are requested in the proposal.

SEC. 26 - SUBSTANTIAL COMPLETION AND ACCEPTANCE

If at any time prior to the issuance of the final certificate referred to in Section 39 hereinafter, any portion of the permanent construction has been satisfactorily completed, and if the Engineer determines that such portion of the permanent construction is not required for the operations of the Contractor but is needed by the Owner, the Engineer shall issue to the Contractor a certificate of Substantial completion, and thereupon or at any time thereafter the Owner may take over and use the portion of the permanent construction described in such certificate, and exclude the Contractor there from.

The issuance of a certificate of substantial completion shall not be constructed to constitute an extension of the Contractor's time to complete the portion of the permanent construction to which it relates if he has failed to complete it in accordance with the terms of this contract. The issuance of such a certificate shall not operate to release the Contractor or his sureties from any obligations under this contract or the performance bond. If any prior use increases the cost of or delays the work, the Contractor shall be entitled to extra compensation, or extension of time, or both, as the Engineer may determine, unless otherwise provided.

Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof (which Owner agrees to accept separately) is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use.

When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Architect a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

Upon receipt of the Contractor's list, the Engineer will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Engineer's inspection discloses any item, whether or not included on the Contractor's list, which is not sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work or designated portion thereof or its intended use, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Engineer. In such case, the Contractor shall then submit a request for another inspection by the Engineer to determine Substantial Completion

When the Work or designated portion thereof is substantially complete, the Engineer will prepare a Certificate of Substantial Completion that shall establish the date of Substantial Completion, shall establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and shall fix the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of issuance of the certificate of final payment by Engineer unless otherwise provided in the Certificate of Substantial Completion. The Work will not be considered suitable for Substantial Completion review until all Project systems included in the Work are operational as designed and scheduled, all designated or required governmental inspections and certifications have been made and posted, designated instruction of Owner's personnel in the operation of systems has been completed, and all final finishes within the Contract are in place. In general, the only remaining Work shall be minor in nature, so that Owner and/or Owner's employees and if applicable, the public, could occupy the building on that date and the completing of the Work by Contractor would not materially interfere or hamper Owner's or Owner's employees and if applicable, the public, (or those claiming by, through, or under Owner) from normal County operations. As a further condition of Substantial Completion acceptance, Contractor shall certify that all remaining Work will be completed within thirty (30) consecutive calendar days or as agreed

upon following the Date of Substantial Completion. If Contractor requests a Substantial Completion review, and Engineer, after performing the Substantial Completion review, finds that the Project was not ready for the Substantial Completion review, then Contractor shall pay the Engineer's fees for any additional Substantial Completion reviews

The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in such Certificate. Upon such acceptance and consent of surety, if any, the Owner shall make payment of retainage applying to such Work or designed portion thereof. Such payment shall be adjusted for Work that is incomplete or not in accordance with the requirements of the Contract Document

SEC. 27 - PAYMENTS WITHHELD PRIOR TO FINAL ACCEPTANCE OF WORK

The Owner, as a result of subsequently discovered evidence, may withhold or nullify the whole or part of any payment certificate to such extent as may be necessary to protect himself from loss caused by:

(a) Defective work not remedied.
(b) Claims filed or reasonable evidence indicating probable filing of claims by other parties against the Contractor.
(c) Failure of the Contractor to make payments properly to Subcontractors or for material or labor.
(d) Damage to another contractor.

When the above grounds are removed or the contractor provides a Surety Bond satisfactory to the Owner which will protect the Owner in the amount withheld, payment shall be made for amounts withheld because of them.

SEC. 28 - CONTRACTOR'S INSURANCE

The Contractor shall secure and maintain such insurance policies as will protect himself, his Subcontractors, and unless otherwise specified, the OWNER, from claims for bodily injuries, death or property damage which may arise from operations under this Contract whether such operations be by himself or by any Subcontractor or anyone employed by them directly or indirectly.

Certificates and/or copies of policy of such insurance shall be filed with the Engineer, and shall be subject to his approval as to adequacy of protection, within the requirements set forth below. Said certificates of insurance shall contain a 10 day's written notice of cancellation in favor of the Owner.

a. Workers' Compensation – Statutory Limits

b. Employer's Liability:
Bodily Injury by Accident - $500,000 Each Accident
Bodily Injury by Disease - $500,000 Each Employee
Bodily Injury by Disease - $1,000,000 Aggregate
Bodily Injury by Accident - $1,000,000 Aggregate

c. Commercial General Liability (Premises Operations, Independent Contractors, Products/Completed Operations, Personal Injury, Contractual Liability, Explosion, Collapse, Underground and Broad Form Property Damage) – $500,000.00 per person and Combined Single Limit for Bodily Injury and Property Damage of $1,000,000 per Occurrence.

d. Comprehensive Automotive Liability - $500,000.00 per person and $1,000,000 Combined Single Limit per Occurrence.

e. Owner's Protective Liability Insurance Policy – Bodily Injury - $1,000,000 Each Occurrence and $1,000,000 Aggregate.

f. Builder's Risk Insurance: In the amount equal to 100% of the contract sum (including any change orders or extra work). The policy must also name Contractor's subcontractors and Owner as additional insureds, as their respective interests may appear. The policy must have the following endorsement: "This insurance shall be specific as to coverage and not considered as contributing insurance with any permanent insurance maintained on the present premises." For renovation projects, the County waives subrogation for damage by fire to an existing building structure if

building structure is in the care, custody or control of the contractor and the builder's risk policy must be endorsed to include coverage for an existing building structure.

g. All policies shall contain special endorsements to include:
   1. The County as an additional insured (except for Workers' Compensation).
   2. Waiver of subrogation in favor of the Owner under the Workers' Compensation and Employers' Liability policies.
   3. A statement that a notice shall be given to County by certified mail thirty (30) days prior to cancellation or upon any materials change in coverage.

SEC. 29 - SURETY BONDS

The Contractor shall furnish a bond covering the faithful performance of the Contract and the payment of all obligations arising thereunder, in such form as the Owner may prescribe in the bidding documents and executed by one or more financially responsible sureties. The bonds shall sufficiently cover the cost and performance of the Contractor's obligation to perform its obligation to the Owner and any subcontractor, supplier, or material man.

SEC. 30 - ASSIGNMENT

Neither party to the Contract shall assign the Contract or sublet it as a whole without the written consent of the other, nor shall the Contractor assign any moneys due to him or to become due to him hereunder, except to bank or financial institution acceptable to the Owner.

SEC. 31 - RIGHTS OF VARIOUS INTERESTS

Whenever work being done by the Owners or by other contractor's forces is contiguous to work covered by this Contract, the respective rights of the various interests involved shall be established by the Engineer, to secure the completion of the various portions of the work in general harmony.

SEC. 32 - SEPARATE CONTRACTS

The Owner reserves the right to let other contracts in connection with this project. The Contractor shall afford other contractors reasonable opportunity for the introduction and storage of their materials and the execution of their work, and shall properly connect and coordinate his work with theirs.

If the proper execution or results of any part of the Contractor's work depends upon the work of any other contract, the Contractor shall inspect and promptly report to the Engineer any defects in such work that render it unsuitable for such proper execution and results.

SEC. 33 - SUBCONTRACTS

The Contractor shall, as soon as practical after signing of the Contract, notify the Engineer in writing of the names of Subcontractors proposed for the work.

The Contractor agrees that he is as fully responsible to the Owner for the acts and omissions of his Subcontractors and of persons either directly or indirectly employed by them, as he is for the acts and omissions of persons directly employed by him.

Nothing contained in the Contract Documents shall create any contractual relation between any Subcontractor and the Owner.

No Subcontractors may be replaced without the prior approval from the Engineer and Owner.

SEC. 34 - ENGINEER'S STATUS

The Engineer shall perform technical observation of the work. He has authority to stop the work whenever such stoppage may be necessary to insure the proper execution of the contract. He shall also have authority to reject all work and materials which do not conform to the Contract and to decide questions which arise in the execution of the work.

SEC. 35 - ENGINEER'S DECISION

The Engineer shall, within a reasonable time after their presentation to him, make decisions in

writing on all claims of the Owner or the Contractor and on all other matters relating to the execution and progress of the work or the interpretation of the Contract Documents.

SEC. 36 - ARBITRATION

Any controversy or claim arising out of or relating to this contract, or the breach thereof which cannot be resolved by mutual agreement, shall be settled by arbitration in accordance with the Rules of the American Arbitration Association, and judgment upon the award rendered by the Arbitrator(s) may be entered in any Court having jurisdiction thereof.

SEC. 37 - LAND FOR WORK

The Owner shall provide as indicated on Drawings and not later than the date when needed by the Contractor the lands upon which the work under this Contract is to be done, right-of-ways for access to same, and such other lands which are designated on the Drawings for the use of the Contractor. Such lands and right-of-ways shall be adequate for the performance of the Contract. Any delay in the furnishing of these lands by the Owner shall be deemed proper cause for an equitable adjustment in both Contract price and time of completion.

The Contractor shall provide at his own expense and without liability to the Owner any additional land and access thereto that may be required for temporary construction facilities, or for storage of material.

SEC. 38 - CLEANING UP

The Contractor shall remove at his own expense from the Owner's property and from all public and private property all temporary structures, rubbish and waste materials resulting from his operations. This requirement shall not apply to property used for permanent disposal of rubbish or waste, materials in accordance with permission of such disposal granted to the Contractor by the Owner thereof.

SEC. 39 - ACCEPTANCE AND FINAL PAYMENT

(1) Upon receipt of written notice that the work is substantially completed or ready for final inspection and acceptance, the Engineer will promptly make such inspection, and when he finds the work acceptable under the Contract and the Contract fully performed or substantially completed he shall promptly issue a certificate, over his own signature, stating that the work required by this Contract has been completed or substantially completed and is accepted by him under the terms and conditions thereof, and the entire balance found to be due the Contractor, including the retained percentage, less a retention based on the Engineer's estimate of the fair value of the claims against the Contractor and the cost completing the incomplete or unsatisfactory items of work with specified amounts for each incomplete or defective item of work, is due and payable. The date of substantial completion of a project or specified area of a project is the date when the construction is sufficiently completed in accordance with the Contract Documents as modified by any change orders agreed to by the parties so that the Owner can occupy the project for the use for which it was intended.

(2) Before issuance of final payment, the Contractor, if required in the Special Conditions, shall certify in writing to the Engineer that all payrolls, material bills, and other indebtedness or liens, with the work have been paid, or otherwise satisfied, except that in case of disputed indebtedness or liens, if the Contract does not include a payment of all such disputed amounts, including all related costs and interest in connection with said disputed indebtedness or lien which the Owner may be compelled to pay upon adjudication.

(3) The making and acceptance of the final payment shall constitute a waiver of all Claims by the Owner, other than those arising from unsettled liens, from faulty work appearing within a one year guarantee period from date of acceptance, from the requirements of the Drawings and Specifications, or from the manufacturer's guarantees. It shall also constitute a waiver of all claims by the Contractor, except those previously made and still unsettled.

(4) If after the work has been substantially completed, full completion thereof is materially delayed through no fault of the Contractor's and the Engineer so certified, the Owner shall, upon certificate of the Engineer, and without terminating the contract, make payment of the balance due for that portion of the work fully completed and accepted. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

SEC. 40 - GENERAL GUARANTY

Neither the final certificate of payment nor any provision in the Contract Documents nor partial or entire occupancy of the premises by the Owner shall constitute an acceptance of work not done in accordance with the Contract Documents or relieve the Contractor of liability in respect to any express warranties or responsibility for faulty materials or workmanship. The Contractor shall guarantee all materials and equipment furnished and Work performed for a period of one (1) year from the date of Substantial Completion. The Contractor warrants and guarantees for a period of one (1) year from the date of Final Acceptance of the system that the completed system is free from all defects due to faulty materials or workmanship and the Contractor shall promptly make such corrections as may be necessary by reason of such defects including the repairs of any damage to other parts of the system or other work resulting from such defects.

The Owner will give notice of observed defects with reasonable promptness. In the event that the Contractor should fail to make such repairs, adjustments, or other work that may be made necessary by such defects, the Owner may do so and charge the Contractor the cost thereby incurred. The Performance Bond shall remain in full force and effect through the guarantee period.

SEC. 41 - SHOP DRAWINGS/SUBMITTALS/RFI's

The approval of (shop) drawings by the Engineer shall not be construed as a complete check, but will indicate only that the general method of construction and detailing is satisfactory. Approval of such drawings will not relieve the Contractor of the responsibility for any error which may exist as the contractor shall be responsible for the dimensions and design of adequate connections, details and satisfactory construction of all work.

Shop drawings and submittals will require a minimum of two (2) weeks for review.

Contractor generated RFI's will require a minimum of 48 hours for review and response.

SEC. 42 - TESTING

All testing authorized by the Engineer that meets specification requirements will be paid for by the Owner; however, tests on materials that fail will be billed to and paid for by the Contractor.

A $10,000 testing allowance shall be included in this project.

SEC. 43 - PAYMENT SCHEDULE

Where the Contract is based on a stipulated sum or Guaranteed Maximum Price, the Contractor shall submit to the Owner and to the Engineer, before the first Application for Payment, a schedule of values allocating the entire Contract Sum to the various portions of the Work which in the aggregate equals the total Contract Sum, divided so as to facilitate payments to Subcontractors, supported by such evidence of correctness as Engineer may direct or as required by Owner. This schedule, when approved by Engineer and Owner, shall be used to monitor the progress of the Work and as a basis for Certificates for Payment. All items with entered values will be transferred by Contractor to the "Application and Certificate for Payment," and shall include the latest approved Change Orders and Construction Change Directives. Change Order values and Construction Change Directives values shall be broken down to show the various subcontracts. The Application for Payment shall be on a form as provided by Engineer and approved by Owner. Each item shall show its total scheduled value, value of previous applications, value of the application, percentage completed, value completed, and value yet to be completed. All blanks and columns must be filled in, including every percentage complete figure. This schedule, unless objected to by the Engineer, shall be used as a basis for reviewing the Contractor's Applications for Payment

At least ten days before the date established for each progress payment, the Contractor shall submit to the Construction Manager an itemized Aplication for Payment prepared in accordance with the schedule of values, for completed portions of the Work. Such application shall be notarized, if required, and supported by such data substantiating the Contractor's right to payment as the Owner may require, such as copies of requisitions from Subcontractors and material suppliers, and shall reflect retainage if provided for in the Contract Documents. Any allowances included in the Application for Payment shall be separately itemized with supporting data attached. The Application for Payment shall be accompanied by a certification by an office of Contractor to the effect that:

There are no known mechanics', materialman's or laborers' liens or claims, or any other liens or claims, legal or equitable, contractual, statutory, or constitutional, outstanding or known to exist at the date of this Application; all due and payable bills with respect to the Work have been paid to date or are included in the amount requested in the current Application and there is no known basis for the filing of any mechanics', materialman's or laborers' lien or claim, or any other lien or claim, legal or equitable, contractual, statutory, or constitutional, on the Work; and waivers and releases from all Subcontractors, laborers, and material men for Work done and materials furnished have been obtained in such form as to constitute an effective waiver and release of all such liens and claims under the laws of the state within which the Project is located and shall be delivered to Construction Manager together with Contractor's waiver and release of liens and claims at the time of submission of the Application for Payment.

Such applications may include requests for payment on account of changes in the Work that have been properly authorized by Construction Change Directives, or by interim determinations of the Construction Manager, but not yet included in Change Orders

Application for Payment shall not include requests for payment for portions of the Work for which the Contractor does not inted to pay a Subcontractor or material supplier, unless such Work has been performed by others whom the Contractor intends to pay.

The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information and belief, be free and clear of liens, claims, security interests or encumbrances in favor of the Contracor, Subcontractors, material suppliers, or other persons or entities making a claim by reason of having provided labor, materials and equipment relating to the Work. The vesting of such title shall not impose any obligations on Owner or relieve Contractor of any of its obligations under the Contract, that Contractor shall remain responsible for damage to or loss of the Work, whether completed or under construction, until responsibility for the Work has been accepted by Owner in the manner set forth in the Contract Document.

SEC. 44 – RETAINAGE

The Owner shall retain 5% of each payment certified by the Engineer until final completion of the project.

SEC. 45 - INDEMNITY AND HOLD HARMLESS AGREEMENT

The CONTRACTOR will indemnify and hold harmless the Owner and the Engineer and their agents and employees from any and all claims, damages, losses and expenses, including attorneys' fees. Such attorney's fees shall include the duty to defend, arising out of or resulting from the performance of the WORK, and provided that any such claims, damage, loss or expenses attributable to bodily injury, sickness, death or to any injury to destruction of tangible property, including the loss of use resulting therefrom, is caused in whole or in part by any negligent or willful act or admission of the CONTRACTOR, SUBCONTRACTOR, anyone directly or indirectly employed by them or anyone for whose acts any of them may be liable. This provision is meant to comply with the Express Negligence Rule.

GENERAL CONSTRUCTION AND SPECIFICATIONS

INTENT OF PLANS AND SPECIFICATIONS:

The intent of the plans and specifications is to prescribe a complete work or improvement which the Contractor undertakes to do, in full compliance with the plans, specifications, special provisions, proposal and contract. The Contractor shall do all work as provided in the plans, specifications, special provisions, proposal and contract and shall do such additional work as may be considered necessary to complete the work in a satisfactory and acceptable manner. The Contractor shall furnish all labor, tools, materials, machinery, equipment and incidentals necessary to the prosecution of the work.

FINAL CLEAN-UP:

Upon the completion of the work and before acceptance and final payment will be made, the Contractor shall clean and remove from the site of the work, surplus and discarded materials, temporary structures and debris of every kind. He shall leave the site of the work in a neat and orderly condition equal to that which originally existed. Surplus and waste materials removed from the site of the work shall be disposed of at locations satisfactory to the Engineer. Grounds around any structure shall be dressed to final grade as shown on plans.

EXISTING STRUCTURES:

The plans show the locations of all known surface and sub-surface structures. However, the exact location of gas mains, water mains, conduits, sewers, etc., is unknown and the Owner assumed no responsibility for failure to show any or all of these structures on the plans or to show them in their exact location. It is mutually agreed that such failure will not be considered sufficient basis for claims for additional compensation for extra work or for increasing the pay quantities in any manner whatsoever, unless the obstruction encountered is such as necessitates, or requires the building of special work, provision for which is not made in the plans and proposal, in which case the provisions in these specifications for extra work shall apply.

COORDINATION OF PROJECT:

The plans, these specifications, the proposal, special provisions and all supplementary documents are intended to describe a complete work and are essential parts of the contract. A requirement occurring in any of them is binding. In case of discrepancies, figured dimensions shall govern over specifications; special provisions shall govern over both general and standard specifications; and plans and quantities shown on the plans shall govern over those shown in the proposal. The Contractor shall not take advantage of any apparent error or omission in the plans and specifications and the Engineer shall be permitted to make such corrections or interpretations as may be deemed necessary for the fulfillment of the intent of the plans and specifications. In the event the Contractor discovers an apparent error or discrepancy, he shall immediately call this to the attention of the Engineer.

COOPERATION OF CONTRACTOR:

The Contractor shall give to the work the consistent attention necessary to facilitate the progress thereof, and he shall cooperate with the Engineer, his inspectors, and with other contractors in every way possible.

WAGES:

All employees directly employed on the work shall be paid the prevailing wage scale for work of a similar character in this locality. Minimum wage scale is also included in these specifications.

MATERIALS - GENERAL:

The materials shall be the best procurable, as required by the plans, specifications and special provisions. The Contractor shall not start delivery of materials until the Engineer has approved the source of supply. Only materials conforming to these specifications shall be used in the work and such materials shall be used only after approval has been given by the Engineer and only so long as the quality of said materials remains equal to the requirements of the specifications. The Contractor shall furnish approved materials from other sources, if for any reason the product from any source at any time before

commencement or during the prosecution of the work proves unacceptable. After approval, any material which has become mixed with or coated with dirt or any other foreign substances during its delivery and handling will not be permitted to be used in the work.

MATERIAL STORAGE:

Any and all materials, such as cement, lime, mill work, or other materials or equipment subject to deterioration by exposure to weather or other factors, shall be stored in such a manner to protect them from deterioration or damage preceding the time they become a permanent part of final structures.

"OR EQUAL" CLAUSE:

Whenever a material, or article required is specified or shown on the plans by using the name of the proprietary product, or of a particular manufacturer or vendor, any material or article which will perform adequately the duties imposed by the general design will be considered equal and satisfactory, provided the material or article so proposed is of equal substance and function, and only after written approval by the Engineer.

CONSTRUCTION JOINTS:

Construction joints are to be kept to a minimum number, but when necessary they shall be designated in the plans or upon the approval of the Engineer. When pouring is stopped, dowels and 6-inch dumbbell Servicized polyvinyl plastic waterstops are to be inserted. Construction joints in walls shall be horizontal, unless otherwise allowed by the Engineer.

PAINTING:

All exposed metal surfaces of every nature, such as pumps, piping, general equipment, window frames, valves, fittings, gratings, etc., shall receive on rust inhibitive primer coat followed by two coats of machinery enamel. Colors for enamel finish coats to be selected by Owner or Engineer.

All wood surfaces are to receive one primer coat and two coats of first grade outside oil paint. Colors to be selected by Owner or Engineer.

Any specific structure, or portions of structure, which provides for occupancy or use by operations, or houses general equipment or supplies; whether structure is masonry or concrete; shall be painted inside and outside as directed by Engineer. An alkali resisting primer coat shall be first applied followed by two coats of first class oil paint especially prepared for concrete or masonry surfaces. Any questions regarding foregoing shall be clarified to his satisfaction by bidding Contractor before submitting a bid on project. Colors to be selected by Owner or Engineer.

HARDWARE:

All hardware must be strictly standard first grade, Contractor's choice, and approved by Engineer.

TELEPHONE CABLES:

Contractor shall notify Telephone Co. 24 hours in advance of work in the vicinity of buried telephone cables. No work shall be performed in vicinity of cable except in presence of telephone company representatives.

GAS LINES:

Contractor shall notify Gas Co. 24 hours in advance of work in the vicinity of gas distribution lines and the proper transmission company in the case of transmission gas lines.

CANAL CROSSINGS:

Construction methods and materials for canal crossings shall be in strict compliance with water County requirements. No work shall be started on canal right-of-ways until properly coordinated with the water County.

REQUIRED DOCUMENTS

HIDALGO COUNTY
PURCHASING DEPARTMENT
Bidder/Vendor Application

Complete in print or type. Please return this application to the Hidalgo County Purchasing Department thru Facsimile: (956) 318-2629 or (956) 292-7612 in person or regular mail to: 2812 S. Business Hwy. 281 , Edinburg, Texas 78539 or email: purchasing@co.hidalgo.tx.us

Company Name: **Telephone No. ( )**

dba Name:

Legal Name:

Mailing Address : **Fax No. ( )**

Physical Address:

City, State, Zip **Tax I.D. No.**

Remit to Address : **City, State, Zip**

E-Mail Address:

Representative(s) Name(s) & Title(s)

Type of Organization (check one): _____ **Individual** _____ **Partnership** _____ **Corporation** _____ **Non-Profit** _____ **LLC** _____ **Sole Proprietor** _____ **Other, Specify**

State Identification No._____ **(Please attached completed W-9 form with this application)**
Federal Identification No. or (if individual) SS No.

State of Incorporation: _____ **Date:**_____ **Other:**

Type of Business (check one): _____ **Manufacturer** _____ **Wholesaler** _____ **Retailer** _____ **Broker** _____ **Distributor** _____ **Service Organization** _____ **Other, Specify**

Name & Title of Person(s) Authorized to Sign Bids, Proposals, and/or Contracts:

Small and/or Disadvantaged Business Information (check application criteria)

Small Business:	**Disadvantaged Business (At Least 51% Ownership)**	
❒ Less than 125,000 annual gross receipt	❒ Black American	❒ Native American
❒ Less than 250,000 annual gross receipt	❒ Hispanic American	❒ Women
❒ Less than 499,000 annual gross receipt	❒ Asian Pacific American	❒ Other
❒ More than 500,000 annual gross receipt		

Have you been certified as a HUB or an MBE/WBE source?: ❒ Yes ❒ No

Indicate Certification No.(s):_____ **or are Certificate(s) attached?:** ❒ Yes ❒ No

What type of product(s) is/are solicited by your company?:

Would you like to be provided with specifications for procurements of such products?: ❒ Yes ❒ No

To Be Completed by the County: Rec'd by (Purchasing):_____ **Date Rec'd by (Purchasing):**

Date Forwarded Information to Auditor's Office:_____**Entry Date:** _____ **Vendor No.:**

Revised12/14/06

HISTORICALLY UNDERUTILIZED BUSINESS (HUB) DECLARATION

The primary objective of the Hidalgo County HUB Program is to ensure Historically Underutilized Businesses receive a fair and equal opportunity for participation in the County's procurement process. This fact holds true for Services (Professional & Non-Professional), Commodities, and Construction contracts and any subcontracts thereto. The program strongly encourages Prime Contractors to provide subcontracting opportunities to Certified Hub Contractors/Vendors. Our goal for HUB contractor/vendor participation, as well as HUB subcontractor participation is 30%. To be considered as a "Certified HUB Contractor/Vendor" the contractor/vendor must have been certified by, and hold a current and valid certification with any of the three agencies listed below.

Have you been Certified as a HUB or an MBE/WBE source?: ❒Yes ❒ No

If yes, by whom?: ❒ Texas Building & Procurement Commission ❒ Other_____

Indicate Certification No(s).:_____ or Are Certificate(s) Attached?: ❒ Yes ❒ No

---

LIST OF CERTIFIED HUB SUBCONTRACTORS

(Attach additional pages if necessary)

What percentage of the Bid, RFP,or RFQ is to be subcontracted with Certified HUB sources?: _____%
(List HUB Subcontractor information below).

HUB Subcontractor Name: _____ HUB Status:
Certifying Agency (Check all applicable): ❒Texas Building & Procurement Commission ❒ Other
Address: _____ City: _____ State: _____ Zip:
Contact Person: _____ Title: _____ Phone No.: ( )
Subcontract Amount: $_____ Description of Work to be Performed:

HUB Subcontractor Name: _____ HUB Status:
Certifying Agency (Check all applicable): ❒Texas Building & Procurement Commission ❒ Other
Address: _____ City: _____ State: _____ Zip:
Contact Person: _____ Title: _____ Phone No.: ( )
Subcontract Amount: $_____ Description of Work to be Performed:

HUB Subcontractor Name: _____ HUB Status:
Certifying Agency (Check all applicable): ❒Texas Building & Procurement Commission ❒ Other
Address: _____ City: _____ State: _____ Zip:
Contact Person: _____ Title: _____ Phone No.: ( )
Subcontract Amount: $_____ Description of Work to be Performed:

Form **W-9**
(Rev. January 2005)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

Give form to the requester. Do not send to the IRS.

Print or type
See Specific Instructions on page 2.

Name (as shown on your income tax return)

Business name, if different from above

Check appropriate box: ☐ Individual/ Sole proprietor ☐ Corporation ☐ Partnership ☐ Other ▶ ..... ☐ Exempt from backup withholding

Address (number, street, and apt. or suite no.) | Requester's name and address (optional)

City, state, and ZIP code

List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on Line 1 to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. *If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.*

Social security number
___ ___ ___ – ___ ___ – ___ ___ ___ ___

or

Employer identification number
___ ___ – ___ ___ ___ ___ ___ ___ ___

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. person (including a U.S. resident alien).

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. (See the instructions on page 4.)

Sign Here | **Signature of U.S. person ▶** | **Date ▶**

Purpose of Form

A person who is required to file an information return with the IRS, must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

U.S. person. Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee.

Note. *If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.*

For federal tax purposes you are considered a person if you are:

- An individual who is a citizen or resident of the United States,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States, or
- Any estate (other than a foreign estate) or trust. See Regulations sections 301.7701-6(a) and 7(a) for additional information.

Foreign person. If you are a foreign person, do not use Form W-9. Instead, use the appropriate Form W-8 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the recipient has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.

4. The type and amount of income that qualifies for the exemption from tax.

5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity not subject to backup withholding, give the requester the appropriate completed Form W-8.

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 28% of such payments (after December 31, 2002). This is called "backup withholding." Payments that may be subject to backup withholding include interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester, or

2. You do not certify your TIN when required (see the Part II instructions on page 4 for details), or

3. The IRS tells the requester that you furnished an incorrect TIN, or

4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or

5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See the instructions below and the separate Instructions for the Requester of Form W-9.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of $50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a $500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Name

If you are an individual, you must generally enter the name shown on your social security card. However, if you have changed your last name, for instance, due to marriage without informing the Social Security Administration of the name change, enter your first name, the last name shown on your social security card, and your new last name.

If the account is in joint names, list first, and then circle, the name of the person or entity whose number you entered in Part I of the form.

Sole proprietor. Enter your individual name as shown on your social security card on the "Name" line. You may enter your business, trade, or "doing business as (DBA)" name on the "Business name" line.

Limited liability company (LLC). If you are a single-member LLC (including a foreign LLC with a domestic owner) that is disregarded as an entity separate from its owner under Treasury regulations section 301.7701-3, enter the owner's name on the "Name" line. Enter the LLC's name on the "Business name" line. Check the appropriate box for your filing status (sole proprietor, corporation, etc.), then check the box for "Other" and enter "LLC" in the space provided.

Other entities. Enter your business name as shown on required Federal tax documents on the "Name" line. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on the "Business name" line.

Note. You are requested to check the appropriate box for your status (individual/sole proprietor, corporation, etc.).

Exempt From Backup Withholding

If you are exempt, enter your name as described above and check the appropriate box for your status, then check the "Exempt from backup withholding" box in the line following the business name, sign and date the form.

Generally, individuals (including sole proprietors) are not exempt from backup withholding. Corporations are exempt from backup withholding for certain payments, such as interest and dividends.

Note. If you are exempt from backup withholding, you should still complete this form to avoid possible erroneous backup withholding.

Exempt payees. Backup withholding is not required on any payments made to the following payees:

1. An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2),

2. The United States or any of its agencies or instrumentalities,

3. A state, the District of Columbia, a possession of the United States, or any of their political subdivisions or instrumentalities,

4. A foreign government or any of its political subdivisions, agencies, or instrumentalities, or

5. An international organization or any of its agencies or instrumentalities.

Other payees that may be exempt from backup withholding include:

6. A corporation,

7. A foreign central bank of issue,

8. A dealer in securities or commodities required to register in the United States, the District of Columbia, or a possession of the United States,

9. A futures commission merchant registered with the Commodity Futures Trading Commission,

10. A real estate investment trust,

11. An entity registered at all times during the tax year under the Investment Company Act of 1940,

12. A common trust fund operated by a bank under section 584(a),

13. A financial institution,

14. A middleman known in the investment community as a nominee or custodian, or

15. A trust exempt from tax under section 664 or described in section 4947.

The chart below shows types of payments that may be exempt from backup withholding. The chart applies to the exempt recipients listed above, 1 through 15.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt recipients except for 9
Broker transactions	Exempt recipients 1 through 13. Also, a person registered under the Investment Advisers Act of 1940 who regularly acts as a broker
Barter exchange transactions and patronage dividends	Exempt recipients 1 through 5
Payments over $600 required to be reported and direct sales over $5,000 [1]	Generally, exempt recipients 1 through 7 [2]

[1] See Form 1099-MISC, Miscellaneous Income, and its instructions.

[2] However, the following payments made to a corporation (including gross proceeds paid to an attorney under section 6045(f), even if the attorney is a corporation) and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees; and payments for services paid by a Federal executive agency.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-owner LLC that is disregarded as an entity separate from its owner (see *Limited liability company (LLC)* on page 2), enter your SSN (or EIN, if you have one). If the LLC is a corporation, partnership, etc., enter the entity's EIN.

Note. See the chart on page 4 for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local Social Security Administration office or get this form online at *www.socialsecurity.gov/online/ss-5.pdf*. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at *www.irs.gov/businesses/* and clicking on Employer ID Numbers under Related Topics. You can get Forms W-7 and SS-4 from the IRS by visiting *www.irs.gov* or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note. Writing "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: *A disregarded domestic entity that has a foreign owner must use the appropriate Form W-8.*

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if items 1, 4, and 5 below indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). Exempt recipients, see *Exempt From Backup Withholding* on page 2.

Signature requirements. Complete the certification as indicated in 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account [1]
3. Custodian account of a minor (Uniform Gift to Minors Act)	The minor [2]
4. a. The usual revocable savings trust (grantor is also trustee)	The grantor-trustee [1]
b. So-called trust account that is not a legal or valid trust under state law	The actual owner [1]
5. Sole proprietorship or single-owner LLC	The owner [3]
For this type of account:	**Give name and EIN of:**
6. Sole proprietorship or single-owner LLC	The owner [3]
7. A valid trust, estate, or pension trust	Legal entity [4]
8. Corporate or LLC electing corporate status on Form 8832	The corporation
9. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
10. Partnership or multi-member LLC	The partnership
11. A broker or registered nominee	The broker or nominee
12. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity

[1] List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

[2] Circle the minor's name and furnish the minor's SSN.

[3] You must show your individual name and you may also enter your business or "DBA" name on the second name line. You may use either your SSN or EIN (if you have one). If you are a sole proprietor, IRS encourages you to use your SSN.

[4] List first and circle the name of the legal trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.)

Note. If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons who must file information returns with the IRS to report interest, dividends, and certain other income paid to you, mortgage interest you paid, the acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA, or Archer MSA or HSA. The IRS uses the numbers for identification purposes and to help verify the accuracy of your tax return. The IRS may also provide this information to the Department of Justice for civil and criminal litigation, and to cities, states, and the District of Columbia to carry out their tax laws. We may also disclose this information to other countries under a tax treaty, to federal and state agencies to enforce federal nontax criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism.

You must provide your TIN whether or not you are required to file a tax return. Payers must generally withhold 28% of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to a payer. Certain penalties may also apply.

CONTRACTOR'S AFFIDAVIT
AS TO STATUS OF LIENS

STATE OF _____

COUNTY OF _____

Personally appeared before me, the undersigned Notary Public for said County and State, (Name of Individual), _____ (Title), of _____ (Prime Contractor), who being duly sworn by me states on oath that to the best of his knowledge and belief, except as listed below, the Releases and Waivers of Claim attached hereto include all Subcontractors and all suppliers of labor, products, and equipment provided by all persons who may have lien against the property of (Owner), located at _____ (Location of Project), arising out of the construction of improvements thereon.

Exceptions: (If none, write "NONE." Any exception listed shall be bonded by the Contractor to indemnify the Owner, and a copy of each such bond shall be attached hereto.)

1.

2.

3.

4.

_____
(Name of Company)

By: _____
Type/Print Name

Title: _____

Date: _____

Sworn to and subscribed before me

this _____ day of _____, 20_____.

_____
Notary Public

My Commission Expires:

RELEASE AND WAIVER OF CLAIMS BY SUBCONTRACTORS AND PRODUCT VENDORS

STATE OF _____

COUNTY OF _____

Personally appeared before me the undersigned authority in and for said County and State (Name of Individual), _____ (Title) of _____ (Company), who, being duly sworn by me states on oath that all bills for labor and products, sales tax, privilege tax or license, old age benefits tax, state and federal unemployment insurance and other liability have been paid in full, or that funds are in hand to discharge such liabilities when due, incurred in the performance of its Subcontract for furnishing labor or products in the construction of improvements at (Name of Project), _____ (Location), upon receipt of check in the amount $_____, the undersigned company waives any claims and releases _____ (Owner) (Contractor) from any rights or claims for debts due and owing by virtue of the furnishing of any labor or products and any lien therefore.

_____
(Name of Company)

By: _____
Type/Print Name

Title: _____

Date: _____

Sworn to and subscribed before me

this _____ day of _____, 20___.

_____
Notary Public

My Commission Expires: _____

AFFIDAVIT AND WAIVER OF LIEN
PRIME CONTRACTOR

STATE OF _____

COUNTY OF _____

Personally appeared before me, the undersigned Notary Public for said County and State (Name of Individual), _____ (Title) of _____ (Prime Contractor), who being duly sworn by me states on oath that all product suppliers and Subcontractors, payrolls, sales tax, privilege tax or license, old age benefits tax, state and federal unemployment insurance, and other liabilities incurred in the performance of _____ (Type of Contract) Contract for the construction of improvements at _____ (Name of Project), have been paid in full and that the above named Prime Contractor waives any claims and released (Owner) from any rights or claims (including lien rights) for debts due and owing by virtue of the furnishing of any labor, products, and supplies furnished for such improvements.

The above named Prime Contractor agrees to indemnify the Owner and save him harmless on account of any loss he may sustain in reliance upon this Affidavit and Waiver of Lien including the amount of any lien he may be compelled to pay all costs relating thereto and a reasonable attorney's fee.

_____
(Prime Contractor)

By: _____
Type/Print Name

Title: _____

Date: _____

Sworn to and subscribed before me

this the ___ day of _____, 20__.

_____
Notary Public

My Commission Expires: _____

WAGE RATES

SECTION 00820

PART 1. GENERAL

1.1 Requirements:

A. Pay not less than the minimum wage scale and benefits accepted within the local construction industry.

B. No claims for additional compensation will be considered by the Owner because of payments of wage rates in excess of the applicable rate contained in this contract.

C. All contractors and subcontractors shall be equal opportunity employers.

1.2 Workmanship Standards:

Comply with the recognized workmanship quality standards within the industry as applicable to each unit of work, including ANSI standards where applicable. Project workmen should be paid in accordance with accepted pay scales for similar experience level and work in the area. It is a requirement that each category of tradesman or installer performing the work be pre-qualified, to the extent of being familiar with the applicable and recognized quality standards for his category of work, and being capable of workmanship complying with those standards.

1.3 Payroll:

A. In compliance with Article 515a, Sections 2 and 3, and Article 5159d, Section II of the Revised Civil Statute referenced above, the Owner reserves the following rights:

1. To receive weekly payroll records.
2. To have the Contractor provide required earning statements to employees.

1.4 Minimum Wage Rates:

A. Pay prevailing basic wage listed, plus any applicable fringe benefits.

B. In no case shall wages be less than the federally determined prevailing (Davis-Bacon and Related Acts) wage rate, as issued by the U.S. Department of Labor and contained in the contract documents. In addition the successful proposer must ensure that employees and applicants for employment are not discriminated against because of race, sex, age or national origin.

HIDALGO COUNTY SHERIFF'S OFFICE
Hidalgo County Adult Detention Center and
Law Enforcement Facility Repairs and / or Replacement
Edinburg, TX

PREVAILING WAGE SCALE NOTICE

1. This determination of prevailing wages shall not be construed to prohibit the payment of more than the rates named. Under no conditions shall any laborer, workman or mechanic employed on this job be paid less than the minimum wage scale.

2. In execution of this contract, the contractor must comply with all applicable state and federal laws, including but not limited to laws concerned with labor, equal employment opportunity, safety, and minimum wage.

END OF SECTION

SUMMARY

SECTION 01100

PART 1 GENERAL

1.1 SUMMARY

B. Section Includes:

1. Contract description.
2. Contractor's use of site and premises.
3. Future work.
4. Work sequence.
5. Owner occupancy.
6. Permits.
7. Specification conventions.

1.2 CONTRACT DESCRIPTION

A. Work of the Project includes renovations at the HCSO ADC and LEC.

B. Work will be performed under a single prime contract.

C. Project location = Edinburg, Texas.

1.3 CONTRACTOR'S USE OF SITE AND PREMISES

A. Limit use of site and premises to allow:
   1. Owner occupancy.

B. Access to Site: Limited to locations shown in drawings.

C. Construction Operations: Limited to areas noted on Drawings.

   1. Noisy and Disruptive Operations (such as Use of Jack Hammers and Other Noisy Equipment): Not allowed in close proximity to existing building during regular hours of operation. Coordinate and schedule such operations with Owner to minimize disruptions.

D. Time Restrictions for Performing Interior work at ADC kitchen 7:00pm – 2:00am on working days. All other interior/exterior work to be performed on working days only.

E. Utility Outages and Shutdown:

1. Coordinate and schedule electrical and other utility outages with Owner.

2. Outages: Allowed only at previously agreed upon times.

F. Construction Plan: Before start of construction, submit three copies of construction plan regarding access to work, use of Site, and utility outages for acceptance by Owner. After acceptance of plan, construction operations shall comply with accepted plan unless deviations are accepted by Owner in writing.

1.7 WORK SEQUENCE

A. Construct Work in phases during construction period. Coordinate construction schedule and operations with Engineer and Owner.

B. Sequencing of Construction Plan: Before start of construction, submit three copies of construction plan regarding phasing of renovation and new Work for acceptance by Owner. After acceptance of plan, construction sequencing shall comply with accepted plan unless deviations are accepted by Owner in writing at least 7 days in advanced.

1.8 OWNER OCCUPANCY

A. The Owner will occupy the premises during the entire period of construction.

B. Cooperate with Owner to minimize conflict, and to facilitate Owner's operations.

C. Schedule the Work to accommodate Owner occupancy.

D. Temperature control in the facility must be maintained at all times.

1.9 PERMITS

A. Furnish all necessary permits for construction Work.

1.10 SPECIFICATION CONVENTIONS

A. These specifications are written in imperative mood and streamlined form. This imperative language is directed to the Contractor unless specifically noted otherwise. The words "shall be" are included by inference where a colon (:) is used within sentences or phrases.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION

PRICE AND PAYMENT PROCEDURES

SECTION 01200

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Allowances.

B. Contingency allowances.

C. Testing and inspection allowances.

D. Schedule of Values.

E. Application for Payment.

F. Change procedures.

G. Defect assessment.

H. Unit prices.

I. Alternates.

1.2 ALLOWANCES

A. Costs Included in Allowances: Cost of product to Contractor or Subcontractor, less applicable trade discounts; delivery to Site and applicable taxes unless stated otherwise in Allowance Schedule.

B. Costs Not Included in Allowances but Included in Contract Sum/Price: Product handling at Site including unloading, uncrating, and storage; protection of products from elements and from damage; and labor for installation and finishing unless stated otherwise in Allowance Schedule.

C. Architect/Engineer Responsibilities:
   1. Consult with Contractor for consideration and selection of products.
   2. Select products in consultation with Owner and transmit decision to Contractor.
   3. Prepare Change Order.

D. Contractor Responsibilities:
   1. Assist Architect/Engineer in selection of products, suppliers, and installers.
   2. Obtain proposals from suppliers and installers and offer recommendations.
   3. Upon notification of selection by Engineer, execute purchase agreement with designated supplier and installer.
   4. Arrange for and process Shop Drawings, Product Data, and Samples. Arrange for delivery.

5. Promptly inspect products upon delivery for completeness, damage, and defects. Submit claims for transportation damage.

E. Differences in costs will be adjusted by Supplemental Instructions.

F. Allowance Schedule:
1. Section 05120: Include the stipulated sum of $25,000 for purchase, delivery, and installation and delivery of steel support column as per structural drawings.
2. Section 03600: Include the stipulated sum of $5,000 for purchase, delivery and installation of grout repair at existing tilt walls.

1.3 CONTINGENCY ALLOWANCES

A. Include in Contract a stipulated sum/price of $210,000 for use upon Owner's instruction as a contingency allowance.

B. Contractor's costs for products, delivery, installation, labor, insurance, payroll, taxes, bonding, equipment rental, will be included in Supplemental Instructions authorizing expenditure of funds from this contingency allowance. No bonding, overhead, and profit will be included.

C. Funds will be drawn from contingency allowance only by Supplemental Instructions.

D. At closeout of Contract, funds remaining in contingency allowance will be credited to Owner by Change Order.

1.4 TESTING AND INSPECTION ALLOWANCES

A. Costs Included in Testing and Inspecting Allowances:
1. Cost of engaging testing and inspecting agency.
2. Execution of tests and inspecting.
3. Reporting results.

B. Costs Not Included in Testing and Inspecting Allowance but Included in Contract Sum/Price:
1. Costs of incidental labor and facilities required to assist testing or inspecting agency.
2. Costs of testing services used by Contractor separate from Contract Document requirements.
3. Costs of retesting upon failure of previous tests as determined by Architect/Engineer.

C. Payment Procedures:
1. Submit one copy of inspecting or testing firm's invoice with next Application for Payment.
2. Pay invoice upon approval by Architect/Engineer.

D. Testing and Inspecting Allowance Schedule:
1. Include sum of $10,000 for payment of inspecting laboratory services.

E. Differences in cost will be adjusted by Change Order.

1.5 SCHEDULE OF VALUES

A. Submit printed and electronic file schedule on AIA G702 - Continuation Sheet for G703 or similar document provided by Engineer.

B. Submit Schedule of Values as electronic file within 15 days after date of Owner-Contractor Agreement for approval by construction Project Manager.

C. Format: Use Table of Contents of this Project Manual. Identify each line item with number and title of major Specification Section. Also identify Site mobilization, bonds and insurance.

D. Include in each line item amount of allowances as specified in this Section. For unit cost allowances, identify quantities taken from Contract Documents multiplied by unit cost to achieve total for each item.

E. Include separately from each line item, direct proportional amount of Contractor's overhead and profit.

F. Revise schedule to list approved Change Orders with each Application for Payment.

1.6 APPLICATION FOR PAYMENT

A. Submit three copies AIA G702 - Application and Certificate for Payment and AIA G703 - Continuation Sheet for G702 or similar document provided by Engineer.

B. Content and Format: Use Schedule of Values for listing items in Application for Payment.

C. Submit updated construction schedule with each Application for Payment.

D. Payment Period: Submit at intervals stipulated in the Agreement.

E. Submit three copies of waivers requested by Owner.

F. Substantiating Data: When Architect/Engineer requires substantiating information, submit data justifying dollar amounts in question. Include the following with Application for Payment:

1. Partial release of liens from major Subcontractors and vendors.
2. Record Documents as specified in Section 01700 - Execution Requirements, for review by Owner, which will be returned to Contractor.
3. Affidavits attesting to off-Site stored products.
4. Construction Progress Schedule, revised and current as specified in Section 01330 - Submittal Procedures.

G. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:

1. List of subcontractors.

2. Schedule of Values.
3. Contractor's Construction Schedule (preliminary if not final).
4. Submittals Schedule (preliminary if not final).
5. List of Contractor's staff assignments.
6. List of Contractor's principal consultants.
7. Initial progress report.
8. Report of preconstruction conference.
9. Certificates of insurance and insurance policies.
10. Performance and payment bonds.

H. Final Payment Application: Submit final Application for Payment with releases and supporting documentation not previously submitted and accepted, including, but not limited, to the following:

1. Evidence of completion of Project closeout requirements.
2. Insurance certificates for products and completed operations where required and proof that taxes, fees, and similar obligations were paid.
3. Updated final statement, accounting for final changes to the Contract Sum.
4. "Contractor's Affidavit of Payment of Debts and Claims."
5. "Contractor's Affidavit of Release of Liens."
6. "Consent of Surety to Final Payment."
7. Evidence that claims have been settled.
8. Final meter readings for utilities, a measured record of stored fuel, and similar data as of date of Substantial Completion or when Owner took possession of and assumed responsibility for corresponding elements of the Work.
9. Final, liquidated damages settlement statement.

1.7 CHANGE PROCEDURES

A. Submittals: Submit name of individual who is authorized to receive change documents and is responsible for informing others in Contractor's employ or Subcontractors of changes to the Work.

B. Carefully study and compare Contract Documents before proceeding with fabrication and installation of Work. Promptly advise Architect/Engineer of any error, inconsistency, omission, or apparent discrepancy.

C. Requests for Interpretation (RFI) and Clarifications: Allot time in construction scheduling for liaison with Architect/Engineer; establish procedures for handling queries and clarifications.
   1. Use Standard - Request for Information document for requesting interpretations.
   2. Architect/Engineer may respond with a direct answer on the Request for Interpretation form.

D. Architect/Engineer will advise of minor changes in the Work not involving adjustment to Contract Sum/Price or Contract Time by issuing supplemental instructions.

E. Architect/Engineer may issue Proposal Request including a detailed description of proposed change with supplementary or revised Drawings and Specifications, a change in Contract Time for executing the change. Contractor will prepare and submit estimate within 7 days.

F. Stipulated Sum/Price Change Order: Based on Proposal Request and Contractor's fixed price quotation .

G. Unit Price Change Order: For Contract unit prices and quantities, the Change Order will be executed on a fixed unit price basis. For unit costs or quantities of units of that which are not predetermined, execute Work under Construction Change Directive. Changes in Contract Sum/Price or Contract Time will be computed as specified for Change Order.

H. Execution of Change Orders: Architect/Engineer will issue Change Orders for signatures of parties as provided in Conditions of the Contract.

I. Correlation of Contractor Submittals:
   1. Promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as separate line item and adjust Contract Sum/Price.
   2. Promptly revise Progress Schedules to reflect change in Contract Time, revise subschedules to adjust times for other items of Work affected by the change, and resubmit.
   3. Promptly enter changes in Record Documents.

1.8 DEFECT ASSESSMENT

A. Replace the Work, or portions of the Work, not conforming to specified requirements.

B. If, in the opinion of Engineer, it is not practical to remove and replace the Work, Engineer will direct appropriate remedy or adjust payment.

C. Individual Specification Sections may modify these options or may identify specific formula or percentage sum/price reduction.

D. Authority of Engineer to assess defects and identify payment adjustments is final.

E. Nonpayment for Rejected Products: Payment will not be made for rejected products for any of the following reasons:
   1. Products wasted or disposed of in a manner that is not acceptable.
   2. Products determined as unacceptable before or after placement.
   3. Products not completely unloaded from transporting vehicle.
   4. Products placed beyond lines and levels of the required Work.
   5. Products remaining on hand after completion of the Work.
   6. Loading, hauling, and disposing of rejected products.

1.9 UNIT PRICES

A. Authority: Measurement methods are delineated in individual Specification Sections.

B. Measurement methods delineated in individual Specification Sections complement criteria of this Section. In event of conflict, requirements of individual Specification Section govern.

C. Take measurements and compute quantities. Architect/Engineer will verify measurements and quantities.

D. Unit Quantities: Quantities and measurements indicated on Bid Form are for Contract purposes only. Actual quantities provided shall determine payment.
   1. When actual Work requires more or fewer quantities than those quantities indicated, provide required quantities at contracted unit sum/prices.

E. Payment Includes: Full compensation for required labor, products, tools, equipment, plant and facilities, transportation, services and incidentals; erection, application, or installation of item of the Work; overhead and profit.

F. Final payment for Work governed by unit prices will be made on basis of actual measurements and quantities accepted by Architect/Engineer multiplied by unit sum/price for Work incorporated in or made necessary by the Work.

G. Measurement of Quantities:
   1. Weigh Scales: Inspected, tested, and certified by applicable State of Texas weights and measures department within past year.
   2. Platform Scales: Of sufficient size and capacity to accommodate conveying vehicle.
   3. Metering Devices: Inspected, tested, and certified by applicable State of Texas department within past year.
   4. Measurement by Weight: Concrete reinforcing steel, rolled or formed steel, or other metal shapes will be measured by handbook weights. Welded assemblies will be measured by handbook or scale weight.
   5. Measurement by Volume: Measured by cubic dimension using mean length, width, and height or thickness.
   6. Measurement by Area: Measured by square dimension using mean length and width or radius.
   7. Linear Measurement: Measured by linear dimension, at item centerline or mean chord.
   8. Stipulated Sum/Price Measurement: Items measured by weight, volume, area, or linear means or combination, as appropriate, as completed item or unit of the Work.

H. Unit Price Schedule:

	Description	Unit Pricing
1.	Fire alarm Devices with rough-in (1 each)	_____
2.	Pull Station with Stopper II (1 each)	_____
3.	Audio Visual Device (1 each)	_____
4.	Visual Device (1 each)	_____
5.	Ceiling Smoke Detector (1 each)	_____
6.	Smoke Detector Guard (1 each)	_____
7.	Audio Visual Guard (1 each)	_____
8.	Duct Detector (1 each)	_____
9.	Fire Alarm Relay Module (1 each)	_____
10.	Fire Alarm Monitor Module (1 each)	_____
11.	Fire Alarm Notification Power Supply (1 each)	_____
12.	Fiber Optic cable per 100 ft six strand multimode 62.5 Micron Plenum Rated (1 each)	_____ _____
13.	A/C diffusers in Kitchen (1 each)	_____
14.	2 Welded ½" rods at (e) steel joist bottom chord, 20' lengths each-see detail (1 each)	_____ _____
15.	Replacement of wet roof areas identified by the Thermocore® Infrared Scan. 1) Description: Provide wet roof area replacement according to Section 07551 Modified Bitumen Membrane Roofing (Re-Cover).-See detail----- 2) Unit of Measurement: Cost per square foot.	
16.	Deteriorated existing metal roof decking repair or replacement. 1) Description: Provide deteriorated metal roof decking repair or replacement with new metal roofing to match existing according to Section 05310 Steel Deck Repair/Replacement (If Required). 2) Unit of Measurement: Per square foot.	_____
17.	Deteriorated existing wood blocking or nailer repair or replacement. 1) Description: Provide deteriorated wood blocking and nailer repair or replacement with new pressure-treated wood blocking or nailers according to Section 06105 Miscellaneous Carpentry. 2) Unit of Measurement: Per board foot.	_____

Supply Cost For: 2x4
2x6
2x8

1.10 ALTERNATES

A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in Owner-Contractor Agreement. The Owner-Contractor Agreement may identify certain Alternates to remain an Owner option for a stipulated period of time.

B. Coordinate related Work and modify surrounding Work. Description for each Alternate is recognized to be abbreviated but requires that each change shall be complete for scope of Work affected.
   1. Coordinate related requirements among Specification Sections as required.
   2. Include as part of each Alternate: Miscellaneous devices, appurtenances, and similar items incidental to or necessary for complete installation.
   3. Coordinate Alternate with adjacent Work and modify or adjust as necessary to ensure integration.

C. Schedule of Alternates:

Alternate No. 1:Remove and Replace existing Quarry Tile in ADC Kitchen.
Alternate No. 2: Remove and Replace existing Suspended Ceiling and Accessories in ADC Kitchen.
Alternate No. 3: Remove and Replace Three Cooler/ Freezer Doors and Components in ADC Kitchen.
Alternate No. 4: Remove and Replace Cooler/ Freezer Compressor.
Alternate No.5: Remove and Replace (6) Light poles on LEC parking lot.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION

PAYMENT PROCEDURES

SECTION 01290

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section specifies administrative and procedural requirements necessary to prepare and process Applications for Payment.

B. Related Sections include the following:

1. Division 1 Section "Allowances" for procedural requirements governing handling and processing of allowances.
2. Division 1 Section "Contract Modification Procedures" for administrative procedures for handling changes to the Contract.
3. Division 1 Section "Construction Progress Documentation" for administrative requirements governing preparation and submittal of Contractor's Construction Schedule and Submittals Schedule.

1.3 DEFINITIONS

A. Schedule of Values: A statement furnished by Contractor allocating portions of the Contract Sum to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.

1.4 SCHEDULE OF VALUES

A. Coordination: Coordinate preparation of the Schedule of Values with preparation of Contractor's Construction Schedule

1. Correlate line items in the Schedule of Values with other required administrative forms and schedules, including the following:

a. Application for Payment forms with Continuation Sheets.
b. Submittals Schedule.
c. Contractor's Construction Schedule.

PAYMENT PROCEDURES

2. Submit the Schedule of Values to Engineer at earliest possible date but no later than seven days before the date scheduled for submittal of initial Applications for Payment.

B. Format and Content: Use the Project Manual table of contents as a guide to establish line items for the Schedule of Values. Provide at least one line item for each Specification Section.

1. Identification: Include the following Project identification on the Schedule of Values:

    a. Project name and location.
    b. Name of Engineer.
    c. Owner's project number.
    d. Contractor's name and address.
    e. Date of submittal.

2. Submit draft of AIA Document G703 Continuation Sheets or similar format.
3. Arrange the Schedule of Values in tabular form with separate columns to indicate the following for each item listed:

    a. Related Specification Section or Division.
    b. Description of the Work.
    c. Name of subcontractor.
    d. Name of manufacturer or fabricator.
    f. Change Orders (numbers) that affect value.
    g. Dollar value.

        1) Percentage of the Contract Sum to nearest one-hundredth percent, adjusted to total 100 percent.

4. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports. Coordinate with the Project Manual table of contents. Provide several line items for principal subcontract amounts, where appropriate.
5. Round amounts to nearest whole dollar; total shall equal the Contract Sum.
6. Provide a separate line item in the Schedule of Values for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed.

    a. Differentiate between items stored on-site and items stored off-site. If specified, include evidence of insurance or bonded warehousing.

7. Provide separate line items in the Schedule of Values for initial cost of materials, for each subsequent stage of completion, and for total installed value of that part of the Work.
8. Each item in the Schedule of Values and Applications for Payment shall be complete. Include total cost and proportionate share of general overhead and profit for each item.

PAYMENT PROCEDURES

a. Temporary facilities and other major cost items that are not direct cost of actual work-in-place may be shown either as separate line items in the Schedule of Values or distributed as general overhead expense, at Contractor's option.

9. Schedule Updating: Update and resubmit the Schedule of Values before the next Applications for Payment when Change Orders or Construction Change Directives result in a change in the Contract Sum.

1.5 APPLICATIONS FOR PAYMENT

A. Each Application for Payment shall be consistent with previous applications and payments as certified by Engineer and paid for by Owner.

1. Initial Application for Payment, Application for Payment at time of Substantial Completion, and final Application for Payment involve additional requirements.

B. Payment Application Times: The date for each progress payment is indicated in the Agreement between Owner and Contractor. The period of construction Work covered by each Application for Payment is the period indicated in the Agreement.

C. Payment Application Forms: Use AIA Document G702 and AIA Document G703 or similar format
Continuation Sheets as form for Applications for Payment.

D. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Architect will return incomplete applications without action.

1. Entries shall match data on the Schedule of Values and Contractor's Construction Schedule. Use updated schedules if revisions were made.
2. Include amounts of Change Orders and Construction Change Directives issued before last day of construction period covered by application.

E. Transmittal: Submit 3 signed and notarized original copies of each Application for Payment to Architect by a method ensuring receipt within 24 hours. One copy shall include waivers of lien and similar attachments if required.

1. Transmit each copy with a transmittal form listing attachments and recording appropriate information about application.

PAYMENT PROCEDURES

F. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:

1. List of subcontractors.
2. Schedule of Values.
3. Contractor's Construction Schedule (preliminary if not final).
4. Submittals Schedule (preliminary if not final).
5. List of Contractor's staff assignments.
6. List of Contractor's principal consultants.
7. Initial progress report.
8. Report of preconstruction conference.
9. Certificates of insurance and insurance policies.
10. Performance and payment bonds.

H. Final Payment Application: Submit final Application for Payment with releases and supporting documentation not previously submitted and accepted, including, but not limited, to the following:

1. Evidence of completion of Project closeout requirements.
2. Insurance certificates for products and completed operations where required and proof that taxes, fees, and similar obligations were paid.
3. Updated final statement, accounting for final changes to the Contract Sum.
4. "Contractor's Affidavit of Payment of Debts and Claims."
5. "Contractor's Affidavit of Release of Liens."
6. "Consent of Surety to Final Payment."
7. Evidence that claims have been settled.
8. Final meter readings for utilities, a measured record of stored fuel, and similar data as of date of Substantial Completion or when Owner took possession of and assumed responsibility for corresponding elements of the Work.
9. Final, liquidated damages settlement statement.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION

ADMINISTRATIVE REQUIREMENTS

SECTION 01300

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Coordination and Project conditions.

B. Preconstruction meeting.

C. Site mobilization meeting.

D. Progress meetings.

E. Preinstallation meetings.

F. Closeout meeting.

G. Alteration procedures.

1.2 COORDINATION AND PROJECT CONDITIONS

A. Coordinate scheduling, submittals, and Work of various Sections of Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements.

B. Verify that utility requirements and characteristics of operating equipment are compatible with building utilities. Coordinate Work of various Sections having interdependent responsibilities for installing, connecting to, and placing operating equipment in service.

C. Coordinate space requirements, supports, and installation of mechanical and electrical Work indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and conduit as closely as practical; place runs parallel with lines of building. Use spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
   1. Coordination Drawings: Prepare as required to coordinate all portions of Work. Show relationship and integration of different construction elements that require coordination during fabrication or installation to fit in space provided or to function as intended. Indicate locations where space is limited for installation and access and where sequencing and coordination of installations are important.

D. Coordination Meetings: In addition to other meetings specified in this Section, hold coordination meetings with personnel and Subcontractors to ensure coordination of Work.

E. In finished areas conceal pipes, ducts, and wiring within construction. Coordinate locations of fixtures and outlets with finish elements.

F. Coordinate completion and clean-up of Work of separate Sections in preparation for Substantial Completion.

G. After Owner's occupancy of premises, coordinate access to Site for correction of defective Work and Work not complying with Contract Documents, to minimize disruption of Owner's activities.

1.3 PRECONSTRUCTION MEETING

A. Engineer will schedule and preside over meeting after Notice of Award.

B. Attendance Required: Architect/Engineer, Owner, Resident Project Representative, appropriate governmental agency representatives, Construction Project Manager, and Contractor.

C. Minimum Agenda:
1. Execution of Owner-Contractor Agreement.
2. Submission of executed bonds and insurance certificates.
3. Distribution of Contract Documents.
4. Submission of list of Subcontractors, list of products, schedule of values, and Progress Schedule.
5. Designation of personnel representing parties in Contract, and Architect/Engineer.
6. Communication procedures.
7. Procedures and processing of requests for interpretations, field decisions, field orders, submittals, substitutions, Applications for Payments, proposal request, Change Orders, and Contract closeout procedures.
8. Scheduling.
9. Critical Work sequencing.

D. Construction Project Manager: Record minutes and distribute copies to participants within seven days after meeting, with Architect/Engineer, Owner, and those affected by decisions made.

1.4 SITE MOBILIZATION MEETING

A. Construction Project Manager will schedule and preside over meeting at Project Site prior to Contractor occupancy.

B. Attendance Required: Architect/Engineer, Owner, Contractor, Contractor's superintendent, Construction Project Manager.

C. Minimum Agenda:
1. Use of premises by Owner and Contractor.
2. Owner's requirements.
3. Construction facilities and controls.
4. Temporary utilities.
5. Security and housekeeping procedures.
6. Schedules.
7. Procedures for testing.
8. Procedures for maintaining record documents.
9. Requirements for startup of equipment.

10. Inspection and acceptance of equipment put into service during construction period.

D. Construction Project Manager: Record minutes and distribute to participants within 7 days after meeting.

1.5 PROGRESS MEETINGS

A. Schedule and administer meetings throughout progress of the Work at maximum weekly intervals.

B. Construction Project Manager shall make arrangements for meetings, prepare agenda with copies for participants, and preside over meetings.

C. Attendance Required: Job superintendent, major Subcontractors and suppliers, and Architect/Engineer, Owner, as appropriate to agenda topics for each meeting.

D. Minimum Agenda:
1. Review minutes of previous meetings.
2. Review of Work progress.
3. Field observations, problems, and decisions.
4. Identification of problems impeding planned progress.
5. Review of submittal schedule and status of submittals.
6. Review of off-Site fabrication and delivery schedules.
7. Maintenance of Progress Schedule.
8. Corrective measures to regain projected schedules.
9. Planned progress during succeeding work period.
10. Coordination of projected progress.
11. Maintenance of quality and work standards.
12. Effect of proposed changes on Progress Schedule and coordination.
13. Other business relating to Work.

E. Construction Project Manager: Record minutes and distribute to participants within 7 days after meeting.

1.6 PREINSTALLATION MEETINGS

A. When required in individual Specification Sections, convene preinstallation meetings at Project Site before starting Work of specific Section.

B. Require attendance of parties directly affecting, or affected by, Work of specific Section.

C. Notify Architect/Engineer four days in advance of meeting date.

D. Prepare agenda and preside over meeting:
1. Review conditions of installation, preparation, and installation procedures.
2. Review coordination with related Work.

E. Record minutes and distribute to participants within seven days after meeting.

1.7 CLOSEOUT MEETING

A. Schedule Project closeout meeting with sufficient time to prepare for requesting Substantial Completion. Preside over meeting and be responsible for minutes.

B. Attendance Required: Contractor, Construction Project Manager, Major Subcontractors, Architect/Engineer, Owner, and others appropriate to agenda.

C. Notify Architect/Engineer four days in advance of meeting date.

D. Minimum Agenda:
   1. Start-up of facilities and systems.
   2. Operations and maintenance manuals.
   3. Testing, adjusting, and balancing.
   4. System demonstration and observation.
   5. Operation and maintenance instructions for Owner's personnel.
   6. Contractor's inspection of Work.
   7. Contractor's preparation of an initial "punch list."
   8. Procedure to request Architect/Engineer inspection to determine date of Substantial Completion.
   9. Completion time for correcting deficiencies.
   10. Inspections by authorities having jurisdiction.
   11. Certificate of Occupancy and transfer of insurance responsibilities.
   12. Partial release of retainage.
   13. Final cleaning.
   14. Preparation for final inspection.
   15. Closeout Submittals:
      a. Project record documents.
      b. Operating and maintenance documents.
      c. Operating and maintenance materials.
      d. Affidavits.
   16. Final Application for Payment.
   17. Contractor's demobilization of Site.
   18. Maintenance.

E. Record minutes and distribute copies to participants within 7 days after meeting.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION

3.1 ALTERATION PROCEDURES

A. Entire facility will be occupied for normal operations during progress of construction. Cooperate with Owner in scheduling operations to minimize conflict and to permit continuous usage.
   1. Perform Work not to interfere with operations of occupied areas.

2. Keep utility and service outages to a minimum and perform only after written approval of Owner.
3. Indoor temperature control must be maintained at all times.
4. Clean Owner-occupied areas daily. Clean spillage, overspray, and heavy collection of dust in Owner-occupied areas immediately.

B. Materials: As specified in product Sections; match existing products with new [**and salvaged**] products for patching and extending Work.

C. Employ skilled and experienced installer to perform alteration and renovation Work.

D. Cut, move, or remove items as necessary for access to alterations and renovation Work. Replace and restore at completion. Comply with Section 01700 - Execution Requirements.

E. Remove unsuitable material not marked for salvage, including rotted wood, corroded metals, and deteriorated masonry and concrete. Replace materials as specified for finished Work.

F. Remove debris and abandoned items from area and from concealed spaces.

G. Prepare surface and remove surface finishes to permit installation of new Work and finishes.

H. Close openings in exterior surfaces to protect existing Work from weather and extremes of temperature and humidity.

I. Remove, cut, and patch Work to minimize damage and to permit restoring products and finishes to original condition.

J. Refinish existing visible surfaces to remain in renovated rooms and spaces, to renewed condition for each material, with neat transition to adjacent finishes.

K. Where new Work abuts or aligns with existing Work, provide smooth and even transition. Patch Work to match existing adjacent Work in texture and appearance.

END OF SECTION

CONSTRUCTION PROGRESS SCHEDULES

SECTION 01323

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Submittals.

B. Quality assurance.

C. Format for network analysis schedules.

D. Network analysis schedules.

E. Bar chart schedules.

F. Review and evaluation.

G. Updating schedules.

H. Distribution.

1.2 SUBMITTALS

A. Within 10 days after date of Owner-Contractor Agreement**,** submit proposed preliminary network diagram defining planned operations for first **60** days of Work, with general outline for remainder of Work.

B. Participate in review of preliminary and complete network diagrams jointly with Architect/Engineer.

C. Within 20 days after joint review of proposed preliminary network diagram, submit draft of proposed complete network diagram for review. Include written certification that major Subcontractors have reviewed and accepted proposed schedule.

D. Within 10 days after joint review, submit complete network analysis consisting of network diagrams and mathematical analyses.

E. Submit updated network schedules every 14 days.

F. Any changes to schedule must be submitted at least 7 days in advance.

G. Post as electronic file to Project Team.

H. Submit network schedules under transmittal letter form specified in Section 01330 - Submittal Procedures.

I. Schedule Updates:
1. Overall percent complete, projected and actual.
2. Completion progress by listed activity and sub activity, to within **five working** days prior to submittal.
3. Changes in Work scope and activities modified since submittal.
4. Delays in submittals or resubmittals, deliveries, or Work.
5. Adjusted or modified sequences of Work.
6. Other identifiable changes.
7. Revised projections of progress and completion.

J. Narrative Progress Report:
1. Submit with each monthly submission of Progress Schedule.
2. Summary of Work completed during the past period between reports.
3. Work planned during the next period.
4. Explanation of differences between summary of Work completed and Work planned in previously submitted report.
5. Current and anticipated delaying factors and estimated impact on other activities and completion milestones.
6. Corrective action taken or proposed.

1.3 QUALITY ASSURANCE

A. Scheduler: Contractor's personnel specializing in CPM scheduling with two years' minimum experience in scheduling construction work of complexity comparable to the Project and having use of computer facilities capable of delivering detailed graphic printout within 48 hours of request.

B. Contractor's Administrative Personnel: 2 years' minimum experience in using and monitoring CPM schedules on comparable Projects.

1.4 FORMAT FOR NETWORK ANALYSIS SCHEDULE

A. Listings: Reading from left to right, in ascending order for each activity. Identify each activity with applicable Specification Section number.

B. Scale and Spacing: To allow for notations and revisions.

1.5 NETWORK ANALYSIS SCHEDULES

A. Prepare network analysis diagrams and supporting mathematical analyses using critical path method.

B. Illustrate order and interdependence of activities and sequence of Work; how start of given activity depends on completion of preceding activities, and how completion of activity may restrain start of subsequent activities.

C. Illustrate complete sequence of construction by activity, identifying Work of separate stages. Indicate dates for submittals and return of submittals; dates for procurement and delivery of critical products; and dates for installation and provision for testing. Include legend for symbols and abbreviations used.

D. Mathematical Analysis: Tabulate each activity of detailed network diagrams using calendar dates, and identify for each activity:
   1. Preceding and following event numbers.
   2. Activity description.
   3. Estimated duration of activity, in maximum **15**-day intervals. Status of critical activities.
   4. Earliest start date.
   5. Earliest finish date.
   6. Actual start date.
   7. Actual finish date.
   8. Latest start date.
   9. Latest finish date.
   10. Total and free float; accrue float time to Owner and to Owner's benefit.
   11. Monetary value of activity, keyed to Schedule of Values.
   12. Percentage of activity completed.
   13. Responsibility.

E. Analysis Program: Capable of compiling monetary value of completed and partially completed activities, of accepting revised completion dates, and of recomputing of scheduled dates and float.

F. Required Sorts: List activities in sorts or groups:
   1. By preceding Work item or event number from lowest to highest.
   2. By longest float, then in order of early start.
   3. By responsibility in order of earliest possible start date.
   4. In order of latest allowable start dates.
   5. In order of latest allowable finish dates.
   6. Contractor's periodic payment request sorted by Schedule of Values list.
   7. List of basic input data-generating report.
   8. List of activities on critical path.

G. Prepare subschedules for each stage of Work and Sequencing of Construction Plan identified in Section 01100 – Summary.

H. Coordinate contents with Schedule of Values in Section 01330 - Submittal Procedures.

1.6 BAR CHART SCHEDULES

A. Format: Bar chart Schedule, to include at least:

1. Identification and listing in chronological order of those activities reasonably required to complete the Work, including:

    a. Subcontract Work.
    b. Major equipment design, fabrication, factory testing, and delivery dates including required lead times.
    c. Move-in and other preliminary activities.
    d. Equipment and equipment system test and startup activities.
    e. Project closeout and cleanup.
    f. Work sequences, constraints, and milestones.

2. Listings identified by Specification Section number.
3. Identification of the following:

    a. Horizontal time frame by year, month, and week.
    b. Duration, early start, and completion for each activity and subactivity.
    c. Critical activities and Project float.
    d. Subschedules to further define critical portions of Work.

1.7 REVIEW AND EVALUATION

A. Participate in joint review and evaluation of schedules with Architect/Engineer at each submittal.

B. Evaluate Project status to determine Work behind schedule and Work ahead of schedule.

C. After review, revise schedules incorporating results of review, and resubmit within 10 days.

1.8 UPDATING SCHEDULES

A. Maintain schedules to record actual start and finish dates of completed activities.

B. Indicate progress of each activity to date of revision, with projected completion date of each activity. Update schedules to depict current status of Work.

C. Identify activities modified since previous submittal, major changes in Work, and other identifiable changes.

D. Upon approval of a Change Order, include the change in the next schedule submittal.

E. Indicate changes required to maintain Date of Substantial Completion.

F. Submit sorts as required to support recommended changes.

G. Prepare narrative report to define problem areas, anticipated delays, and impact on schedule. Report corrective action taken or proposed and its effect including effects of changes on schedules of separate Contractors.

1.9 DISTRIBUTION

A. Following joint review, distribute copies of updated schedules to Contractor's Project site file, to Subcontractors, suppliers, Architect/Engineer, Owner.

B. Instruct recipients to promptly report, in writing, problems anticipated by projections shown in schedules.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION

SUBMITTAL PROCEDURES

SECTION 01330

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Definitions.

B. Submittal procedures.

C. Construction progress schedules.

D. Proposed product list.

E. Product data.

F. Use of electronic CAD files of Project Drawings.

G. Shop Drawings.

H. Samples.

I. Other submittals.

J. Design data.

K. Test reports.

L. Certificates.

M. Manufacturer's instructions.

N. Manufacturer's field reports.

O. Erection Drawings.

P. Construction photographs.

Q. Contractor review.

R. Architect/Engineer review.

1.2 DEFINITIONS

A. Action Submittals: Written and graphic information and physical samples that require Architect/Engineer's and Construction Project Manager's responsive action.

B. Informational Submittals: Written and graphic information and physical Samples that do not require Architect/Engineer's and Construction Project Manager's responsive action. Submittals may be rejected for not complying with requirements.

1.3 SUBMITTAL PROCEDURES

A. Transmit each submittal with Transmittal Letter.

B. Identify: Project, Contractor, Subcontractor and supplier, pertinent Drawing and detail number, and Specification Section number appropriate to submittal.

C. Apply Contractor's stamp, signed or initialed, certifying that review, approval, verification of products required, field dimensions, adjacent construction Work, and coordination of information is according to requirements of the Work and Contract Documents.

D. Schedule submittals to expedite Project, and deliver to Engineer at business address. Coordinate submission of related items.

E. For each submittal for review, allow 15 days excluding delivery time to and from Contractor.

F. Identify variations in Contract Documents and product or system limitations that may be detrimental to successful performance of completed Work.

G. Allow space on submittals for Contractor and Architect/Engineer review stamps.

H. When revised for resubmission, identify changes made since previous submission.

I. Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report inability to comply with requirements.

J. Submittals not requested will not be recognized nor processed.

K. Incomplete Submittals: Architect/Engineer will not review. Complete submittals for each item are required. Delays resulting from incomplete submittals are not the responsibility of Architect/Engineer.

1.4 CONSTRUCTION PROGRESS SCHEDULES

A. Comply with Section 01323 - Construction Progress Schedules.

1.5 PROPOSED PRODUCT LIST

A. Within 15 days after date of Owner-Contractor Agreement, submit list of major products proposed for use, with name of manufacturer, trade name, and model number of each product.

B. For products specified only by reference standards, indicate manufacturer, trade name, model or catalog designation, and reference standards.

1.6 PRODUCT DATA

A. Product Data: Action Submittal: Submit to Architect/Engineer for review for assessing conformance with information given and design concept expressed in Contract Documents.

B. Submit number of copies Contractor requires, plus two copies Engineer will retain.

C. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.

D. Indicate product utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.

E. After review, produce copies and distribute according to "Submittal Procedures" Article and for record documents described in Section 01700 - Execution Requirements.

1.7 SHOP DRAWINGS

A. Shop Drawings: Action Submittal: Submit to Architect/Engineer for assessing conformance with information given and design concept expressed in Contract Documents.

B. Indicate special utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.

C. When required by individual Specification Sections, provide Shop Drawings signed and sealed by a professional Engineer responsible for designing components shown on Shop Drawings.
   1. Include signed and sealed calculations to support design.
   2. Submit Shop Drawings and calculations in form suitable for submission to and approval by authorities having jurisdiction.
   3. Make revisions and provide additional information when required by authorities having jurisdiction.

D. Submit number of opaque reproductions Contractor requires, plus **two** copies Engineer will retain.

E. After review, produce copies and distribute according to "Submittal Procedures" Article and for record documents described in Section 01700 - Execution Requirements.

1.8 SAMPLES

A. Samples: Action Submittal: Submit to Architect/Engineer for assessing conformance with information given and design concept expressed in Contract Documents.

B. Samples for Selection as Specified in Product Sections:
   1. Submit to Architect/Engineer for aesthetic, color, and finish selection.
   2. Submit Samples of finishes, textures, and patterns for Architect/Engineer selection.

C. Submit Samples to illustrate functional and aesthetic characteristics of products, with integral parts and attachment devices. Coordinate Sample submittals for interfacing work.

D. Include identification on each Sample, with full Project information.

E. Submit number of Samples specified in individual Specification Sections; Engineer will retain one Sample.

F. Reviewed Samples that may be used in the Work are indicated in individual Specification Sections.

G. Samples will not be used for testing purposes unless specifically stated in Specification Section.

H. After review, produce copies and distribute according to "Submittal Procedures" Article and for record documents described in Section 01700 - Execution Requirements.

1.9 OTHER SUBMITTALS

A. Closeout Submittals: Comply with Section 01700 - Execution Requirements.

B. LEED Submittals: Comply with Section 01351 - Sustainable Project Requirements.

C. Permits: Within 15 days after date of Owner-Contractor Agreement, submit a list of permits and licenses to be obtained, identifying the granting agency and the required date of permit submittal.

1.10 DESIGN DATA

A. Informational Submittal: Submit data for Architect/Engineer's knowledge as Contract administrator or for Owner.

B. Submit information for assessing conformance with information given and design concept expressed in Contract Documents.

1.11 TEST REPORTS

A. Informational Submittal: Submit reports for Architect/Engineer's knowledge as Contract administrator or for Owner.

B. Submit test reports for information for assessing conformance with information given and design concept expressed in Contract Documents.

1.12 CERTIFICATES

A. Informational Submittal: Submit certification by manufacturer, installation/application Subcontractor, or Contractor to Architect/Engineer, in quantities specified for Product Data.

B. Indicate material or product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.

C. Certificates may be recent or previous test results on material or product but must be acceptable to Architect/Engineer.

1.13 MANUFACTURER'S INSTRUCTIONS

A. Informational Submittal: Submit manufacturer's installation instructions for Architect/Engineer's knowledge as Contract administrator or for Owner.

B. Submit printed instructions for delivery, storage, assembly, installation, startup, adjusting, and finishing, to Architect/Engineer in quantities specified for Product Data.

C. Indicate special procedures, perimeter conditions requiring special attention, and special environmental criteria required for application or installation.

1.14 MANUFACTURER'S FIELD REPORTS

A. Informational Submittal: Submit reports for Architect/Engineer's knowledge as Contract administrator or for Owner.

B. Submit report within 5 days of observation to Architect/Engineer for information.

C. Submit reports for information for assessing conformance with information given and design concept expressed in Contract Documents.

1.15 ERECTION DRAWINGS

A. Informational Submittal: Submit Drawings for Architect/Engineer's knowledge as Contract administrator or for Owner.

B. Submit Drawings for information assessing conformance with information given and design concept expressed in Contract Documents.

C. Data indicating inappropriate or unacceptable Work may be subject to action by Architect/Engineer or Owner.

1.16 CONSTRUCTION PHOTOGRAPHS

A. Provide photographs of construction throughout progress of Work produced by an experienced photographer acceptable to Architect/Engineer.

B. Twice monthly submit photographs.

C. Digital Images: Deliver complete set of digital image electronic files on CD-ROM to Owner with Project record documents. Identify electronic media with date photographs were taken. Submit images that have same aspect ratio as sensor, uncropped.
   1. Digital Images: Uncompressed TIFF format, produced by digital camera with minimum sensor size of 4.0 megapixels, and image resolution of not less than 1024 by 768 pixels.
   2. Date and Time: Include date and time in filename for each image.

1.17 CONTRACTOR REVIEW

A. Review for compliance with Contract Documents and approve submittals before transmitting to Engineer.

B. Contractor: Responsible for:
   1. Determination and verification of materials including manufacturer's catalog numbers.
   2. Determination and verification of field measurements and field construction criteria.
   3. Checking and coordinating information in submittal with requirements of Work and of Contract Documents.
   4. Determination of accuracy and completeness of dimensions and quantities.
   5. Confirmation and coordination of dimensions and field conditions at Site.
   6. Construction means, techniques, sequences, and procedures.
   7. Safety precautions.
   8. Coordination and performance of Work of all trades.

C. Stamp, sign or initial, and date each submittal to certify compliance with requirements of Contract Documents.

D. Do not fabricate products or begin Work for which submittals are required until approved submittals have been received from Architect/Engineer.

1.18 ARCHITECT/ENGINEER REVIEW

A. Do not make "mass submittals" to Architect/Engineer. "Mass submittals" are defined as six or more submittals or items in one day or **15** or more submittals or items in one week. If "mass submittals" are received, Architect/Engineer's review time stated above will be extended as necessary to perform proper review. Architect/Engineer will review "mass submittals" based on priority determined by Architect/Engineer after consultation with Owner and Construction Project Manager.

B. Informational submittals and other similar data are for Architect/Engineer's information, do not require Architect/Engineer's responsive action, and will not be reviewed or returned with comment.

C. Submittals made by Contractor that are not required by Contract Documents may be returned without action.

D. Submittal approval does not authorize changes to Contract requirements unless accompanied by Change Order, or Construction Change Directive.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION

QUALITY REQUIREMENTS

SECTION 01400

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Quality control.

B. Tolerances.

C. References.

D. Labeling.

E. Mockup requirements.

F. Testing and inspection services.

G. Manufacturers' field services.

1.2 QUALITY CONTROL

A. Monitor quality control over suppliers, manufacturers, products, services, Site conditions, and workmanship, to produce Work of specified quality.

B. Comply with specified standards as the minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

C. Perform Work using persons qualified to produce required and specified quality.

D. Products, materials, and equipment may be subject to inspection by Architect/Engineer and Owner at place of manufacture or fabrication. Such inspections shall not relieve Contractor of complying with requirements of Contract Documents.

E. Supervise performance of Work in such manner and by such means to ensure that Work, whether completed or in progress, will not be subjected to harmful, dangerous, damaging, or otherwise deleterious exposure during construction period.

1.3 TOLERANCES

A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.

B. Comply with manufacturers' recommended tolerances and tolerance requirements in reference standards. When such tolerances conflict with Contract Documents, request clarification from Architect/Engineer before proceeding.

C. Adjust products to appropriate dimensions; position before securing products in place.

1.4 REFERENCES

A. For products or workmanship specified by association, trade, or other consensus standards, comply with requirements of standard except when more rigid requirements are specified or are required by applicable codes.

B. Conform to reference standard by date of issue current as of date of Contract Documents except where specific date is established by code.

C. Obtain copies of standards and maintain on Site when required by product Specification Sections.

D. When requirements of indicated reference standards conflict with Contract Documents, request clarification from Architect/Engineer before proceeding.

E. Neither contractual relationships, duties, or responsibilities of parties in Contract nor those of Architect/Engineer shall be altered from Contract Documents by mention or inference in reference documents.

1.5 LABELING

A. Attach label from agency approved by authorities having jurisdiction for products, assemblies, and systems required to be labeled by applicable code.

B. Label Information: Include manufacturer's or fabricator's identification, approved agency identification, and the following information, as applicable, on each label:
   1. Model number.
   2. Serial number.
   3. Performance characteristics.

C. Manufacturer's Nameplates, Trademarks, Logos, and Other Identifying Marks on Products: Not allowed on surfaces exposed to view in public areas, interior or exterior.

1.6 MOCK-UP REQUIREMENTS

A. Tests will be performed under provisions identified in this Section and identified in individual product Specification Sections.

B. Assemble and erect specified or indicated items with specified or indicated attachment and anchorage devices, flashings, seals, and finishes.

C. Accepted mockups shall be comparison standard for remaining Work.

D. Where mockup has been accepted by Architect/Engineer and is specified in product Specification Sections to be removed, remove mockup and clear area when directed to do so by Architect/Engineer.

1.7 TESTING AND INSPECTION SERVICES

A. Employ and pay for services of an independent testing agency or laboratory acceptable to Owner to perform specified testing.
   1. Before starting Work, submit testing laboratory name, address, and telephone number, and names of full-time Professional Engineer or specialist and responsible officer.
   2. Submit copy of report of laboratory facilities' inspection made by Materials Reference Laboratory of National Bureau of Standards during most recent inspection, with memorandum of remedies of deficiencies reported by inspection.

B. Independent firm will perform tests, inspections, and other services specified in individual Specification Sections and as required by Architect/Engineer.
   1. Laboratory: Authorized to operate at Project location.
   2. Laboratory Staff: Maintain full-time Professional Engineer or specialist on staff to review services.
   3. Testing Equipment: Calibrated at reasonable intervals with devices of an accuracy traceable to National Bureau of Standards or accepted values of natural physical constants.

C. Testing, inspections, and source quality control may occur on or off Project Site. Perform off-Site testing as required by Architect/Engineer or Owner.

D. Reports shall be submitted by independent firm to Architect/Engineer, Contractor, and authorities having jurisdiction, indicating observations and results of tests and compliance or noncompliance with Contract Documents.
   1. Submit final report indicating correction of Work previously reported as noncompliant.

E. Cooperate with independent firm; furnish samples of materials, design mix, equipment, tools, storage, safe access, and assistance by incidental labor as requested.
   1. Notify Architect/Engineer and independent firm 24 hours before expected time for operations requiring services.
   2. Make arrangements with independent firm and pay for additional Samples and tests required for Contractor's use.

F. Employment of testing agency or laboratory shall not relieve Contractor of obligation to perform Work according to requirements of Contract Documents.

G. Retesting or re-inspection required because of nonconformance with specified or indicated requirements shall be performed by same independent firm on instructions from Architect/Engineer. Payment for retesting or re-inspection will be charged to Contractor by deducting testing charges from Contract Sum/Price.

H. Agency Responsibilities:
   1. Test Samples of mixes submitted by Contractor.

2. Provide qualified personnel at Site. Cooperate with Architect/Engineer and Contractor in performance of services.
3. Perform indicated sampling and testing of products according to specified standards.
4. Ascertain compliance of materials and mixes with requirements of Contract Documents.
5. Promptly notify Architect/Engineer and Contractor of observed irregularities or nonconformance of Work or products.
6. Perform additional tests required by Architect/Engineer.
7. Attend preconstruction meetings and progress meetings.

I. Agency Reports: After each test, promptly submit copies of report to Architect/Engineer, Contractor, and authorities having jurisdiction. When requested by Architect/Engineer, provide interpretation of test results. Include the following:
1. Date issued.
2. Project title and number.
3. Name of inspector.
4. Date and time of sampling or inspection.
5. Identification of product and Specification Section.
6. Location in Project.
7. Type of inspection or test.
8. Date of test.
9. Results of tests.
10. Conformance with Contract Documents.

J. Limits on Testing Authority:
1. Agency or laboratory may not release, revoke, alter, or enlarge on requirements of Contract Documents.
2. Agency or laboratory may not approve or accept any portion of the Work.
3. Agency or laboratory may not assume duties of Contractor.
4. Agency or laboratory has no authority to stop the Work.

1.8 MANUFACTURER'S FIELD SERVICES

A. When specified in individual Specification Sections, require material or product suppliers or manufacturers to provide qualified staff personnel to observe Site conditions, conditions of surfaces and installation, quality of workmanship, startup of equipment, testing, adjusting, and balancing of equipment and commissioning as applicable, and to initiate instructions when necessary.

B. Submit qualifications of observer to Architect/Engineer 30 days in advance of required observations. Observer is subject to approval of Architect/Engineer.

C. Report observations and Site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturer's written instructions.

D. Refer to Section 01330 - Submittal Procedures, "Manufacturer's Field Reports" Article.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION

SECTION 01400 - QUALITY REQUIREMENTS- ROOFING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes administrative and procedural requirements for quality assurance and quality control.

B. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
   1. Specific quality-assurance and -control requirements for individual construction activities are specified in the Sections that specify those activities. Requirements in those Sections may also cover production of standard products.
   2. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and -control procedures that facilitate compliance with the Contract Document requirements.
   3. Requirements for Contractor to provide quality-assurance and -control services required by Owner, or authorities having jurisdiction are not limited by provisions of this Section.

1.3 DEFINITIONS

A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.

B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by Owner.

C. Preconstruction Testing: Tests and inspections that are performed specifically for the Project before products and materials are incorporated into the Work to verify performance or compliance with specified criteria.

D. Product Testing: Tests and inspections that are performed by an NRTL, an NVLAP, or a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with industry standards.

E. Source Quality-Control Testing: Tests and inspections that are performed at the source, i.e., plant, mill, factory, or shop.

F. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.

G. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.

H. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.

1. Using a term such as "carpentry" does not imply that certain construction activities must be performed by accredited or unionized individuals of a corresponding generic name, such as "carpenter." It also does not imply that requirements specified apply exclusively to trades-people of the corresponding generic name.

I. Experienced: When used with an entity, "experienced" means having successfully completed a minimum of five previous projects similar in size and scope to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

1.4 CONFLICTING REQUIREMENTS

A. General: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer uncertainties and requirements that are different, but apparently equal, to Owner for a decision before proceeding.

B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Owner for a decision before proceeding.

1.5 SUBMITTALS

A. Qualification Data: For testing agencies specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include proof of qualifications in the form of a recent report on the inspection of the testing agency by a recognized authority.

B. Reports: Prepare and submit certified written reports that include the following:
1. Date of issue.
2. Project title and number.
3. Name, address, and telephone number of testing agency.

4. Dates and locations of samples and tests or inspections.
5. Names of individuals making tests and inspections.
6. Description of the Work and test and inspection method.
7. Identification of product and Specification Section.
8. Complete test or inspection data.
9. Test and inspection results and an interpretation of test results.
10. Record of temperature and weather conditions at time of sample taking and testing and inspecting.
11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
12. Name and signature of laboratory inspector.
13. Recommendations on retesting and reinspecting.

C. Permits, Licenses, and Certificates: For Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

1.6 QUALITY ASSURANCE

A. General: Qualifications paragraphs in this Article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.

B. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.

C. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

D. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

E. Testing Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspecting indicated, as documented according to ASTM E 548; and with additional qualifications specified in individual Sections; and where required by authorities having jurisdiction, that is acceptable to authorities.
1. NRTL: A nationally recognized testing laboratory according to 29 CFR 1910.7.
2. NVLAP: A testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program.

F. Factory-Authorized Technical Representative Qualifications: An authorized, full-time technical specialist employee representative of manufacturer who is trained and approved by manufacturer to observe and inspect installation of roofing systems that are similar in material, design, and extent to those indicated for this Project.

1.7 QUALITY CONTROL

A. Owner Responsibilities: Where quality-control services are indicated as Owner's responsibility, Owner will engage a qualified testing agency to perform these services.
   1. Owner will furnish Contractor with names, addresses, and telephone numbers of testing agencies engaged and a description of types of testing and inspecting they are engaged to perform.
   2. Payment for these services will be made from testing and inspecting allowances, as authorized by Change Orders.
   3. Costs for retesting and re-inspecting construction that replaces or is necessitated by work that failed to comply with the Contract Documents will be charged to Contractor, and the Contract Sum will be adjusted by Change Order.

B. Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Unless otherwise indicated, provide quality-control services specified and those required by authorities having jurisdiction. Perform quality-control services required of Contractor by authorities having jurisdiction, whether specified or not.
   1. Where services are indicated as Contractor's responsibility, engage a qualified testing agency to perform these quality-control services.
      a. Contractor shall not employ same entity engaged by Owner, unless agreed to in writing by Owner.
   2. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspecting will be performed.
   3. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
   4. Testing and inspecting requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
   5. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.

C. Manufacturer's Field Services: Where indicated, engage a manufacturer-authorized technical representative to inspect field-assembled components. Report results in writing as specified in Division 1 Section "Submittal Procedures."

D. Retesting/Re-inspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction that replaced Work that failed to comply with the Contract Documents.

E. Testing Agency Responsibilities: Cooperate with Owner and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
   1. Notify Owner and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
   2. Determine the location from which test samples will be taken and in which in-situ tests are conducted.
   3. Conduct and interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
   4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Contractor.

5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
6. Do not perform any duties of Contractor.

F. Associated Services: Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
1. Access to the Work.
2. Incidental labor and facilities necessary to facilitate tests and inspections, including minor cutting and patching.
3. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.
4. Facilities for storage of test samples.
5. Security and protection for samples and for testing and inspecting equipment at Project site.

G. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and -control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.
1. Schedule times for tests, inspections, obtaining samples, and similar activities.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 TEST AND INSPECTION LOG

A. Prepare a record of tests and inspections. Include the following:
1. Date test or inspection was conducted.
2. Description of the Work tested or inspected.
3. Date test or inspection results were transmitted to Owner.
4. Identification of testing agency or special inspector conducting test or inspection.

B. Maintain log at Project site. Post changes and modifications as they occur. Provide access to test and inspection log for Owner's reference during normal working hours.

3.2 REPAIR AND PROTECTION

A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
1. Provide materials and comply with installation requirements specified in other Specification Sections. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible.

2. Comply with the Contract Document requirements for Division 1 Section "Cutting and Patching."

B. Protect construction exposed by or for quality-control service activities.

C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION 01400

TEMPORARY FACILITIES AND CONTROLS

SECTION 01500

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Temporary facilities under Construction Management Agreement.

B. Temporary Utilities:
1. Temporary electricity.
2. Temporary lighting for construction purposes.
3. Temporary heating.
4. Temporary cooling.
5. Temporary ventilation.
6. Communication services.
7. Temporary water service.
8. Temporary sanitary facilities.

C. Construction Facilities:
1. Field offices and sheds.
2. Vehicular access.
3. Parking.
4. Progress cleaning and waste removal.
5. Project identification.
6. Traffic regulation.
7. Fire-prevention facilities.

D. Temporary Controls:
1. Barriers.
2. Enclosures and fencing.
3. Security.
4. Water control.
5. Dust control.
6. Erosion and sediment control.
7. Noise control.
8. Pest and rodent control.
9. Pollution control.

E. Removal of utilities, facilities, and controls.

1.2 REFERENCES

A. ASTM International:
   1. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
   2. ASTM E 90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
   3. ASTM E 119 - Standard Test Methods for Fire Tests of Building Construction and Materials.

1.3 TEMPORARY FACILITIES UNDER CONSTRUCTION MANAGEMENT AGREEMENT

A. Temporary Provisions Provided by Contractor:
   1. Temporary barriers, barricades, covered walkways, fencing, exterior closures, and interior closures.
   2. Temporary field offices.
   3. Cleaning during construction.
   4. Access roads and approaches.
   5. Temporary elevator.
   6. Temporary sanitary facilities.
   7. Temporary heating and ventilating after enclosure.
   8. Temporary electrical service and distribution system for power and lighting.
   9. Temporary telephone and internet service.

B. Each Contractor: Coordinate provisions with Construction Project Manager and provide the following items as necessary for execution of the Work including associated costs:
   1. Construction aids.
   2. Temporary fire protection, dust control, erosion and sediment control, water control, noise control, and other necessary temporary controls.
   3. Temporary barriers, barricades, and similar devices as necessary for safety and protection of construction personnel and public.
   4. On Construction Manager's approval, may provide temporary field office including electrical service and temporary telephone.
   5. Temporary tree and plant protection.
   6. Temporary heating before building enclosure.
   7. Electrical service required in addition to temporary service and distribution provided by Construction Manager.
   8. Temporary provisions for protection of installed Work.

1.4 TEMPORARY ELECTRICITY

A. Provide and pay for power service required from utility source as needed for construction operation.

B. Complement existing power service capacity and characteristics as required for construction operations.

C. Provide power outlets with branch wiring and distribution boxes located as required for construction operations. Provide suitable, flexible power cords as required for portable construction tools and equipment.

D. Permanent convenience receptacles shall not be used during construction.

1.5 COMMUNICATION SERVICES

A. Telephone Service: Provide, maintain, and pay for telephone service to field office at time of Project mobilization and until completion of Work.

B. Facsimile Service: Provide, maintain, and pay for facsimile service including dedicated telephone line to field office at time of Project mobilization and until completion of Work.

1.6 TEMPORARY WATER SERVICE

A. Provide and pay for suitable quality water service as needed to maintain specified conditions for construction operations.

1.7 TEMPORARY SANITARY FACILITIES

A. Provide and maintain required facilities and enclosures. Existing facility use is not permitted. Provide facilities at time of Project mobilization.

1.8 FIELD OFFICES AND SHEDS

A. Designated existing spaces may be used for field offices.

B. Do not use existing facilities for field offices or for storage.

C. Field Office: Weathertight, with lighting, electrical outlets, heating, cooling and ventilating equipment, and equipped with sturdy furniture including conference table, drawing rack, filing cabinets, and drawing display table.

D. Provide space for Project meetings, with table and chairs to accommodate six persons.

E. Do not use permanent facilities for field offices or for storage.

F. Construction: Portable or mobile buildings, or buildings constructed with floors raised aboveground, securely fixed to foundations with steps and landings at entrance doors.
   1. Construction: Structurally sound, secure, weathertight enclosures for office and storage spaces. Maintain during progress of Work; remove enclosures at completion of Work.
   2. Thermal Resistance of Floors, Walls, and Ceilings: Compatible with occupancy and storage requirements.
   3. Exterior Materials: Weather-resistant,finished in colors acceptable to Architect/Engineer.

4. Interior Materials in Field Offices: Sheet-type materials for walls and ceilings, prefinished or painted; resilient floors and bases.
5. Interior Materials in Storage Sheds: As required to provide specified conditions for storage of products.

G. Environmental Control:
1. Heating, Cooling, and Ventilating for Offices: Automatic equipment to maintain comfort conditions.
2. Storage Spaces: Heating and ventilating as needed to maintain products according to Contract Documents; lighting for maintenance and inspection of products.

H. Storage Areas and Sheds: Size to storage requirements for products of individual Sections, allowing for access and orderly provision for maintenance and inspection of products to suit requirements in Section 01600 - Product Requirements.

I. Preparation: Fill and grade Sites for temporary structures sloped for drainage away from buildings.

J. Installation:
1. Install field office spaces ready for occupancy 15 days after date established by Notice to Proceed.
2. Employee Residential Occupancy: Not allowed on Owner's property.

K. Maintenance and Cleaning:
1. Daily janitorial services for field offices; periodic cleaning and maintenance for sheds and storage areas.
2. Maintain walks free of mud, water, snow, and the like.

L. Removal: At completion of Work remove buildings, foundations, utility services, and debris. Restore areas to same or better condition as original condition.

1.9 VEHICULAR ACCESS

A. Construct temporary all-weather access roads from public thoroughfares to serve construction area, of width and load-bearing capacity to accommodate unimpeded traffic for construction purposes.

B. Construct temporary bridges and culverts to span low areas and allow unimpeded drainage.

C. Extend and relocate vehicular access as Work progress requires and provide detours as necessary for unimpeded traffic flow.

D. Locate as indicated on Drawings and approved by Owner.

E. Provide unimpeded access for emergency vehicles. Maintain 20 foot wide driveways with turning space between and around combustible materials.

F. Provide and maintain access to fire hydrants and control valves free of obstructions.

G. Provide means of removing mud from vehicle wheels before entering streets.

H. Use existing on-Site roads for construction traffic.

1.10 PARKING

A. **Provide** temporary surface parking areas to accommodate construction personnel.

B. Locate as indicated on Drawings and approved by Owner.

C. If Site space is not adequate, provide additional off-Site parking.

D. Use of designated areas of existing on-Site streets and driveways used for construction traffic is permitted. Tracked vehicles are not allowed on paved areas.

E. Use of existing parking facilities used by construction personnel is not permitted.

F. Do not allow heavy vehicles or construction equipment in parking areas.

G. Do not allow vehicle parking on existing pavement.

H. Permanent Pavements and Parking Facilities:
1. Avoid traffic loading beyond paving design capacity. Tracked vehicles are not allowed.
2. Use of permanent parking structures is not permitted.

I. Maintenance:
1. Maintain traffic and parking areas in sound condition free of excavated material, construction equipment, products, mud, snow, ice, and the like.
2. Maintain existing and permanent paved areas used for construction; promptly repair breaks, potholes, low areas, standing water, and other deficiencies, to maintain paving and drainage in original condition.

J. Removal, Repair:
1. Remove temporary materials and at Substantial Completion.
2. Repair existing, permanent facilities damaged by use, to original condition.

K. Mud from Site vehicles: Provide means of removing mud from vehicle wheels before entering streets.

1.11 PROGRESS CLEANING AND WASTE REMOVAL

A. Maintain areas free of waste materials, debris, and rubbish. Maintain Site in clean and orderly condition.

B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, before enclosing spaces.

C. Broom and vacuum clean interior areas before starting surface finishing, and continue cleaning to eliminate dust.

D. Collect and remove waste materials, debris, and rubbish from Site weekly and dispose of off-Site.

E. Open free-fall chutes are not permitted. Terminate closed chutes into appropriate containers with lids.

1.12 PROJECT IDENTIFICATION

A. Project Identification Sign:
   1. One painted sign, 32 sq ft area, and bottom 6 feet aboveground.
   2. Content:
      a. Project number, title, logo, and name of Owner.
      b. Names and titles of authorities.
      c. Names and titles of Architect/Engineer and Consultants.
      d. Name of Prime Contractor.
   3. Graphic Design, Colors, and Style of Lettering: Designated by Architect/Engineer.

B. Design sign and structure to withstand 105 wind velocity.

C. Finishes, Painting: Adequate to withstand weathering, fading, and chipping for duration of construction.

D. Sign Materials:
   1. Structure and Framing: New wood structurally adequate.
   2. Sign Surfaces: Exterior grade plywood with medium-density overlay, minimum of **3/4** inches thick, standard large sizes to minimize joints.

E. Installation:
   1. Install Project identification sign within 15 days after date established by Notice to Proceed.
   2. Erect at designated location.
   3. Erect supports and framing on secure foundation, rigidly braced and framed to resist wind loadings.
   4. Install sign surface plumb and level, with butt joints. Anchor securely.
   5. Paint exposed surfaces of sign, supports, and framing.

F. Maintenance: Maintain clean signs and supports; repair deterioration and damage.

G. Removal: Remove signs, framing, supports, and foundations at completion of Project and restore area.

1.13 TRAFFIC REGULATION

A. Signs, Signals, and Devices:
   1. Post-Mounted and Wall-Mounted Traffic Control and Informational Signs: As approved by authorities having jurisdiction.
   2. Traffic Control Signals: As approved by local jurisdictions.
   3. Traffic Cones, Drums, Flares, and Lights: As approved by authorities having jurisdiction.
   4. Flag Person Equipment: As required by authorities having jurisdiction.

B. Flag Persons: Provide trained and equipped flag persons to regulate traffic when construction operations or traffic encroach on public traffic lanes.

C. Flares and Lights: Use flares and lights during hours of low visibility to delineate traffic lanes and to guide traffic.

D. Haul Routes:
   1. Consult with authorities having jurisdiction and establish public thoroughfares to be used for haul routes and Site access.
   2. Confine construction traffic to designated haul routes.
   3. Provide traffic control at critical areas of haul routes to regulate traffic and to minimize interference with public traffic.

E. Traffic Signs and Signals:
   1. Provide signs at approaches to Site and on Site, at crossroads, detours, parking areas, and elsewhere as needed to direct construction and affected public traffic.
   2. Provide, operate, and maintain **automatic** traffic control signals to direct and maintain orderly flow of traffic in areas under Contractor's control and areas affected by Contractor's operations.
   3. Relocate signs and signals as Work progresses, to maintain effective traffic control.

F. Removal:
   1. Remove equipment and devices at Substantial Completion.
   2. Repair damage caused by installation.
   3. Remove post settings to depth of 2 feet.

1.14 FIRE-PREVENTION FACILITIES

A. Prohibit smoking within buildings under construction and demolition. Designate area on Site where smoking is permitted. Provide approved ashtrays in designated smoking areas.

B. Establish fire watch for cutting, welding, and other hazardous operations capable of starting fires. Maintain fire watch before, during, and after hazardous operations until threat of fire does not exist.

C. Portable Fire Extinguishers: NFPA 10; 10-pound capacity, 4A-60B: C UL rating.
   1. Provide minimum of one fire extinguisher in every construction trailer and storage shed.

2. Provide minimum of one fire extinguisher on roof during roofing operations using heat-producing equipment.

1.15 ENCLOSURES AND FENCING

A. Construction: Commercial-grade chain-link fence.

B. Provide 6 foot high fence around construction Site; equip with vehicular of gates with locks.

C. Exterior Enclosures:
1. Provide temporary weathertight closure of exterior openings to accommodate acceptable working conditions and protection for products, to allow for temporary heating and maintenance of required ambient temperatures identified in individual Specification Sections, and to prevent entry of unauthorized persons. Provide access doors with self-closing hardware and locks.

D. Interior Enclosures:
1. Provide temporary partitions as indicated on Drawings to separate work areas from Owner-occupied areas, to prevent penetration of dust and moisture into Owner-occupied areas, and to prevent damage to existing materials and equipment.
2. Paint surfaces exposed to view from Owner-occupied areas.

1.16 SECURITY

A. Security Program:
1. Protect Work on existing premises from theft, vandalism, and unauthorized entry.
2. Initiate program in coordination with Owner's existing security system at Project mobilization.
3. Maintain program throughout construction period until Owner's acceptance precludes need for Contractor's security.

B. Entry Control:
1. Restrict entrance of persons and vehicles to Project Site.
2. Allow entrance only to authorized persons with proper identification.
3. Maintain log of workers and visitors and make available to Owner on request.
4. Owner will control entrance of persons and vehicles related to Owner's operations.

C. Personnel Identification:
1. Provide identification badge for each person authorized to enter premises.
2. Badge to Include: Personal photograph, name, expiration date, and employer logo.
3. Maintain list of accredited persons and submit copy to Owner on request.
4. Require return of badges at expiration of employment on the Work.

D. Restrictions:
1. Do not allow cellular phones on Site or photographs taken except by written approval of Owner.

2. Do no work on days indicated in Owner-Contractor Agreement.

1.17 WATER CONTROL

A. Grade Site to drain. Maintain excavations free of water. Provide, operate, and maintain necessary pumping equipment.

B. Protect Site from puddles or running water.

1.18 DUST CONTROL

A. Execute Work by methods that minimize raising dust from construction operations.

B. Provide positive means to prevent airborne dust from dispersing into atmosphere and into Owner-occupied areas.

1.19 EROSION AND SEDIMENT CONTROL

A. Plan and execute construction by methods to control surface drainage from cuts and fills from borrow and waste disposal areas. Prevent erosion and sedimentation.

B. Minimize surface area of bare soil exposed at one time.

C. Provide temporary measures including berms, dikes, drains, and other devices to prevent water flow.

D. Construct fill and waste areas by selective placement to avoid erosive surface silts and clays.

E. Periodically inspect earthwork to detect evidence of erosion and sedimentation. Promptly apply corrective measures.

1.20 NOISE CONTROL

A. Provide methods, means, and facilities to minimize noise and noise produced by construction operations.

1.21 PEST AND RODENT CONTROL

A. Provide methods, means, and facilities to prevent pests and insects from entering facility.

B. Provide methods, means, and facilities to prevent rodents from accessing or invading premises.

1.22 POLLUTION CONTROL

A. Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances and pollutants produced by construction operations.

B. Comply with pollution and environmental control requirements of authorities having jurisdiction.

1.23 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

A. Remove temporary utilities, equipment, facilities, and materials before Substantial Completion inspection.

B. Remove underground installations to minimum depth of 2 feet.

C. Clean and repair damage caused by installation or use of temporary Work.

D. Restore existing facilities used during construction to original condition. Restore permanent facilities used during construction to specified condition.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION

PRODUCT REQUIREMENTS

SECTION 01600

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Products.
B. Product delivery requirements.
C. Product storage and handling requirements.
D. Product options.
E. Equipment electrical characteristics and components.

1.2 PRODUCTS

A. At minimum, comply with specified requirements and reference standards.

B. Specified products define standard of quality, type, function, dimension, appearance, and performance required.

C. Furnish products of qualified manufacturers that are suitable for intended use. Furnish products of each type by single manufacturer unless specified otherwise. Confirm that manufacturer's production capacity can provide sufficient product, on time, to meet Project requirements.

D. Domestic Products: Except where specified otherwise, domestic products are required and interpreted to mean products mined, manufactured, fabricated, or produced in United States or its territories.

E. Do not use materials and equipment removed from existing premises except as specifically permitted by Contract Documents.

F. Furnish interchangeable components from same manufacturer for components being replaced.

1.3 PRODUCT DELIVERY REQUIREMENTS

A. Transport and handle products according to manufacturer's instructions.

B. Promptly inspect shipments to ensure products comply with requirements, quantities are correct, and products are undamaged.

C. Provide equipment and personnel to handle products; use methods to prevent soiling, disfigurement, or damage.

1.4 PRODUCT STORAGE AND HANDLING REQUIREMENTS

A. Store and protect products according to manufacturer's instructions.

B. Store products with seals and labels intact and legible.

C. Store sensitive products in weathertight, climate-controlled enclosures in an environment suitable to product.

D. For exterior storage of fabricated products, place products on sloped supports aboveground.

E. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.

F. Store loose granular materials on solid flat surfaces in well-drained area. Prevent mixing with foreign matter.

G. Provide equipment and personnel to store products; use methods to prevent soiling, disfigurement, or damage.

H. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

1.5 PRODUCT OPTIONS

A. Products Specified by Reference Standards or by Description Only: Products complying with specified reference standards or description.

B. Products Specified by Naming One or More Manufacturers: Products of one of manufacturers named and complying with Specifications; no options or substitutions allowed.

C. Products Specified by Naming One or More Manufacturers with Provision for Substitutions: Submit Request for Substitution for any manufacturer not named, according to Section 01630 - Product Substitution Procedures.

PART 2 PRODUCTS

2.1 EQUIPMENT ELECTRICAL CHARACTERISTICS AND COMPONENTS

A. Wiring Terminations: Furnish terminal lugs to match branch circuit conductor quantities, sizes, and materials indicated. Include lugs for terminal box.

PART 3 EXECUTION - Not Used

END OF SECTION

HIDALGO COUNTY SHERIFF'S OFFICE
Hidalgo County Adult Detention Center and
Law Enforcement Facility Repairs and / or Replacement
Edinburg, TX

SECTION 01600 - PRODUCT REQUIREMENTS- ROOFING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling; manufacturers' standard warranties on products; special warranties; product substitutions; and comparable products.

1.3 DEFINITIONS

A. Products: Items purchased for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.

1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature that is current as of date of the Contract Documents.
2. New Products: Items that have not previously been incorporated into another project or facility. Products salvaged or recycled from other projects are not considered new products.
3. Comparable Product: Product that is demonstrated and approved through submittal process, or where indicated as a product substitution, to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.

B. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.

C. Basis-of-Design Product Specification: Where a specific manufacturer's product is named and accompanied by the words "basis of design," including make or model number or other designation, to establish the significant qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics for purposes of evaluating comparable products of other named manufacturers.

1.4 SUBMITTALS

A. Product List: Submit a list, in tabular from, showing specified products. Include generic names of products required. Include manufacturer's name and proprietary product names for each product.
   1. Coordinate product list with Contractor's Construction Schedule and the Submittals Schedule.
   2. Completed List: Within 7 days after date of Notice of Award, submit 3 copies of completed product list. Include a written explanation for omissions of data and for variations from Contract requirements.
   3. Owner's Action: Owner will respond in writing to Contractor within 7 days of receipt of completed product list. Owner's response will include a list of unacceptable product selections and a brief explanation of reasons for this action. Owner's response, or lack of response, does not constitute a waiver of requirement to comply with the Contract Documents.

B. Substitution Requests: Submit 3 copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
   1. Substitution Request Form: Use CSI Form 13.1A or facsimile of form provided in this Project Manual.
   2. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
      a. Statement indicating why specified material or product cannot be provided.
      b. Detailed comparison of significant qualities of proposed substitution with those of the Work specified. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, and specific features and requirements indicated.
      c. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
      d. Samples, where applicable or requested.
      e. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners.
      f. Material test reports from a qualified independent testing agency indicating and interpreting test results for compliance with requirements indicated.
      g. Research/evaluation reports evidencing compliance with building code in effect for Project, from a model code organization acceptable to authorities having jurisdiction.
      h. Contractor's certification that proposed substitution complies with requirements in the Contract Documents and is appropriate for applications indicated.

   3. Owner's Action: If necessary, Owner will request additional information or documentation for evaluation within 7 days of receipt of a request for substitution. Owner will notify Contractor of acceptance or rejection of proposed substitution within 7 days of receipt of request, or 7 days of receipt of additional information or documentation, whichever is later.

a. Use product specified if Owner cannot make a decision on use of a proposed substitution within time allocated.

C. Comparable Product Requests: Submit three copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
1. Owner's Action: If necessary, Owner will request additional information or documentation for evaluation within one week of receipt of a comparable product request. Owner will notify Contractor of approval or rejection of proposed comparable product request within 7 days of receipt of request, or 7 days of receipt of additional information or documentation, whichever is later.
a. Use product specified if Owner cannot make a decision on use of a comparable product request within time allocated.

D. Basis-of-Design Product Specification Submittal: Comply with requirements in Division 1 Section "Submittal Procedures." Show compliance with requirements.

1.5 QUALITY ASSURANCE

A. Compatibility of Options: If Contractor is given option of selecting between two or more products for use on Project, product selected shall be compatible with products previously selected, even if previously selected products were also options.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft. Comply with manufacturer's written instructions.

B. Delivery and Handling:
1. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces.
2. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
3. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
4. Inspect products on delivery to ensure compliance with the Contract Documents and to ensure that products are undamaged and properly protected.

C. Storage:
1. Store products to allow for inspection and measurement of quantity or counting of units.
2. Store materials in a manner that will not endanger Project structure.
3. Store products that are subject to damage by the elements, under cover in a weather-tight enclosure above ground, with ventilation adequate to prevent condensation.
4. Store cementitious products and materials on elevated platforms.

5. Store foam plastic from exposure to sunlight, except to extent necessary for period of installation and concealment.
6. Comply with product manufacturer's written instructions for temperature, humidity, ventilation, and weather-protection requirements for storage.
7. Protect stored products from damage and liquids from freezing.

1.7 PRODUCT WARRANTIES

A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.
   1. Special Warranty: Written warranty required by or incorporated into the Contract Documents, either to extend time limit provided by manufacturer's warranty or to provide more rights for Owner.

B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution. Submit a draft for approval before final execution.
   1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.

C. Submittal Time: Comply with requirements in Division 1 Section "Closeout Procedures."

PART 2 - PRODUCTS

2.1 PRODUCT SELECTION PROCEDURES

A. General Product Requirements: Provide products that comply with the Contract Documents, that are undamaged and, unless otherwise indicated, that are new at time of installation.
   1. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
   2. Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other projects.
   3. Owner reserves the right to limit selection to products with warranties not in conflict with requirements of the Contract Documents.
   4. Where products are accompanied by the term "as selected," Owner will make selection.
   5. Where products are accompanied by the term "match sample," sample to be matched is Owner's.
   6. Descriptive, performance, and reference standard requirements in the Specifications establish "salient characteristics" of products.

B. Product Selection Procedures:
   1. Products: Where Specifications include a list of names of both products and manufacturers, provide one of the products listed that complies with requirements.

2. Manufacturers: Where Specifications include a list of manufacturers' names, provide a product by one of the manufacturers listed that complies with requirements.
3. Product Options: Where Specifications indicate that sizes, profiles, and dimensional requirements on Drawings are based on a specific product or system, provide the specified product or system. Comply with provisions in Part 2 "Product Substitutions" Article for consideration of an unnamed product or system.
4. Basis-of-Design Product: Where Specifications name a product and include a list of manufacturers, provide the specified product or a comparable product by one of the other named manufacturers. Drawings and Specifications indicate sizes, profiles, dimensions, and other characteristics that are based on the product named. Comply with provisions in Part 2 "Comparable Products" Article for consideration of an unnamed product by the other named manufacturers.
5. Visual Matching Specification: Where Specifications require matching an established Sample, select a product that complies with requirements and matches Owner's sample. Owner's decision will be final on whether a proposed product matches.
    a. If no product available within specified category matches and complies with other specified requirements, comply with provisions in Part 2 "Product Substitutions" Article for proposal of product.
6. Visual Selection Specification: Where Specifications include the phrase "as selected from manufacturer's colors, patterns, and textures" or a similar phrase, select a product that complies with other specified requirements.
    a. Standard Range: Where Specifications include the phrase "standard range of colors, patterns, textures" or similar phrase, Owner will select color, pattern, density, or texture from manufacturer's product line that does not include premium items.
    b. Full Range: Where Specifications include the phrase "full range of colors, patterns, textures" or similar phrase, Owner will select color, pattern, density, or texture from manufacturer's product line that includes both standard and premium items.

2.2 PRODUCT SUBSTITUTIONS

A. Timing: Owner will consider requests for substitution if received at least 7 days prior to bid date. Requests received after that time may be considered or rejected at discretion of Owner.

B. Conditions: Owner will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Owner will return requests without action, except to record noncompliance with these requirements:
1. Requested substitution offers Owner a substantial advantage in cost, time, energy conservation, or other considerations, after deducting additional responsibilities Owner must assume. Owner's additional responsibilities may include compensation to Owner for redesign and evaluation services, increased cost of other construction by Owner, and similar considerations.
2. Requested substitution does not require extensive revisions to the Contract Documents.
3. Requested substitution is consistent with the Contract Documents and will produce indicated results.
4. Substitution request is fully documented and properly submitted.
5. Requested substitution will not adversely affect Contractor's Construction Schedule.

6. Requested substitution has received necessary approvals of authorities having jurisdiction.
7. Requested substitution is compatible with other portions of the Work.
8. Requested substitution has been coordinated with other portions of the Work.
9. Requested substitution provides specified warranty.
10. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

2.3 COMPARABLE PRODUCTS

A. Conditions: Owner will consider Contractor's request for comparable product when the following conditions are satisfied. If the following conditions are not satisfied, Owner will return requests without action, except to record noncompliance with these requirements:
   1. Evidence that the proposed product does not require extensive revisions to the Contract Documents that it is consistent with the Contract Documents and will produce the indicated results, and that it is compatible with other portions of the Work.
   2. Detailed comparison of significant qualities of proposed product with those named in the Specifications. Significant qualities include attributes such as performance, weight, size, durability, visual effect, and specific features and requirements indicated.
   3. Evidence that proposed product provides specified warranty.
   4. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners, if requested.
   5. Samples, if requested.

PART 3 - EXECUTION (Not Used)

END OF SECTION 01600

PRODUCT SUBSTITUTION PROCEDURES

SECTION 01630

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Quality assurance.

B. Product options.

C. Product substitution procedures.

1.2 QUALITY ASSURANCE

A. Contract is based on products and standards established in Contract Documents without consideration of proposed substitutions.

B. Products specified define standard of quality, type, function, dimension, appearance, and performance required.

C. Substitution Proposals: Permitted for specified products except where specified otherwise. Do not substitute products unless substitution has been accepted and approved in writing by Owner.

1.3 PRODUCT OPTIONS

A. See Section 01600 - Product Requirements.

1.4 PRODUCT SUBSTITUTION PROCEDURES

A. Architect/Engineer and Owner and Construction Project Manager will consider requests for substitutions only within 15 days after date of Owner-Contractor Agreement.

B. Substitutions may be considered when a product becomes unavailable through no fault of Contractor.

C. Document each request with complete data, substantiating compliance of proposed substitution with Contract Documents, including:
   1. Manufacturer's name and address, product, trade name, model, or catalog number, performance and test data, and reference standards.
   2. Itemized point-by-point comparison of proposed substitution with specified product, listing variations in quality, performance, and other pertinent characteristics.
   3. Reference to Article and Paragraph numbers in Specification Section.

4. Cost data comparing proposed substitution with specified product and amount of net change to Contract Sum. Change must be a net credit for product consideration.
5. Changes required in other Work.
6. Availability of maintenance service and source of replacement parts as applicable.
7. Certified test data to show compliance with performance characteristics specified.
8. Samples when applicable or requested.
9. Other information as necessary to assist Owner/ PCM evaluation.

D. A request constitutes a representation that Contractor:
1. Has investigated proposed product and determined that it meets or exceeds quality level of specified product.
2. Will provide same warranty for substitution as for specified product.
3. Will coordinate installation and make changes to other Work that may be required for the Work to be complete with no additional cost to Owner.
4. Waives claims for additional costs or time extension that may subsequently become apparent.
5. Will coordinate installation of the accepted substitute, making such changes as may be required for the Work to be complete in all respects.
6. Will reimburse Owner for review or redesign services associated with reapproval by authorities having jurisdiction.

E. Substitutions will not be considered when they are indicated or implied on Shop Drawing or Product Data submittals without separate written request or when acceptance will require revision to Contract Documents.

F. Substitution Submittal Procedure:
1. Submit requests for substitutions on CSI Form 13.1A Substitution Request-After the Bidding/Negotiating Stage.
2. Submit three copies of Request for Substitution for consideration. Limit each request to one proposed substitution.
3. Submit Shop Drawings, Product Data, and certified test results attesting to proposed product equivalence. Burden of proof is on proposer.
4. Substitution must include a credit to the Owner.
5. Architect/Engineer will notify Contractor in writing of decision to accept or reject request.

1.5 INSTALLER SUBSTITUTION PROCEDURES

A. Architect/Engineer will consider requests for substitutions only within 15 days after date of Owner-Contractor Agreement.

B. Document each request with:
1. Installer's qualifications.
2. Installer's experience in work similar to that specified.
3. Other information as necessary to assist Architect/Engineer's evaluation.

C. Substitution Submittal Procedure:

1. Submit three copies Request for Substitution for consideration. Limit each request to one proposed substitution.
2. Architect/Engineer will notify Contractor in writing of decision to accept or reject request.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION - Not Used

END OF SECTION

EXECUTION REQUIREMENTS

SECTION 01700

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Closeout procedures.
B. Starting of systems.
C. Demonstration and instructions.
D. Testing, adjusting, and balancing.
E. Project record documents.
F. Operation and maintenance data.
G. Manual for materials and finishes.
H. Manual for equipment and systems.
I. Spare parts and maintenance products.
J. Product warranties and product bonds.
K. Maintenance service.
L. Examination.
M. Preparation.
N. Execution.
O. Cutting and patching.
P. Protecting installed construction.
Q. Final cleaning.

1.2 CLOSEOUT PROCEDURES

A. Prerequisites to Substantial Completion: Complete following items before requesting Certification of Substantial Completion, either for entire Work or for portions of Work:
   1. Submit maintenance manuals, Project record documents, digital images of construction photographs and other similar final record data in compliance with this Section.
   2. Complete facility startup, testing, adjusting, balancing of systems and equipment, demonstrations, and instructions to Owner's operating and maintenance personnel as specified in compliance with this Section.
   3. Conduct inspection to establish basis for request that Work is substantially complete. Create comprehensive list (initial punch list) indicating items to be completed or corrected, value of incomplete or nonconforming Work, reason for being incomplete, and date of anticipated completion for each item. Include copy of list with request for Certificate of Substantial Completion.
   4. Obtain and submit releases enabling Owner's full, unrestricted use of Project and access to services and utilities. Include certificate of occupancy, operating certificates, and similar releases from authorities having jurisdiction and utility companies.
   5. Deliver tools, spare parts, extra stocks of material, and similar physical items to Owner.

6. Discontinue or change over and remove temporary facilities and services from Project Site, along with construction tools, mockups, and similar elements.
7. Perform final cleaning according to this Section.

B. Substantial Completion Inspection:
   1. When Contractor considers Work to be substantially complete, submit to Engineer:
      a. Written certificate that Work, or designated portion, is substantially complete.
      b. List of items to be completed or corrected (initial punch list).
   2. Within seven days after receipt of request for Substantial Completion, Engineer will make inspection to determine whether Work or designated portion is substantially complete.
   3. Should Engineer determine that Work is not substantially complete:
      a. Engineer will promptly notify Contractor in writing, stating reasons for its opinion.
      b. Contractor shall remedy deficiencies in Work and send second written request for Substantial Completion to Engineer.
      c. Engineer will reinspect Work.
      d. Redo and Inspection of Deficient Work: Repeated until Work passes Engineer's inspection.
   4. When Engineer finds that Work is substantially complete, Engineer will:
      a. Prepare Certificate of Substantial Completion on EJCDC C-625 - Certificate of Substantial Completion, accompanied by Contractor's list of items to be completed or corrected as verified and amended by Architect/Engineer and Owner (final punch list).
      b. Submit Certificate to Owner and Contractor for their written acceptance of responsibilities assigned to them in Certificate.
   5. After Work is substantially complete, Contractor shall:
      a. Allow Owner occupancy of Project under provisions stated in Certificate of Substantial Completion.
      b. Complete Work listed for completion or correction within 30 working days.
   6. Owner will occupy all of building as specified in Section 01100 - Summary.

C. Prerequisites for Final Completion: Complete following items before requesting final acceptance and final payment.
   1. When Contractor considers Work to be complete, submit written certification that:
      a. Contract Documents have been reviewed.
      b. Work has been examined for compliance with Contract Documents.
      c. Work has been completed according to Contract Documents.
      d. Work is completed and ready for final inspection.
   2. Submittals: Submit following:
      a. Final punch list indicating all items have been completed or corrected.
      b. Final payment request with final releases and supporting documentation not previously submitted and accepted. Include certificates of insurance for products and completed operations where required.
      c. Specified warranties, workmanship/maintenance bonds, maintenance agreements, and other similar documents.
      d. Accounting statement for final changes to Contract Sum.
      e. Contractor's affidavit of payment of debts and claims on AIA G706 - Contractor's Affidavit of Payment of Debts and Claims.
      f. Contractor affidavit of release of liens.

g. Consent of surety to final payment on AIA G707 - Consent of Surety to Final Payment Form.

3. Perform final cleaning for Contractor-soiled areas according to this Section.

D. Final Completion Inspection:
1. Within seven days after receipt of request for final inspection, Engineer will make inspection to determine whether Work or designated portion is complete.
2. Should Engineer consider Work to be incomplete or defective:
a. Engineer will promptly notify Contractor in writing, listing incomplete or defective Work.
b. Contractor shall remedy stated deficiencies and send second written request to Engineer that Work is complete.
c. Engineer will reinspect Work.
d. Redo and Inspection of Deficient Work: Repeated until Work passes Engineer's inspection.

1.3 STARTING OF SYSTEMS

A. Coordinate schedule for startup of various equipment and systems.

B. Notify Engineer and Owner seven days prior to startup of each item.

C. Verify that each piece of equipment or system has been checked for proper lubrication, drive rotation, belt tension, control sequence, and for conditions which may cause damage.

D. Verify that tests, meter readings, and electrical characteristics agree with those required by equipment or system manufacturer.

E. Verify that wiring and support components for equipment are complete and tested.

F. Execute startup under supervision of manufacturer's representative or Contractors' personnel according to manufacturer's instructions.

G. When specified in individual Specification Sections, require manufacturer to provide authorized representative who will be present at Site to inspect, check, and approve equipment or system installation prior to startup and will supervise placing equipment or system in operation.

H. Submit a written report according to Section 01330 - Submittal Procedures that equipment or system has been properly installed and is functioning correctly.

1.4 DEMONSTRATION AND INSTRUCTIONS

A. Demonstrate operation and maintenance of products to Owner's personnel two weeks prior to date of Substantial Completion.

B. Demonstrate Project equipment and instructed by qualified representative who is knowledgeable about the Project.

C. Video Recordings: Provide high-quality color video recordings of demonstration and instructional sessions. Engage commercial videographer to record sessions. Include classroom instructions, demonstrations, board diagrams, and other visual aids. Include menu navigation.

D. For equipment or systems requiring seasonal operation, perform demonstration for other season within six months.

E. Use operation and maintenance manuals as basis for instruction. Review contents of manual with Owner's personnel in detail to explain all aspects of operation and maintenance.

F. Demonstrate startup, operation, control, adjustment, troubleshooting, servicing, maintenance, and shutdown of each item of equipment at scheduled time, at designated location.

G. Prepare and insert additional data in operations and maintenance manuals when need for additional data becomes apparent during instruction.

H. Required instruction time for each item of equipment and system is specified in individual Specification Sections.

1.5 PROJECT RECORD DOCUMENTS

A. Maintain on Site one set of the following record documents; record actual revisions to the Work:
1. Drawings.
2. Specifications.
3. Addenda.
4. Change Orders and other modifications to the Contract.
5. Reviewed Shop Drawings, product data, and Samples.
6. Manufacturer's instruction for assembly, installation, and adjusting.

B. Ensure entries are complete and accurate, enabling future reference by Owner.

C. Store record documents separate from documents used for construction.

D. Record information concurrent with construction progress, not less than weekly.

E. Specifications: Legibly mark and record, at each product Section, description of actual products installed, including the following:
1. Manufacturer's name and product model and number.
2. Product substitutions or alternates used.
3. Changes made by Addenda and modifications.

F. Record Drawings and Shop Drawings: Legibly mark each item to record actual construction as follows:
1. Include Contract modifications such as Addenda, supplementary instructions, change directives, field orders, minor changes in the Work, and change orders.
2. Include locations of concealed elements of the Work.
3. Identify depth of buried utility lines and provide dimensions showing distances from permanent facility components that are parallel to utilities.

4. Dimension ends, corners, and junctions of buried utilities to permanent facility components using triangulation.
5. Identify and locate existing buried or concealed items encountered during Project.
6. Measured depths of foundations in relation to finish [first] [main] floor datum.
7. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
8. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
9. Field changes of dimension and detail.
10. Details not on original Drawings.

G. Submit marked-up paper copy documents to Engineer before Substantial Completion.

H. Submit PDF electronic files of marked-up documents to Engineer before Substantial Completion.

1.6 OPERATION AND MAINTENANCE DATA

A. Submit in PDF composite electronic indexed file.

B. Submit data bound in 8-1/2 x 11-inch text pages, three D side ring binders with durable plastic covers.

C. Prepare binder cover with printed title "OPERATION AND MAINTENANCE INSTRUCTIONS," title of Project.

D. Internally subdivide binder contents with permanent page dividers, logically organized as described below; with tab titling clearly printed under reinforced laminated plastic tabs.

E. Drawings: Provide with reinforced punched binder tab. Bind in with text; fold larger drawings to size of text pages.

F. Contents: Prepare table of contents for each volume, with each product or system description identified, typed on white paper, in three parts as follows:
1. Part 1: Directory, listing names, addresses, and telephone numbers of Architect/Engineer, Contractor, Subcontractors, and major equipment suppliers.
2. Part 2: Operation and maintenance instructions, arranged by system and subdivided by Specification Section. For each category, identify names, addresses, and telephone numbers of Subcontractors and suppliers. Include the following:
    a. Significant design criteria.
    b. List of equipment.
    c. Parts list for each component.
    d. Operating instructions.
    e. Maintenance instructions for equipment and systems.
    f. Maintenance instructions for special finishes, including recommended cleaning methods and materials, and special precautions identifying detrimental agents.
    g. Safety precautions to be taken when operating and maintaining or working near equipment.
3. Part 3: Project documents and certificates, including the following:

a. Shop Drawings and product data.
b. Air and water balance reports.
c. Certificates.
d. Photocopies of warranties and bonds.

1.7 MANUAL FOR MATERIALS AND FINISHES

A. Submit two copies of preliminary draft or proposed formats and outlines of contents before start of Work. Architect/Engineer will review draft and return one copy with comments.

B. For equipment or component parts of equipment put into service during construction and operated by Owner, submit documents within ten days after acceptance.

C. Submit one copy of completed volumes before Substantial Completion. Draft copy be reviewed and returned after Substantial Completion, with Architect/Engineer comments. Revise content of document sets as required prior to final submission.

D. Submit two sets of revised final volumes within ten days after final inspection.

E. Building Products, Applied Materials, and Finishes: Include product data, with catalog number, size, composition, and color and texture designations. Include information for re-ordering custom-manufactured products.

F. Instructions for Care and Maintenance: Include manufacturer's recommendations for cleaning agents and methods, precautions against detrimental agents and methods, and recommended schedule for cleaning and maintenance.

G. Moisture Protection and Weather Exposed Products: Include product data listing applicable reference standards, chemical composition, and details of installation. Include recommendations for inspections, maintenance, and repair.

H. Additional Requirements: As specified in individual product Specification Sections.

I. Include listing in table of contents for design data, with tabbed fly sheet and space for insertion of data.

1.8 MANUAL FOR EQUIPMENT AND SYSTEMS

A. Submit two copies of preliminary draft or proposed formats and outlines of contents before start of Work. Architect/Engineer will review draft and return one copy with comments.

B. For equipment, or component parts of equipment put into service during construction and operated by Owner, submit documents within ten days after acceptance.

C. Submit one copy of completed volumes before Substantial Completion. Draft copy will be reviewed and returned after Substantial Completion, with Architect/Engineer comments. Revise content of document sets as required prior to final submission.

D. Submit two sets of revised final volumes within ten days after final inspection.

E. Each Item of Equipment and Each System: Include description of unit or system and component parts. Identify function, normal operating characteristics, and limiting conditions. Include performance curves, with engineering data and tests, and complete nomenclature and model number of replaceable parts.

F. Include color-coded wiring diagrams as installed.

G. Operating Procedures: Include startup, break-in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shutdown, and emergency instructions. Include summer, winter, and special operating instructions.

H. Maintenance Requirements: Include routine procedures and guide for preventative maintenance and troubleshooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.

I. Include servicing and lubrication schedule and list of lubricants required.

J. Include manufacturer's printed operation and maintenance instructions.

K. Include sequence of operation by controls manufacturer.

L. Include original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.

M. Include control diagrams by controls manufacturer as installed.

N. Include Contractor's coordination drawings with color-coded piping diagrams as installed.

O. Include charts of valve tag numbers, with location and function of each valve, keyed to flow and control diagrams.

P. Include list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.

Q. Include test and balancing reports as specified in Section 01400 - Quality Requirements.

R. Additional Requirements: As specified in individual product Specification Sections.

S. Include listing in table of contents for design data with tabbed dividers and space for insertion of data.

1.9 SPARE PARTS AND MAINTENANCE PRODUCTS

A. Furnish spare parts, maintenance, and extra products in quantities specified in individual Specification Sections.

B. Deliver to Project Site and place in location as directed by Owner ; obtain receipt prior to final payment.

1.10 PRODUCT WARRANTIES AND PRODUCT BONDS

A. Obtain warranties and bonds executed in duplicate by responsible Subcontractors, suppliers, and manufacturers within ten days after completion of applicable item of Work.

B. Execute and assemble transferable warranty documents and bonds from Subcontractors, suppliers, and manufacturers.

C. Verify documents are in proper form, contain full information, and are notarized.

D. Co-execute submittals when required.

E. Include table of contents and assemble in three D side ring binder with durable plastic cover.

F. Submit prior to final Application for Payment.

G. Time of Submittals:
   1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents within ten days after acceptance.
   2. Make other submittals within ten days after date of Substantial Completion, prior to final Application for Payment.
   3. For items of Work for which acceptance is delayed beyond Substantial Completion, submit within ten days after acceptance, listing date of acceptance as beginning of warranty or bond period.

1.11 MAINTENANCE SERVICE

A. Furnish service and maintenance of components indicated in Specification Sections during warranty period.

B. Examine system components at frequency consistent with reliable operation. Clean, adjust, and lubricate as required.

C. Include systematic examination, adjustment, and lubrication of components. Repair or replace parts whenever required. Use parts produced by manufacturer of original component.

D. Do not assign or transfer maintenance service to agent or Subcontractor without prior written consent of Owner.

PART 2 PRODUCTS - Not Used

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that existing Site conditions and substrate surfaces are acceptable for subsequent Work. Beginning new Work means acceptance of existing conditions.

B. Verify that existing substrate is capable of structural support or attachment of new Work being applied or attached.

C. Examine and verify specific conditions described in individual Specification Sections.

D. Verify that utility services are available with correct characteristics and in correct locations.

3.2 PREPARATION

A. Clean substrate surfaces prior to applying next material or substance according to manufacturer's instructions.

B. Seal cracks or openings of substrate prior to applying next material or substance.

C. Apply manufacturer-required or -recommended substrate primer, sealer, or conditioner prior to applying new material or substance in contact or bond.

3.3 EXECUTION

A. Comply with manufacturer's installation instructions, performing each step in sequence. Maintain one set of manufacturer's installation instructions at Project Site during installation and until completion of construction.

B. When manufacturer's installation instructions conflict with Contract Documents, request clarification from Architect/Engineer before proceeding.

C. Verify that field measurements are as indicated on approved Shop Drawings or as instructed by manufacturer.

D. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, or disfigurement.
   1. Secure Work true to line and level and within specified tolerances, or if not specified, industry-recognized tolerances.
   2. Physically separate products in place, provide electrical insulation, or provide protective coatings to prevent galvanic action or corrosion between dissimilar metals.
   3. Exposed Joints: Provide uniform joint width and arrange to obtain best visual effect. Refer questionable visual-effect choices to Architect/Engineer for final decision.

E. Allow for expansion of materials and building movement.

F. Climatic Conditions and Project Status: Install each unit of Work under conditions to ensure best possible results in coordination with entire Project.
   1. Isolate each unit of Work from incompatible Work as necessary to prevent deterioration.
   2. Coordinate enclosure of Work with required inspections and tests to minimize necessity of uncovering Work for those purposes.

G. Mounting Heights: Where not indicated, mount individual units of Work at industry recognized standard mounting heights for particular application indicated.
   1. Refer questionable mounting heights choices to Architect/Engineer for final decision.
   2. Elements Identified as Accessible to Handicapped: Comply with applicable codes and regulations.

H. Adjust operating products and equipment to ensure smooth and unhindered operation.

I. Clean and perform maintenance on installed Work as frequently as necessary through remainder of construction period. Lubricate operable components as recommended by manufacturer.

3.4 CUTTING AND PATCHING

A. Employ skilled and experienced installers to perform cutting and patching.

B. Submit written request in advance of cutting or altering elements affecting:
   1. Structural integrity of element.
   2. Integrity of weather-exposed or moisture-resistant elements.
   3. Efficiency, maintenance, or safety of element.
   4. Visual qualities of sight-exposed elements.
   5. Work of Owner or separate contractor.

C. Execute cutting, fitting, and patching including excavation and fill to complete Work and to:
   1. Fit the several parts together, to integrate with other Work.
   2. Uncover Work to install or correct ill-timed Work.
   3. Remove and replace defective and nonconforming Work.
   4. Remove samples of installed Work for testing.
   5. Provide openings in elements of Work for penetrations of mechanical and electrical Work.

D. Execute Work by methods to avoid damage to other Work and to provide proper surfaces to receive patching and finishing.

E. Cut masonry and concrete materials using masonry saw or core drill.

F. Restore Work with new products according to requirements of Contract Documents.

G. Fit Work tight to pipes, sleeves, ducts, conduits, and other penetrations through surfaces.

H. Maintain integrity of wall, ceiling, or floor construction; completely seal voids.

I. At penetrations of fire-rated walls, partitions, ceiling, or floor construction, completely seal voids with fire-rated material, to full thickness of penetrated element.

J. Refinish surfaces to match adjacent finishes. For continuous surfaces, refinish to nearest intersection; for assembly, refinish entire unit.

K. Identify hazardous substances or conditions exposed during the Work to Architect/Engineer for decision or remedy.

3.5 PROTECTING INSTALLED CONSTRUCTION

A. Protect installed Work and provide special protection where specified in individual Specification Sections.

B. Provide temporary and removable protection for installed products. Control activity in immediate Work area to prevent damage.

C. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.

D. Use durable sheet materials to protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects.

E. Prohibit traffic or storage upon waterproofed or roofed surfaces. When traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.

F. Prohibit traffic from landscaped areas.

3.6 FINAL CLEANING

A. Execute final cleaning prior to final Project assessment.
   1. Employ experienced personnel or professional cleaning firm.

B. Clean equipment and fixtures to sanitary condition with appropriate cleaning materials.

C. Replace filters of operating equipment.

D. Clean debris from roofs, gutters, downspouts, and drainage systems.

E. Clean Site; sweep paved areas, rake clean landscaped surfaces.

F. Remove waste and surplus materials, rubbish, and construction facilities from Site.

END OF SECTION

CONCRETE FORMS AND ACCESSORIES

SECTION 03100

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:
1. Formwork for cast-in place concrete.
2. Shoring, bracing, and anchorage.
3. Architectural form liners.
4. Form accessories.
5. Form stripping.

B. Related Sections:
1. Section 03200 - Concrete Reinforcement.
2. Section 03300 - Cast-in-Place Concrete.

1.2 REFERENCES

A. American Concrete Institute:
1. ACI 117 - Standard Specifications for Tolerances for Concrete Construction and Materials.
2. ACI 301 - Specifications for Structural Concrete.
3. ACI 318 - Building Code Requirements for Structural Concrete.
4. ACI 347 - Guide to Formwork for Concrete.

B. American Forest and Paper Association:
1. AF&PA - National Design Specifications for Wood Construction.

C. The Engineered Wood Association:
1. APA/EWA PS 1 - Voluntary Product Standard for Construction and Industrial Plywood.

D. American Society of Mechanical Engineers:
1. ASME A17.1 - Safety Code for Elevators and Escalators.

E. ASTM International:
1. ASTM D1751 - Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types).
2. ASTM E96/E96M - Standard Test Methods for Water Vapor Transmission of Materials.

F. West Coast Lumber Inspection Bureau:
1. WCLIB - Standard Grading Rules for West Coast Lumber.

1.3 SUBMITTALS

A. Section 01330 - Submittal Procedures: Requirements for submittals.

B. Shop Drawings:
   1. Submit formwork, shoring, and reshoring shop drawings.
   2. Indicate the following:
      a. Pertinent dimensions, openings, methods of construction, types of connections, materials, joint arrangement and details, ties and shores, location of framing, studding and bracing, and temporary supports.
      b. Means of leakage prevention for concrete exposed to view in finished construction.
      c. Sequence and timing of erection and stripping assumed compressive strength at time of stripping, height of lift and height of drop during placement.
      d. Vertical, horizontal and special loads in accordance with ACI 347, Section 2.2 and camber diagrams, when applicable.
      e. Notes to formwork erector showing size and location of conduits and piping embedded in concrete in accordance with ACI 318, Section 6.3.
      f. Procedure and schedule for removal of shores and installation and removal of reshores.

1.4 QUALITY ASSURANCE

A. Perform Work in accordance with ACI 347, ACI 301, and ACI 318.

B. For wood products furnished for work of this Section, comply with AF&PA.

1.5 COORDINATION

A. Section 01300 - Administrative Requirements: Coordination and project conditions.

B. Coordinate this Section with other sections of work, requiring attachment of components to formwork.

PART 2 PRODUCTS

2.1 PREFABRICATED FORMS

A. Tubular Column Type: Round, spirally wound laminated fiber material, surface treated with release agent, as indicated on Drawings.

PART 3 EXECUTION

3.1 EXAMINATION

A. Section 01300 - Administrative Requirements: Coordination and project conditions.

B. Verify lines, levels, and centers before proceeding with formwork. Verify dimensions agree with Drawings.

C. When formwork is placed after reinforcement resulting in insufficient concrete cover over reinforcement before proceeding, request instructions from Engineer.

3.2 INSTALLATION

A. Earth Forms:
1. Trench earth forms neatly, accurately, and at least 2 inches wider than footing widths indicated on Drawings.
2. Trim sides and bottom of earth forms.
3. Construct wood edge strips at top of each side of trench to secure reinforcing and prevent trench from sloughing.
4. Form sides of footings where earth sloughs.
5. Tamp earth forms firm and clean forms of debris and loose material before depositing concrete.

B. Formwork - General:
1. Provide top form for sloped surfaces steeper than 1.5 horizontal to 1 vertical to hold shape of concrete during placement, unless it can be demonstrated that top forms can be omitted.
2. Construct forms to correct shape and dimensions, mortar-tight, braced, and of sufficient strength to maintain shape and position under imposed loads from construction operations.
3. Camber forms where necessary to produce level finished soffits unless otherwise shown on Drawings.
4. Carefully verify horizontal and vertical positions of forms. Correct misaligned or misplaced forms before placing concrete.
5. Complete wedging and bracing before placing concrete.

C. Forms for Smooth Finish Concrete:
1. Use steel, plywood or lined board forms.
2. Use clean and smooth plywood and form liners, uniform in size, and free from surface and edge damage capable of affecting resulting concrete finish.
3. Install form lining with close-fitting square joints between separate sheets without springing into place.
4. Use full size sheets of form lines and plywood wherever possible.
5. Tape joints to prevent protrusions in concrete.
6. Use care in forming and stripping wood forms to protect corners and edges.
7. Level and continue horizontal joints.
8. Keep wood forms wet until stripped.

D. Arrange and assemble formwork to permit dismantling and stripping. Do not damage concrete during stripping. Permit removal of remaining principal shores.

E. Obtain Engineer's approval before framing openings in structural members not indicated on Drawings.

F. Install fillet and chamfer strips on external corners of columns.

3.3 APPLICATION - FORM RELEASE AGENT

A. Apply form release agent on formwork in accordance with manufacturer's recommendations.

B. Apply prior to placement of reinforcing steel, anchoring devices, and embedded items.

C. Reuse and Coating of Forms: Thoroughly clean forms and reapply form coating before each reuse. For exposed work, do not reuse forms with damaged faces or edges. Apply form coating to forms in accordance with manufacturer's specifications. Do not coat forms for concrete indicated to receive "scored finish". Apply form coatings before placing reinforcing steel.

3.4 INSTALLATION - INSERTS, EMBEDDED PARTS, AND OPENINGS

A. Install formed openings for items to be embedded in or passing through concrete work.

B. Locate and set in place items required to be cast directly into concrete.

C. Install accessories straight, level, and plumb. Ensure items are not disturbed during concrete placement.

D. Arrangement: Arrange formwork to allow proper erection sequence and to permit form removal without damage to concrete.

E. Embedded Items:
1. Make provisions for pipes, sleeves, anchors, inserts, reglets, anchor slots, nailers, water stops, and other features.
2. Do not embed wood or uncoated aluminum in concrete.
3. Obtain installation and setting information for embedded items furnished under other Specification sections.
4. Securely anchor embedded items in correct location and alignment prior to placing concrete.
5. Verify conduits and pipes, including those made of coated aluminum, meet requirements of ACI 318 for size and location limitations.

F. Openings for Items Passing Through Concrete:
1. Frame openings in concrete where indicated on Drawings. Establish exact locations, sizes, and other conditions required for openings and attachment of work specified under other sections.
2. Coordinate work to avoid cutting and patching of concrete after placement.
3. Perform cutting and repairing of concrete required as result of failure to provide required openings.

3.5 FORM REMOVAL

A. Do not remove forms or bracing until concrete has gained sufficient strength to carry its own weight and imposed loads and removal has been approved by Engineer.

B. Loosen forms carefully. Do not wedge pry bars, hammers, or tools against finish concrete surfaces scheduled for exposure to view.

C. Store removed forms in manner that surfaces to be in contact with fresh concrete will not be damaged. Discard damaged forms.

D. Leave forms in place for minimum number of days as specified in ACI 347.

3.6 ERECTION TOLERANCES

A. Construct formwork to maintain tolerances required by ACI 301and ACI 318.

3.7 FIELD QUALITY CONTROL

A. Section 01400 - Quality Requirements: Field inspecting, testing, adjusting, and balancing.

B. Inspect erected formwork, shoring, and bracing to ensure that work is in accordance with formwork design, and that supports, fastenings, wedges, ties, and items are secure.

C. Notify Engineer after placement of reinforcing steel in forms, but prior to placing concrete.

D. Schedule concrete placement to permit formwork inspection before placing concrete.

END OF SECTION

CONCRETE REINFORCEMENT
SECTION 03200

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:
1. Reinforcing bars.
2. Welded wire fabric.
3. Reinforcement accessories.

B. Related Sections:
1. Section 02470 - Drilled Concrete Piers and Shafts: Reinforcement for pile, drilled pier foundations.
2. Section 03100 - Concrete Forms and Accessories.
3. Section 03300 - Cast-in-Place Concrete.

1.2 REFERENCES

A. American Concrete Institute:
1. ACI 301 - Specifications for Structural Concrete.
2. ACI 318 - Building Code Requirements for Structural Concrete.
3. ACI 530.1 - Specifications for Masonry Structures.
4. ACI SP-66 - ACI Detailing Manual.

B. ASTM International:
1. ASTM A82/A82M - Standard Specification for Steel Wire, Plain, for Concrete Reinforcement.
2. ASTM A184/A184M - Standard Specification for Fabricated Deformed Steel Bar Mats for Concrete Reinforcement.
3. A185/A185M-07 Standard Specification for Steel Welded Wire Reinforcement, Plain, for Concrete.
4. ASTM A496/A496M - Standard Specification for Steel Wire, Deformed, for Concrete Reinforcement.
5. ASTM A497/A497M - Standard Specification for Steel Welded Wire Fabric, Deformed, for Concrete Reinforcement.
6. ASTM A615/A615M - Standard Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement.
7. ASTM A704/A704M - Standard Specification for Welded Steel Plain Bar or Rod Mats for Concrete Reinforcement.
8. ASTM A706/A706M - Standard Specification for Low-Alloy Steel Deformed and Plain Bars for Concrete Reinforcement.
9. ASTM A767/A767M - Standard Specification for Zinc-Coated (Galvanized) Steel Bars for Concrete Reinforcement.
10. ASTM A775/A775M - Standard Specification for Epoxy-Coated Steel Reinforcing Bars.

11. ASTM A884/A884M - Standard Specification for Epoxy-Coated Steel Wire and Welded Wire Reinforcement.
12. ASTM A934/A934M - Standard Specification for Epoxy-Coated Prefabricated Steel Reinforcing Bars.
13. ASTM A996/A996M - Standard Specification for Rail-Steel and Axle-Steel Deformed Bars for Concrete Reinforcement.

C. American Welding Society:
   1. AWS D1.4 - Structural Welding Code - Reinforcing Steel.

D. Concrete Reinforcing Steel Institute:
   1. CRSI - Manual of Standard Practice.
   2. CRSI - Placing Reinforcing Bars.

1.3 SUBMITTALS

A. Section 01330 - Submittal Procedures: Submittal procedures.

B. Shop Drawings: Indicate bar sizes, spacings, locations, and quantities of reinforcing steel bending and cutting schedules, and supporting and spacing devices

1.4 QUALITY ASSURANCE

A. Perform Work in accordance with CRSI - Manual of Standard Practice, ACI 301, and ACI 318.

B. Prepare shop drawings in accordance with ACI SP-66.

1.5 COORDINATION

A. Section 01300 - Administrative Requirements: Coordination and project conditions.

B. Coordinate with placement of formwork, formed openings and other Work.

PART 2 PRODUCTS

2.1 REINFORCEMENT

A. Reinforcing Steel: ASTM A615/A615M, 60 ksi yield grade, billet bars.

2.2 ACCESSORY MATERIALS

A. Tie Wire: Minimum 16 gage annealed type

B. Chairs, Bolsters, Bar Supports, Spacers: Sized and shaped for strength and support of reinforcement during concrete placement conditions

C. Special Chairs, Bolsters, Bar Supports, Spacers Adjacent to Weather Exposed Concrete Surfaces: Plastic-coated steel type; size and shape to meet Project conditions.

2.3 FABRICATION

A. Fabricate concrete reinforcement in accordance with CRSI Manual of Practice and ACI 318

B. Form standard hooks as indicated on Drawings.

C. Fabricate column reinforcement with offset bends at reinforcement splices.

D. Form spiral column reinforcement from minimum 3/8 inch diameter continuous bar or wire.

E. Locate reinforcement splices not indicated on Drawings, at point of minimum stress.

2.4 SOURCE QUALITY CONTROL

A. Section 01400 - Quality Requirements: Testing, inspection and analysis requirements.

B. Make completed reinforcement available for inspection at manufacturer's factory prior to packaging for shipment. Notify Architect/Engineer at least seven days before inspection is allowed.

PART 3 EXECUTION

3.1 PLACEMENT

A. Place, support and secure reinforcement against displacement. Do not deviate from required position beyond specified tolerance.
   1. Do not weld crossing reinforcement bars for assembly.

B. Do not displace or damage vapor retarder.

C. Accommodate placement of formed openings.

D. Space reinforcement bars with minimum clear spacing of one bar diameter, but not less than 1 inch .
   1. Where bars are indicated in multiple layers, place upper bars directly above lower bars.

Reinforcement Location		Minimum Concrete Cover
Footings and Concrete Formed Against Earth		3 inches (75 mm)
Concrete exposed to	No. 6 (19) bars and larger	2 inches (50 mm)

earth or weather	No. 5 (16) bars and smaller	1-1/2 inches (38 mm)
Supported Slabs, Walls, and Joists	No. 14 (43) bars and larger	1-1/2 inches (38 mm)
	No. 11 (36) bars and smaller	3/4 inches (19 mm)
Beams and Columns		1-1/2 inches (38 mm)
Shell and Folded Plate Members	No. 6 (19) bars and larger	3/4 inches (19 mm)
	No. 5 (16) bars and smaller	1/2 inches (13 mm)

3.2 ERECTION TOLERANCES

A. Section 01400 - Quality Requirements: Tolerances.

B. Install reinforcement within the following tolerances for flexural members, walls, and compression members:

Reinforcement Depth	Depth Tolerance	Concrete Cover Tolerance
Greater than 8 inches	plus or minus 3/8 inch	minus 3/8 inch
Less than 8 inches	plus or minus 1/2 inch	minus 1/2 inch

C. Install reinforcement within the tolerances specified in ACI 530.1 for foundation walls.

3.3 FIELD QUALITY CONTROL

A. Section 01400 - Quality Requirements: Field inspecting, testing, adjusting, and balancing.

B. Field inspection and testing will be performed by Owner's testing laboratory in accordance with ACI 318 .

C. Provide free access to Work and cooperate with appointed firm.

D. Reinforcement Inspection:
1. Placement Acceptance: Specified and ACI 318 material requirements and specified placement tolerances.
2. Welding: Inspect welds in accordance with AWS D1.1.
3. Periodic Placement Inspection: Inspect for correct materials, fabrication, sizes, locations, spacing, concrete cover, and splicing.

3.4 SCHEDULES

A. Reinforcement For Superstructure Framing Members: Deformed bars, unfinished.

B. Reinforcement For Foundation Wall Framing Members and Slab-on-Grade: Deformed bars and wire fabric, galvanized finish.

C. Reinforcement For Parking Structure Framing Members: Deformed bars, epoxy-coated finish.

END OF SECTION

HIDALGO COUNTY SHERIFF'S OFFICE
Hidalgo County Adult Detention Center and
Law Enforcement Facility Repairs and / or Replacement
Edinburg, TX

CAST-IN-PLACE CONCRETE

SECTION 03300

PART 1 GENERAL

1.1 SUMMARY

A. Section includes cast-in-place concrete for the following:
   1. Section 03100 - Concrete Forms and Accessories

1.2 REFERENCES

A. American Concrete Institute:
   1. ACI 301 - Specifications for Structural Concrete.
   2. ACI 305 - Hot Weather Concreting.
   3. ACI 306.1 - Standard Specification for Cold Weather Concreting.
   4. ACI 308.1 - Standard Specification for Curing Concrete.
   5. ACI 318 - Building Code Requirements for Structural Concrete.

B. ASTM International:
   1. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
   2. ASTM C31/C31M - Standard Practice for Making and Curing Concrete Test Specimens in the Field.
   3. ASTM C33 - Standard Specification for Concrete Aggregates.
   4. ASTM C39/C39M - Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens.
   5. ASTM C42/C42M - Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete.
   6. ASTM C94/C94M - Standard Specification for Ready-Mixed Concrete.
   7. ASTM C143/C143M - Standard Test Method for Slump of Hydraulic Cement Concrete.
   8. ASTM C150 - Standard Specification for Portland Cement.
   9. ASTM C172 - Standard Practice for Sampling Freshly Mixed Concrete.
   10. ASTM C173/C173M - Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method.
   11. ASTM C231 - Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method.
   12. ASTM C260 - Standard Specification for Air-Entraining Admixtures for Concrete.
   13. ASTM C330 - Standard Specification for Lightweight Aggregates for Structural Concrete.
   14. ASTM C494/C494M - Standard Specification for Chemical Admixtures for Concrete.
   15. ASTM C595 - Standard Specification for Blended Hydraulic Cements.
   16. ASTM C618 - Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Concrete.

17. ASTM C685/C685M - Standard Specification for Concrete Made By Volumetric Batching and Continuous Mixing.
18. ASTM C845 - Standard Specification for Expansive Hydraulic Cement.
19. ASTM C989 - Standard Specification for Ground Granulated Blast-Furnace Slag for Use in Concrete and Mortars.
20. ASTM C1017/C1017M - Standard Specification for Chemical Admixtures for Use in Producing Flowing Concrete.
21. ASTM C1064/C1064M - Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete.
22. ASTM C1107/C1107M - Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink).
23. ASTM C1116 - Standard Specification for Fiber-Reinforced Concrete and Shotcrete.
24. ASTM C1157 - Standard Performance Specification for Hydraulic Cement.
25. ASTM C1218/C1218M - Standard Test Method for Water-Soluble Chloride in Mortar and Concrete.
26. ASTM C1240 - Standard Specification for Silica Fume Used in Cementitious Mixtures.
27. ASTM D994 - Standard Specification for Preformed Expansion Joint Filler for Concrete (Bituminous Type).
28. ASTM D1751 - Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types).
29. ASTM D1752 - Standard Specification for Preformed Sponge Rubber and Cork Expansion Joint Fillers for Concrete Paving and Structural Construction.
30. ASTM D6690 - Standard Specification for Joint and Crack Sealants, Hot Applied, for Concrete and Asphalt Pavements.
31. ASTM E96/E96M - Standard Test Methods for Water Vapor Transmission of Materials.
32. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials.
33. ASTM E1643 - Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill under Concrete Slabs.
34. ASTM E1745 - Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs.

1.3 SUBMITTALS

A. Section 01330 - Submittal Procedures: Submittal procedures.

B. Design Data:
   1. Submit concrete mix design for each concrete strength. Submit separate mix designs when admixtures are required for the following:
      a. Hot and cold weather concrete work.
      b. Air entrained concrete work.
   2. Identify mix ingredients and proportions, including admixtures.
   3. Identify chloride content of admixtures and whether or not chloride was added during manufacture.

C. Manufacturer's Installation Instructions: Submit installation procedures and interface required with adjacent Work.

1.4 CLOSEOUT SUBMITTALS

A. Section 01700 - Execution Requirements: Closeout procedures.

B. Project Record Documents: Accurately record actual locations of embedded utilities and components concealed from view in finished construction.

1.5 QUALITY ASSURANCE

A. Perform Work in accordance with ACI 301 and ACI 318.

B. Conform to ACI 305 when concreting during hot weather.

C. Conform to ACI 306.1 when concreting during cold weather.

D. Acquire cement and aggregate from one source for Work.

1.6 ENVIRONMENTAL REQUIREMENTS

A. Section 01600 - Product Requirements: Environmental conditions affecting products on site.

B. Maintain concrete temperature after installation at minimum 50 degrees F for minimum 7 days.

1.7 COORDINATION

A. Section 01300 - Administrative Requirements: Coordination and project conditions.

B. Coordinate placement of joint devices with erection of concrete formwork and placement of form accessories.

PART 2 PRODUCTS

2.1 CONCRETE MATERIALS

A. Cement: ASTM C150, Type I - Normal

B. Normal Weight Aggregates: ASTM C33.
1. Coarse Aggregate Maximum Size: 1 inches In accordance with ACI 318.

C. Water: ACI 318; potable, without deleterious amounts of chloride ions.

2.2 ADMIXTURES

2.3 CONCRETE MIX

A. Select proportions for concrete in accordance with ACI 318 field experience.

B. Admixtures: Include admixture types and quantities indicated in concrete mix designs only when approved by Architect/Engineer.
   1. Use accelerating admixtures in cold weather. Use of admixtures will not relax cold weather placement requirements.
   2. Do not use calcium chloride nor admixtures containing calcium chloride.
   3. Use set retarding admixtures during hot weather.

C. Average Compressive Strength Reduction: Not permitted.

D. Ready Mixed Concrete: Mix and deliver concrete in accordance with ASTM C94/C94M.

E. Site Mixed Concrete: Mix concrete in accordance with ACI 318.

PART 3 EXECUTION

3.1 EXAMINATION

A. Section 01300 - Administrative Requirements: Coordination and project conditions.

B. Verify requirements for concrete cover over reinforcement.

C. Verify anchors, seats, plates, reinforcement and other items to be cast into concrete are accurately placed, positioned securely, and will not interfere with placing concrete.

3.2 PREPARATION

A. Prepare previously placed concrete by cleaning with steel brush and applying bonding agent. Remove laitance, coatings, and unsound materials.

B. In locations where new concrete is doweled to existing work, drill holes in existing concrete, insert steel dowels and pack solid with non-shrink grout.

C. Remove debris and ice from formwork, reinforcement, and concrete substrates.

D. Remove water from areas receiving concrete before concrete is placed.

3.3 PLACING CONCRETE

A. Place concrete in accordance with ACI 301.

B. Notify testing laboratory and Architect/Engineer minimum 24 hours prior to commencement of operations.

C. Deposit concrete at final position. Prevent segregation of mix.

D. Place concrete in continuous operation for each panel or section determined by predetermined joints.

E. Consolidate concrete.

F. Maintain records of concrete placement. Record date, location, quantity, air temperature, and test samples taken.

G. Place concrete continuously between predetermined expansion, control, and construction joints.

3.4 CURING AND PROTECTION

A. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures, and mechanical injury.

B. Maintain concrete with minimal moisture loss at relatively constant temperature for period necessary for hydration of cement and hardening of concrete.

3.5 FIELD QUALITY CONTROL

A. Section 01400 – Quality Requirements, 01700 - Execution Requirements: Field inspecting, testing, adjusting, and balancing.

B. Perform field inspection and testing in accordance with ACI 318.

C. Provide free access to Work and cooperate with appointed firm.

D. Submit proposed mix design of each class of concrete to inspection and testing firm for review prior to commencement of Work.

E. Concrete Inspections:
   1. Continuous Placement Inspection: Inspect for proper installation procedures.
   2. Periodic Curing Inspection: Inspect for specified curing temperature and procedures.

F. Strength Test Samples:
   1. Sampling Procedures: ASTM C172.
   2. Cylinder Molding and Curing Procedures: ASTM C31/C31M, cylinder specimens, standard cured.
   3. Sample concrete and make one set of three cylinders for every 75 or less of each class of concrete placed each day and for every 5,000 sf of surface area for slabs and walls.
   4. When volume of concrete for any class of concrete would provide less than 5 sets of cylinders, take samples from five randomly selected batches, or from every batch when less than 5 batches are used.
   5. Make one additional cylinder during cold weather concreting, and field cure.

G. Field Testing:
   1. Slump Test Method: ASTM C143/C143M.

2. Air Content Test Method: ASTM C173/C173M.
3. Temperature Test Method: ASTM C1064/C1064M.
4. Measure slump and temperature for each compressive strength concrete sample.
5. Measure air content in air entrained concrete for each compressive strength concrete sample.

H. Cylinder Compressive Strength Testing:
1. Test Method: ASTM C39/C39M.
2. Test Acceptance: In accordance with ACI 318.
3. Test one cylinder at 7 days.
4. Test two cylinders at 28 days.
5. Retain one cylinder for 56 days for testing when requested by Architect/Engineer.
6. Dispose remaining cylinders when testing is not required.

I. Core Compressive Strength Testing:
1. Sampling and Testing Procedures: ASTM C42/C42M.
2. Test Acceptance: In accordance with ACI 318.
3. Drill three cores for each failed strength test from concrete represented by failed strength test.

J. Maintain records of concrete placement. Record date, location, quantity, air temperature and test samples taken.

3.6 PATCHING

A. Allow Architect/Engineer to inspect concrete surfaces immediately upon removal of forms.

B. Excessive honeycomb or embedded debris in concrete is not acceptable. Notify Architect/Engineer upon discovery.

C. Patch imperfections as directed by Architect/Engineer.

3.7 DEFECTIVE CONCRETE

A. Defective Concrete: Concrete not conforming to required lines, details, dimensions, tolerances or specified requirements.

B. Repair or replacement of defective concrete will be determined by Architect/Engineer.

C. Do not patch, fill, touch-up, repair, or replace exposed concrete except upon express direction of Architect/Engineer for each individual area.

END OF SECTION

STRUCTURAL STEEL

SECTION 05120

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:
1. Structural shapes.
2. Channels and angles.
3. Hollow structural sections.
4. Structural pipe.
5. Structural plates.
6. Floor plates.
7. Bolts, connectors, and anchors.
8. Grout.

1.2 PRICE AND PAYMENT PROCEDURES

1.3 REFERENCE STANDARDS

A. American Institute of Steel Construction:
1. AISC 303 - Code of Standard Practice for Steel Buildings and Bridges.
2. AISC 341 - Seismic Provisions for Structural Steel Buildings.
3. AISC 360 - Specification for Structural Steel Buildings.

B. American Society of Civil Engineers:
1. ASCE 19 - Standard Applications of Steel Cables for Buildings.

C. ASTM International:
1. ASTM A36/A36M - Standard Specification for Carbon Structural Steel.
2. ASTM A53/A53M - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.
3. ASTM A108 - Standard Specification for Steel Bar, Carbon and Alloy, Cold-Finished.
4. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
5. ASTM A193/A193M - Standard Specification for Alloy-Steel and Stainless Steel Bolting Materials for High-Temperature Service.
6. ASTM A307 - Standard Specification for Carbon Steel Bolts and Studs, 60 000 PSI Tensile Strength.
7. ASTM A325 - Standard Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength.
8. ASTM A354 - Standard Specification for Quenched and Tempered Alloy Steel Bolts, Studs, and Other Externally Threaded Fasteners.
9. ASTM A449 - Standard Specification for Quenched and Tempered Steel Bolts and Studs.

10. ASTM A490 - Standard Specification for Structural Bolts, Alloy Steel, Heat Treated, 150 ksi Minimum Tensile Strength.
11. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes.
12. ASTM A501 - Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing.
13. ASTM A514/A514M - Standard Specification for High-Yield-Strength, Quenched and Tempered Alloy Steel Plate, Suitable for Welding.
14. ASTM A529/A529M - Standard Specification for High-Strength Carbon-Manganese Steel of Structural Quality.
15. ASTM A563 - Standard Specification for Carbon and Alloy Steel Nuts.
16. ASTM A572/A572M - Standard Specification for High-Strength Low-Alloy Columbium-Vanadium Structural Steel.
17. ASTM A588/A588M - Standard Specification for High-Strength Low-Alloy Structural Steel with 50 ksi (345 MPa) Minimum Yield Point to 4-in. (100-mm) Thick.
18. ASTM A618/A618M - Standard Specification for Hot-Formed Welded and Seamless High-Strength Low-Alloy Structural Tubing.
19. ASTM A786/A786M - Standard Specification for Hot-Rolled Carbon, Low-Alloy, High-Strength Low-Alloy, and Alloy Steel Floor Plates.
20. ASTM A847/A847M - Standard Specification for Cold-Formed Welded and Seamless High Strength, Low Alloy Structural Tubing with Improved Atmospheric Corrosion Resistance.
21. ASTM A852/A852M - Standard Specification for Quenched and Tempered Low-Alloy Structural Steel Plate with 70 ksi (485 MPa) Minimum Yield Strength to 4 in. (100 mm) Thick.
22. ASTM A913/A913M - Standard Specification for High-Strength Low-Alloy Steel Shapes of Structural Quality, Produced by Quenching and Self-Tempering Process (QST).
23. ASTM A992/A992M - Standard Specification for Structural Steel Shapes.
24. ASTM B695 - Standard Specification for Coatings of Zinc Mechanically Deposited on Iron and Steel.
25. ASTM E94 - Standard Guide for Radiographic Examination.
26. ASTM E164 - Standard Practice for Ultrasonic Contact Examination of Weldments.
27. ASTM E165 - Standard Test Method for Liquid Penetrant Examination.
28. ASTM E709 - Standard Guide for Magnetic Particle Examination.
29. ASTM F436 - Standard Specification for Hardened Steel Washers.
30. ASTM F959 - Standard Specification for Compressible-Washer-Type Direct Tension Indicators for Use with Structural Fasteners.
31. ASTM F1554 - Standard Specification for Anchor Bolts, Steel, 36, 55, and 105-ksi Yield Strength.
32. ASTM F1852 - Standard Specification for Twist Off Type Tension Control Structural Bolt/Nut/Washer Assemblies, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength.
33. ASTM F2329 - Standard Specification for Zinc Coating, Hot-Dip, Requirements for Application to Carbon and Alloy Steel Bolts, Screws, Washers, Nuts, and Special Threaded Fasteners.

D. American Welding Society:
   1. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination.
   2. AWS D1.1 - Structural Welding Code - Steel.

E. California Department of Health Services:
   1. CA/DHS/EHLB/R-174 - Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda.

F. Green Seal:
   1. GC-03[**-2nd Edition, January 7, 1997**] - Anti-Corrosive Paints.

G. Research Council on Structural Connections:
   1. RCSC - Specification for Structural Joints Using ASTM A325 or Bolts.

H. SSPC: The Society for Protective Coatings:
   1. SSPC - Steel Structures Painting Manual.
   2. SSPC Paint 15 - Steel Joist Shop Paint.
   3. SSPC Paint 20 - Zinc-Rich Primers (Type I - Inorganic and Type II - Organic).
   4. SSPC SP 3 - Power Tool Cleaning.
   5. SSPC SP 6 - Commercial Blast Cleaning.
   6. SSPC SP 10 - Near-White Blast Cleaning.

1.4 COORDINATION

A. Section 01300 - Administrative Requirements: Requirements for coordination.

1.5 SUBMITTALS

A. Section 01330 - Submittal Procedures: Requirements for submittals.

B. Shop Drawings:
   1. Indicate profiles, sizes, spacing, locations of structural members, openings, attachments, and bolts.
   2. Indicate welded connections with AWS A2.4 welding symbols. Indicate net weld lengths.

C. Manufacturer's Mill Certificate: Certify products meet or exceed specified requirements.

D. Welders Certificates: Certify welders employed on the Work, verifying AWS qualification within previous 12 months.

1.6 QUALITY ASSURANCE

A. Perform Work in accordance with the following:
   1. Structural Steel: AISC 303.
   2. Architecturally Exposed Structural Steel: AISC 303, Section 10.
   3. High Strength Bolted Connections: RCSC Specification for Structural Joints Using ASTM A 325 or A 490 Bolts.
   4. Steel Cable Structures: ASCE 19.

1.7 QUALIFICATIONS

A. Fabricator: Company specializing in performing Work of this section with minimum 5 years documented experience with current AISC Certification.

B. Erector: Company specializing in performing Work of this section with minimum 5years documented experience with AISC Certification.

C. Welders and Welding Procedures: AWS D1.1 qualified within previous 12 months.

PART 2 PRODUCTS

2.1 STRUCTURAL STEEL

A. Channels and Angles: ASTM A36/A36M.

2.2 WELDING MATERIALS

A. Welding Materials: AWS D1.1; type required for materials being welded.

2.3 FINISHES

A. Shop prime structural steel members. Do not prime surfaces that will be field welded.

2.4 ACCESSORIES

2.5 SOURCE QUALITY CONTROL

A. Section 01400 - Quality Requirements: Testing, inspection and analysis requirements.

B. Shop test bolted and welded connections as specified for field quality control tests.

C. When fabricator is approved by authority having jurisdiction, submit certificate of compliance indicating Work performed at fabricator's facility conforms to Contract Documents.
   1. Specified shop tests are not required for Work performed by approved fabricator.

PART 3 EXECUTION

3.1 EXAMINATION

A. Section 01700 - Execution Requirements: Requirements for installation examination.

B. Verify bearing surfaces are at correct elevation.

C. Verify anchors rods are set in correct locations and arrangements with correct exposure for steel attachment.

3.2 PREPARATION

A. Section 01700 - Execution Requirements: Requirements for installation preparation.

B. Furnish templates for installation of anchor rods and embedments in concrete and masonry work.

3.3 ERECTION

A. Allow for erection loads, and for sufficient temporary bracing to maintain structure safe, plumb, and in alignment until completion of erection and installation of permanent bracing.

B. Field weld components indicated on Drawings.

C. Do not field cut or alter structural members without approval of Architect/Engineer.

D. After erection, touch up welds and abrasions to match shop finishes.

3.4 FIELD QUALITY CONTROL

A. Section 01400 - Quality Requirements: Requirements for inspecting, testing.

B. Bolted Connections: Inspect in accordance with AISC 303.
   1. Visually inspect all bolted connections.
   2. For Direct Tension Indicators, comply with requirements of ASTM F959. Verify that gaps are less than gaps specified in Table 2.

C. Welding: Inspect welds in accordance with AWS D1.1.
   1. Certify welders and conduct inspections and tests as required. Record types and locations of defects found in work. Record work required and performed to correct deficiencies.
   2. Visually inspect all welds.
   3. Ultrasonic Inspection: ASTM E164; perform on all full penetration welds.
   4. Liquid Penetrant Inspection: ASTM E165.
   5. Magnetic Particle Inspection: ASTM E709; performed on <_____>.
   6. Radiographic Inspection: ASTM E94; performed on <_____>.

D. Correct defective bolted connections and welds.

END OF SECTION

SECTION 05310 - STEEL DECK REPAIR/REPLACEMENT (If Required)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:
   1. Roof deck repair/replacement.

1.3 SUBMITTALS

A. Product Data: For each type of deck, accessory, and product indicated.

B. Product Certificates: For each type of steel deck, signed by product manufacturer.

C. Welding certificates.

D. Field quality-control test and inspection reports.

1.4 QUALITY ASSURANCE

A. Welding: Qualify procedures and personnel according to AWS D1.3, "Structural Welding Code - Sheet Steel."

B. AISI Specifications: Comply with calculated structural characteristics of steel deck according to AISI's "North American Specification for the Design of Cold-Formed Steel Structural Members."

C. FMG Listing: Provide steel roof deck evaluated by FMG and listed in its "Approval Guide, Building Materials" for Class 1 fire rating and Class 1-90 windstorm ratings.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Protect steel deck from corrosion, deformation, and other damage during delivery, storage, and handling.

B. Stack steel deck on platforms or pallets and slope to provide drainage. Protect with a waterproof covering and ventilate to avoid condensation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. Steel Deck:
      a. Nucor Corp.; Vulcraft Division.
      b. Roof Deck, Inc.
      c. United Steel Deck, Inc.
      d. Verco Manufacturing Co.
      e. Wheeling Corrugating Company; Div. of Wheeling-Pittsburgh Steel Corporation.

2.2 ROOF DECK

A. Steel Roof Deck: Fabricate panels, without top-flange stiffening grooves, to comply with "SDI Specifications and Commentary for Steel Roof Deck," in SDI Publication No. 30, and with the following:
   1. Galvanized Steel Sheet: ASTM A 653/A 653M, Structural Steel (SS), Grade, G90 zinc coating.
   2. Deck Profile: Match existing.
   3. Profile Depth: Match existing.
   4. Design Uncoated-Steel Thickness: Match existing.
   5. Span Condition: Double span.
   6. Side Laps: Overlapped or interlocking seam at Contractor's option.

2.3 ACCESSORIES

A. General: Provide manufacturer's standard accessory materials for deck that comply with requirements indicated.

B. Mechanical Fasteners: Corrosion-resistant, self-drilling, self-threading screws.

C. Side-Lap Fasteners: Corrosion-resistant, hexagonal washer head; self-drilling, carbon-steel screws, No. 10 minimum diameter.

D. Flexible Closure Strips: Vulcanized, closed-cell, synthetic rubber.

E. Miscellaneous Sheet Metal Deck Accessories: Steel sheet, minimum yield strength of 33,000 psi, not less than 0.0359-inch design uncoated thickness, of same material and finish as deck; of profile indicated or required for application.

F. Weld Washers: Uncoated steel sheet, shaped to fit deck rib, 0.0747 inch thick, with factory-punched hole of 3/8-inch minimum diameter.

G. Galvanizing Repair Paint: ASTM A 780.

H. Repair Paint: Manufacturer's standard rust-inhibitive primer of same color as primer.

PART 3 - EXECUTION

3.1 DEMOLITION AND DETERIORATED DECKING REPLACEMENT

A. Demolition and disposal of existing roof deck system.
   1. Remove and properly dispose of all damaged or deteriorated components of existing roof deck system down to existing structural supports.
   2. Exercise extreme caution over all areas of the occupied building. Provide a safety monitor inside building or under decking to be removed at all times during demolition and insure all building occupants are relocated prior to any demolition of the roof deck overhead.

3.2 EXAMINATION

A. Examine supporting frame and field conditions for compliance with requirements for installation tolerances and other conditions affecting performance.

3.3 INSTALLATION, GENERAL

A. Install deck panels and accessories according to applicable specifications and commentary in SDI Publication No. 30, manufacturer's written instructions, and requirements in this Section.

B. Install temporary shoring before placing deck panels, if required to meet deflection limitations.

C. Locate deck bundles to prevent overloading of supporting members.

D. Place deck panels on supporting frame and adjust to final position with ends accurately aligned and bearing on supporting frame before being permanently fastened. Do not stretch or contract side-lap interlocks.

E. Place deck panels flat and square and fasten to supporting frame without warp or deflection.

F. Cut and neatly fit deck panels and accessories around openings and other work projecting through or adjacent to deck.

G. Comply with AWS requirements and procedures for manual shielded metal arc welding, appearance and quality of welds, and methods used for correcting welding work.

H. Mechanical fasteners may be used in lieu of welding to fasten deck. Locate mechanical fasteners and install according to deck manufacturer's written instructions.

3.4 ROOF-DECK INSTALLATION

A. Fasten roof-deck panels to steel supporting members by arc spot (puddle) welds of the surface diameter indicated or arc seam welds with an equal perimeter that is not less than 1-1/2 inches long, and as follows:
   1. Weld Diameter: Match welds of existing deck to remain, but not less than 5/8 inch, nominal.
   2. Weld Spacing: Weld edge and interior ribs of deck units with a minimum of two welds per deck unit at each support. Space welds to match spacing of welds on existing deck units, but not less than 18 inches apart, maximum.
   3. Weld Washers: Install weld washers at each weld location.

B. Side-Lap and Perimeter Edge Fastening: Fasten side laps and perimeter edges of panels between supports, at intervals not exceeding the lesser of 1/2 of the span or 36 inches, and as selected from following to match existing deck unit installation :
   1. Mechanically fasten with self-drilling, No. 10 diameter or larger, carbon-steel screws.
   2. Mechanically clinch or button punch.
   3. Fasten with a minimum of 1-1/2-inch- long welds.

C. End Bearing: Install deck ends over supporting frame with a minimum end bearing of 1-1/2 inches, with end joints as follows:
   1. End Joints: Lapped 2 inches minimum.

D. Miscellaneous Roof-Deck Accessories: Install ridge and valley plates, finish strips, end closures, and reinforcing channels according to deck manufacturer's written instructions. Weld or mechanically fasten to substrate to provide a complete deck installation.
   1. Weld cover-plates at changes in direction of roof-deck panels, unless otherwise indicated.

3.5 REPAIRS AND PROTECTION

A. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on both surfaces of deck with galvanized repair paint according to ASTM A 780 and manufacturer's written instructions.

B. Repair Painting: Wire brush and clean rust spots, welds, and abraded areas on both surfaces of prime-painted deck immediately after installation, and apply repair paint.
   1. Apply repair paint, of same color as adjacent shop-primed deck, to bottom surfaces of deck exposed to view.

C. Repair Painting: Wire brushing, cleaning, and repair painting of rust spots, welds, and abraded areas of both deck surfaces as required.

D. Provide final protection and maintain conditions to ensure that steel deck is without damage or deterioration at time of Substantial Completion.

END OF SECTION 05310

HIDALGO COUNTY SHERIFF'S OFFICE
Hidalgo County Adult Detention Center and
Law Enforcement Facility Repairs and / or Replacement
Edinburg, TX

SECTION 06105 - MISCELLANEOUS CARPENTRY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:
   1. Rooftop equipment bases and support curbs.
   2. Wood blocking, cants, and nailers.
   3. Wood Structural panels.

1.3 DEFINITIONS

A. Lumber grading agencies, and the abbreviations used to reference them, include the following:
   1. NELMA - Northeastern Lumber Manufacturers Association.
   2. NLGA - National Lumber Grades Authority.
   3. SPIB - Southern Pine Inspection Bureau.
   4. WCLIB - West Coast Lumber Inspection Bureau.
   5. WWPA - Western Wood Products Association.

1.4 SUBMITTALS

A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.
   1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Indicate type of preservative used, net amount of preservative retained, and chemical treatment manufacturer's written instructions for handling, storing, installing, and finishing treated material.

B. Research/Evaluation Reports: For the following, showing compliance with building code in effect for Project:
   1. Preservative-treated wood.

1.5 QUALITY ASSURANCE

A. Forest Certification: For the following wood products, provide materials produced from wood obtained from forests certified by an FSC-accredited certification body to comply with FSC 1.2, "Principles and Criteria":

1. Miscellaneous lumber.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Stack lumber, plywood, and other panels; place spacers between each bundle to provide air circulation. Provide for air circulation around stacks and under coverings.

PART 2 - PRODUCTS

2.1 WOOD PRODUCTS, GENERAL

A. Lumber: DOC PS 20 and applicable rules of lumber grading agencies certified by the American Lumber Standards Committee Board of Review.
   1. Factory mark each piece of lumber with grade stamp of grading agency.
   2. For exposed lumber indicated to receive a stained or natural finish, mark grade stamp on end or back of each piece.
   3. Where nominal sizes are indicated, provide actual sizes required by DOC PS 20 for moisture content specified. Where actual sizes are indicated, they are minimum dressed sizes for dry lumber.
   4. Provide dry lumber with 15 percent maximum moisture content at time of dressing for 2-inch nominal thickness or less, unless otherwise indicated.

B. Wood Structural Panels:
   1. Plywood: Either DOC PS 1 or DOC PS 2, unless otherwise indicated.
   2. Thickness: As needed to comply with requirements specified but not less than thickness indicated.
   3. Factory mark panels according to indicated standard.

2.2 WOOD-PRESERVATIVE-TREATED MATERIALS

A. Preservative Treatment by Pressure Process: AWPA C2 (lumber), except that lumber that is not in contact with the ground and is continuously protected from liquid water may be treated according to AWPA C31 with inorganic boron (SBX).
   1. Preservative Chemicals: Acceptable to authorities having jurisdiction and one of the following:
      a. Chromated copper arsenate (CCA).
      b. Ammoniacal copper zinc arsenate (ACZA).
      c. Ammoniacal, or amine, copper quat (ACQ).
      d. Copper bis (dimethyldithiocarbamate) (CDDC).
      e. Ammoniacal copper citrate (CC).
      f. Copper azole, Type A (CBA-A).
      g. Oxine copper (copper-8-quinolinolate) in a light petroleum solvent.
   2. For exposed items indicated to receive a stained or natural finish, use chemical formulations that do not require incising, contain colorants, bleed through, or otherwise adversely affect finishes.

B. Kiln-dry material after treatment to a maximum moisture content of 15 percent for plywood. Do not use material that is warped or does not comply with requirements for untreated material.

C. Mark each treated item with the treatment quality mark of an inspection agency approved by the American Lumber Standards Committee Board of Review.

D. Application: Treat items indicated on Drawings, and the following:
   1. Wood cants, nailers, curbs, equipment support bases, blocking, stripping, and similar members in connection with roofing, flashing, vapor barriers, and waterproofing.
   2. Wood sills, sleepers, blocking, furring, stripping, and similar concealed members in contact with masonry or concrete.
   3. Wood framing members less than 18 inches above grade.
   4. Wood floor plates that are installed over concrete slabs directly in contact with earth.

2.3 MISCELLANEOUS LUMBER

A. General: Provide lumber for support or attachment of other construction, including the following:
   1. Rooftop equipment bases and support curbs.
   2. Blocking.
   3. Cants.
   4. Nailers.

B. For concealed boards, provide lumber with 15 percent maximum moisture content and any of the following species and grades:
   1. Mixed southern pine, No. 2 grade; SPIB.
   2. Hem-fir or Hem-fir (north), Standard or 3 Common grade; NLGA, WCLIB, or WWPA.
   3. Spruce-pine-fir (south) or Spruce-pine-fir, Standard or 3 Common grade; NELMA, NLGA, WCLIB, or WWPA.
   4. Eastern softwoods, No. 3 Common grade; NELMA.
   5. Northern species, No. 3 Common grade; NLGA.
   6. Western woods, Standard or No. 3 Common grade; WCLIB or WWPA.

2.4 WOOD PANEL PRODUCTS

A. Miscellaneous Concealed Plywood: Exterior sheathing, span rating to suit framing in each location, and thickness as required to match existing but not less than 1/2 inch.

2.5 FASTENERS

A. General: Provide fasteners of size and type indicated that comply with requirements specified in this Article for material and manufacture.
   1. Type 316 Stainless Steel, flat head, ring shank, diamond point roofing nails as manufactured by Stainless Fasteners, or equal. (Galvanized nails are not permitted to fasten into treated lumber.)

2. Length: Sufficient to penetrate wood blocking or nailers 1-1/4 inches.

B. Wood Screws: ASME B18.6.1.

C. Lag Bolts: ASME B18.2.1.

D. Bolts: Steel bolts complying with ASTM A 307, Grade A; with ASTM A 563 hex nuts and, where indicated, flat washers.

E. Expansion Anchors: Anchor bolt and sleeve assembly of material indicated below with capability to sustain, without failure, a load equal to 6 times the load imposed when installed in unit masonry assemblies and equal to 4 times the load imposed when installed in concrete as determined by testing per ASTM E 488 conducted by a qualified independent testing and inspecting agency.
1. Material: Carbon-steel components, zinc plated to comply with ASTM B 633, Class Fe/Zn 5.
2. Material: Stainless steel with bolts and nuts complying with ASTM F 593 and ASTM F 594, Alloy Group 1 or 2.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Discard units of material with defects that impair quality of carpentry and that are too small to use with minimum number of joints or optimum joint arrangement.

B. Set carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit carpentry to other construction; scribe and cope as needed for accurate fit. Locate nailers, blocking, and similar supports to comply with requirements for attaching other construction.

C. Apply field treatment complying with AWPA M4 to cut surfaces of preservative-treated lumber and plywood.

D. Securely attach carpentry work as indicated and according to applicable codes and recognized standards.

E. Countersink fastener heads on exposed carpentry work and fill holes with wood filler.

F. Use fasteners of appropriate type and length. Pre-drill members when necessary to avoid splitting wood.

3.2 WOOD BLOCKING, AND NAILER INSTALLATION

A. Install where indicated and where required for screeding or attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work involved.

B. Attach items to substrates to support applied loading. Recess bolts and nuts flush with surfaces, unless otherwise indicated.

3.3 WOOD PANEL PRODUCT INSTALLATION

A. Wood Structural Panels: Comply with applicable recommendations contained in APA Form No. E30K, "APA Design/Construction Guide: Residential & Commercial," for types of structural-use panels and applications indicated.

END OF SECTION 06105

SECTION 07210 - FOAMED-IN-PLACE INSULATION

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Spray-in-place semi-rigid open cell, ½ pound foam polyurethane foam insulation in various assemblies, to provide an air barrier and improved thermal resistance.

1.2 REFERENCES

A. American Society for Testing and Materials (ASTM):

1. ASTM C 518 - Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
2. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
3. ASTM E 96 - Standard Test Methods for Water Vapor Transmission of Materials.

B. International Code Council – International Building Code:

1. Section 104.11 Alternative materials, design and methods of construction and equipment.
2. Section 2603 Foam Plastic Insulation.

1.3 SUBMITTALS

A. Submit under provisions of Section 01300.

B. Before commencing work, submit in accordance with local code.

1. Submit technical data sheets and samples as required by local code officials.
2. Submit the technical data sheet from the manufacturer showing the test results from the ASTM E84 (Surface Burning Characteristics).

C. Product Data: Manufacturer's data sheets on each product to be used, including:

1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

1.4 QUALITY ASSURANCE

A. Installer Qualifications:

1. Contractor performing work under this section shall be trained by DEMILEC USA® in the art of applying spray polyurethane foam insulation.
2. Provide current DEMILEC USA® Authorized Contractor Certificate.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Materials shall be delivered in manufacturer's original containers clearly labelled with manufacturer's name, product identification, safety information, net weight of contents and expiration date.

B. Material shall be stored in a safe manner and where the temperatures are in the limits specified by the material manufacturer.

C. Empty containers shall be removed from site on a daily basis.

D. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.6 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

B. Ventilate insulation application area in accordance with the Spray Foam Coalition's Guidance[1] on best practices for the installation of Spray Polyurethane Foam.

C. Protect workers as recommended by the Spray Foam Coalition's Guidance[2] on best practices for the installation of Spray Polyurethane Foam.

D. Protect adjacent surfaces, windows, equipment and site areas from damage of overspray.

1.7 WARRANTY

A. Manufacturer's Warranty: DEMILEC USA® warrants spray-in-place urethane foam insulation, when installed by certified contractors using factory-trained applicators and applied in accordance with the Product Application Guide[3], will perform as stated in the Product Technical Data Sheet.

1. This warranty is in effect throughout the life of the building provided the original purchaser registers with the Warranty Department of the Manufacturer within thirty days of occupancy.

2. Manufacturer's sole responsibility under this Limited Lifetime Warranty shall be to repair or replace any defective Product at the cost of the material only.

3. Manufacturer shall not be responsible for labor cost or any other costs whatsoever related to, or in connection with the removal or installation of either the original or replacement product.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: DEMILEC USA

B. Substitutions: Equivalent as judged by Architect

2.2 SPRAY FOAM INSULATION

A. Spray Applied Semi Rigid Polyurethane Foam Insulation System: (Open Cell Foam)

1. Product: DEMILEC APX Manufactured by DEMILEC USA®, Arlington, TX.

2. Product Approval:

---

[1] http://www.spraypolyurethane.org/GoodPractices
[2] http://www.spraypolyurethane.org/WorkerProtection
[3] http://www.demilecusa.com/wp-content/uploads/2013/02/Demilec-APX-Product-Application-Guide.pdf

a. International Code Council Evaluation Services Report #3470.

b. Passed NFPA 286 in accordance with IBC 803.2. as an interior finish. Refer to section 3.b.1. of this specification for assembly details.

3. Installation:

a. Application without a Thermal or Ignition Barrier (exposed foam)

1) The prescriptive 15-minute thermal barrier or ignition barrier may be omitted when installation is in accordance with this section. DEMILEC APX Spray foam insulation and Blazelok TBX intumescent coating may be spray-applied to the interior facing of the walls and the underside of roof sheathing or roof rafters, and in crawl spaces, and may be left exposed as an interior finish without a prescribed 15-minute thermal barrier or ignition barrier. The foam plastic insulation thickness must not exceed 7 ½ inches (191 mm) in walls and 11 ½ inches (292 mm) in floors and ceilings. All foam surfaces must be covered with an 11-mil dry thickness (0.28 mm) [17 mils wet thickness (0.43 mm) of Blazelok TBX intumescent coating. The intumescent coating must be sprayed applied over the insulation in accordance with the coating manufacturer's instructions at a rate of 85 square feet per gallon (2.09m2/L).

b. Attics and Crawlspaces: Passed AC 377 Appendix X compliant NFPA 286.

1) The insulation may be spray-applied to the underside of the roof sheathing and/or rafters, to the underside of wood floors and to vertical surfaces as described in this section. The thickness of the foam plastic applied to the underside of the top of the space must not exceed 11 ¾" inches (298 mm), and the thickness when applied to vertical surfaces must not exceed 7 ¾" inches (197 mm). The insulation does not require an ignition barrier or coating.

4. Physical Properties:

a. Density (ASTM D 1622): 0.45 – 0.5 lb/cf (0.007 to 0.008 gm/cu. cm).

b. Thermal Resistance (ASTM C 518):

1) R-3.7 (sf.h degree F/BTU) @ 1 inch at 90 days at 76 degree F (24.4 degree C).

2) See ESR 3470 for R-value table.

c. Air Leakage (ASTM E 283-04):

1) 3.5 inches (89 mm) At 75 Pa (25 mph wind): 0.003 L/s•m².

d. Compressive Strength (ASTM D 1621): 1.1 psi.

e. Tensile Strength (ASTM D 1623): 3.7 lbf/sq. inch.

f. Water Vapor Transmission (ASTM E 96):

1) 1.008 inches (25 mm): 16.0 perms

g. Off Gassing Tests (VOC Emissions) Berkeley Analytical Certificate 130104-01: Pass or Compliant (No toxic vapors).

h. Surface Burning Characteristics (ASTM E 84) 4" inches (117 mm): Class I. Flame Spread Index 15, Smoke Developed Index 350.

5. Equipment used to apply the foam insulation shall have fixed ratio positive displacement pumps and approved by foam manufacturer.

6. Equipment used to apply the Water Based intumescing coating shall be an airless sprayer approved by the manufacturer.

   A. Water Based intumescing coating:
      1) Product: BLAZELOK™ TBX, Distributed by DEMILEC USA®, Manufactured by TPR^2.
      2) Approval: Complies with 2006 IRC 314.6, 2009 IRC 316.6, IBC 2603.9 and IBC 803.2 over *DEMILEC APX®* for use as an interior finish without a prescriptive thermal barrier.
      3) Application: Follow manufacturer's application recommendations.
      4) Physical Properties:
      5) Surface Burning Characteristics (ASTM E 84): Class I. Flame Spread Index <25, Smoke Developed Index <50.
      6) Expands up to 2000 percent.
      7) Flash Point: None
      8) Volatility/VOC: < 50 g/L
      9) Non-toxic, drain safe, water based, non-fuming.
      10) Can be latex or oil base top coated.
      11) Dull Flat White / Grey.

PART 3 EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

C. Commencement of work outlined in this section shall be deemed as acceptance of existing work and conditions.

3.2 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Apply only when surfaces and environmental conditions are within limits prescribed by the material manufacturer.

C. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

A. Install in accordance with manufacturer's instructions. Apply as recommended by manufacturer to thickness as indicated on drawings.

3.4 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION OF 07210

HIDALGO COUNTY SHERIFF'S OFFICE
Hidalgo County Adult Detention Center and
Law Enforcement Facility Repairs and / or Replacement
Edinburg, TX

SECTION 07551 – MODIFIED BITUMEN MEMBRANE ROOFING (RE-COVER)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following for roof re-cover over the existing built-up roof system at **The Hidalgo County Adult Detention Center and Law Enforcement Center**:
   1. Perform a Thermocore® Infrared Scan of the entire roof system to determine if any wet areas exist within the existing roof system.
   2. Remove all trash, dirt and debris from the roof surface.
   3. Remove ALL existing gravel from the roof surface as required to provide smooth clean roof surface to receive the new Re-cover Roof System. Repair all damaged roof membrane as required to maintain a leak-free roof system prior to installing the new Re-Cover Roof System.
   4. Remove existing roofing and insulation in ALL wet areas as identified by the Thermocore® Infrared Scan and provide roof repairs consisting of the following:
      a. One (1) layer of polyisocyanurate roof insulation (thickness as required to match existing) mechanically fastened to the metal roof deck.
      b. One (1) layer of perlite roof insulation (thickness as required to match existing) adhered to the base layer of roof insulation with the specified cold process adhesive.
      c. Two (2) plies of Coated Polyester/Glass/Polyester Trilaminate reinforced ply sheet adhered with cold process asphalt adhesive.
      d. Allowance: In the Base Proposal, allow for Wet Roof System replacement as follows:
         1) 1,000 square feet.
      e. Metal roof deck repairs, if required:
         1) Examine exposed metal deck and repair or replace if necessary using unit pricing.
   5. Install new treated wood nailers as required by the new roof system. See Section 06105 – Miscellaneous Carpentry.
   6. Replace deteriorated wood blocking and nailers as required.
      a. Allowance: In the Base proposal, allow for replacement and/or repair of the deteriorated existing wood blocking and nailers as follows:
         1) 300 board feet
   7. Install a new Roof Re-cover System as follows:
      a. One (1) layer of 1/2" glass mat faced gypsum with non-asphaltic, highly filled proprietary heat-cured coating on one side, mechanically attached through the existing roofing system to the existing metal deck in accordance with local wind resistance requirements.

b. One (1) ply of ASTM D 6223, Type II, Grade S, polyester and fiberglass reinforced, smooth surfaced, APP-modified asphalt sheet, heat-welded to the properly prepared substrate.
c. One (1) ply of ASTM D 6223, Type II, Grade G, polyester and fiberglass reinforced, granule surfaced, APP-modified asphalt sheet, heat-welded to the base ply.

8. Install new base flashings at all equipment curbs and roof transitions as follows:
   a. One (1) ply of ASTM D 6223, Type II, Grade S, polyester and fiberglass reinforced, smooth surfaced, APP-modified asphalt sheet, heat-welded to the properly prepared substrate.
   b. One (1) ply of ASTM D 6223, Type II, Grade G, polyester and fiberglass reinforced, granule surfaced, APP-modified asphalt sheet, heat-welded to the base ply.
9. Install new sheet metal flashings and trim as required, including but not limited to coping, fascia, counterflashing, pitch pans, scuppers, conductors, gutters and downspouts.
   a. Provide 24 gauge Galvalume coated with Kynar 500 / Hylar 5000 for all flashings visible to the general public.
   b. Provide 24 gauge Galvalume coated steel for all flashing not readily visible to the general public.
10. Remove existing conductors and downspouts as required to facilitate replacement of the existing primary drainage scupper sleeves with new stainless steel scupper sleeves. Re-use the existing conductors and downspouts. If re-installation is not possible, replace existing conductors and downspouts with new pre-finished sheet metal to match existing as required.
11. Install new over-flow scuppers as indicated on the roof plan. One over-flow scupper will be required for each existing primary scupper. Over-flow scuppers must be at least the same size as the existing primary scupper. The bottom of each new over-flow scupper must be placed at least two inches (2") but no more than four inches (4") above the bottom of the existing adjacent primary scuppers.
12. Replace all existing roof hatches with new roof hatches of similar design and construction.
13. Install parapet wall waterproofing above the new sheet metal counterflashing at the base of the wall wrapped over the top of the parapet wall under the new sheet metal coping consisting of two (2) layers of one-part, asbestos-free, non-fibrated, cold-applied, rubberized asphalt emulsion reinforced with one (1) ply of stitch-bonded polyester reinforcing fabric and coated with intumescent, fire-retardant, white reflective, elastomeric, acrylic latex roof coating.
14. Parapet and other walls above the roof system currently coated with tinted elastomeric coating will be re-coated with exterior grade fibrated elastomeric coating tinted to match the existing wall color.
15. Mechanical and Electrical work as required to facilitate re-cover roofing. Including disconnecting and re-connecting, raising or relocating mechanical equipment, vents, piping, conduit, curbs, or other roof top items. Some mechanical units on this roof will be replaced with new units and new curbs. Some units will remain. Co-ordinate all mechanical unit work so that ALL units and curbs are installed at the proper eight inch (8") height above the new roof system.
16. All existing and new piping including but not limited to gas lines, conduit, etc. must be disconnected and raised (if required) and placed on proper pipe supports. Reconnection and testing shall be included as required.
17. Provide a ten (10) year manufacturer's warranty.

B. Related Sections include the following:
   1. Division 06 Section "Miscellaneous Rough Carpentry" for wood nailers, curbs, and blocking.
   2. Division 07 Section "Flashing and Sheet Metal".

C. Allowances: Refer to Division 1 Section "Allowances" for description of Work in this Section affected by allowances.
   1. Wet Roof System Replacement: 1,000 square feet.
   2. Wood Blocking and Nailer Replacement: 300 board feet.

D. Unit Prices: Refer to Division 1 Section "Unit Prices" for description of Work in this Section affected by unit prices.
   1. Wet Roof System Replacement: $/square foot.
   2. Metal Roof Deck Repair/Replacement: $/square foot.
   3. Wood Blocking and Nailer Repair/Replacement: $/board foot.

E. Alternates: Refer to Division 1 Section "Alternates" for description of Work in this Section affected by alternates.
   1. Alternate No. 1: Provide a Fifteen (15) Year Manufacturer's Warranty
   2. Alternate No. 2: Provide a Ten (10) Year Manufacturer's Maintenance and Service Agreement including annual inspections with general maintenance and housing documented with photographs and recommendations.
   3. Alternate No. 3: Provide a Fifteen (15) Year Manufacturer's Maintenance and Service Agreement including annual inspections with general maintenance and housing documented with photographs and recommendations.

1.3 DEFINITIONS

A. Roofing Terminology: Refer to ASTM D 1079 and glossary of NRCA's "The NRCA Roofing and Waterproofing Manual" for definition of terms related to roofing work in this Section.

1.4 PERFORMANCE REQUIREMENTS

A. General: Provide installed roofing membrane and base flashings that remain watertight; do not permit the passage of water; and resist specified uplift pressures, thermally induced movement, and exposure to weather without failure.

B. Material Compatibility: Provide roofing materials that are compatible with one another under conditions of service and application required, as demonstrated by roofing manufacturer based on testing and field experience.

C. Roofing System Design: The Contractor will provide field verification of roof wind uplift resistance in accordance with FM Global Property Loss Prevention Data Sheet 1-52 as follows:
   1. Once a representative section of the new Roofing Re-cover System (approximately 1,000 square feet) has been installed, at least three (3) bonded uplift tests will be performed. One each in the field, perimeter and corner of the completed roof section.
   2. Test results will be provided to the Owner's representative for evaluation and recommendation before the roofing re-cover operation may be resumed.

3. Preparation for testing and all roof repairs will be provided by the contractor.

D. Roofing Membrane System Load-Strain Properties: Provide a roofing membrane identical to component systems that have been successfully tested by a qualified independent testing and inspecting agency to meet the following minimum load-strain properties at membrane failure when tested according to ASTM D 2523:
   1. Tensile strain at failure, at 0 deg. F: 203.46 lbf/in machine direction, minimum; 5.87 percent elongation, maximum.
   2. Tensile strain at failure, at 0 deg. F: 185.57lbf/in cross-machine direction, minimum; 5.73 percent elongation, maximum.

E. Flashings: Comply with requirements of Division 7 Section "Sheet Metal Flashing and Trim." Provide base flashings, perimeter flashings, detail flashings and component materials that comply with requirements and recommendations of the following:
   1. NRCA Roofing and Waterproofing Manual (Fifth Edition) for construction details and recommendations.
   2. SMACNA Architectural Sheet Metal Manual (Fifth Edition) for construction details.
   3. ANSI/SPRI ES-1, "Wind Design Standard for Edge Metal Systems Used with Low Slope Roof Systems".

1.5 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Installer Certificates: Signed by roofing system manufacturer certifying that Installer is approved, authorized, or licensed by manufacturer to install roofing systems.

C. Manufacturer Certificates: Signed by roofing manufacturer certifying that roofing system complies with requirements specified in "Performance Requirements" Article.
   1. Submit evidence of meeting performance requirements.

D. Maintenance Data: For roofing system to include in maintenance manuals.

E. Warranties: Special warranties specified in this Section.

1.6 SUBSTITUTIONS

A. General:
   1. Refer to Division 1, Section 01430 – Quality Assurance.
   2. ONLY Substitutions approved in writing by the architect/owner prior to the scheduled bid date will be considered.
   3. Notification of approvals will be issued at least five (5) days before the scheduled bid date.
   4. Architect/Owner reserves the right to be final authority on acceptance or rejection of any substitution request.

B. When a particular make or trade name is specified, it shall be indicative of standard required. Bidders proposing substitutes shall submit the following ten (10) days prior to bid date to the Architect; requests received after that time will not be considered.
   1. Written application with explanation of why it should be considered.
   2. Independent laboratory certification providing written confirmation that the physical and performance characteristics of the substitute material/system will meet the physical and performance characteristics of the specified materials and or system.

C. Submit five copies of request for substitution. Items to be included in the request:
   1. Complete data substantiating compliance of proposed substitution.
   2. Product identification, including manufacturer's literature and manufacturer's name.
   3. Current certificate from an accredited testing laboratory comparing the physical and performance attributes of the proposed material with those of the specified materials. Test results must be dated, notarized, and on testing laboratory stationary.
   4. A five gallon sample of any adhesive, coating, or mastic and a 3' x 5', sample of sheeting goods specified. Original labels must be on the containers; smaller containers may be submitted if original labels are attached. This sample should be wet applied in its final configuration. The Architect will review the installed sample.
   5. Material Safety Data Sheets providing all pertinent data as to flammability, combustibility.
   6. List of at least (5) five jobs as described under the requirements where the proposed alternate material was used under similar conditions. These jobs must be available for inspection by the Architect. Names and phone numbers are required for verification. Submit a minimum of 200,000 square feet for review. Submitted projects must be a minimum of (5) years old.
   7. Notarized statement from the Roof System Manufacturer, signed by a corporate officer of the corporation stating that:
      a. All Documents have been reviewed and are approved.
      b. The Project site has been inspected.
      c. The Roofing System Manufacturer will provide two (2) field inspections weekly; during, and until all construction work is complete and accepted by the owner. A full time employee of the manufacturer must perform inspections.
      d. Provide documentation of the proposed alternate system passing the specified regulatory requirements. Documentation must be on the specified regulatory requirements letterhead or approval guide. No third party testing will be accepted.

D. In making substitution request, Bidder/Contractor represents:
   1. He has personally investigated proposed product or method, and determined that it is equal or superior in all respects to that specified. Additionally, he will have a technical service representative of the proposed manufacturer attend the pre-bid meeting.
   2. He will provide the same guarantee for substitution as for those specified.
   3. He will coordinate installation of accepted substitution in work, making such changes as may be required for work to be completed in all respects.
   4. Advise the owner of any credit savings or additional costs as opposed to the system type specified.

E. Substitutions will <u>not</u> be considered if:
   1. Product or method to be considered does not have a minimum of (5) five years of successful performance in roofing and re-roofing of similar applications.
   2. Any discrepancies in the test data, or if the tests or submittals are incomplete.

3. They are indicated or implied on Shop Drawings or Project Data Submittals without formal request submitted in accordance with the specification document.
4. Acceptance requires significant revision of documents.
5. Only substitutes approved in writing by prior to scheduled cut off date will be considered.
6. Notification of approvals will be mailed at least 3 days before bid opening.
7. The owner will not incur any additional costs for design or construction costs.

1.7 QUALITY ASSURANCE

A. General: Refer to Division 1, Section "Quality Assurance".

B. Manufacturer Qualifications:
1. A qualified manufacturer that can meet the basis of design as established in Part 2 – Products.
2. Manufacturer shall provide inspections (2) times each week to verify accuracy of installation and provide a written report to the Contractor for submittal to the architect.

C. Installer Qualifications:
1. Have experience in processed built-up roofing for a minimum of five (5) years.
2. Contractors must be Certified/Approved by the specified Primary Material Manufacturer.

D. Approval of Roofing Contractors:
1. Roofing Contractors included in the following list are the only pre-approved installers that can install and provide the warranty for the specified roof system.
   a. American Contracting USA, Inc., Rio Hondo, Texas (956) 748-4030.
   b. Rio Roofing Inc., Harlingen, Texas (956) 423-3359.
   c. Sechrist-Hall Company, Inc., Harlingen, Texas (956) 423-7086.
   d. Haeber Roofing Company, Corpus Christi, Texas (361) 851-8142.
   e. Port Enterprises, Inc. Corpus Christi, Texas (361) 289-2944.
   f. Sechrist-Hall Company, Inc., Corpus Christi, Texas (361) 884-5264.
   g. Easley Construction, Inc., Victoria, Texas (361) 575-0294.
   h. Rain King, Victoria, Texas (361) 576-0606.
   i. Rain Seal Master Roofing and Sheet Metal, Inc., Victoria, Texas (361) 576-0926.
2. Roofing Contractors not on the list, that would like to bid on the proposed project, must complete the required qualification statement and must meet all requirements in the contract documents. Contractors, who are not approved by the Architect, will not be allowed to bid the project. Qualification statements may be requested from the technical roofing consultant and the local chapter of the American Institute of Architects.
3. Installer must provide (2) manufacturer inspections each week.
   a. Noncompliance may result in an $850 per day fee for missing inspections.

E. Source Limitations: Obtain components for roofing system from or approved by roofing system manufacturer.

F. Pre-installation Conference: Conduct conference at Project site. Comply with requirements in Division 1 Section "Project Management and Coordination." Review methods and procedures related to roofing system including, but not limited to, the following:
1. Meet with Owner, Architect, Owner's insurer if applicable, testing and inspecting agency representative, roofing Installer, roofing system manufacturer's representative, deck

installer, and installers whose work interfaces with or affects roofing including installers of roof accessories and roof-mounted equipment.

2. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
3. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
4. Examine deck substrate conditions and finishes for compliance with requirements, including flatness and fastening.
5. Review structural loading limitations of roof deck during and after roofing.
6. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that will affect roofing system.
7. Review governing regulations and requirements for insurance and certificates if applicable.
8. Review temporary protection requirements for roofing system during and after installation.
9. Review roof observation and repair procedures after roofing installation.

G. Random Sampling
1. During course of work, the Architect may secure samples according to ASTM D140-93 of materials being used from containers at job site and submit them to an independent laboratory for comparison to specified material.
2. Should test results prove that material is not equal to specified material:
   a. Contractor shall pay for all testing.
   b. Roofing installed and found not to comply with the specifications shall be removed and replaced with no change in the contract price.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, and directions for storage.

B. Storage of Materials
1. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.
   a. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.
2. Store materials marked "keep from freezing" in areas where temperatures will remain above 40 deg F.
3. For insulation, remove plastic packaging shrouds. For felt rolls, slit the top of the plastic shrink-wrap only. Cover top and sides of all stored materials with tarpaulin. Secure tarpaulin. Store in a dry location. Comply with manufacturer's written instructions for handling, storing, and protecting during installation.
4. Store rolls of felt and other sheet materials on end on pallets or other raised surfaces.
5. Do not double-stack rolls.
6. Rooftop storage: Disperse material to avoid concentrated loading.
7. Materials may not be stored without a canvass tarpaulin, or on direct contact with the ground or roof surface. Do not leave unused felts and other sheet materials on the roof

overnight or when roofing work is not in progress unless protected from weather and moisture and unless maintained at a temperature exceeding 50 deg F.

8. Should Contractor be required to quickly cover material temporarily, such as during an unanticipated rain shower, all materials shall be stored on a raised platform covered with secured canvas tarpaulin, top to bottom.
9. Contractor is responsible for the safekeeping of materials stored onsite.

C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.

D. Handle and store roofing materials and place equipment in a manner to avoid permanent deflection of deck.

1.9 PROJECT CONDITIONS

A. Weather Limitations:
1. Proceed with roofing work only when existing and forecasted weather conditions permit roofing to be installed according to manufacturers' written instructions and warranty requirements.
   a. Do not work in rain, snow, or in presence of water.
   b. Do not work in temperatures below 40 deg. F.
   c. Do not install materials marked "keep from freezing" when daily temperatures are scheduled to fall below 40 deg. F.
   d. Remove any work exposed to freezing.
   e. Advise the owner when volatile materials are to be used near air ventilation intakes so that they can be shut down or blocked, as the owner requires.

1.10 WARRANTY

A. Special Roofing Manufacturer's Warranty:
1. The warranties specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.
2. Upon project completion, Manufacturer acceptance, and once complete payment has been received; the contractor shall deliver to the Owner a Ten (10) year Quality Assurance Warranty and Owner's Manual. The Manufacturer must, during the second, fifth, and tenth year of the warranty, inspect and provide a written Executive Summary.
3. The Manufacturer's Warranty must include labor & material coverage against leakage on all components; including those manufactured by others. Included are the following:
   a. Base sheet and fasteners.
   b. Insulation materials and adhesives.
   c. All roof membrane components and adhesives.
   d. All wood blocking and fastening components.
   e. All perimeter flashing metal components.
   f. All tapered edge and cant strips.
   g. All existing or new counter flashing.

h. All surface mastics, coatings, stripping ply, etc.
i. All drain assemblies, scuppers, expansion joints, pitch pans and other components, excluding interior plumbing.
j. Any leaks or other problems caused by substrate movement, excluding decks.
k. Cover against damages from wind speeds up to hurricane force winds as outlined within the Beaufort Scale.

B. Special Roofing Manufacturer's Warranty **(Alternate #1):**
1. Same as above except with a Fifteen (15) year term.

C. Special Project Warranty:
1. Submit Roofing Installer's Warranty, on the warranty form at the end of this Section, signed by the Installer, covering the work of this Section, including membrane roofing, base flashing, roofing insulation, fasteners, sheet metal components, and vapor retarders, if any, for the following warranty period. Roofing contractor shall provide a letter to the architect stating that the roofing contractor will agree to participate in allowances and adjustments for 2 years of the warranty period. It must be determined by the architect and the roof system manufacturer that the defects in the roofing assembly are a result of application and workmanship errors. All defects noted during this time period will be corrected by the roof contractor at their expense.
2. Roof Installers Warranty Period: 2 years from the date of substantial completion.

D. Maintenance Service Agreement **(Alternate #2):**
1. Roof Management and Maintenance Specification: The following services will be provided to the building owner on an annual basis, for a period of Ten (10) years, utilizing employees under the direct supervision of Weatherproofing Technologies, Inc.
2. Roof Inspection Report: Provide report of roof conditions based upon roof inspections.
3. Storm Reports, Monitoring and Follow-up: Roof inspection at building owner request of roof areas after major storm activity.
4. Annual Roof Top Housekeeping:
   a. Inspect roof membrane, drains, gutters, and scuppers of debris.
   b. Remove, bag and properly dispose of all debris from the roof membrane, drains, gutters and scuppers.
5. Annual Roof Preventative Maintenance to Include the following:
   a. Metal Edge Flashing Components: Tears, splits, and breaks in the membrane flashings will be repaired with appropriate repair mastics and membranes. Open flashing strip-ins will be repaired with appropriate mastics and membranes. Metal edge cleats and clips will be re-secured. Exposed fasteners will be re-sealed.
   b. Parapet Wall and Counterflashing Systems: Tears, splits and breaks in the flashings will be repaired with the appropriate repair mastics and membranes. Breaks, tears and splits in flashing strip-ins will be repaired with appropriate repair mastics and membranes. Coat all exposed reinforcing membranes with approved mastics. Exposed fasteners will be re-sealed. Void in termination bars, counterflashings and parapet caps will be cleaned and re-sealed. Re-secure termination bars and counterflashings. Check and re-secure loose metal coping caps to cleats.
   c. Equipment/Projection Flashing Components: Tears, splits and breaks in the flashings will be repaired with appropriate mastics and membranes. Open or split flashing strip-ins will be repaired with appropriate mastic and membrane. Unsecured roof top equipment will be secured. Exposed fasteners will be

tightened and re-sealed. Termination bars and counterflashings will be sealed. All pitch pans will be refilled and topped off. Metal projections (hoods and clamps) will be checked and re-sealed.

d. Roof Membrane Preventative Maintenance and Repair: Tears, splits and breaks in the roof membrane will be repaired with the appropriate repair mastic and membranes. All membrane repairs will follow the Manufacturer's written repair and maintenance guidelines. Dress up reflective coatings on flashings. Coat all exposed reinforcing membranes with approved mastics.

e. Drains, Gutters and Scuppers: Check and re-secure drain bolts and clamping rings. Advise owner of missing drain dome strainers. Check strip-ins around drain leads, coat with approved mastic. Check gutter straps, joints and strip-ins. Check inside and exterior of scuppers for open solder or caulking seals.

6. Leak response responsibilities of the Manufacturer to Building Owner:
   a. In the event that a leak should occur:
      (1) Provide toll free 800 number for Owner to call in leak report. Number will be monitored twenty-four (24) hours a day, 365 days a year.
      (2) Provide a response to Owner on all leak calls within twenty-four (24) of when call is made.
      (3) Provide a repair crew, at the building site, within two (2) business days of the call.
      (4) Provide follow-up inspection to ensure that repairs were made properly.
7. Monitor all leak events and response and provide a written quarterly summary if leaks have occurred. Deliver to Owner at the end of each quarter when leaks have occurred.

E. Maintenance Service Agreement **(Alternate #3):**
   1. Same as above except with a Fifteen (15) year term.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In Part 2 articles where titles below introduce lists, the following requirements apply for product selection:
   1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the products specified.
   2. Available Manufacturers: Any manufacturer properly submitting **all** required information in accordance with Section 1.06 and complying with **all** requirements of these specifications. Inclusion in the list below does not constitute prior approval. All manufacturers must submit verification of compliance with all of the performance and physical characteristics of the specified materials. All manufacturers must submit verification that all services and technical support indicated in the specifications and under the terms of the warranty will be provided.
      a. Basis of Design:
         1) Tremco Inc., Cleveland, OH (216) 292-5000.

B. The products listed within are used to establish a basis of design.
   1. Refer to section 01600 – Product Requirements within the General Conditions.

2.2 ROOFING MEMBRANE PLIES

A. Base Ply Sheet heat welded to new re-cover board: Provide one (1) ply of ASTM D 6223, Type II, Grade S, polyester and fiberglass reinforced, smooth surfaced, APP-modified asphalt sheet, heat-welded to the properly prepared substrate.
   1. Performance requirements:
      a. Thickness, 160 mils, ASTM D 6222-98
      b. Tensile Strength at 0 deg. F, 181 lbf/in (MD), 121 lbf/in (XMD), ASTM D 6222-98
      c. Tear Strength at 77 deg. F, 179 lbf /MD, 149 lbf /XMD, ASTM D 6222-98
      d. Elongation at 0 deg. F, 42% MD, 46% XMD, ASTM D 6222-98
      e. Low Temperature Flexibility, 10 deg. F, ASTM D 6222-98
      f. Dimensional Stability, 0.90% MD, 0.60% XMD, ASTM D 6222-98
   2. Basis of Design: Tremco POWERply APP Smooth.

B. Cap Sheet heat-welded to base ply sheet: Provide one (1) ply of ASTM D 6223, Type II, Grade G, polyester and fiberglass reinforced, granule surfaced, APP-modified asphalt sheet, heat-welded to the base ply.
   1. Performance requirements:
      a. Thickness, 180 mils, ASTM D 6222-98
      b. Tensile Strength at 0 deg. F, 151 lbf/in (MD), 105 lbf/in (XMD), ASTM D 6222-98
      c. Tear Strength at 77 deg. F, 175 lbf /MD, 143 lbf /XMD, ASTM D 6222-98
      d. Elongation at 0 deg. F, 38% MD, 42% XMD, ASTM D 6222-98
      e. Low Temperature Flexibility, 12 deg. F, ASTM D 6222-98
      f. Dimensional Stability, 0.90% MD, 0.60% XMD, ASTM D 6222-98
   2. Basis of Design: Tremco POWERply APP FR.

2.3 FLASHING MATERIALS

A. Backing Sheet heat-welded to properly prepared substrate: Provide one (1) ply of ASTM D 6223, Type II, Grade S, polyester and fiberglass reinforced, smooth surfaced, APP-modified asphalt sheet, heat-welded to the properly prepared substrate.
   1. Performance requirements:
      a. Thickness, 160 mils, ASTM D 6222-98
      b. Tensile Strength at 0 deg. F, 181 lbf/in (MD), 121 lbf/in (XMD), ASTM D 6222-98
      c. Tear Strength at 77 deg. F, 179 lbf /MD, 149 lbf /XMD, ASTM D 6222-98
      d. Elongation at 0 deg. F, 42% MD, 46% XMD, ASTM D 6222-98
      e. Low Temperature Flexibility, 10 deg. F, ASTM D 6222-98
      f. Dimensional Stability, 0.90% MD, 0.60% XMD, ASTM D 6222-98
   2. Basis of Design: Tremco POWERply APP Smooth.

B. Flashing Sheet heat-welded to backing sheet: Provide one (1) ply of ASTM D 6223, Type II, Grade G, polyester and fiberglass reinforced, granule surfaced, APP-modified asphalt sheet, heat-welded to the base ply.
   1. Performance requirements:
      a. Thickness, 180 mils, ASTM D 6222-98

b. Tensile Strength at 0 deg. F, 151 lbf/in (MD), 105 lbf/in (XMD), ASTM D 6222-98
c. Tear Strength at 77 deg. F, 175 lbf /MD, 143 lbf /XMD, ASTM D 6222-98
d. Elongation at 0 deg. F, 38% MD, 42% XMD, ASTM D 6222-98
e. Low Temperature Flexibility, 12 deg. F, ASTM D 6222-98
f. Dimensional Stability, 0.90% MD, 0.60% XMD, ASTM D 6222-98

2. Basis of Design: Tremco POWERply APP FR.

C. Glass-Fiber Seam Reinforcing Fabric: Woven glass reinforcement treated with organic resin complying with ASTM D 1668, Type III.
1. Basis of Design: Tremco Burmesh.

D. Flashing Sheet Coating Material: VOC compliant, asbestos free, reflective aluminum coating for all flashing joint stripping.
1. Performance Requirements:
a. VOC, 495 g/L, per ASTM D3960-93
b. Metallic Aluminum Content, 15% min, per ASTM D 2824-85
2. Basis of Design: Tremco Double-Duty Aluminum LV.

2.4 AUXILIARY MATERIALS

A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with built-up roofing.

B. Asphalt primer:
1. An asbestos free, modified water-based asphalt primer
2. Basis of Design: Tremco Tremprime WB.

C. Elastomeric mastic for stripping joints at base flashing membrane and miscellaneous waterproofing:
1. A single component, weather resistant, asbestos free durable roof elastomer, suitable for use over both asphalt and tar roof membranes.
2. Basis of Design: Tremco POLYroof LV.

D. Reinforcement membrane:
1. A non-shrinking, non-rotting, vinyl coated, woven glass mesh.
2. Basis of Design: Tremco Burmesh - 6".

E. Flashing tape for top edge of base flashing:
1. A flexible, non-drying, butyl-based, gasket-forming sealant tape.
2. Basis of Design: Tremco TF-Tape.

F. Asphalt mastic for miscellaneous sealing and waterproofing:
1. An asphalt-based, heavily fibrated, asbestos free mastic.
2. Basis of Design: Tremco ELS.

G. Pitch pan cement:
1. ASTM C 928-89, rapid hardening non-shrink grout.

H. Pitch pan mastic:
   1. High performance single component roof elastomer.
   2. Basis of Design: Tremco POLYroof LV

I. Metal Joint Sealant:
   1. An asbestos free, one-part, low modulus moisture curing, silicone sealant.
   2. Basis of Design: Tremco TremSEAL S.

J. Reglet Joint Sealant.
   1. One-part, bituminous polyurethane sealant.
   2. Basis of Design: Tremco Reglet Joint Sealant.

K. Vents and/or stacks:
   1. Galvanized Steel: ASTM A 526-85, sheet steel with 1.25 oz./sq. galvanized coating.
      a. Gage: Twenty-four (24).
      b. Solder: ASTM B32-89, alloy grade 60A. Neutralize flux after soldering.

L. Termination Bar for top edge of all base flashings:
   1. Extruded aluminum, pre-punched 8" o.c.

M. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening membrane to substrate, and acceptable to membrane roofing system manufacturer.

N. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, termination reglets, cover strips, and other accessories.

O. Metal Flashings:
   1. Provide Metal Flashings as specified in Division 7 Section "Sheet Metal Flashing and Trim".
   2. Metal flashings, counter flashings, pitch pans, scuppers, and like applications shall be fabricated and installed in accordance with:
      a. National Roofing Contractors Association Manual (NRCA).
   3. Fascia and other edge flashing details shall be fabricated and installed in accordance with:
      a. National Roofing Contractors Association Manual (NRCA).
      b. SMACNA Architectural Sheet Metal Manual (Fifth Edition) for construction details.
      c. ANSI/SPRI ES-1, "Wind Design Standard for Edge Metal Systems Used with Low Slope Roof Systems".
   4. Coping, fascia, gutters, conductor heads, downspouts and other visible sheet metal flashing:
      a. Galvanized, pre-painted: Twenty-four (24) gage minimum, galvanized steel; commercial quality, Fed. Spec. QQ-S-775, Type I, Class D or ASTM A 526 or lock forming quality ASTM A 527, G90 coating in accordance with ASTM A 525. All sheet metal to be pre-painted.
         1) Paint finish at exposed side: Factory applied baked-on two (2) coat system comprised of one (1) coat of full 70% resin fluorocarbon by Kynar 500 or

accepted substitute over a smooth coat of corrosion-resistant epoxy-based primer. Color as selected by owner.

2) Finish at underside shall be a wash coat over a coat of corrosion-resistant epoxy-based primer.

5. Counter flashing, slip flashing, pitch pans with hoods and other sheet metal flashings not visible to the general public:
   a. Galvanized Steel: ASTM A 526-85, sheet steel with 1.25 oz./sq. galvanized coating.
      1) Gage: Twenty-four (24).
      2) Solder: ASTM B32-89, alloy grade 50A. Neutralize flux after soldering.
6. Primary Scuppers and Over-flow Scuppers:
   a. Stainless Steel, Type 304: Twenty-four (24) gauge minimum, stainless steel; commercial quality, Fed. Spec. QQ-S-775, Type I, Class D or ASTM A 526 or lock forming quality ASTM A 527, G90 coating in accordance with ASTM A 525.
7. Lead Flashings:
   a. ASTM B 29-79 (1984), 4 lb. (1.82 kg) sheet lead.
   b. Use prefabricated plumbing vent flashings with factory welded and sealed joints at all plumbing vents.
      1) Flange: 4" minimum.

2.5 ROOF COVER BOARD

A. General: Provide preformed roof cover boards that comply with requirements and referenced standards, selected from manufacturer's standard sizes and of thicknesses indicated.

B. Cover Board: ASTM C 1177/C 1177M, glass-mat, water-resistant gypsum substrate, Type X, minimum 1/2 inch thick, factory primed.
   1. Basis of Design: Provide Tremco / GP Gypsum Dens-Deck Prime Roof Board by Tremco Inc.
   2. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening cover board panel to roof deck.
      a. Fastener density requirements:
         1) Field: 1 each per 2 square feet / 16 each per 4' x 8' board.
         2) Perimeters: 1 each per 1.33 square feet / 24 each per 4' x 8' board.
         3) Corners: 1 each per 1 square feet / 32 each per 4' x 8' board.

C. Tapered Perlite Insulation: ASTM C 728; composed of expanded perlite, cellulosic fibers, binders, and waterproofing agents with top surface seal-coated. Minimum board thickness: 1/2".
   1. Provide factory-tapered insulation boards fabricated to slope as follows: Tapered roof insulation, crickets and saddles: 1/2 inch per foot; and drain or scupper sumps: 1/2 inch per foot.

2.6 INSULATION ACCESSORIES

A. General: Roof insulation accessories recommended by insulation manufacturer for intended use and compatible with membrane roofing.

B. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening roof insulation to substrate, and acceptable to roofing system manufacturer.

C. Wood Cant and Nailer Strips:
   1. Refer to Division 6, Section 06100 "Wood Blocking and Curbing".

D. Provide preformed saddles, crickets, tapered edge strips, and other insulation shapes where indicated for sloping to drain or scupper. Fabricate to slopes indicated.
   1. ASTM C 728, perlite insulation board.

E. Tapered Edge Strips: ASTM C 728, perlite insulation board.

2.7 WALL TREATMENT AND COATING MATERIALS

A. Primer for membrane waterproofing at parapet walls:
   1. An asbestos free, modified water-based asphalt primer
   2. Basis of Design: Tremco Tremprime WB.

B. Elastomeric membrane waterproofing at parapet walls:
   1. One-part, asbestos-free, non-fibrated, cold-applied, rubberized asphalt emulsion.
   2. Basis of Design: Tremco TremLastic S.

C. Reinforcement for membrane waterproofing at parapet walls:
   1. One (1) ply of stitch-bonded polyester reinforcing fabric.
   2. Basis of Design: Tremco Polyester Mat CP.

D. Coating for membrane waterproofing at parapet walls:
   1. Intumescent, fire-retardant, white reflective, elastomeric, styrenated acrylic latex roof coating.
   2. Basis of Design: Tremco Polarcote FR.

E. Primer for previously coated walls above roof membrane:
   1. Acrylic polymer emulsion, stain resistant, fast drying, flexible base primer for elastomeric latex coatings.
   2. Basis of Design: Tremco Wall-Tite Primer.

F. Coating for previously coated walls above roof membrane:
   1. Acrylic polymer emulsion wall coating with fiber reinforcement.
   2. Tinted to match existing.
   3. Basis of Design: Tremco Wall-Tite F.

2.8 MECHANICAL FASTENERS

A. Insulation/Cover Board to Steel Deck:
   1. Length: Use the shortest fastener which will penetrate the top flange of the steel deck 3/4".

a. ITW Buildex: Accutrac or Hextra with Recessed or Accutrace Plates OR #12, 1/4", #14-10 or #15 Roofgrip with Recessed or Flat Bottom Plates.
b. Olympic Fasteners: Olympic #10, Olympic Standard, Olympic Heavy Duty, Stainless #12, Hex Head #12, #14, Iron-Lok or Strap Toggle with Standard or G-2 Plates OR Olympic Standard or Olympic Heavy Duty with LGP.
c. SFS Stadler Inc: #12 or #14 Insul-Fixx with IF-3-S.

B. Wood to Steel Deck:
1. Length: Use the shortest fastener which will penetrate the top flange of the steel deck 3/4".
a. Tremco/Olympic No. 12-11 Standard Roofing Fastener, with CR-10 fluorocarbon coating by Tremco.
b. Deckfast #12 screw by Construction Fasteners Inc., Wyomissing PA
c. Olympic Fastener #12-10 by Olympic Manufacturing Group, Agawam MA
d. Rawl Deck #12 Deck screw by The Rawlplug Company Inc., New Rochelle NY

C. Wood to wood:
1. Type 316 Stainless Steel, flat head, ring shank, diamond point roofing nails as manufactured by Stainless Fasteners, or equal. (Galvanized nails are not permitted to fasten into treated lumber.)
2. Length: Sufficient to penetrate wood blocking or nailers 1-1/4 inches.

D. Sheet steel to wood blocking:
1. Type 316 Stainless Steel, flat head, ring shank, diamond point roofing nails as manufactured by Stainless Fasteners, or equal. (Galvanized nails are not permitted to fasten into treated lumber.)
2. Length: Sufficient to penetrate wood blocking or nailers 1-1/4 inches.

E. Termination bar to masonry or concrete:
1. Lead masonry anchors.
2. Length: Sufficient to provide 1 ¼" embedment minimum.

F. Drawband:
1. Gold Seal stainless worm gear clamp by Murray Corporation, Cockeysville MD.

G. Power-Seal stainless steel worm drive clamps by Breeze Clamp Co, Saltsburg PA.

2.9 WOOD BLOCKING, NAILERS & CURBS

A. Lumber:
1. See Division 6 Section "Miscellaneous Carpentry" for wood blocking, curbs, cants, and nailers.

2.10 WET ROOF REPLACEMENT MATERIALS

A. Metal Roof Deck:
1. See Division 5 Section "Steel Deck Repair/Replacement" for metal roof deck.

B. Base Insulation Layer: Polyisocyanurate Board Insulation; ASTM C 1289, Type II, felt or glass-fiber mat facer on both major surfaces. Minimum board thickness: 2.0" or as required to match existing.

C. Cover Board Insulation: Perlite Board Insulation; ASTM C 728; composed of expanded perlite, cellulosic fibers, binders, and waterproofing agents with top surface seal-coated. Minimum board thickness: 1/2" or as required to match existing.

D. Optional Cover Board: Wood Fiber Board Insulation; ASTM C 208, Type II, Grade 2, Cellulosic-fiber and water-resistant binders, asphalt coated on ALL six (6) sides and chemically treated for deterioration. Minimum board thickness to be 1/2".

E. Roof Membrane Plies: Provide two (2) plies of asphalt coated polyester/glass/polyester trilaminate reinforced ply sheet. Exceeding ASTM D 4601-86, Type II.
   1. Performance requirements:
      a. Weight, 31.0 lb/100 sq. ft. , ASTM D 228-90a
      b. Tensile Strength, 161 lbf/in (MD), 137 lbf/in (XMD), ASTM D 5147
      c. Elongation, 5.4% MD, 6.56%XMD, ASTM D 5147
      d. Tear Strength, 265 lbf MD, 212 lbf XMD, ASTM D 5147
      e. Asphalt, 10.0 lb/100 sq. ft. , ASTM D 228-90a
   2. Basis of Design: Tremco BURmastic Composite Ply HT.

F. Roof Membrane Adhesive: Cold-Applied Membrane Adhesive; One-part, asbestos-free, cold-applied adhesive specially formulated for compatibility and use with specified roofing membranes and flashings, with the following physical properties:
   1. Performance requirements:
      a. Asbestos Content, EPA 600 R-93/116: None.
      b. Volatile Organic Compounds (VOC), maximum, ASTM D 6511: 340 g/L.
      c. Nonvolatile Content, minimum, ASTM D 6511: 67 percent.
      d. Flash Point, minimum, ASTM D 93: 100 deg F.
      e. Density at 77 deg F ASTM D 6511: 8.4 lb/gal.
      f. Uniformity and Consistency, ASTM D 6511: Pass.
      g. Asphalt Content, minimum, ASTM D 6511: 42 percent.
   2. Basis of Design: Tremco, BURmastic Adhesive.

2.11 MISCELLANEOUS

A. Roof hatches: New roof hatches shall be Type S-50, 3'-0" x 2'-6", aluminum as manufactured by The Bilco Company, PO Box 1203, New Haven, CT 06505. Telephone (203) 934-6363 (or approved substitution). Verify size to match existing opening. Provide ladder safety post and type 316 stainless steel hardware.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with the following requirements and other conditions affecting performance of roofing system:
   1. Verify that roof openings and penetrations are in place and set and braced and that roof drains are securely clamped in place.
   2. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and, that nailers match thicknesses of insulation.
   3. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 ROOF TESTING

A. Moisture detection:
   1. Thermocore® non-destructive moisture detection and analysis survey as provided Tremco Incorporated / Weatherproofing Technologies, Inc.
      a. Visually survey all roof area to be investigated and note all abnormalities.
      b. Perform an infrared thermographic scan of the designated roof areas.
      c. Identify and verify all areas where moisture retention is suspected.

B. Wind Uplift Resistance testing:
   1. The Contractor will provide field verification of roof wind uplift resistance in accordance with FM Global Property Loss Prevention Data Sheet 1-52 as follows:
      a. Once a representative section of the new Roofing Re-cover System (approximately 1,000 square feet) has been installed, at least three (3) bonded uplift tests will be performed. One each in the field, perimeter and corner of the completed roof section.
      b. Test results will be provided to the Owner's representative for evaluation and recommendation before the roofing re-cover operation may be resumed.

3.3 PREPARATION

A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.

B. Prevent materials from entering and clogging roof drains or gutters and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.

C. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at the end of the workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.

D. Surface preparation:
   1. Clean roof of loose and embedded gravel, dirt, and dust by spudding and power brooming. Note: Several broomings may be necessary to properly clean the roof surface.

2. Optional method: Clean roof of loose and embedded gravel, dirt, and dust by spudding and vacuuming.
3. Repair damaged roof membrane as required to maintain the existing roof membrane in a water-tight condition until the new roof re-cover system can be installed.
4. Remove existing roofing and insulation in ALL wet areas as identified by the Thermocore® Infrared Scan and provide roof repairs consisting of the following:
    a. One (1) layer of polyisocyanurate roof insulation (thickness as required to match existing) mechanically fastened to the metal roof deck.
    b. One (1) layer of perlite roof insulation (thickness as required to match existing) adhered to the base layer of roof insulation with the specified cold process adhesive.
    c. Two (2) plies of Coated Polyester/Glass/Polyester Trilaminate reinforced ply sheet adhered with cold process asphalt adhesive.
    d. Allowance: In the Base Proposal, allow for Wet Roof System replacement as follows:
        1) 1,000 square feet.
5. Metal roof deck repairs, if required:
    a. Examine exposed metal decking and repair or replace if necessary using unit pricing.
6. Remove flashings to substrate.
7. Remove as directed by Owner:
    a. Unused equipment, vents, and piping.

3.4 ROOF COVER BOARD INSTALLATION

A. Coordinate installing membrane roofing system components so roof cover board is not exposed to precipitation or left exposed at the end of the workday.

B. Comply with membrane roofing system manufacturer's written instructions for installing roof cover board.

C. Install tapered insulation under area of roofing to conform to slopes indicated.

D. Install roof cover board over the properly prepared roof membrane with long joints in continuous straight lines with end joints staggered between rows. Loosely butt cover boards together and fasten through the existing roof system to the existing metal roof deck.
1. Fasten according to requirements in FMG's "Approval Guide" for specified Windstorm Resistance Classification.
2. Fasten to resist uplift pressure at corners, perimeter, and field of roof.

3.5 ROOFING MEMBRANE INSTALLATION, GENERAL

A. Install built-up roofing membrane system according to roofing system manufacturer's written instructions and applicable recommendations of ARMA/NRCA's "Quality Control Guidelines for the Application of Built-up Roofing."

B. Start installation of built-up roofing membrane in presence of roofing system manufacturer's technical personnel.

C. Cooperate with testing and inspecting agencies engaged or required to perform services for installing built-up roofing system.

D. Coordinate installing roofing system components so insulation and roofing membrane sheets are not exposed to precipitation or left exposed at the end of the workday or when rain is forecast.
   1. Provide tie-offs at end of each day's work to cover exposed roofing membrane sheets and insulation with a course of coated felt set in roofing cement with joints and edges sealed.
   2. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system.
   3. Remove and discard temporary seals before beginning work on adjoining roofing.

E. Substrate-Joint Penetrations: Prevent roofing asphalt from penetrating substrate joints, entering building, or damaging roofing system components or adjacent building construction.

F. Substrate: Free of foreign particles prior to laying roof membrane.

G. Phased application: Not permitted. All plies shall be completed each day.

H. Traffic and equipment: Kept off completed plies until adhesive has set.

I. Wrapper and packaging materials: Not to be included in roofing system.

J. Ply shall never touch ply, even at roof edges, laps, tapered edge strips, and cants.

K. Extend roofing membrane to top edge of cant at wall and projection bases.

L. Cut out fish mouths/side laps, which are not completely sealed; patch. Replace all sheets, which are not fully and continuously bonded.

3.6 ROOFING MEMBRANE INSTALLATION

A. Install modified bituminous roofing membrane base sheet and cap sheet according to roofing manufacturer's written instructions, starting at low point of roofing system. Extend roofing membrane sheets over and terminate beyond cants, installing as follows:
   1. Unroll roofing membrane sheets and allow them to relax for minimum time period required by manufacturer.
   2. Heat-weld to substrate.

B. Laps: Accurately align roofing membrane sheets, without stretching, and maintain uniform side and end laps. Stagger end laps. Completely bond and seal laps, leaving no voids.
   1. Repair tears and voids in laps and lapped seams not completely sealed.
   2. Apply roofing granules to cover exuded bead at laps while bead is hot.

C. Install roofing membrane sheets so side and end laps shed water.

D. Avoid walking on plies until adhesive has set.

3.7 DAILY WATER-STOP/TIE-INS

A. Remove dust, dirt or debris from the top of the existing membrane.

B. Width: 18 inches.

C. Adhere 12 and 18-inch wide ply sheets from exposed deck to existing roofing with a continuous 1/16-inch thick application of tie-off mastic. Glaze cut-off with surfacing mastic. Extend 18 inch wide felt 3 inches either side 12-inch felt.

D. Install "dead-man" insulation filler at insulation staggers.

E. Extend roofing system at least 12 inches onto prepared area of adjacent roofing. Seal edge with 6 inch wide reinforcing membrane embedded between alternate courses of tie-off mastic.
   1. At beginning of next day's work remove temporary connection by cutting felts evenly along edge of existing roof system. Remove "dead-man" insulation fillers.

3.8 FLASHING AND STRIPPING INSTALLATION

A. Install base flashing over cant strips and other sloping and vertical surfaces, at roof edges, and at penetrations through roof, and secure to substrates according to roofing system manufacturer's written instructions and as follows:
   1. Prime substrates with asphalt primer as required by roofing system manufacturer.
   2. Backer Sheet Application: Heat-weld backer sheet to substrate.
   3. Flashing Sheet Application:
      a. Cut flashing membrane in lengths not to exceed (10) feet.
      b. Heat-weld flashing sheet to substrate per manufacturer's instructions.
      c. Lap flashing membrane ends 4 inches, extend membrane 6 inches beyond toe of cant; press sheet firmly in place. Ensure complete bond and continuity without wrinkles or voids.
      d. Heat-weld all laps.
      e. Seal vertical laps of flashing membrane with reinforcing membrane embedded between alternate continuous courses of elastomeric flashing bitumen.
      f. Coat reinforced stripping membrane with specified coating. Apply additional coats as required to completely cover stripping membrane.

B. Base flashing height:
   a. Not less than 8 inches, not higher than 12 inches above finished roofing surface.

C. Extend flashing up walls or parapets a minimum of 8 inches above roofing membrane and 4 inches onto field of roofing membrane.

D. Mechanically fasten top of flashing securely at terminations and perimeter of roofing.
   1. Seal top termination of base flashing.

E. Install stripping, according to roofing system manufacturer's written instructions, where metal flanges and edgings are set on built-up roofing.
   1. Two-Ply Stripping:

a. Prime and set the base of the flange in asphaltic mastic. Prime the top of the flange and seal the flange with two (2) plies embedded in alternate applications of stripping adhesive. Extend first ply 4 inches beyond flange; second ply 2 inches beyond first ply.

F. Metal Parapet Cap (Coping) and Base Flashing: Refer to NRCA Construction Detail MB-1 and MB-1S.

G. Surface Mounted counterflashing for Concrete Walls: Refer to NRCA Construction Detail MB-4 and MB-4S.

H. Base Flashing for Wall-supported Deck: Refer to NRCA Construction Detail MB-5 and MB-5S.

I. Base Flashing for Non-wall-supported Deck: Refer to NRCA Construction Detail MB-6 and MB-6S.

J. Expansion Joint with Metal Cover: Refer to NRCA Construction Detail MB-7 and MB-7S.

K. Expansion Joint with Pre-manufactured Cover: Refer to NRCA Construction Detail MB-7A and MB-7AS.

L. Equipment Support Curb: Refer to NRCA Construction Detail MB-9 and MB-9S.

M. Raised Curb Detail for Rooftop Air Handling Units and Ducts (Prefabricated Metal Curb): Refer to NRCA Construction Detail MB-12 and MB-12S.

N. Raised Curb Detail for Rooftop Air Handling Units and Ducts (Job Site Constructed Wood Curb): Refer to NRCA Construction Detail MB-13 and MB-13S.

O. Sheet Metal Enclosure for Piping Through Roof Deck: Refer to NRCA Construction Detail MB-16 and MB-16S.

P. Isolated Stack Flashing (Hot or Cold): Refer to NRCA Construction Detail MB-17 and MB-17S.

Q. Isolated Stack Flashing – Sheet Metal (Hot or Cold): Refer to NRCA Construction Detail MB-17A and MB-17AS.

R. Plumbing Vent: Refer to NRCA Construction Detail MB-18 and MB-18S.

S. Penetration Pocket: Refer to NRCA Construction Detail MB-19 and MB-19S.

T. Gutter: Refer to NRCA Construction Detail MB-22 and MB-22S.

3.9 COATING INSTALLATION

A. Apply reflective coating material to stripping membrane at base flashings according to manufacturer's written instructions, by spray, roller, or other suitable application method.

Apply additional coats as required to completely cover stripping membrane and reinforcing mesh.

3.10 WALL TREATMENT AND COATING INSTALLATION

A. Membrane waterproofing at parapet walls:
   1. Clean parapet wall sections above new surface mounted counterflashing and prime with specified primer.
   2. Pre-cast wall panel joint treatment:
      a. Remove existing sealant.
      b. Install new backer rod and new sealant.
      c. Fill void with rigid insulation to provide a level surface and heat-weld a strip of smooth surface APP modified bitumen membrane over the joint.
   3. Apply two coats of specified elastomeric membrane waterproofing reinforced with one ply of specified reinforcing mat. Allow to cure.
   4. Apply one coat of specified white reflective coating.

B. Wall coating at previously coated walls above the roof membrane:
   1. Clean previously coated wall sections above new surface mounted counterflashing and prime with specified primer.
   2. Apply two coats of the specified elastomeric wall coating as recommended by the manufacturer.

3.11 MISCELLANEOUS INSTALLATION

A. New Over-flow Scupper Installation:
   1. Locate one new over-flow scuppers adjacent to each existing primary scupper
   2. Saw-cut scupper opening so that the bottom of the new opening is no more than four inches (4") nor less than two inches (2") above the bottom of the existing primary scupper.
   3. Install new sheet metal scupper sleeve and base flashing as required.
   4. Provide pre-finished metal escutcheon plates around the new over-flow scuppers on the exterior side of the pre-cast wall panels. Finish to match existing conductor heads and down spouts.

B. Roof Hatches:
   1. Coordinate roof hatch installation with installation of substrates, vapor retarders, roof insulation, roofing, and flashing as required to ensure that each element of the Work performs properly and that combined elements are waterproof and weather-tight.
   2. Unless otherwise indicated, install roof hatches according to construction details of NRCA's "The NRCA Roofing and Waterproofing Manual."
   3. Where metal surfaces of units will contact incompatible metal or corrosive substrates, including wood, apply bituminous coating on concealed metal surfaces, or provide other permanent separation recommended in writing by unit skylight manufacturer.
   4. Anchor roof hatches securely to supporting substrates.
   5. Set roof hatch flanges in thick bed of roofing cement to form a seal, unless otherwise indicated.

6. Where cap flashing is indicated, install to produce waterproof overlap with roofing or roof flashing. Seal with thick bead of mastic sealant except where overlap is indicated to be left open for ventilation.
7. Clean exposed surfaces according to manufacturer's written instructions. Touch up damaged metal coatings.

3.12 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to perform roof tests and inspections and to prepare test reports.

B. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion and submit report to Architect.
   1. Notify Architect or Owner 48 hours in advance of date and time of inspection.

C. Repair or remove and replace components of membrane roofing system where test results or inspections indicate that they do not comply with specified requirements.

D. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.13 PROTECTING AND CLEANING

A. Protect membrane roofing system from damage and wear during remainder of construction period. When remaining construction will not affect or endanger roofing, inspect roofing for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.

B. Correct deficiencies in or remove membrane roofing system that does not comply with requirements, repair substrates, and repair or reinstall membrane roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.

C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION 07551

HIDALGO COUNTY SHERIFF'S OFFICE
Hidalgo County Adult Detention Center and
Law Enforcement Facility Repairs and / or Replacement
Edinburg, TX

SECTION 07592 - MEMBRANE RE-COVER ROOFING PREPARATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:
   1. Roof surface preparation.
   2. Removal of base flashings.

B. Allowances: Refer to Division 1 Section "Allowances" for description of Work in this Section affected by allowances.

C. Unit Prices: Refer to Division 1 Section "Unit Prices" for description of Work in this Section affected by unit prices.

1.3 MATERIALS OWNERSHIP

A. Except for items or materials indicated to be reused, reinstalled, or otherwise indicated to remain Owner's property, demolished materials shall become Contractor's property and shall be removed from Project site and disposed of legally.

1.4 DEFINITIONS

A. Roofing Terminology: Refer to ASTM D 1079 and glossary in NRCA's "The NRCA Roofing and Waterproofing Manual" for definition of terms related to roofing work in this Section.

B. Substrate Board: Rigid board or panel products placed over the roof deck that serve as thermal barriers, provide a smooth substrate, or serve as a component of a fire-resistance-rated roofing system.

C. Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and reinstalled.

D. Existing to Remain: Existing items of construction that are not indicated to be removed.

1.5 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Photographs or Videotape: Show existing conditions of adjoining construction and site improvements, including exterior and interior finish surfaces, that might be misconstrued as having been damaged by reroofing operations. Submit before Work begins.

C. Qualification Data: For Installer including certificate indicating Installer is approved by warrantor of existing roofing system.

1.6 QUALITY ASSURANCE

A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning membrane roofing removal. Comply with hauling and disposal regulations of authorities having jurisdiction.

B. Re-roofing Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination." Review methods and procedures related to roofing system including, but not limited to, the following:
   1. Meet with Owner; Architect; Owner's insurer if applicable; testing and inspecting agency representative; roofing system manufacturer's representative; roofing Installer including project manager, superintendent, and foreman; and installers whose work interfaces with or affects reroofing including installers of roof accessories and roof-mounted equipment.
   2. Review methods and procedures related to reroofing preparation, including membrane roofing system manufacturer's written instructions.
   3. Review temporary protection requirements for existing roofing system that is to remain, during and after installation.
   4. Review roof drainage during each stage of reroofing and review roof drain plugging and plug removal procedures.
   5. Review and finalize construction schedule, and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
   6. Review existing deck removal procedures and Owner notifications.
   7. Review procedures to determine condition and acceptance of existing deck for reuse.
   8. Review structural loading limitations of deck during reroofing.
   9. Review base flashings, special roofing details, drainage, penetrations, equipment curbs, and condition of other construction that will affect reroofing.
   10. Review HVAC shutdown and sealing of air intakes.
   11. Review shutdown of fire-suppression, -protection, and -alarm and -detection systems.
   12. Review procedures for asbestos removal or unexpected discovery of asbestos-containing materials.
   13. Review governing regulations and requirements for insurance and certificates if applicable.
   14. Review existing conditions that may require notification of Architect and Owner before proceeding.

1.7 PROJECT CONDITIONS

A. Owner will occupy portions of building immediately below reroofing area. Conduct reroofing so Owner's operations will not be disrupted. Provide Owner with not less than 72 hours' notice of activities that may affect Owner's operations.

1. Coordinate work activities daily with Owner so Owner can place protective dust or water leakage covers over sensitive equipment or furnishings, shut down HVAC and fire-alarm or -detection equipment if needed, and evacuate occupants from below the work area if desired.
2. Before working over structurally impaired areas of deck, notify Owner to evacuate occupants from below the affected area. Verify that occupants below the work area have been evacuated prior to proceeding with work over the impaired deck area.

B. Protect building to be re-roofed, adjacent buildings, walkways, site improvements, exterior plantings, and landscaping from damage or soiling from reroofing operations.

C. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not block required exits or path from required exit to public right-of-way. Coordinate with requirements of authorities having jurisdiction.

D. Owner assumes no responsibility for condition of areas to be re-roofed.

E. Weather Limitations: Proceed with reroofing preparation only when existing and forecasted weather conditions permit Work to proceed without water entering into existing roofing system or building.

F. Hazardous Materials: It is not expected that hazardous materials such as asbestos-containing materials will be encountered in the Work.
1. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Hazardous materials will be removed by Owner under a separate contract.

PART 2 - PRODUCTS

2.1 AUXILIARY REROOFING MATERIALS

A. General: Auxiliary reroofing preparation materials recommended by roofing system manufacturer for intended use and compatible with components of new membrane roofing system.

B. Base Sheet Fasteners: Capped head, factory-coated steel fasteners, listed in FMG's "Approval Guide."

C. Metal Flashing Sheet: Metal flashing sheet is specified in Division 7 Section "Sheet Metal Flashing and Trim."

PART 3 - EXECUTION

3.1 PREPARATION

A. Coordinate with Owner to shut down air intake equipment in the vicinity of the Work. Cover air intake louvers before proceeding with reroofing work that could affect indoor air quality or activate smoke detectors in the ductwork.

B. During removal operations, have sufficient and suitable materials on-site to facilitate rapid installation of temporary protection in the event of unexpected rain.

C. Maintain roof drains in functioning condition to ensure roof drainage at end of each workday. Prevent debris from entering or blocking roof drains and conductors. Use roof-drain plugs specifically designed for this purpose. Remove roof-drain plugs at end of each workday, when no work is taking place, or when rain is forecast.
   1. If roof drains will be temporarily blocked or unserviceable due to roofing system removal or partial installation of new membrane roofing system, provide alternative drainage method to remove water and eliminate ponding. Do not permit water to enter into or under existing membrane roofing system components that are to remain.

D. Verify that rooftop utilities and service piping have been shut off before commencing Work.

3.2 ROOF MEMBRANE SURFACE PREPARATION

A. General: Notify Owner each day of extent of roof preparation proposed.

B. Surface preparation:
   1. Clean roof of loose and embedded gravel, dirt, and dust by spudding and power brooming. Note: Several broomings may be necessary to properly clean the roof surface.
   2. Optional method: Clean roof of loose and embedded gravel, dirt, and dust by spudding and vacuuming.
   3. Repair damaged roof membrane as required to maintain the existing roof membrane in a water-tight condition until the new roof re-cover system can be installed.
   4. Remove existing roofing and insulation in ALL wet areas as identified by the Thermocore® Infrared Scan and provide roof repairs consisting of the following:
      a. Metal roof deck repairs, if required.
      b. One (1) layer of polyisocyanurate roof insulation (thickness as required to match existing) mechanically fastened to the metal roof deck.
      c. One (1) layer of perlite roof insulation (thickness as required to match existing) adhered to the base layer of roof insulation with the specified cold process adhesive.
      d. Two (2) plies of Coated Polyester/Glass/Polyester Trilaminate reinforced ply sheet adhered with cold process asphalt adhesive.
      e. Allowance: In the Base Proposal, allow for Wet Roof System replacement as follows:
         1) 1,000 square feet.
   5. Remove as directed by Owner:
      a. Unused equipment, vents, and piping.

3.3 EXISTING BASE FLASHINGS

A. Remove existing base flashings around parapets, curbs, walls, and penetrations.
   1. Clean substrates of contaminants such as asphalt, sheet materials, dirt, and debris.

B. Do not damage metal counterflashings that are to remain. Replace metal counterflashings damaged during removal with counterflashings of same metal, weight or thickness, and finish.

3.4 MISCELLANEOUS DEMOLITION

A. Remove as directed by Owner:
   1. a. Unused equipment, vents, and piping.

3.5 DISPOSAL

A. Coordinate disposal with requirements of Division 1 Section "Construction Waste Disposal."

B. Collect and place demolished materials in containers. Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site.
   1. Storage or sale of demolished items or materials on-site will not be permitted.

C. Transport demolished materials off Owner's property and legally dispose of them.

END OF SECTION 07592

HIDALGO COUNTY SHERIFF'S OFFICE
Hidalgo County Adult Detention Center and
Law Enforcement Facility Repairs and / or Replacement
Edinburg, TX

SECTION 07620 - SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following sheet metal flashing and trim:
   1. Formed roof drainage system.
   2. Formed low-slope roof flashing and trim.
   3. Formed wall flashing and trim.
   4. Formed equipment support and curb flashing.

B. Related Sections include the following:
   1. Division 6 Section "Rough Carpentry" for wood nailers, curbs, and blocking.
   2. Division 7 Section "Membrane Roofing" for installing sheet metal flashing and trim integral with roofing membrane.

1.3 PERFORMANCE REQUIREMENTS

A. General: Install sheet metal flashing and trim to withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failing, rattling, leaking, and fastener disengagement.

B. Thermal Movements: Provide sheet metal flashing and trim that allow for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures by preventing buckling, opening of joints, hole elongation, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Provide clips that resist rotation and avoid shear stress as a result of sheet metal and trim thermal movements. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
   1. Temperature Change (Range): 120 deg. F, ambient; 180 deg. F, material surfaces.

C. Water Infiltration: Provide sheet metal flashing and trim that do not allow water infiltration to building interior.

1.4 SUBMITTALS

A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Shop Drawings: Show layouts of sheet metal flashing and trim, including plans and elevations. Distinguish between shop- and field-assembled work. Include the following:
   1. Identify material, thickness, weight, and finish for each item and location in Project.
   2. Details for forming sheet metal flashing and trim, including profiles, shapes, seams, and dimensions.
   3. Details for fastening, joining, supporting, and anchoring sheet metal flashing and trim, including fasteners, clips, cleats, and attachments to adjoining work.
   4. Details of expansion-joint covers, including direction of expansion and contraction.

C. Samples for Initial Selection: For each type of sheet metal flashing and trim indicated with factory-applied color finishes.
   1. Include similar Samples of trim and accessories involving color selection.

1.5 QUALITY ASSURANCE

A. Sheet Metal Flashing and Trim Standard: Comply with the following. Conform to dimensions and profiles shown unless more stringent requirements are indicated.
   1. NRCA Roofing and Waterproofing Manual (Fifth Edition) for construction details and recommendations.
   2. SMACNA Architectural Sheet Metal Manual (Fifth Edition) for construction details.
   3. ANSI/SPRI ES-1, "Wind Design Standard for Edge Metal Systems Used with Low Slope Roof Systems".

B. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination."
   1. Meet with Owner, Architect, Owner's insurer if applicable, Installer, and installers whose work interfaces with or affects sheet metal flashing and trim including installers of roofing materials, roof accessories, unit skylights, and roof-mounted equipment.
   2. Review methods and procedures related to sheet metal flashing and trim.
   3. Examine substrate conditions for compliance with requirements, including flatness and attachment to structural members.
   4. Document proceedings, including corrective measures and actions required, and furnish copy of record to each participant.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver sheet metal flashing materials and fabrications undamaged. Protect sheet metal flashing and trim materials and fabrications during transportation and handling.

B. Unload, store, and install sheet metal flashing materials and fabrications in a manner to prevent bending, warping, twisting, and surface damage.

C. Stack materials on platforms or pallets, covered with suitable weather-tight and ventilated covering. Do not store sheet metal flashing and trim materials in contact with other materials that might cause staining, denting, or other surface damage.

1.7 COORDINATION

A. Coordinate installation of sheet metal flashing and trim with interfacing and adjoining construction to provide a leak-proof, secure, and non-corrosive installation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
   1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, products specified.
   2. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, manufacturers specified.

2.2 SHEET METALS

A. Zinc-Coated (Galvanized) Steel Sheet: ASTM A 653/A 653M, G90 coating designation; structural quality.

B. Pre-painted, Metallic-Coated Steel Sheet: Steel sheet metallic coated by the hot-dip process and pre-painted by the coil-coating process to comply with ASTM A 755/A 755M.
   1. Zinc-Coated (Galvanized) Steel Sheet: ASTM A 653/A 653M, G90 coating designation; structural quality.
   2. Exposed Finishes: Apply the following coil coating:
      a. Factory Prime Coating: Where painting after installation is indicated, provide pretreatment and white or light-colored, factory-applied, baked-on epoxy primer coat; with a minimum dry film thickness of 0.2 mil.
      b. High-Performance Organic Finish: Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
         1) Fluoropolymer 2-Coat System: Manufacturer's standard 2-coat, thermo-cured system consisting of specially formulated inhibitive primer and fluoropolymer color topcoat containing not less than 70 percent polyvinylidene fluoride resin by weight; complying with physical properties and coating performance requirements of AAMA 2604, except as modified below:
            a) Humidity Resistance: 1000 hours.
            b) Salt-Spray Resistance: 1000 hours.
         2) Color: As selected by Architect from manufacturer's full range.

C. Lead Sheet: ASTM B 749, Type L51121, copper-bearing lead sheet.
   1. Use prefabricated plumbing vent flashings with factory welded and sealed joints at all plumbing vents.
      a. Flange: 4" minimum
      b. Four (4) pounds per square foot minimum.

2.3 UNDERLAYMENT MATERIALS

A. Underlayment Material: Cold applied, self-adhering membrane composed of a high strength polyethylene film coated on one side with a layer of rubberized asphalt adhesive and inter-wound with a disposable release sheet.
   1. Performance Requirements:
      a. Thickness membrane, Method A, ASTM D3767, 40 mil.
      b. Tensile strength, membrane ASTM D412, (Die C Modified), 250 psi.
      c. Elongation, membrane ASTM D412, (Die C Modified), 250%.
      d. Low temperature flexibility, ASTM D1970, Unaffected at -20°F.
      e. Adhesion to plywood, ASTM D903, 3 lb/in width.
      f. Permeance (max), ASTM E96, 0.05 perms max.
   2. Basis of Design: Grace Ice & Water Shield.
   3. Pre-approved substitution, subject to compliance with all requirements indicated in Section 2.1 above.

B. Slip Sheet: Rosin-sized paper, minimum 3 lb/100 sq. ft.

2.4 MISCELLANEOUS MATERIALS

A. General: Provide materials and types of fasteners, solder, welding rods, protective coatings, separators, sealants, and other miscellaneous items as required for complete sheet metal flashing and trim installation.

B. Fasteners: Wood screws, annular threaded nails, self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand design loads.
   1. Exposed Fasteners: Heads matching color of sheet metal by means of plastic caps or factory-applied coating.
   2. Fasteners for Flashing and Trim: Blind fasteners or self-drilling screws, gasketed, with hex washer head.
   3. Blind Fasteners: High-strength aluminum or stainless-steel rivets.

C. Solder for Lead: ASTM B 32, Grade Sn50, 50 percent tin and 50 percent lead.

D. Solder for Zinc: ASTM B 32, 60 percent lead and 40 percent tin with low antimony, as recommended by manufacturer.

E. Burning Rod for Lead: Same composition as lead sheet.

F. Elastomeric Sealant: ASTM C 920, elastomeric polyurethane polymer sealant; of type, grade, class, and use classifications required to seal joints in sheet metal flashing and trim and remain watertight.

G. Bituminous Coating: Cold-applied asphalt mastic, SSPC-Paint 12, compounded for 15-mil dry film thickness per coat. Provide inert-type non-corrosive compound free of asbestos fibers, sulfur components, and other deleterious impurities.

H. Asphalt Roofing Cement: ASTM D 4586, asbestos free, of consistency required for application.

2.5 FABRICATION, GENERAL

A. General: Custom fabricate sheet metal flashing and trim to comply with the following recommendations that apply to design, dimensions, metal, and other characteristics of item indicated. Shop-fabricate items where practicable. Obtain field measurements for accurate fit before shop fabrication.
   1. NRCA Roofing and Waterproofing Manual (Fifth Edition) for construction details and recommendations.
   2. SMACNA Architectural Sheet Metal Manual (Fifth Edition) for construction details.
   3. ANSI/SPRI ES-1, "Wind Design Standard for Edge Metal Systems Used with Low Slope Roof Systems".

B. Fabricate sheet metal flashing and trim in thickness or weight needed to comply with performance requirements, but not less than that specified for each application and metal.

C. Fabricate sheet metal flashing and trim without excessive oil canning, buckling, and tool marks and true to line and levels indicated, with exposed edges folded back to form hems.
   1. Seams for Other Than Aluminum: Fabricate nonmoving seams in accessories with flat-lock seams. Tin edges to be seamed, form seams, and solder.

D. Sealed Joints: Form non-expansion but movable joints in metal to accommodate elastomeric sealant to comply with NRCA and/or SMACNA recommendations.

E. Expansion Provisions: Where lapped or bayonet-type expansion provisions in the Work cannot be used, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with elastomeric sealant concealed within joints.

F. Conceal fasteners and expansion provisions where possible on exposed-to-view sheet metal flashing and trim, unless otherwise indicated.

G. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, non-corrosive metal.
   1. Thickness: As recommended by the following for application but not less than thickness of metal being secured.
      a. NRCA Roofing and Waterproofing Manual (Fifth Edition) for construction details and recommendations.
      b. SMACNA Architectural Sheet Metal Manual (Fifth Edition) for construction details.
      c. ANSI/SPRI ES-1, "Wind Design Standard for Edge Metal Systems Used with Low Slope Roof Systems".

2.6 ROOF DRAINAGE SHEET METAL FABRICATIONS

A. Hanging Gutters: Fabricate to cross section indicated, complete with end pieces, outlet tubes, and other accessories as required. Fabricate in minimum 96-inch- long sections. Furnish flat-stock gutter spacers and gutter brackets fabricated from same metal as gutters, of size recommended by NRCA and/or SMACNA but not less than twice the gutter thickness. Fabricate expansion joints, expansion-joint covers, and gutter accessories from same metal as gutters.
   1. Gutter Style: "A" or as shown on plans.

2. Expansion Joints: Lap type.
3. Fabricate from the following material:
    a. Pre-painted, Metallic-Coated Steel: 24 gauge.

B. Downspouts: Fabricate rectangular downspouts complete with mitered elbows. Furnish with metal hangers, from same material as downspouts, and anchors.
1. Fabricate downspouts from the following material:
    a. Pre-painted, Metallic-Coated Steel: 24 gauge.

2.7 LOW-SLOPE ROOF SHEET METAL FABRICATIONS

A. Copings: Fabricate in minimum 96-inch- long, but not exceeding 10-foot- long, sections. Fabricate joint plates of same thickness as copings. Furnish with continuous cleats to support edge of external leg and drill elongated holes for fasteners on interior leg. Miter corners, seal, and solder or weld watertight.
1. Joint Style: Butt, with 6-inch- wide exposed cover plates.
2. Fabricate copings from the following material:
    a. Pre-painted, Metallic-Coated Steel: 24 gauge.

B. Roof to Roof and Roof to Wall Transition Expansion-Joint Cover: Fabricate from the following material:
1. Galvanized Steel: 24 gauge.

C. Counterflashing: Fabricate from the following material:
1. Galvanized Steel: 24 gauge.

D. Flashing Receivers: Fabricate from the following material:
1. Galvanized Steel: 24 gauge.

E. Roof-Penetration Flashing: Fabricate from the following material:
1. Galvanized Steel: 24 gauge.

2.8 FINISHES

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, to verify actual locations, dimensions and other conditions affecting performance of work.
   1. Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and securely anchored.
   2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

A. General: Anchor sheet metal flashing and trim and other components of the Work securely in place, with provisions for thermal and structural movement. Use fasteners, solder, welding rods, protective coatings, separators, sealants, and other miscellaneous items as required to complete sheet metal flashing and trim system.
   1. Torch cutting of sheet metal flashing and trim is not permitted.

B. Metal Protection: Where dissimilar metals will contact each other or corrosive substrates, protect against galvanic action by painting contact surfaces with bituminous coating or by other permanent separation as recommended by fabricator or manufacturers of dissimilar metals.
   1. Coat underside of sheet metal flashing and trim with bituminous coating where flashing and trim will contact wood, ferrous metal, or cementitious construction.
   2. Underlayment: Where installing metal flashing directly on cementitious or wood substrates, install a course of felt underlayment and cover with a slip sheet or install a course of polyethylene underlayment.
   3. Bed flanges in thick coat of asphalt roofing cement where required for waterproof performance.

C. Install exposed sheet metal flashing and trim without excessive oil canning, buckling, and tool marks.

D. Install sheet metal flashing and trim true to line and levels indicated. Provide uniform, neat seams with minimum exposure of solder, welds, and elastomeric sealant.

E. Install sheet metal flashing and trim to fit substrates and to result in watertight performance. Verify shapes and dimensions of surfaces to be covered before fabricating sheet metal.
   1. Space cleats not more than 12 inches apart. Anchor each cleat with two fasteners. Bend tabs over fasteners.

F. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 feet with no joints allowed within 24 inches of corner or intersection. Where lapped or bayonet-type expansion provisions cannot be used or would not be sufficiently watertight, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with elastomeric sealant concealed within joints.

G. Fasteners: Use fasteners of sizes that will penetrate substrate not less than 1-1/4 inches for nails and not less than 3/4 inch for wood screws.
   1. Galvanized or Pre-painted, Metallic-Coated Steel: Use stainless-steel fasteners.

2. Stainless Steel: Use stainless-steel fasteners.

H. Seal joints with elastomeric sealant as required for watertight construction.
1. Where sealant-filled joints are used, embed hooked flanges of joint members not less than 1 inch into sealant. Form joints to completely conceal sealant. When ambient temperature at time of installation is moderate, between 40 and 70 deg F, set joint members for 50 percent movement either way. Adjust setting proportionately for installation at higher ambient temperatures. Do not install sealant-type joints at temperatures below 40 deg F.
2. Prepare joints and apply sealants to comply with requirements in Division 7 Section "Joint Sealants."

I. Soldered Joints: Clean surfaces to be soldered, removing oils and foreign matter. Pre-tin edges of sheets to be soldered to a width of 1-1/2 inches except where pre-tinned surface would show in finished Work.
1. Do not solder pre-painted, metallic-coated steel sheet.
2. Stainless-Steel Soldering: Pre-tin edges of uncoated sheets to be soldered using solder recommended for stainless steel and phosphoric acid flux. Promptly wash off acid flux residue from metal after soldering.
3. Do not use open-flame torches for soldering. Heat surfaces to receive solder and flow solder into joints. Fill joints completely. Completely remove flux and spatter from exposed surfaces.

3.3 ROOF DRAINAGE SYSTEM INSTALLATION

A. General: Install sheet metal roof drainage items to produce complete roof drainage system according to the following and as indicated. Coordinate installation of roof perimeter flashing with installation of roof drainage system.
1. NRCA Roofing and Waterproofing Manual (Fifth Edition) for construction details and recommendations.
2. ANSI/SPRI ES-1, "Wind Design Standard for Edge Metal Systems Used with Low Slope Roof Systems".
3. SMACNA Architectural Sheet Metal Manual (Fifth Edition) for construction details.

B. Hanging Gutters: Join sections with riveted and soldered joints or with lapped joints sealed with elastomeric sealant. Provide for thermal expansion. Attach gutters at eave or fascia to firmly anchored gutter brackets and straps spaced not more than 36 inches apart. Provide end closures and seal watertight with sealant. Slope to downspouts.
1. Fasten gutter spacers to front and back of gutter.
2. Loosely lock straps to front gutter bead and anchor to roof deck.
3. Anchor and loosely lock back edge of gutter to continuous cleat.
4. Anchor back of gutter that extends onto roof deck with cleats spaced not more than 24 inches apart.
5. Install gutter with expansion joints at locations indicated but not exceeding 50 feet apart. Install expansion joint caps.

C. Downspouts: Join sections with 1-1/2-inch telescoping joints. Provide fasteners designed to hold downspouts securely 1 inch away from walls; locate fasteners at top and bottom and at approximately 60 inches o.c. in between.
1. Provide elbows at base of downspout to direct water away from building.

2. Connect downspouts to underground drainage system indicated.

D. Expansion-Joint Covers: Install expansion-joint covers at locations and of configuration indicated. Lap joints a minimum of 4 inches in direction of water flow.

3.4 ROOF FLASHING INSTALLATION

A. General: Install sheet metal roof flashing and trim to comply with performance requirements and the following. Provide concealed fasteners where possible, set units true to line, and level as indicated. Install work with laps, joints, and seams that will be permanently watertight.
1. NRCA Roofing and Waterproofing Manual (Fifth Edition) for construction details and recommendations.
2. ANSI/SPRI ES-1, "Wind Design Standard for Edge Metal Systems Used with Low Slope Roof Systems".
3. SMACNA Architectural Sheet Metal Manual (Fifth Edition) for construction details.

B. Copings: Anchor to resist uplift and outward forces according to recommendations in FMG Loss Prevention Data Sheet 1-49 for specified wind zone and as indicated.
1. Interlock exterior bottom edge of coping with continuous cleats anchored to substrate at 16-inch centers.
2. Anchor interior leg of coping with screw fasteners and washers at 18-inch centers.

C. Pipe or Post Counterflashing: Install counterflashing umbrella with close-fitting collar with top edge flared for elastomeric sealant, extending a minimum of 4 inches over base flashing. Install stainless-steel draw band and tighten.

D. Counterflashing: Coordinate installation of counterflashing with installation of base flashing. Insert counterflashing in reglet or receivers and fit tightly to base flashing. Extend counterflashing 4 inches over base flashing. Lap counterflashing joints a minimum of 4 inches and bed with elastomeric sealant.
1. Secure in a waterproof manner by means of interlocking folded seam or blind rivets and sealant.

E. Roof-Penetration Flashing: Coordinate installation of roof-penetration flashing with installation of roofing and other items penetrating roof. Install flashing as follows:
1. Turn lead flashing down inside vent piping, being careful not to block vent piping with flashing.
2. Seal with elastomeric sealant and clamp flashing to pipes penetrating roof except for lead flashing on vent piping.

3.5 MISCELLANEOUS FLASHING INSTALLATION

A. Equipment Support Flashing: Coordinate installation of equipment support flashing with installation of roofing and equipment. Weld or seal flashing with elastomeric sealant to equipment support member.

3.6 CLEANING AND PROTECTION

A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.

B. Clean and neutralize flux materials. Clean off excess solder and sealants.

C. Remove temporary protective coverings and strippable films as sheet metal flashing and trim are installed. On completion of installation, clean finished surfaces, including removing unused fasteners, metal filings, pop rivet stems, and pieces of flashing. Maintain in a clean condition during construction.

D. Replace sheet metal flashing and trim that have been damaged or that have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 07620

SECTION 09300 - TILE

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Tile and Accessories:
   1. Quarry Tile.
   2. Trim and Accessories.
   3. Setting Materials.

1.2 REFERENCES

A. American National Standards Institute (ANSI):
   1. ANSI A108.1C - Specifications for Contractors Option: Installation of Ceramic Tile in the Wet-Set Method with Portland Cement Mortar -or- Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set or Latex Portland Cement Mortar.
   2. ANSI A118.7 - Polymer Modified Cement Grouts
   3. ANSI A137.1 - Specifications for Ceramic Tile.

B. Tile Council of North America (TCNA): TCA Handbook for Ceramic Tile Installation, 2007.

1.3 PERFORMANCE REQUIREMENTS

A. Static Coefficient of Friction: Tile on walkway surfaces shall be provided with the following values as determined by testing in conformance with ASTM C 1028.
   1. Level Surfaces: Minimum of 0.6 (Wet).
   2. Step Treads: Minimum of 0.6 (Wet).
   3. Ramp Surfaces: Minimum of 0.8 (Wet).

1.4 SUBMITTALS

A. Submit under provisions of Section 01300.

B. [Product Data]: Manufacturer's data sheets on each product to be used, including:
   1. Preparation instructions and recommendations.
   2. Storage and handling requirements and recommendations.
   3. Installation methods.

C. Selection Samples: Samples of actual tiles for selection.

D. Manufacturer's Certificate:

   1. Certify that products meet or exceed specified requirements.
   2. For each shipment, type and composition of tile provide a Master Grade Certificate signed by the manufacturer and the installer certifying that products meet or exceed the specified requirements of ANSI A137.1.

E. Maintenance Data: Include recommended cleaning methods, cleaning materials, stain removal methods, and polishes and waxes.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing the work of this section with minimum two years experience.

B. Single Source Responsibility: Obtain each type and color of tile from a single source. Obtain each type and color of mortar, adhesive and grout from the same source.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store products in manufacturer's unopened packaging until ready for installation.

B. Protect adhesives and liquid additives from freezing or overheating in accordance with manufacturer's instructions.

C. Store tile and setting materials on elevated platforms, under cover and in a dry location and protect from contamination, dampness, freezing or overheating.

1.7 ENVIRONMENTAL REQUIREMENTS

A. Do not install adhesives in an unventilated environment.

B. Maintain ambient and substrate temperature of 50 degrees F (10 degrees C) during tiling and for a minimum of 7 days after completion.

1.8 EXTRA MATERIALS

A. Provide for Owner's use a minimum of 2 percent of the primary sizes and colors of tile specified, boxed and clearly labeled.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer:
1. DalTile Corporation
2. American Olean
3. Texas Quarries

B. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 TILE

A. General: Provide tile that complies with ANSI A137.1 for types, compositions and other characteristics indicated. Provide tile in the locations and of the types colors

and pattern indicated on the Drawings. Tile shall also be provided in accordance with the following:

1. Factory Blending: For tile exhibiting color variations within the ranges selected under Submittal of samples, blend tile in the factory and package so tile taken from one package shows the same range of colors as those taken from other packages.
2. Mounting: For factory mounted tile, provide back or edge mounted tile assemblies as standard with the manufacturer, unless otherwise specified.
3. Factory Applied Temporary Protective Coatings: Where indicated under tile type, protect exposed surfaces of tile against adherence of mortar and grout by precoating with a continuous film of petroleum paraffin wax applied hot. Do not coat unexposed tile surfaces.

B. Quarry Tile:
1. Product: Quarry Tile.
2. Moisture Absorption: Less than .07 percent to less than 20 percent.
3. Size and Shape: 8 inches by 8 inches, nominal.
4. Surface Finish: Textured.
5. Colors: To be selected from manufacturer's standard range.
6. Trim Units: Matching bullnose, bullnose corner, cove/inside finger cove, radius cap, sink rail, sink rail incorner/outcorner, cove base, outside cove corner shapes in sizes coordinated with field tile shapes.

2.3 TRIM AND ACCESSORIES

A. Non-Ceramic Trim: Satin natural anodized extruded aluminum, stainless steel, brass, etc, style and dimensions to suit application, for setting using tile mortar or adhesive; use in the following locations:

1. Open edges of floor tile.
2. Transition between floor finishes of different heights.
3. Thresholds at door openings.
4. Expansion and control joints, floor and wall.

2.4 SETTING MATERIALS

A. Epoxy Adhesive: ANSI A118.3, thinset bond type.

B. Mortar Bed Materials:
1. Portland cement: ASTM C150, type 1, gray or white.
2. Hydrated Lime: ASTM C207, Type S.
3. Sand: ASTM C144, fine.
4. Latex additive: As approved.
5. Water: Clean and potable.

C. Mortar Bond Coat Materials:
1. Dry-Set Portland Cement type: ANSI A118.1.
2. Latex-Portland Cement type: ANSI A118.4.
3. Epoxy: ANSI A118.3, 100 percent solids.

D. Polymer modified cement grout, sanded or unsanded, as specified in ANSI A118.7; color as selected.

E. Epoxy Grout: ANSI A118.8, 100 percent solids epoxy grout; color as selected.

F. Waterproofing Membrane at Floors: Membrane in accordance with ANSI A118.10 and as follows:

1. Chlorinated Polyethylene Sheet with polyester fabric reinforcing.
2. Fabric Reinforced, Fluid-Applied elastomeric membrane.
3. Un-Reinforced, Fluid-Applied elastomeric membrane.
4. Polyethylene Sheet Product.
5. Fabric-Reinforced, Modified-Bituminous Sheet Product.
6. Urethane Waterproofing and Tile-Setting Adhesive Product.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that wall surfaces are free of substances which would impair bonding of setting materials, smooth and flat within tolerances specified in ANSI A137.1, and are ready to receive tile.

B. Verify that sub-floor surfaces are dust-free, and free of substances which would impair bonding of setting materials to sub-floor surfaces, and are smooth and flat within tolerances specified in ANSI A137.1.

C. Verify that concrete sub-floor surfaces are ready for tile installation by testing for moisture emission rate and alkalinity; obtain instructions if test results are not within limits recommended by tile manufacturer and setting materials manufacturer.

D. Verify that required floor-mounted utilities are in correct location.

3.2 PREPARATION

A. Protect surrounding work from damage.

B. Remove any curing compounds or other contaminates.

C. Vacuum clean surfaces and damp clean.

D. Seal substrate surface cracks with filler. Level existing substrate surfaces to acceptable flatness tolerances.

E. Install cementitious backer board in accordance with ANSI A108.11 and board manufacturer's instructions. Tape joints and corners, cover with skim coat of dry-set mortar to a feather edge.

F. Prepare substrate surfaces for adhesive installation in accordance with adhesive manufacturer's instructions.

3.3 INSTALLATION – GENERAL

A. Install tile and grout in accordance with applicable requirements of ANSI A108.1 through A108.13, manufacturer's instructions, and TCA Handbook recommendations.

B. Lay tile to pattern indicated. Arrange pattern so that a full tile or joint is centered on each wall and that no tile less than 1/2 width is used. Do not interrupt tile pattern through openings.

C. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly. Align floor joints.

D. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make joints watertight, without voids, cracks, excess mortar, or excess grout.

E. Form internal angles square and external angles bullnosed.

F. Install non-ceramic trim in accordance with manufacturer's instructions.

G. Sound tile after setting. Replace hollow sounding units.

H. Keep expansion joints free of adhesive or grout. Apply sealant to joints.

I. Allow tile to set for a minimum of 48 hours prior to grouting.

J. Grout tile joints. Use standard grout unless otherwise indicated.

K. Apply sealant to junction of tile & dissimilar materials & junction of dissimilar planes.

3.4 INSTALLATION - FLOORS - THIN-SET METHODS

A. Over exterior concrete substrates, install in accordance with TCA Handbook Method F102, with standard grout.

B. Over interior concrete substrates, install in accordance with TCA Handbook Method F113, dry-set or latex-portland cement bond coat, with standard grout, unless otherwise indicated.

1. Where waterproofing membrane is indicated, install in accordance with TCA Handbook Method F122, with latex-portland cement grout.
2. Where epoxy bond coat and grout are indicated, install in accordance with TCA Handbook Method F131.

C. Over wood substrates, install in accordance with TCA Handbook Method F142, with standard grout, unless otherwise indicated.

1. Where epoxy bond coat and grout are indicated, install in accordance with TCA Handbook Method F143.

3.5 INSTALLATION - FLOORS - MORTAR BED METHODS

A. Over exterior concrete substrates, install in accordance with TCA F101, bonded, with standard grout.

B. Over interior concrete substrates, install in accordance with TCA Handbook Method F111, with cleavage membrane, unless otherwise indicated.

1. Where waterproofing membrane is indicated, with standard grout or no mention of grout type, install in accordance with TCA Handbook Method F121.
2. Where epoxy bond coat and grout are indicated, install in accordance with TCA Handbook Method F132, bonded.
3. Where epoxy or furan grout is indicated, but not epoxy or furan bond coat, install in accordance with TCA Handbook Method F114, with cleavage membrane.

C. Over wood substrates, install in accordance with TCA Handbook method F141, with standard grout, unless otherwise indicated.

D. Cleavage Membrane: Lap edges and ends.

E. Waterproofing Membrane: Install as specified in ANSI A108.13.

F. Mortar Bed Thickness: 1-1/4 to 2 inch (32 to 51 mm) maximum, unless otherwise indicated.

3.6 PROTECTION OF FINISHED WORK

A. Do not permit traffic over finished floor surface for 72 hours after installation.

B. Cover floors with kraft paper and protect from dirt and residue from other trades.

C. Where floor will be exposed for prolonged periods cover with plywood or other similar type walkways

END OF SECTION

SECTION 09510 - ACOUSTICAL PANEL CEILINGS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Acoustical ceiling panels.
2. Exposed grid suspension system.
3. Wire hangers, fasteners, main runners, cross tees, and wall angle moldings.

B. Related Sections:

1. Division 15 Sections - Mechanical Work
2. Division 16 Sections - Electrical Work

C. Alternates

1. Prior Approval: Unless otherwise provided for in the Contract documents, proposed product substitutions may be submitted no later than TEN (10) working days prior to the date established for receipt of bids. Acceptability of a proposed substitution is contingent upon the Architect's review of the proposal for acceptability and approved products will be set forth by the Addenda. If included in a Bid are substitute products, which have not been approved by Addenda, the specified products shall be provided without additional compensation.
2. Submittals that do not provide adequate data for the product evaluation will not be considered. The proposed substitution must meet all requirements of this section, including but not necessarily limited to, the following: Single source materials suppliers (if specified in Section 1.5); Underwriters' Laboratories Classified Acoustical performance; Panel design, size, composition, color, and finish; Suspension system component profiles and sizes; Compliance with the referenced standards.

1.2 REFERENCES

A. American Society for Testing and Materials (ASTM):

1. ASTM A 1008 Standard Specification for Steel, Sheet, Cold Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.
2. ASTM A 641 Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire.
3. ASTM A 653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process.
4. ASTM C 423 Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
5. ASTM C 635 Standard Specification for Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.

6. ASTM C 636 Recommended Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.
7. ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials.
8. ASTM E 1264 Classification for Acoustical Ceiling Products.
9. ASTM E 1477 Standard Test Method for Luminous Reflectance Factor of Acoustical Materials by Use of Integrating-Sphere Reflectometers.
10. ASTM D 3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.
11. ASTM E 119 Standard Test Methods for Fire Tests of Building Construction and Material.

B. ASHRAE Standard 62.1-2004, "Ventilation for Acceptable Indoor Air Quality"

1.3 SUBMITTALS

A. Product Data: Submit manufacturer's technical data for each type of acoustical ceiling unit and suspension system required.

B. Samples: Minimum 6 inch x 6 inch samples of specified acoustical panel; 8 inch long samples of exposed wall molding and suspension system, including main runner and 4 foot cross tees.

C. Shop Drawings: Layout and details of acoustical ceilings. Show locations of items, which are to be coordinated with, or supported by the ceilings.

D. Certifications: Manufacturer's certifications that products comply with specified requirements, including laboratory reports showing compliance with specified tests and standards. For acoustical performance, each carton of material must carry an approved independent laboratory classification of NRC, CAC, and AC.

E. If the material supplied by the acoustical subcontractor does not have an Underwriter's Laboratory classification of acoustical performance on every carton, subcontractor shall be required to send material from every production run appearing on the job to an independent or NVLAP approved laboratory for testing, at the architect's or owner's discretion. All products not conforming to manufacturer's current published values must be removed, disposed of and replaced with complying product at the expense of the Contractor performing the work.

1.4 QUALITY ASSURANCE

A. Single-Source Responsibility: Provide acoustical panel units and grid components by a single manufacturer.

B. Fire Performance Characteristics: Identify acoustical ceiling components with appropriate markings of applicable testing and inspecting organization.

1. Surface Burning Characteristics: As follows, tested per ASTM E 84 and complying with ASTM E 1264 for Class A products.

a. Flame Spread: 25 or less
b. Smoke Developed: 50 or less

2. Fire Resistance Ratings: As indicated by reference to design designations in UL Fire Resistance Directory, for types of assemblies in which acoustical ceilings function as a fire protective membrane and tested per ASTM E 119.
    a. Protect lighting fixtures and air ducts to comply with requirements indicated for rated assembly.

C. Handle acoustical ceiling units carefully to avoid chipping edges or damaged units in any way.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver acoustical ceiling units to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination, and other causes.

B. Before installing acoustical ceiling units, permit them to reach room temperature and a stabilized moisture content.

C. Handle acoustical ceiling units carefully to avoid chipping edges or damaged units in any way.

1.6 PROJECT CONDITIONS

A. Space Enclosure:

All ceiling products and suspension systems must be installed and maintained in accordance with Armstrong written installation instructions for that product in effect at the time of installation and best industry practice. Prior to installation, the ceiling product must be kept clean and dry, in an environment that is between 32°F (0°C) and 120°F (49°C) and not subject to Abnormal Conditions.
Abnormal conditions include exposure to chemical fumes, vibrations, and moisture from conditions such as building leaks or condensation, excessive humidity, or excessive dirt or dust buildup.

1.7 WARRANTY

A. Acoustical Panel: Submit a written warranty executed by the manufacturer, agreeing to repair or replace acoustical panels that fail within the warranty period. Failures include, but are not limited to:

1. Acoustical Panels: Sagging and warping as a result of defects in materials or factory workmanship.
2. Grid System: Rusting and manufacturer's defects
3. Acoustical Panels with BioBlock Plus or designated as inherently resistive to the growth of micro-organisms installed with Armstrong suspension systems: Visible sag and will resist the growth of mold/mildew and gram positive and gram negative odor and stain causing bacteria.

B. The Warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent

with other warranties made by the Contractor under the requirements of the Contract Documents.

1.8 MAINTENANCE

A. Extra Materials: Deliver extra materials to Owner. Furnish extra materials described below that match products installed. Packaged with protective covering for storage and identified with appropriate labels.

1. Acoustical Ceiling Units: Furnish quality of full-size units equal to 5.0 percent of amount installed.
2. Exposed Suspension System Components: Furnish quantity of each exposed suspension component equal to 2.0 percent of amount installed.

Part 2-PRODUCTS

2.1 MANUFACTURERS

A. Ceiling Panels:

1. Armstrong World Industries, Inc.

2.2 ACOUSTICAL CEILING UNITS

A. Acoustical Panels Type ACT-1:

1. Surface Texture: Medium
2. Composition: Mineral Fiber
3. Color: White
4. Size: 48in X 24in X 5/8in
5. Edge Profile: Square Lay-In for interface with Prelude Plus XL Fire Guard 15/16" Exposed Tee.
6. Noise Reduction Coefficient (NRC): ASTM C 423; Classified with UL label on product carton, N/A.
7. Ceiling Attenuation Class (CAC): ASTM C 1414; Classified with UL label on product carton, 40
8. Emissions Testing: Section 01350 Protocol, < 13.5 ppb of formaldehyde when used under typical conditions required by ASHRAE Standard 62.1-2004, "Ventilation for Acceptable Indoor Air Quality"
9. Flame Spread: ASTM E 1264; Fire Resistive
10. Light Reflectance (LR): ASTM E 1477; White Panel: Light Reflectance: 0.88.
11. Dimensional Stability: HumiGuard Max - Temperature is between 32°F (0° C) and 120°F (49° C). It is not necessary for the area to be enclosed or for HVAC systems to be functioning.
12. Antimicrobial Protection: Inherent - Resists the growth of mold/mildew and bacterial growth.
13. Acceptable Product: Ceramaguard, 605 as manufactured by Armstrong World Industries.

2.3 SUSPENSION SYSTEMS

A. Components: All main beams and cross tees shall be commercial quality hot-dipped galvanized (galvanized steel, aluminum, or stainless steel) as per ASTM A 653. Main beams and cross tees are double-web steel construction with 15/16 IN type exposed flange design. Exposed surfaces chemically cleansed, capping pre-finished galvanized steel (aluminum or stainless steel) in baked polyester paint. Main beams and cross tees shall have rotary stitching (exception: extruded aluminum or stainless steel).

1. Structural Classification: ASTM C 635 HD.
2. Color: White and match the actual color of the selected ceiling tile, unless noted otherwise.
3. Acceptable Product: Prelude Plus XL Fire Guard 15/16" Exposed Tee as manufactured by Armstrong World Industries, Inc.

B. Attachment Devices: Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung unless otherwise indicated.

C. Wire for Hangers and Ties: ASTM A 641, Class 1 zinc coating, soft temper, pre-stretched, with a yield stress load of at least time three design load, but not less than 12 gauge.

D. Edge Moldings and Trim: Metal or extruded aluminum of types and profiles indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations, including light fixtures, that fit type of edge detail and suspension system indicated. Provide moldings with exposed flange of the same width as exposed runner.

E. Accessories

PART 3 - EXECUTION

3.1 EXAMINATION

A. Do not proceed with installation until all wet work such as concrete, terrazzo, plastering and painting has been completed and thoroughly dried out, unless expressly permitted by manufacturer's printed recommendations. (Exception: HumiGuard Max Ceilings)

3.2 PREPARATION

A. Measure each ceiling area and establish layout of acoustical units to balance border widths at opposite edges of each ceiling. Avoid use of less than half width units at borders, and comply with reflected ceiling plans. Coordinate panel layout with mechanical and electrical fixtures.

3.3 INSTALLATION

A. Install suspension system and panels in accordance with the manufacturer's instructions, and in compliance with ASTM C 636 and with the authorities having jurisdiction.
B. Suspend main beam from overhead construction with hanger wires spaced 4-0 on center along the length of the main runner. Install hanger wires plumb and straight.

C. Install wall moldings at intersection of suspended ceiling and vertical surfaces. Miter corners where wall moldings intersect or install corner caps.
D. For reveal edge panels: Cut and reveal or rabbet edges of ceiling panels at border areas and vertical surfaces.
E. Install acoustical panels in coordination with suspended system, with edges resting on flanges of main runner and cross tees. Cut and fit panels neatly against abutting surfaces. Support edges by wall moldings.

3.4 ADJUSTING AND CLEANING

A. Replace damaged and broken panels.
B. Clean exposed surfaces of acoustical ceilings, including trim, edge moldings, and suspension members. Comply with manufacturer's instructions for cleaning and touch up of minor finish damage.
    1. Ceiling Touch-Up Paint, (Item #5760, 8oz. bottles) (Item #5761, quart size cans), "global white" latex paint should be used to hide minor scratches and nicks in the surface and to cover field regularized edges that are exposed to view.
C. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION

SECTION 13852 - DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM

PART 1 GENERAL

1.1. DESCRIPTION:

A. This section of the specification includes the furnishing, installation, and connection of an intelligent reporting, microprocessor controlled, addressable, fire detection. It shall include, but not be limited to, alarm initiating devices, alarm notification appliances, control panels, auxiliary control devices, annunciators, power supplies, and wiring as shown on the drawings and specified herein.

B. The fire alarm system shall comply with requirements of NFPA Standard 72 for Protected Premises Signaling Systems except as modified and supplemented by this specification. The system shall be electrically supervised and monitor the integrity of all conductors.

C. The system shall be an active/interrogative type system where each addressable device is repetitively scanned, causing a signal to be transmitted to the main fire alarm control panel (FACP) indicating that the device and its associated circuit wiring is functional. Loss of this signal at the main FACP shall result in a trouble indication as specified hereinafter for the particular input.

D. Each designated zone shall transmit separate and different alarm, supervisory and trouble signals to the Fire Command Center (FCC) and designated personnel in other buildings at the site via a multiplex communication network.

E. The fire alarm system shall be manufactured by an ISO 9001 certified company and meet the requirements of BS EN9001: ANSI/ASQC Q9001-1994.

F. The system and its components shall be Underwriters Laboratories, Inc. listed under the appropriate UL testing standard as listed herein for fire alarm applications and the installation shall be in compliance with the UL listing.

G. The installing company shall employ NICET (minimum Level II Fire Alarm Technology) technicians on site to guide the final check-out and to ensure the systems integrity.

1.2. SCOPE:

A. A new intelligent reporting, microprocessor controlled fire detection system shall be installed in accordance with the specifications and drawings.

B. The system shall be designed such that each signaling line circuit (SLC) is limited to only 80% of its total capacity at initial installation.

C. Basic Performance:

1. Alarm, trouble and supervisory signals from all intelligent reporting devices shall be encoded on NFPA Style 4 (Class B) Signaling Line Circuits (SLC).

2. Initiation Device Circuits (IDC) shall be wired Class B (NFPA Style A) as part of an addressable device connected by the SLC Circuit.

3. Notification Appliance Circuits (NAC) shall be wired Class B (NFPA Style Y) as part of an addressable device connected by the SLC Circuit.

4. On Style 6 or 7 (Class A) configurations a single ground fault or open circuit on the system Signaling Line Circuit shall not cause system malfunction, loss of operating power or the ability to report an alarm.

5. Alarm signals arriving at the FACP shall not be lost following a primary power failure (or outage) until the alarm signal is processed and recorded.

D. Basic System Functional Operation

1. When a fire alarm condition is detected and reported by one of the system initiating devices, the following functions shall immediately occur:

   a. The System Alarm LED shall flash.
   b. A local piezo electric signal in the control panel shall sound.
   c. The 640-character LCD display shall indicate all information associated with the fire alarm condition, including the type of alarm point and its location within the protected premises.
   d. Printing and history storage equipment shall log the information associated each new fire alarm control panel condition, along with time and date of occurrence.
   e. All system output programs assigned via control-by-event interlock programming to be activated by the particular point in alarm shall be executed, and the associated system outputs (notification appliances and/or relays) shall be activated.

1.3. SUBMITTALS

A. General:

1. Two copies of all submittals shall be submitted to the Architect/Engineer for review.
2. All references to manufacturer's model numbers and other pertinent information herein is intended to establish minimum standards of performance, function and quality. Equivalent compatible UL-listed equipment from other manufacturers may be substituted for the specified equipment as long as the minimum standards are met.
3. All substitute equipment proposed as equal to the equipment specified herein, shall meet or exceed the following standards. For equipment other than that specified, the contractor shall supply proof that such substitute equipment equals or exceeds the features, functions, performance, and quality of the specified equipment.

B. Shop Drawings:

1. Sufficient information, clearly presented, shall be included to determine compliance with drawings and specifications.
2. Include manufacturer's name(s), model numbers, ratings, power requirements, equipment layout, device arrangement, complete wiring point-to-point diagrams, and conduit layouts.
3. Show annunciator layout, configurations, and terminations.

C. Manuals:

1. Submit simultaneously with the shop drawings, complete operating and maintenance ma-

nuals listing the manufacturer's name(s), including technical data sheets.
2. Wiring diagrams shall indicate internal wiring for each device and the interconnections between the items of equipment.
3. Provide a clear and concise description of operation that gives, in detail, the information required to properly operate the equipment and system.
4. Approvals will be based on complete submissions of manuals together with shop drawings.

D. Software Modifications

1. Provide the services of a factory trained and authorized technician to perform all system software modifications, upgrades or changes. Response time of the technician to the site shall not exceed 4 hours.
2. Provide all hardware, software, programming tools and documentation necessary to modify the fire alarm system on site. Modification includes addition and deletion of devices, circuits, zones and changes to system operation and custom label changes for devices or zones. The system structure and software shall place no limit on the type or extent of software modifications on-site. Modification of software shall not require power-down of the system or loss of system fire protection while modifications are being made.

E. Certifications:

Together with the shop drawing submittal, submit a certification from the major equipment manufacturer indicating that the proposed supervisor of the installation and the proposed performer of contract maintenance is an authorized representative of the major equipment manufacturer. Include names and addresses in the certification.

1.4. GUARANTY:

A. All work performed and all material and equipment furnished under this contract shall be free from defects and shall remain so for a period of at least one (1) year from the date of acceptance. The full cost of maintenance, labor and materials required to correct any defect during this one year period shall be included in the submittal bid.

1.5. POST CONTRACT MAINTENANCE:

A. Complete maintenance and repair service for the fire alarm system shall be available from a factory trained authorized representative of the manufacturer of the major equipment for a period of five (5) years after expiration of the guaranty.

B. As part of the bid/proposal, include a quote for a maintenance contract to provide all maintenance, tests, and repairs described below. Include also a quote for unscheduled maintenance/repairs, including hourly rates for technicians trained on this equipment, and response travel costs for each year of the maintenance period. Submittals that do not identify all post contract maintenance costs will not be accepted. Rates and costs shall be valid for the period of five (5) years after expiration of the guaranty.

C. Maintenance and testing shall be on a semiannual basis or as required by the AHJ. A preventive maintenance schedule shall be provided by the contractor describing the protocol for preventive maintenance. The schedule shall include:

1. Systematic examination, adjustment and cleaning of all detectors, manual fire alarm sta-

tions, control panels, power supplies, relays, waterflow switches and all accessories of the fire alarm system.

2. Each circuit in the fire alarm system shall be tested semiannually.
3. Each smoke detector shall be tested in accordance with the requirements of NFPA 72 Chapter 7.

1.6. POST CONTRACT EXPANSIONS:

A. The contractor shall have the ability to provide parts and labor to expand the system specified, if so requested, for a period of five (5) years from the date of acceptance.

B. As part of the submittal, include a quotation for all parts and material, and all installation and test labor as needed to increase the number of intelligent or addressable devices by ten percent (10%). This quotation shall include intelligent smoke detectors, intelligent heat detectors, addressable manual stations, addressable monitor modules and addressable modules equal in number to one tenth of the number required to meet this specification (list actual quantity of each type).

C. The quotation shall include installation, test labor, and labor to reprogram the system for this 10% expansion. If additional FACP hardware is required, include the material and labor necessary to install this hardware.

D. Do not include cost of conduit or wire or the cost to install conduit or wire.

E. Submittals that do not include this estimate of post contract expansion cost will not be accepted.

1.7. APPLICABLE PUBLICATIONS:

The publications listed below form a part of this specification. The publications are referenced in text by the basic designation only.

A. National Fire Protection Association (NFPA) - USA:

No. 12A Halon 1301 Extinguishing Systems
No. 13 Sprinkler Systems
No. 15 Water Spray Systems
No. 16 Foam/Water Deluge and Foam/Water Spray Systems
No. 17 Dry Chemical Extinguishing Systems
No. 17A Wet Chemical Extinguishing Systems
No. 70 National Electric Code (NEC)
No. 72-1996 National Fire Alarm Code
No. 90A Air Conditioning Systems
No. 92A Smoke Control Systems
No. 92B Smoke Management Systems in Malls, Atria, Large Areas
No. 101 Life Safety Code

B. Underwriters Laboratories Inc. (UL) - USA:

No. 50 Cabinets and Boxes
No. 268 Smoke Detectors for Fire Protective Signaling Systems
No. 864 Control Units for Fire Protective Signaling Systems
No. 268A Smoke Detectors for Duct Applications.

No. 521 Heat Detectors for Fire Protective
No. 228 Door Closers-Holders for Fire Protective Signaling Systems.
No. 464 Audible Signaling Appliances.
No. 38 Manually Actuated Signaling Boxes.
No. 346 Waterflow Indicators for Fire Protective Signaling Systems.
No. 1481 Power supplies for Fire Protective Signaling Systems.
No. 1076 Control Units for Burglar Alarm Proprietary Protective Signaling Systems.
No. 1971 Visual Notification Appliances.

C. Local and State Building Codes.

D. All requirements of the Authority Having Jurisdiction (AHJ).

1.8. APPROVALS:

A. The system shall have proper listing and/or approval from the following nationally recognized agencies:
UL Underwriters Laboratories Inc
ULC Underwriters Laboratories Canada
FM Factory Mutual
FM6320 Approved for Gas Detection

B. The Fire Alarm Control Panel and all transponders shall meet the modular listing requirements of the ninth edition UL Standard 864 (Control Units). Each subassembly, including all printed circuits, shall include the appropriate UL modular label. This includes all printed circuit board assemblies, power supplies, and enclosure parts. Systems that do not include modular labels may require return to the factory for system upgrades, and are not acceptable.

C. The system shall be listed by the national agencies as suitable for extinguishing release applications. The system shall support release of high and low pressure CO2.

PART 2.0 PRODUCTS

2.1. EQUIPMENT AND MATERIAL, GENERAL:

A. All equipment and components shall be new, and the manufacturer's current model. The materials, appliances, equipment and devices shall be tested and listed by a nationally recognized approvals agency for use as part of a protected premises protective signaling (fire alarm) system. The authorized representative of the manufacturer of the major equipment, such as control panels, shall be responsible for the satisfactory installation of the complete system.

B. All equipment and components shall be installed in strict compliance with each manufacturer's recommendations. Consult the manufacturer's installation manuals for all wiring diagrams, schematics, physical equipment sizes, etc. before beginning system installation. Refer to the riser/connection diagram for all specific system installation/termination/wiring data.

C. All equipment shall be attached to walls and ceiling/floor assemblies and shall be held firmly in place (e.g., detectors shall not be supported solely by suspended ceilings). Fasteners and supports shall be adequate to support the required load.

2.2. CONDUIT AND WIRE:

A. Conduit:

1. Conduit shall be in accordance with The National Electrical Code (NEC), local and state requirements.
2. Where possible, all wiring shall be installed in conduit or raceway. Conduit fill shall not exceed 40 percent of interior cross sectional area where three or more cables are contained within a single conduit.
3. Cable must be separated from any open conductors of Power, or Class 1 circuits, and shall not be placed in any conduit, junction box or raceway containing these conductors, as per NEC Article 760.
4. Wiring for 24 volt control, alarm notification, emergency communication and similar power-limited auxiliary functions may be run in the same conduit as initiating and signaling line circuits. All circuits shall be provided with transient suppression devices and the system shall be designed to permit simultaneous operation of all circuits without interference or loss of signals.
5. Conduit shall not enter the fire alarm control panel, or any other remotely mounted control panel equipment or backboxes, except where conduit entry is specified by the FACP manufacturer.
6. Conduit shall be 3/4 inch (19.1 mm) minimum.

B. Wire

1. All fire alarm system wiring must be new.
2. Wiring shall be in accordance with local, state and national codes (e.g., NEC Article 760) and as recommended by the manufacturer of the fire alarm system. Number and size of conductors shall be as recommended by the fire alarm system manufacturer, but not less than 18 AWG (1.02 mm) for initiating device circuits, signaling line circuits, and notification appliance circuits.
3. All wire and cable shall be listed and/or approved by a recognized testing agency for use with a protective signaling system.
4. Wire and cable not installed in conduit shall have a fire resistance rating suitable for the installation as indicated in NFPA 70 (e.g., FPLR).
5. The system shall permit the use of IDC and NAC wiring in the same conduit with the multiplex communication loop.
6. All field wiring shall be completely supervised. In the event of a primary power failure, disconnected standby battery, removal of any internal modules, or any open circuits in the field wiring; a trouble signal will be activated until the system and its associated field wiring are restored to normal condition.
7. All analog voice speaker and analog telephone circuits shall use twisted/shielded pair to eliminate cross talk.

C. Terminal Boxes, Junction Boxes and Cabinets:

1. All boxes and cabinets shall be UL listed for their intended purpose.

D. Initiating circuits shall be arranged to serve like categories (manual, smoke, waterflow). Mixed category circuitry shall not be permitted except on signaling line circuits connected to intelligent reporting devices.

E. The fire alarm control panel shall be connected to a separate dedicated branch circuit, maximum

20 amperes. This circuit shall be labeled at the main power distribution panel as FIRE ALARM. Fire alarm control panel primary power wiring shall be 12 AWG. The control panel cabinet shall be grounded securely to either a cold water pipe or grounding rod.

2.3. MAIN FIRE ALARM CONTROL PANEL OR NETWORK NODE:

A. The main FACP Central Console shall be a NOTIFIER Model NFS2-3030 and shall contain a microprocessor based Central Processing Unit (CPU). The CPU shall communicate with and control the following types of equipment used to make up the system: intelligent addressable smoke and thermal (heat) detectors, addressable modules, control circuits, and notification appliance circuits, local and remote operator terminals, printers, annunciators, and other system controlled devices. Subject to compliance with requirements, provide products by Notifier, Edwards, Siemens.

B. In conjunction with intelligent Loop Control Modules and Loop Expander Modules, the main FACP shall perform the following functions:

1. Supervise and monitor all intelligent addressable detectors and monitor modules connected to the system for normal, trouble and alarm conditions.
2. Supervise all initiating signaling and notification circuits throughout the facility by way of connection to addressable monitor and control modules.
3. Detect the activation of any initiating device and the location of the alarm condition. Operate all notification appliances and auxiliary devices as programmed. In the event of CPU failure, all SLC loop modules shall fallback to degrade mode. Such degrade mode shall treat the corresponding SLC loop control modules and associated detection devices as conventional two-wire operation. Any activation of a detector in this mode shall automatically activate associated Notification Appliance Circuits.
4. Visually and audibly annunciate any trouble, supervisory, security or alarm condition on operator's terminals, panel display, and annunciators.
5. When a fire alarm condition is detected and reported by one of the system initiating devices or appliances, the following functions shall immediately occur:

    a. The system alarm LED shall flash.
    b. A local piezo-electric audible device in the control panel shall sound a distinctive signal.
    c. The 640-character backlit LCD display shall indicate all information associated with the fire alarm condition, including the type of alarm point and its location within the protected premises.
    d. Printing and history storage equipment shall log and print the event information along with a time and date stamp.
    e. All system outputs assigned via preprogrammed equations for a particular point in alarm shall be executed, and the associated system outputs (alarm notification appliances and/or relays) shall be activated.
    f. When a trouble condition is detected and reported by one of the system initiating devices or appliances, the following functions shall immediately occur:
    g. The system trouble LED shall flash.
    h. A local piezo-electric audible device in the control panel shall sound a distinctive signal.
    i. The 640-character backlit LCD display shall indicate all information associated with the trouble condition, including the type of trouble point and its location within the protected premises.
    j. Printing and history storage equipment shall log and print the event information

along with a time and date stamp.

k. All system outputs assigned via preprogrammed equations for a particular point in trouble shall be executed, and the associated system outputs (trouble notification appliances and/or relays) shall be activated.

6. When a supervisory condition is detected and reported by one of the system initiating devices or appliances, the following functions shall immediately occur:

a. The system trouble LED shall flash.
b. A local piezo-electric audible device in the control panel shall sound a distinctive signal.
c. The 640-character backlit LCD display shall indicate all information associated with the supervisory condition, including the type of trouble point and its location within the protected premises.
d. Printing and history storage equipment shall log and print the event information along with a time and date stamp.
e. All system outputs assigned via preprogrammed equations for a particular point in trouble shall be executed, and the associated system outputs (notification appliances and/or relays) shall be activated.

7. When a security alarm condition is detected and reported by one of the system initiating devices or appliances, the following functions shall immediately occur:

a. The system security LED shall flash.
b. A local piezo-electric audible device in the control panel shall sound a distinctive signal.
c. The 640-character backlit LCD display shall indicate all information associated with the fire alarm condition, including the type of alarm point and its location within the protected premises.
d. Printing and history storage equipment shall log and print the event information along with a time and date stamp.
e. All system outputs assigned via preprogrammed equations for a particular point in alarm shall be executed, and the associated system outputs (alarm notification appliances and/or relays) shall be activated.

8. When a pre-alarm condition is detected and reported by one of the system initiating devices or appliances, the following functions shall immediately occur:

a. The system pre-alarm LED shall flash.
b. A local piezo-electric audible device in the control panel shall sound a distinctive signal.
c. The 640-character backlit LCD display shall indicate all information associated with the fire alarm condition, including the type of alarm point and its location within the protected premises.
d. Printing and history storage equipment shall log and print the event information along with a time and date stamp.
e. All system outputs assigned via preprogrammed equations for a particular point in alarm shall be executed, and the associated system outputs (alarm notification appliances and/or relays) shall be activated.

C. Operator Control

1. Acknowledge Switch:

    a. Activation of the control panel acknowledge switch in response to new alarms and/or troubles shall silence the local panel piezo electric signal and change the alarm and trouble LEDs from flashing mode to steady-ON mode. If multiple alarm or trouble conditions exist, depression of this switch shall advance the LCD display to the next alarm or trouble condition. In addition, the FACP shall support Block Acknowledge to allow multiple trouble conditions to be acknowledged with a single depression of this switch.
    b. Depression of the Acknowledge switch shall also silence all remote annunciator piezo sounders.

2. Signal Silence Switch:

    a. Depression of the Signal Silence switch shall cause all programmed alarm notification appliances and relays to return to the normal condition. The selection of notification circuits and relays that are silence able by this switch shall be fully field programmable within the confines of all applicable standards. The FACP software shall include silence inhibit and auto-silence timers.

3. Drill Switch:

    a. Depression of the Drill switch shall activate all programmed notification appliance circuits. The drill function shall latch until the panel is silenced or reset.

4. System Reset Switch:

    a. Depression of the System Reset switch shall cause all electronically latched initiating devices to return to their normal condition. Initiating devices shall re-report if active. Active notification appliance circuits shall not silence upon Reset. Systems that deactivate and subsequently re-activate notification appliance circuits shall not be considered equal. All programmed Control-By-Event equations shall be re-evaluated after the reset sequence is complete if the initiating condition has cleared. Non-latching trouble conditions shall not clear and re-report upon reset.

5. Lamp Test:

    a. The Lamp Test switch shall activate all local system LEDs, light each segment of the liquid crystal display and display the panel software revision for service personal.

6. Scroll Display Keys:

    a. There shall be Scroll Display keys for FIRE ALARM, SECURITY, SUPERVISORY, TROUBLE, and OTHER EVENTS. Depression of the Scroll Display key shall display the next event in the selected queue allowing the operator to view events by type.

7. Print Screen:

    a. Depression of the PRINT SCREEN switch shall send the information currently dis-

played on the 640-character display to the printer.

D. System Capacity and General Operation

1. The control panel shall be capable of expansion via up to 10 SLC modules. Each module shall support a maximum of 318 analog/addressable devices for a maximum system capacity of 3180 points. The system shall be capable of 3072 annunciation points per system regardless of the number of addressable devices.
2. The Fire Alarm Control Panel shall include a full featured operator interface control and annunciation panel that shall include a backlit 640-character liquid crystal display, individual, color coded system status LEDs, and a QWERTY style alphanumeric keypad for the field programming and control of the fire alarm system. Said LCD shall also support graphic bit maps capable of displaying the company name and logo of either the owner or installing company.
3. All programming or editing of the existing program in the system shall be achieved without special equipment and without interrupting the alarm monitoring functions of the fire alarm control panel.
4. The FACP shall be able to provide the following software and hardware features:

    a. Pre-signal and Positive Alarm Sequence: The system shall provide means to cause alarm signals to only sound in specific areas with a delay of the alarm from 60 to up to 180 seconds after start of alarm processing. In addition, a Positive Alarm Sequence selection shall be available that allows a 15-second time period for acknowledging an alarm signal from a fire detection/initiating device. If the alarm is not acknowledged within 15 seconds, all local and remote outputs shall automatically activate immediately.
    b. Smoke Detector Pre-alarm Indication at Control Panel: To obtain early warning of incipient or potential fire conditions, the system shall support a programmable option to determine system response to real-time detector sensing values above the programmed setting. Two levels of Pre-alarm indication shall be available at the control panel: alert and action.
    c. Alert: It shall be possible to set individual smoke detectors for pre-programmed pre-alarm thresholds. If the individual threshold is reached, the pre-alarm condition shall be activated.
    d. Action: If programmed for Action and the detector reaches a level exceeding the pre-programmed level, the control panel shall indicate an action condition. Sounder bases installed with either heat or smoke detectors shall automatically activate on action Pre-Alarm level, with general evacuation on Alarm level.
    e. The system shall support a detector response time to meet world annunciation requirements of less than 3 seconds.
    f. Device Blink Control: Means shall be provided to turn off detector/module LED strobes for special areas.
    g. NFPA 72 Smoke Detector Sensitivity Test: The system shall provide an automatic smoke detector test function that meet the requirements of NFPA 72.
    h. Programmable Trouble Reminder: The system shall provide means to automatically initiate a reminder that troubles exist in the system. The reminder will appear on the system display and (if enabled) will sound a piezo alarm.
    i. On-line or Off-line programming: The system shall provide means to allow panel programming either through an off-line software utility program away from the panel or while connected and on-line. The system shall also support upload and download of programmed database and panel executive system program to a Personal Comput-

er/laptop.

j. History Events: The panel shall maintain a history file of the last 4000 events, each with a time and date stamp. History events shall include all alarms, troubles, operator actions, and programming entries. The control panels shall also maintain a 1000 event Alarm History buffer, which consists of the 1000 most recent alarm events from the 4000 event history file.

k. Smoke Control Modes: The system shall provide means to perform FSCS mode Smoke Control to meet NFPA-92A and 90B and HVAC mode to meet NFPA 90A.

l. The system shall provide means for all SLC devices on any SLC loop to be auto programmed into the system by specific address. The system shall recognize specific device type ID's and associate that ID with the corresponding address of the device.

m. Drill: The system shall support means to activate all silenceable fire output circuits in the event of a practice evacuation or "drill". If enabled for local control, the front panel switch shall be held for a minimum of 2 seconds prior to activating the drill function.

n. Passwords and Users: The system shall support two password levels, master and user. Up to 9 user passwords shall be available, each of which may be assigned access to the programming change menus, the alter status menus, or both. Only the master password shall allow access to password change screens.

o. Two Wire Detection: The system shall support standard two wire detection devices specifically all models of System Sensor devices, Fenwal PDS-7125/7126 and CPD-7021, Hochiki model SLK-24F/24FH, Edwards 6250B/6270B and 6264B and Simplex models 2098-9201/9202 and 9576.

p. Block Acknowledge: The system shall support a block Acknowledge for Trouble Conditions

q. Sensitivity Adjust: The system shall provide Automatic Detector Sensitivity Adjust based on Occupancy schedules including a Holiday list of up to 15 days.

r. Environmental Drift Control: The system shall provide means for setting Environmental Drift Compensation by device. When a detector accumulates dust in the chamber and reaches an unacceptable level but yet still below the allowed limit, the control panel shall indicate a maintenance alert warning. When the detector accumulates dust in the chamber above the allowed limit, the control panel shall indicate a maintenance urgent warning.

s. Custom Action Messages: The system shall provide means to enter up to 100 custom action messages of up to 160 characters each. It shall be possible to assign any of the 100 messages to any point.

t. Print Functions: The system shall provide means to obtain a variety of reports listing all event, alarm, trouble, supervisory, or security history. Additional reports shall be available for point activation for the last Walk Test performed, detector maintenance report containing the detector maintenance status of each installed addressable detector, all network parameters, all panel settings including broad cast time, event ordering, and block acknowledge, panel timer values for Auto Silence, Silence Inhibit, AC Fail Delay time and if enabled, Proprietary Reminder, and Remote Reminder timers, supervision settings for power supply and printers, all programmed logic equations, all custom action messages, all non-fire and output activations (if pre-programmed for logging) all active points filtered by alarms only, troubles only, supervisory alarms, prealarms, disabled points and activated points, all installed points filtered by SLC points, logic zones, annunciators, releasing zones, special zones, and trouble zones.

u. Local Mode: If communication is lost to the central processor the system shall provide added survivability through the intelligent loop control modules. Inputs from

devices connected to the SLC and loop control modules shall activate outputs on the same loop when the inputs and outputs have been set with point programming to participate in local mode or when the type codes are of the same type: that is, an input with a fire alarm type code shall activate an output with a fire alarm type code.

v. Resound based on type for security or supervisory: The system shall indicate a Security alarm when a monitor module point programmed with a security Type Code activates. If silenced alarms exist, a Security alarm will Resound the panel sounder. The system shall indicate a Supervisory alarm when a monitor module point programmed with a supervisory Type Code activates. If there are silenced alarms, a Supervisory alarm will Resound the panel sounder.

w. Read status preview - enabled and disabled points: Prior to re-enabling points, the system shall inform the user that a disabled device is in the alarm state. This shall provide notice that the device must be reset before the device is enabled thereby avoiding activation of the notification circuits.

x. Custom Graphics: When fitted with an LCD display, the panel shall permit uploading of a custom bit-mapped graphic to the display screen.

y. Multi-Detector and Cooperating Detectors: The system shall provide means to link one detector to up to two detectors at other addresses on the same loop in cooperative multi-detector sensing. There shall be no requirement for sequential addresses on the detectors and the alarm event shall be a result or product of all cooperating detectors chamber readings.

z. Tracking/Latching Duct (ion and photo): The system shall support both tracking and latching duct detectors either ion or photo types.

aa. ACTIVE EVENT: The system shall provide a Type ID called FIRE CONTROL for purposes of air-handling shutdown, which shall be intended to override normal operating automatic functions. Activation of a FIRE CONTROL point shall cause the control panel to (1) initiate the monitor module Control-by-Event, (2) send a message to the panel display, history buffer, installed printer and annunciators, (3) shall not light an indicator at the control panel, (4) Shall display ACTIVE on the LCD as well a display a FIRE CONTROL Type Code and other information specific to the device.

bb. NON-FIRE Alarm Module Reporting: A point with a type ID of NON-FIRE shall be available for use for energy management or other non-fire situations. NON-FIRE point operation shall not affect control panel operation nor shall it display a message at the panel LDC. Activation of a NON-FIRE point shall activate control by event logic but shall not cause any indication on the control panel.

cc. Security Monitor Points: The system shall provide means to monitor any point as a type security.

dd. One-Man Walk Test: The system shall provide both a basic and advanced walk test for testing the entire fire alarm system. The basic walk test shall allow a single operator to run audible tests on the panel. All logic equation automation shall be suspended during the test and while annunciators can be enabled for the test, all shall default to the disabled state. During an advanced walk test, field-supplied output point programming will react to input stimuli such as CBE and logic equations. When points are activated in advanced test mode, each initiating event shall latch the input. The advanced test shall be audible and shall be used for pull station verification, magnet activated tests on input devices, input and output device and wiring operation/verification.

ee. Control By Event Functions: CBE software functions shall provide means to program a variety of output responses based on various initiating events. The control panel shall operate CBE through lists of zones. A zone shall become listed when it is added to a point's zone map through point programming. Each input point such as detec-

tor, monitor module or panel circuit module shall support listing of up to 10 zones into its programmed zone map.

ff. Permitted zone types shall be general zone, releasing zone and special zone. Each output point (control module, panel circuit module) can support a list of up to 10 zones including general zone, logic zone, releasing zone and trouble zone. It shall be possible for output points to be assigned to list general alarm. Non-Alarm or Supervisory points shall not activate the general alarm zone.

gg. 1000 General Zones: The system shall support up to 1000 general purpose software zones for linking inputs to outputs. When an input device activates, any general zone programmed into that device's zone map will be active and any output device that has an active general zone in its map will be active. It shall also be possible to use general zone as arguments in logic equations.

hh. 1000 Logic Equations: The system shall support up to 1000 logic equations for AND, OR, NOT, ONLY1, ANYX, XZONE or RANGE operators that allow conditional I/O linking. When any logic equation becomes true, all output points mapped to the logic zone shall activate.

ii. 10 trouble equations per device: The system shall provide support for up to 10 trouble equations for each device, which shall permit programming parameters to be altered, based on specific fault conditions. If the trouble equation becomes true, all output points mapped to the trouble zone shall activate.

jj. Control-By-Time: A time based logic function shall be available to delay an action for a specific period of time based upon a logic input with tracking feature. A latched version shall also be available. Another version of this shall permit activation on specific days of the week or year with ability to set and restore based on a 24 hour time schedule on any day of the week or year.

kk. Multiple agent releasing zones: The system shall support up to 10 releasing zones to protect against 10 independent hazards. Releasing zones shall provide up to three cross-zone and four abort options to satisfy any local jurisdiction requirements.

ll. Alarm Verification, by device, with timer and tally: The system shall provide a user-defined global software timer function that can be set for a specific detector. The timer function shall delay an alarm signal for a user-specified time period and the control panel shall ignore the alarm verification timer if another alarm is detected during the verification period. It shall also be possible to set a maximum verification count between 0 and 20 with the "0" setting producing no alarm verification. When the counter exceeds the threshold value entered, a trouble shall be generated to the panel.

E. Central Processing Unit

1. The Central Processing Unit shall communicate with, monitor, and control all other modules within the control panel. Removal, disconnection or failure of any control panel module shall be detected and reported to the system display by the Central Processing Unit.
2. The Central Processing Unit shall contain and execute all control-by-event (including Boolean functions including but not limited to AND, OR, NOT, ANYx, and CROSSZONE) programs for specific action to be taken if an alarm condition is detected by the system. Such control-by-event programs shall be held in non-volatile programmable memory, and shall not be lost with system primary and secondary power failure.
3. The Central Processing Unit shall also provide a real-time clock for time annotation, to the second, of all system events. The time-of-day and date shall not be lost if system primary and secondary power supplies fail.
4. The CPU shall be capable of being programmed on site without requiring the use of any external programming equipment. Systems that require the use of external programmers or

change of EPROMs are not acceptable.

5. Consistent with UL864 standards, the CPU and associated equipment are to be protected so that voltage surges or line transients will not affect them.
6. Each peripheral device connected to the CPU shall be continuously scanned for proper operation. Data transmissions between the CPU and peripheral devices shall be reliable and error free. The transmission scheme used shall employ dual transmission or other equivalent error checking techniques.
7. The CPU shall provide an EIA-232 interface between the fire alarm control panel and the UL Listed Electronic Data Processing (EDP) peripherals.
8. The CPU shall provide two EIA-485 ports for the serial connection to annunciation and control subsystem components.
9. The EIA-232 serial output circuit shall be optically isolated to assure protection from earth ground.
10. The CPU shall provide one high-speed serial connection for support of network communication modules.
11. The CPU shall provide double pole relays for FIRE ALARM, SYSTEM TROUBLE, SUPERVISORY, and SECURITY. The SUPERVISORY and SECURITY relays shall provide selection for additional FIRE ALARM contacts.

12. The EIA-485 interface may be used for network connection to a proprietary-receiving unit.

F. System Display

1. The system display shall provide all the controls and indicators used by the system operator and may also be used to program all system operational parameters.
2. The display assembly shall contain, and display as required, custom alphanumeric labels for all intelligent detectors, addressable modules, and software zones.
3. The system display shall provide a 640-character backlit alphanumeric Liquid Crystal Display (LCD). It shall also provide ten Light-Emitting-Diodes (LEDs), that indicate the status of the following system parameters: AC POWER, FIRE ALARM, PREALARM, SECURITY, SUPERVISORY, SYSTEM TROUBLE, OTHER EVENT, SIGNALS SILENCED, POINT DISABLED, and CPU FAILURE.
4. The system display shall provide a QWERTY style keypad with control capability to command all system functions, entry of any alphabetic or numeric information, and field programming. Two different password levels with up to ten (one Master and nine User) passwords shall be accessible through the display interface assembly to prevent unauthorized system control or programming.
5. The system display shall include the following operator control switches: ACKNOWLEDGE, SIGNAL SILENCE, RESET, DRILL, and LAMP TEST. Additionally, the display interface shall allow scrolling of events by event type including, FIRE ALARM, SECURITY, SUPERVISORY, TROUBLE, and OTHER EVENTS. A PRINT SCREEN button shall be provided for printing the event currently displayed on the 640-character LCD.

G. Loop (Signaling Line Circuit) Control Module:

1. The Loop Control Module shall monitor and control a minimum of 318 intelligent addressable devices. This includes 159 intelligent detectors (Ionization, Photoelectric, or Thermal) and 159 monitor or control modules.
2. The Loop Control Module shall contain its own microprocessor and shall be capable of operating in a local/degrade mode (any addressable device input shall be capable of activating

any or all addressable device outputs) in the unlikely event of a failure in the main CPU.

3. The Loop Control Module shall provide power and communicate with all intelligent addressable detectors and modules on a single pair of wires. This SLC Loop shall be capable of operating as a NFPA Style 6 (Class B) circuit.
4. The SLC interface board shall be able to drive an NFPA Style 6 twisted unshielded circuit up to 12,500 feet in length. The SLC Interface shall also be capable of driving an NFPA Style 6, no twist, no shield circuit for limited distances determined by the manufacturer. In addition, SLC wiring shall meet the listing requirements for it to exit the building or structure. "T"-tapping shall be allowed in either case.
5. The SLC interface board shall receive analog or digital information from all intelligent detectors and shall process this information to determine whether normal, alarm, or trouble conditions exist for that particular device. Each SLC Loop shall be isolated and equipped to annunciate an Earth Fault condition. The SLC interface board software shall include software to automatically maintain the detector's desired sensitivity level by adjusting for the effects of environmental factors, including the accumulation of dust in each detector. The analog information may also be used for automatic detector testing and the automatic determination of detector maintenance requirements.

H. Enclosures:

1. The control panel shall be housed in a UL-listed cabinet suitable for surface or semi-flush mounting. The cabinet and front shall be corrosion protected, given a rust-resistant prime coat, and manufacturer's standard finish.
2. The back box and door shall be constructed of 0.060 steel with provisions for electrical conduit connections into the sides and top.
3. The door shall provide a key lock and include a transparent opening for viewing all indicators. For convenience, the door shall have the ability to be hinged on either the right or left-hand side.
4. The control unit shall be modular in structure for ease of installation, maintenance, and future expansion.

I. Power Supply:

1. The Addressable Main Power Supply shall operate on 120/240 VAC, 50/60 Hz, and shall provide all necessary power for the FACP.
2. The Addressable Main Power Supply shall provide the required power to the CPU using a switching 24 VDC regulator and shall incorporate a battery charger for 24 hours of standby power using dual-rate charging techniques for fast battery recharge.
3. The Addressable Main Power Supply shall provide a battery charger for 24 hours of standby using dual-rate charging techniques for fast battery recharge. The supply shall be capable of charging batteries ranging in capacity from 7-200 amp-hours within a 48-hour period.
4. The Addressable Main Power Supply shall provide a very low frequency sweep earth detect circuit, capable of detecting earth faults.
5. The Addressable Main Power Supply shall be power-limited per UL864 requirements.

J. Auxiliary Field Power Supply - Addressable

1. The auxiliary addressable power supply is a remote 24 VDC power supply used to power Notification Devices and field devices that require regulated 24VDC power. The power supply shall also include and charge backup batteries.

2. The addressable power supply for the fire alarm system shall provide up a minimum of 6.0 amps of 24 volt DC regulated power for Notification Appliance Circuit (NAC) power or 5 amps of 24 volt DC general power. The power supply shall have an additional .5 amp of 24 VDC auxiliary power for use within the same cabinet as the power supply. It shall include an integral charger designed to charge 7.0 - 25.0 amp hour batteries.
3. The addressable power supply shall provide four individually addressable Notification Appliance Circuits that may be configured as two Class "A" and two Class "B" or four Class "B" only circuits. All circuits shall be power-limited per UL 864 requirements.
4. The addressable power supply shall provide built-in synchronization for certain Notification Appliances on each circuit without the need for additional synchronization modules. The power supply's output circuits shall be individually selected for synchronization. A single addressable power supply shall be capable of supporting both synchronized and non-synchronized Notification Devices at the same time.
5. The addressable power supply shall operate on 120 or 240 VAC, 50/60 Hz.
6. The interface to the power supply from the Fire Alarm Control Panel (FACP) shall be via the Signaling Line Circuit (SLC) or other multiplexed means Power supplies that do not use an intelligent interface are not suitable substitutes. The required wiring from the FACP to the addressable power supply shall be a single unshielded twisted pair wire. Data on the SLC shall be transmitted between 24 VDC, 5 VDC and 0 VDC at approximately 3.33k baud.
7. The addressable power supply shall supervise for battery charging failure, AC power loss, power brownout, battery failure, NAC loss, and optional ground fault detection. In the event of a trouble condition, the addressable power supply shall report the incident and the applicable address to the FACP via the SLC.
8. The addressable power supply shall have an AC Power Loss Delay option. If this option is utilized and the addressable power supply experiences an AC power loss, reporting of the incident to the FACP will be delayed. A delay time of eight or sixteen hours shall be Dip-switch selected.
9. The addressable power supply shall have an option for Canadian Trouble Reporting and this option shall be Dip-switch selectable.
10. The addressable power supply mounts in either the FACP backbox or its own dedicated surface mounted backbox with cover.
11. Each of the power supply's four output circuits shall be DIP-switch selected for Notification Appliance Circuit or General Purpose 24 VDC power. Any output circuit shall be able to provide up to 2.5 amps of 24 VDC power.
12. The addressable power supply's output circuits shall be individually supervised when they are selected to be either a Notification Appliance Circuit when wired Class "A" or by the use of and end-of-line resistor. When the power supply's output circuit is selected as General 24VDC power, the circuit shall be individually supervised when an end-of-line relay is used.
13. When selected for Notification Appliance Circuits, the output circuits shall be individually DIP-switch selectable for Steady, March Time, Dual Stage or Temporal.
14. When selected as a Notification Appliance Circuit, the output circuits of the addressable power supply shall have the option to be coded by the use of a universal zone coder.
15. The addressable power supply shall interface and synchronize with other power supplies of the same type. The required wiring to interface multiple addressable power supplies shall be a single unshielded, twisted pair wire.
16. An individual or multiple interfaced addressable power supplies shall have the option to use an external charger for battery charging. Interfaced power supplies shall have the option to share backup battery power.

K. Field Charging Power Supply (FCPS)

The FCPS is a device designed for use as either a remote 24 volt power supply or used to power Notification Appliances.

1. The FCPS shall offer up to 6.0 amps (4.0 amps continuous) of regulated 24 volt power. It shall include an integral charger designed to charge 7.0 amp hour batteries and to support 60 hour standby.
2. The Field Charging Power Supply shall have two input triggers. The input trigger shall be a Notification Appliance Circuit (from the fire alarm control panel) or a relay. Four outputs (two Style Y or Z and two style Y) shall be available for connection to the Notification devices.
3. The FCPS shall include an attractive surface mount backbox.
4. The Field Charging Power Supply shall include the ability to delay the AC fail delay per NFPA requirements.
5. The FCPS include power limited circuitry, per 1995 UL standards.

L. System Circuit Supervision

1. The FACP shall supervise all circuits to intelligent devices, transponders, annunciators and peripheral equipment and annunciate loss of communication with these devices. The CPU shall continuously scan above devices for proper system operation and upon loss of response from a device shall sound an audible trouble, indicate which device or devices are not responding and print the information in the history buffer and on the printer.
2. Transponders that lose communication with the CPU shall sound an audible trouble and light an LED indicating loss of communications.
3. Sprinkler system valves, standpipe control valves, PIV, and main gate valves shall be supervised for off-normal position.
4. All speaker and emergency phone circuits shall be supervised for opens and shorts. Each transponder speaker and emergency phone circuit shall have an individual ON/OFF indication (green LED).

M. Field Wiring Terminal Blocks

1. All wiring terminal blocks shall be the plug-in/removable type and shall be capable of terminating up to 12 AWG wire. Terminal blocks that are permanently fixed to the PC board are not acceptable.

N. Controls with associated LED Indicators:

1. Speaker Switches/Indicators

    a. The speaker circuit control switches/indicators shall include visual indication of active and trouble status for each speaker circuit in the system.
    b. The speaker circuit control panel shall include switches to manually activate or deactivate each speaker circuit in the system.

2. Emergency Two-Way Telephone Control Switches/Indicators

    a. The emergency telephone circuit control panel shall include visual indication of active and trouble status for each telephone circuit in the system.

b. The telephone circuit control panel shall include switches to manually activate or deactivate each telephone circuit in the system.

O. Remote Transmissions:

1. Provide local energy or polarity reversal or trip circuits as required.
2. The system shall be capable of operating a polarity reversal or local energy or fire alarm transmitter for automatically transmitting fire information to the fire department.
3. Provide capability and equipment for transmission of zone alarm and trouble signals to remote operator's terminals, system printers and annunciators.
4. Transmitters shall be compatible with the systems and equipment they are connected to such as timing, operation and other required features.

P. System Expansion:

Design the main FACP and required components so that the system can be expanded in the future (to include the addition of twenty percent more circuits or zones) without disruption or replacement of the existing control panel. This shall include hardware capacity, software capacity and cabinet space.

Q. Field Programming

1. The system shall be programmable, configurable and expandable in the field without the need for special tools, laptop computers, or other electronic interface equipment. There shall be no firmware changes required to field modify the system time, point information, equations, or annunciator programming/information.
2. It shall be possible to program through the standard FACP keyboard all system functions.
3. All field defined programs shall be stored in non-volatile memory.
4. Two levels of password protection shall be provided in addition to a key-lock cabinet. One level shall be used for status level changes such as point/zone disable or manual on/off commands (Building Manager). A second (higher-level) shall be used for actual change of the life safety program (installer). These passwords shall be five (5) digits at a minimum. Upon entry of an invalid password for the third time within a one minute time period an encrypted number shall be displayed. This number can be used as a reference for determining a forgotten password.
5. The system programming shall be "backed" up via an upload/download program, and stored on compatible removable media. A system back-up disk shall be completed and given in duplicate to the building owner and/or operator upon completion of the final inspection. The program that performs this function shall be "non-proprietary", in that, it shall be possible to forward it to the building owner/operator upon his or her request.
6. The installer's field programming and hardware shall be functionally tested on a computer against known parameters/norms which are established by the FACP manufacturer. A software program shall test Input-to-Output correlations, device Type ID associations, point associations, time equations, etc. This test shall be performed on an IBM-compatible PC with a verification software package. A report shall be generated of the test results and two copies turned in to the engineer(s) on record.

R. Specific System Operations

1. Smoke Detector Sensitivity Adjust: Means shall be provided for adjusting the sensitivity of any or all analog intelligent smoke detectors in the system from the system keypad or from

the keyboard of the video terminal. Sensitivity range shall be within the allowed UL window.

2. Alarm Verification: Each of the Intelligent Addressable Smoke Detectors in the system may be independently selected and enabled to be an alarm verified detector. The alarm verification function shall be programmable from 0 to 60 seconds and each detector shall be able to be selected for verification during the field programming of the system or anytime after system turn-on. Alarm verification shall not require any additional hardware to be added to the control panel. The FACP shall keep a count of the number of times that each detector has entered the verification cycle. These counters may be displayed and reset by the proper operator commands.

S. System Point Operations:

1. Any addressable device in the system shall have the capability to be enabled or disabled through the system keypad or video terminal.
2. System output points shall be capable of being turned on or off from the system keypad or the video terminal.
3. Point Read: The system shall be able to display the following point status diagnostic functions without the need for peripheral equipment. Each point shall be annunciated for the parameters listed:

    a. Device Status.
    b. Device Type.
    c. Custom Device Label.
    d. Software Zone Label.
    e. Device Zone Assignments.
    f. Analog Detector Sensitivity.
    g. All Program Parameters.

4. System Status Reports: Upon command from an operator of the system, a status report will be generated and printed, listing all system statuses:
5. System History Recording and Reporting: The fire alarm control panel shall contain a history buffer that will be capable of storing up to 4000 system events. Each of these events will be stored, with time and date stamp, until an operator requests that the contents be either displayed or printed. The contents of the history buffer may be manually reviewed; one event at a time, and the actual number of activations may also be displayed and or printed. History events shall include all alarms, troubles, operator actions, and programming entries.
6. The history buffer shall use non-volatile memory. Systems which use volatile memory for history storage are not acceptable.
7. Automatic Detector Maintenance Alert: The fire alarm control panel shall automatically interrogate each intelligent system detector and shall analyze the detector responses over a period of time.
8. If any intelligent detector in the system responds with a reading that is below or above normal limits, then the system will enter the trouble mode, and the particular Intelligent Detector will be annunciated on the system display, and printed on the optional system printer. This feature shall in no way inhibit the receipt of alarm conditions in the system, nor shall it require any special hardware, special tools or computer expertise to perform.
9. The system shall include the ability (programmable) to indicate a "pre-alarm" condition. This will be used to alert maintenance personal when a detector is at 80% of its alarm threshold in a 60 second period.

2.4. SYSTEM COMPONENTS:

A. Speakers:

1. All speakers shall operate on 25 VRMS or with field selectable output taps from 0.5 to 2.0 Watts.
2. Speakers in corridors and public spaces shall produce a nominal sound output of 84 dBA at 10 feet (3m).
3. Frequency response shall be a minimum of 400 HZ to 4000 HZ.
4. The back of each speaker shall be sealed to protect the speaker cone from damage and dust.

B. Audible/Visual Combination Devices:

1. Shall meet the applicable requirements of Section A listed above for audibility.
2. Shall meet the requirements of Section B listed above for visibility.

C. Programmable Electronic Sounders:

1. Electronic sounders shall operate on 24 VDC nominal.
2. Electronic sounders shall be field programmable without the use of special tools, at a sound level of at least 90 dBA measured at 10 feet from the device.
3. Shall be flush or surface mounted as shown on plans.

D. Strobe lights shall meet the requirements of the ADA, UL Standard 1971, be fully synchronized, and shall meet the following criteria:

1. The maximum pulse duration shall be 2/10 of one second
2. Strobe intensity shall meet the requirements of UL 1971.
3. The flash rate shall meet the requirements of UL 1971.

E. Horn/Strobes:
1. Operate on 24 VDC
2. Have two selectable tone options of temporal 3 and non-temporal continuous pattern.
3. Have at least 2 audibility options
4. Maximum Pulse Duration: 0.2 second.
5. Strobe Intensity: UL 1971.
6. Flash Rate: UL 1971.
7. Strobe Candela Rating: Determine by positioning selector switch on back of device.

F. Manual Fire Alarm Stations

1. Manual fire alarm stations shall be non-code, non-breakglass type, equipped with key lock so that they may be tested without operating the handle.
2. Stations must be designed such that after an actual activation, they cannot be restored to normal except by key reset.
3. An operated station shall automatically condition itself so as to be visually detected, as operated, at a minimum distance of 100 feet (30.5 m) front or side.
4. Manual stations shall be constructed of high impact Lexan, with operating instructions provided on the cover. The word FIRE shall appear on the manual station in letters one half inch (12.7 mm) in size or larger.

G. Conventional Photoelectric Area Smoke Detectors

1. Photoelectric smoke detectors shall be a 24 VDC, two wire, ceiling-mounted, light scattering type using an LED light source.
2. Each detector shall contain a remote LED output and a built-in test switch.
3. Detector shall be provided on a twist-lock base.
4. It shall be possible to perform a calibrated sensitivity and performance test on the detector without the need for the generation of smoke. The test method shall test all detector circuits.
5. A visual indication of an alarm shall be provided by dual latching Light Emitting Diodes (LEDs), on the detector, which may be seen from ground level over 360 degrees. These LEDs shall flash at least every 10 seconds, indicating that power is applied to the detector.
6. The detector shall not go into alarm when exposed to air velocities of up to 3000 feet (914.4 m) per minute.
7. The detector screen and cover assembly shall be easily removable for field cleaning of the detector chamber.
8. All field wire connections shall be made to the base through the use of a clamping plate and screw.

H. Conventional Ionization Type Area Smoke Detectors

1. Ionization type smoke detectors shall be a two wire, 24 VDC type using a dual unipolar chamber.
2. Each detector shall contain a remote LED output and a built-in test switch.
3. Detector shall be provided on a twist-lock base.
4. It shall be possible to perform a calibration sensitivity and performance test on the detector without the need for the generation of smoke.
5. A visual indication of an alarm shall be provided by dual latching Light Emitting Diodes (LEDs) over 360 degrees, on the detector, which may be seen from ground level. This LED shall flash every 10 seconds, indicating that power is applied to the detector.
6. The detector shall not alarm when exposed to air velocities of up to 1,200 feet (365.76 m) per minute. The detector screen and cover assembly shall be easily removable for field cleaning of the detector chamber.
7. All field wire connections shall be made to the base through the use of a clamping plate and screw.

I. Duct Smoke Detectors

Duct smoke detectors shall be a 24 VDC type with visual alarm and power indicators, and a reset switch. Each detector shall be installed upon the composite supply/return air ducts(s), with properly sized air sampling tubes.

J. Projected Beam Detectors

1. The projected beam type shall be a 4-wire 24 VDC device.
2. The detector shall be listed to UL 268 and shall consist of a separate transmitter and receiver capable of being powered separately or together.
3. The detector shall operate in either a short range (30' - 100') or long range (100' - 330') mode.
4. The temperature range of the device shall be -22 degrees F to 131 degrees F.
5. The detector shall feature a bank of four alignment LEDs on both the receiver and the

transmitter that are used to ensure proper alignment of unit without special tools.
6. Beam detectors shall feature automatic gain control which will compensate for gradual signal deterioration from dirt accumulation on lenses.
7. The unit shall be both ceiling and wall mountable.
8. The detector shall have the ability to be tested using calibrated test filters or magnet activated remote test station.

K. Automatic Conventional Heat Detectors

1. Automatic heat detectors shall have a combination rate of rise and fixed temperature rated at 135 degrees Fahrenheit (57.2 Celsius) for areas where ambient temperatures do not exceed 100 degrees (37.7 Celsius), and 200 degrees (93.33 Celsius) for areas where the temperature does not exceed 150 degrees (65.5 Celsius).
2. Automatic heat detectors shall be a low profile, ceiling mount type with positive indication of activation.
3. The rate of rise element shall consist of an air chamber, a flexible metal diaphragm, and a factory calibrated, moisture-proof, trouble free vent, and shall operate when the rate of temperature rise exceeds 15 degrees F (9.4 degrees C) per minute.
4. The fixed temperature element shall consist of a fusible alloy retainer and actuator shaft.
5. Automatic heat detectors shall have a smooth ceiling rating of 2500 square feet (762 square meters).

L. Waterflow Indicator:

1. Waterflow Switches shall be an integral, mechanical, non-coded, non-accumulative retard type.
2. Waterflow Switches shall have an alarm transmission delay time which is conveniently adjustable from 0 to 60 seconds. Initial settings shall be 30-45 seconds.
3. All waterflow switches shall come from a single manufacturer and series.
4. Waterflow switches shall be provided and connected under this section but installed by the mechanical contractor.
5. Where possible, locate waterflow switches a minimum of one (1) foot from a fitting which changes the direction of the flow and a minimum of three (3) feet from a valve.

M. Sprinkler and Standpipe Valve Supervisory Switches:

1. Each sprinkler system water supply control valve riser, zone control valve, and standpipe system riser control valve shall be equipped with a supervisory switch. Standpipe hose valves, and test and drain valves shall not be equipped with supervisory switches.
2. PIV (post indicator valve) or main gate valves shall be equipped with a supervisory switch.
3. The switch shall be mounted so as not to interfere with the normal operation of the valve and adjusted to operate within two revolutions toward the closed position of the valve control, or when the stem has moved no more than one-fifth of the distance from its normal position.
4. The supervisory switch shall be contained in a weatherproof aluminum housing, which shall provide a 3/4 inch (19 mm) conduit entrance and incorporate the necessary facilities for attachment to the valves.
5. The switch housing shall be finished in red baked enamel.
6. The entire installed assembly shall be tamper proof and arranged to cause a switch operation if the housing cover is removed, or if the unit is removed from its mounting.
7. Valve supervisory switches shall be provided and connected under this section and installed

by mechanical contractor.

a. This unit shall provide for each zone: alarm indications, using a red alarm and yellow trouble long-life LEDs and control switches for the control of fire alarm control panel functions. The annunciator will also have an ON-LINE LED, local piezo electric signal, local acknowledge/lamp test switch, and custom slide-in zone/function identification labels.
b. Switches shall be available for remote annunciation and control of output points in the system, system acknowledge, telephone zone select, speaker select, global signal silence, and global system reset within the confines of all applicable standards.

N. Alphanumeric LCD Type Annunciator:

1. The alphanumeric display annunciator shall be a supervised, remotely located back-lit LCD display containing a minimum of eighty (80) characters for alarm annunciation in clear English text.
2. The LCD annunciator shall display all alarm and trouble conditions in the system.
3. An audible indication of alarm shall be integral to the alphanumeric display.
4. The display shall be UL listed for fire alarm application.
5. It shall be possible to connect up to 32 LCD displays and be capable of wiring distances up to 6,000 feet from the control panel.
6. The annunciator shall connect to a separate, dedicated "terminal mode" EIA-485 interface. This is a two-wire loop connection and shall be capable of distances to 6,000 feet. Each terminal mode LCD display shall mimic the main control panel.
7. The system shall allow a minimum of 32 terminal mode LCD annunciators. Up to 10 LCD annunciators shall be capable of the following system functions: Acknowledge, Signal Silence and Reset, which shall be protected from unauthorized use by a key switch or password.
8. The LED annunciator shall offer an interface to a graphic style annunciator and provide each of the features listed above.

O. Interactive Display

1. The system shall be an ONYX FirstVision™.
2. The system shall operate on an UL listed Embedded platform operating at no less than 700 MHz on the Microsoft® Windows® XP Embedded platform.
3. The Embedded platform shall have: no less than 256 megabytes of RAM, a flash drive with no less than 1 Gigabytes of storage space, 100 Base-T Ethernet NIC card, and USB ports.
4. The Embedded platform shall have a minimum 17" touch screen display.
5. The Embedded platform shall come equipped with all necessary gateway modules to allow connection to the network it monitors as standard equipment.

a. A UL listed Ethernet Hub shall be provided for connection of multiple interactive displays and/or gateways.

P. Portable Emergency Telephone Handset Jack

1. Portable emergency telephone handset jacks shall be flush mounted on stainless steel plates as indicated on the plans. Jacks shall be approved for emergency telephone system application.
2. Insertion of a portable handset plug into a jack shall send a signal to the fire command cen-

ter, which shall audibly and visually indicate the on-line condition, and shall sound a "ring" indication in the handset.

3. The two-way emergency telephone system shall support a minimum of seven (7) handsets on line without degradation of the signal.

Q. Fixed Emergency Telephone Handset

1. The telephone cabinet shall be painted red and clearly labeled as "Emergency Telephone." The cabinets shall be located where shown on drawings.
2. The handset cradle shall have a switch connection so that lifting the handset off of the cradle shall send a signal to the fire command center, which shall audibly and visually indicate its on-line (off-hook) condition.
3. On activating the remote phone, the phone earpiece shall sound a telephone ring signal until the master handset is lifted.
4. The two-way emergency telephone system shall support a minimum of seven (7) handsets on line without degradation of the signal.

R. Universal Digital Alarm Communicator Transmitter (UDACT). The UDACT is an interface for communicating digital information between a fire alarm control panel and an UL-Listed central station.

1. The UDACT shall be compact in size, mounting in a standard module position of the fire alarm control cabinet. Optionally, the UDACT shall have the ability for remote mounting, up to 6,000 feet from the fire alarm control panel. The wire connections between the UDACT and the control panel shall be supervised with one pair for power and one pair for multiplexed communication of overall system status. Systems that utilize relay contact closures are not acceptable.
2. The UDACT shall include connections for dual telephone lines (with voltage detect), per UL/NFPA/FCC requirements. It shall include the ability for split reporting of panel events up to three different telephone numbers.
3. The UDACT shall be completely field programmable from a built-in keypad and 4 character red, seven segment display.
4. The UDACT shall be capable of transmitting events in at least 15 different formats. This ensures compatibility with existing and future transmission formats.
5. Communication shall include vital system status such as:

- Independent Zone (Alarm, trouble, non-alarm, supervisory)
- Independent Addressable Device Status
- AC (Mains) Power Loss
- Low Battery and Earth Fault
- System Off Normal
- 12 and 24 Hour Test Signal
- Abnormal Test Signal (per UL requirements)
- EIA-485 Communications Failure
- Phone Line Failure

6. The UDACT shall support independent zone/point reporting when used in the Contact ID format. In this format the UDACT shall support transmission of up to 2,040 points. This enables the central station to have exact details concerning the origin of the fire or response emergency.
7. AN IP Communicator option shall be available to interface to the UDACT and be capable of

transmitting signals over the internet/intranet to a compatible receiver.

2.5. SYSTEM COMPONENTS - ADDRESSABLE DEVICES

A. Addressable Devices - General

1. Addressable devices shall provide an address-setting means using rotary decimal switches. Addressable devices that require the address be programmed using a programming utility are not an allowable substitute.
2. Addressable devices shall use simple to install and maintain decade (numbered 0 to 15) type address switches. Devices which use a binary address or special tools for setting the device address, such as a dip switch are not an allowable substitute.
3. Detectors shall be Analog and Addressable, and shall connect to the fire alarm control panel's Signaling Line Circuits.
4. Addressable smoke and thermal detectors shall provide dual (2) status LEDs. Both LEDs shall flash under normal conditions, indicating that the detector is operational and in regular communication with the control panel, and both LEDs shall be placed into steady illumination by the control panel, indicating that an alarm condition has been detected. If required, the flashing mode operation of the detector LEDs can be programmed off via the fire control panel program.
5. The fire alarm control panel shall permit detector sensitivity adjustment through field programming of the system. Sensitivity can be automatically adjusted by the panel on a time-of-day basis.
6. Using software in the FACP, detectors shall automatically compensate for dust accumulation and other slow environmental changes that may affect their performance. The detectors shall be listed by UL as meeting the calibrated sensitivity test requirements of NFPA Standard 72, Chapter 7.
7. The detectors shall be ceiling-mount and shall include a separate twist-lock base which includes a tamper proof feature.
8. The following bases and auxiliary functions shall be available:

    a. Sounder base rated at 85 DBA minimum.
    b. Form-C Relay base rated 30VDC, 2.0A
    c. isolator base

9. The detectors shall provide a test means whereby they will simulate an alarm condition and report that condition to the control panel. Such a test may be initiated at the detector itself (by activating a magnetic switch) or initiated remotely on command from the control panel.
10. Detectors shall also store an internal identifying type code that the control panel shall use to identify the type of device (example: ION, PHOTO, THERMAL).

B. Addressable Manual Fire Alarm Box (manual station)

1. Addressable manual fire alarm boxes shall, on command from the control panel, send data to the panel representing the state of the manual switch and the addressable communication module status. They shall use a key operated test-reset lock, and shall be designed so that after actual emergency operation, they cannot be restored to normal use except by the use of a key.
2. All operated stations shall have a positive, visual indication of operation and utilize a key type reset.
3. Manual fire alarm boxes shall be constructed of Lexan with clearly visible operating in-

structions provided on the cover. The word FIRE shall appear on the front of the stations in raised letters, 1.75 inches (44 mm) or larger.

C. Intelligent Photoelectric Smoke Detector

1. The detectors shall use the photoelectric (light-scattering) principal to measure smoke density and shall, on command from the control panel, send data to the panel representing the analog level of smoke density.

D. Intelligent Laser Photo Smoke Detector

1. The intelligent laser photo smoke detector shall be a spot type detector that incorporates an extremely bright laser diode and an integral lens that focuses the light beam to a very small volume near a receiving photo sensor. The scattering of smoke particles shall activate the photo sensor.
2. The laser detector shall have conductive plastic so that dust accumulation is reduced significantly.
3. The intelligent laser photo detector shall have nine sensitivity levels and be sensitive to a minimum obscuration of 0.03 percent per foot.
4. The laser detector shall not require expensive conduit, special fittings or PVC pipe.
5. The intelligent laser photo detector shall support standard, relay, isolator and sounder detector bases.
6. The laser photo detector shall not require other cleaning requirements than those listed in NFPA 72. Replacement, refurbishment or specialized cleaning of the detector head shall not be required.
7. The laser photo detector shall include two bicolor LEDs that flash green in normal operation and turn on steady red in alarm.

E. Intelligent Ionization Smoke Detector

1. The detectors shall use the dual-chamber ionization principal to measure products of combustion and shall, on command from the control panel, send data to the panel representing the analog level of products of combustion.

F. Intelligent Multi Criteria Acclimating Detector

1. The intelligent multi criteria Acclimate detector shall be an addressable device that is designed to monitor a minimum of photoelectric and thermal technologies in a single sensing device. The design shall include the ability to adapt to its environment by utilizing a built-in microprocessor to determine its environment and choose the appropriate sensing settings. The detector design shall allow a wide sensitivity window, no less than 1 to 4% per foot obscuration. This detector shall utilize advanced electronics that react to slow smoldering fires and thermal properties all within a single sensing device.
2. The microprocessor design shall be capable of selecting the appropriate sensitivity levels based on the environment type it is in (office, manufacturing, kitchen etc.) and then have the ability to automatically change the setting as the environment changes (as walls are moved or as the occupancy changes).
3. The intelligent multi criteria detection device shall include the ability to combine the signal of the thermal sensor with the signal of the photoelectric signal in an effort to react hastily in the event of a fire situation. It shall also include the inherent ability to distinguish between a fire condition and a false alarm condition by examining the characteristics of the

thermal and smoke sensing chambers and comparing them to a database of actual fire and deceptive phenomena.

G. Intelligent Thermal Detectors

1. Thermal detectors shall be intelligent addressable devices rated at 135 degrees Fahrenheit (58 degrees Celsius) and have a rate-of-rise element rated at 15 degrees F (9.4 degrees C) per minute. It shall connect via two wires to the fire alarm control panel signaling line circuit.

H. Intelligent Duct Smoke Detector

1. The smoke detector housing shall accommodate either an intelligent ionization detector or an intelligent photoelectric detector, of that provides continuous analog monitoring and alarm verification from the panel.
2. When sufficient smoke is sensed, an alarm signal is initiated at the FACP, and appropriate action taken to change over air handling systems to help prevent the rapid distribution of toxic smoke and fire gases throughout the areas served by the duct system.

I. Advanced Multi-Criteria Intelligent Detector

1. The intelligent multi criteria IntelliQuad detector shall be an addressable device combining four sensing elements in a single sensing device providing the ability to detect all four major elements of a fire. The detector design shall allow sensitivity setting between 1% to 4% per foot obscuration.
2. The detector shall include a photoelectric sensing element, thermal sensing element, IR (Infrared) sensing element and CO (carbon monoxide) sensor.

J. Addressable Dry Contact Monitor Module

1. Addressable monitor modules shall be provided to connect one supervised IDC zone of conventional alarm initiating devices (any N.O. dry contact device) to one of the fire alarm control panel SLCs.
2. The IDC zone shall be suitable for Style D or Style B operation. An LED shall be provided that shall flash under normal conditions, indicating that the monitor module is operational and in regular communication with the control panel.
3. For difficult to reach areas, the monitor module shall be available in a miniature package and shall be no larger than 2-3/4 inch (70 mm) x 1-1/4 inch (31.7 mm) x 1/2 inch (12.7 mm). This version need not include Style D or an LED.
4. For multiple dry contact monitoring a module shall be available that provides 10 Style B or 5 Style D input circuits.

K. Two Wire Detector Monitor Module

1. Addressable monitor modules shall be provided to connect one supervised IDC zone of conventional 2-wire smoke detectors or alarm initiating devices (any N.O. dry contact device).
2. The IDC zone may be wired for Class A or B (Style D or Style B) operation. An LED shall be provided that shall flash under normal conditions, indicating that the monitor module is operational and in regular communication with the control panel.
3. For multiple 2-wire smoke detector circuit monitoring a module shall be available that pro-

vides 6 Style B or 3 Style D input circuits.

L. Addressable Control Module

1. Addressable control modules shall be provided to supervise and control the operation of one conventional NACs of compatible, 24 VDC powered, polarized audio/visual notification appliances.
2. The control module NAC may be wired for Style Z or Style Y (Class A/B) with a current rating of 2 Amps for Style Z and 3 Amps for Style Y. For speaker applications the module is rated for 50 watts at 25 or 70.7.
3. Audio/visual power shall be provided by a separate supervised power circuit from the main fire alarm control panel or from a supervised UL listed remote power supply.
4. The control module shall be suitable for pilot duty applications and rated for a minimum of 0.6 amps at 30 VDC.
5. For multiple circuit control a module shall be available that provides 6 Style B or 3 Style D control circuits.

M. Addressable Relay Module

1. Addressable Relay Modules shall be available for HVAC control and other building functions. The module shall provide two form C relays rated at up to 3 Amps resistive and up to 2.0 Amps inductive. The relay coil shall be magnetically latched to reduce wiring connection requirements, and to insure that 100% of all auxiliary devices energize at the same time on the same pair of wires.
2. For multiple relay control a module shall be available that provides 6 programmable Form-C relays.

N. Addressable Releasing Control Module

1. An addressable FlashScan releasing module shall be available to supervise and control compatible releasing agent solenoids.
2. The module shall operate on a redundant protocol for added protection.
3. The module shall be configurable for Style Z or Style Y (Class A/B) and support one 24 volt or two 12 volt solenoids.

O. Isolator Module

1. Isolator modules shall be provided to automatically isolate wire-to-wire short circuits on an SLC Class A or Class B branch. The isolator module shall limit the number of modules or detectors that may be rendered inoperative by a short circuit fault on the SLC loop segment or branch. At least one isolator module shall be provided for each floor or protected zone of the building.
2. If a wire-to-wire short occurs, the isolator module shall automatically open-circuit (disconnect) the SLC. When the short circuit condition is corrected, the isolator module shall automatically reconnect the isolated section.
3. The isolator module shall not require address-setting, and its operations shall be totally automatic. It shall not be necessary to replace or reset an isolator module after its normal operation.
4. The isolator module shall provide a single LED that shall flash to indicate that the isolator is operational and shall illuminate steadily to indicate that a short circuit condition has been detected and isolated.

P. Smoke Control Annunciator

1. On/Auto/Off switches and status indicators (LEDS) shall be provided for monitoring and manual control of each fan, damper, HVAC control unit, stairwell pressurization fan, and smoke exhaust fan. To ensure compliance the units supplied shall meet the following UL categories: UUKL, PAZX, UDTZ, QVAX as well as the requirements of NFPA 90A, HVAC, and NFPA 92A & 92B, Smoke Control. The control System shall be field programmable for either 90A operation or 92A/B operation to allow for future use and system expansion.
2. The OFF LED shall be Yellow, the ON LED shall be green, the Trouble/Fault LED shall be Amber/Orange for each switch. The Trouble/Fault indicator shall indicate a trouble in the control and/or monitor points associated with that switch. In addition, each group of eight switches shall have two LEDS and one momentary switch which allow the following functions: An Amber LED to indicate an OFF-NORMAL switch position, in the ON or OFF position; A Green LED to indicate ALL AUTO switch position; A Local Acknowledge/Lamp Test momentary switch.
3. Each switch shall have the capability to monitor and control two addressable inputs and two addressable outputs. In all modes, the ON and OFF indicators shall continuously follow the device status not the switch position. Positive feedback shall be employed to verify correct operation of the device being controlled. Systems that indicate on/off/auto by physical switch position only are not acceptable.
4. All HVAC switches (i.e., limit switches, vane switches, etc.) shall be provided and installed by the HVAC contractor.
5. It shall be possible to meet the requirements mentioned above utilizing wall mounted custom graphic.

Q. Serially Connected Annunciator Requirements

1. The annunciator shall communicate to the fire alarm control panel via an EIA 485 (multi-drop) two-wire communications loop. The system shall support two 6,000 ft. EIA-485 wire runs. Up to 32 annunciators, each configured up to 96 points, may be connected to the connection, for a system capacity of 3,072 points of annunciation.
2. An EIA-485 repeater shall be available to extend the EIA-485 wire distance in 3,000 ft. increments. An optional version shall allow the EIA-485 circuit to be transmitted over Fiber optics. The repeater shall be UL864 approved.
3. Each annunciator shall provide up to 96 alarm and 97 trouble indications using a long-life programmable color LED's. Up to 96 control switches shall also be available for the control of Fire Alarm Control Panel functions. The annunciator will also have an "ON-LINE" LED, local piezo sounder, local acknowledge and lamp test switch, and custom zone/function identification labels.
4. The annunciator may be field configured to operate as a "Fan Control Annunciator". When configured as "Fan Control," the annunciator may be used to manually control fan or damper operation and can be set to override automatic commands to all fans/dampers programmed to the annunciator.
5. Annunciator switches may be programmed for System control such as, Global Acknowledge, Global Signal Silence, Global System Reset, and on/off control of any control point in the system.
6. An optional module shall be available to utilize annunciator points to drive EIA-485 driven relays. This shall extend the system point capacity by 3,072 remote contacts.
7. The LED annunciator shall offer an interface to a graphic style annunciator and provide

each of the features listed above.

2.6. BATTERIES AND EXTERNAL CHARGER:

A. Battery:

1. Shall be 12 volt, Gell-Cell type.
2. Battery shall have sufficient capacity to power the fire alarm system for not less than twenty-four hours plus 5 minutes of alarm upon a normal AC power failure.
3. The batteries are to be completely maintenance free. No liquids are required. Fluid level checks refilling, spills and leakage shall not be required.

B. External Battery Charger:

1. Shall be completely automatic, with constant potential charger maintaining the battery fully charged under all service conditions. Charger shall operate from a 120/240-volt 50/60 hertz source.
2. Shall be rated for fully charging a completely discharged battery within 48 hours while simultaneously supplying any loads connected to the battery.
3. Shall have protection to prevent discharge through the charger.
4. Shall have protection for overloads and short circuits on both AC and DC sides.

PART 3.0 - EXECUTION

3.1. INSTALLATION:

A. Installation shall be in accordance with the NEC, NFPA 72, local and state codes, as shown on the drawings, and as recommended by the major equipment manufacturer.

B. All conduit, junction boxes, conduit supports and hangers shall be concealed in finished areas and may be exposed in unfinished areas. Smoke detectors shall not be installed prior to the system programming and test period. If construction is ongoing during this period, measures shall be taken to protect smoke detectors from contamination and physical damage.

C. All fire detection and alarm system devices, control panels and remote annunciators shall be flush mounted when located in finished areas and may be surface mounted when located in unfinished areas.

D. Manual Pull Stations shall be suitable for surface mounting or semi-flush mounting as shown on the plans, and shall be installed not less than 42 inches, nor more than 48 inches above the finished floor.

3.2. TYPICAL OPERATION:

A. Actuation of any manual station, smoke detector heat detector or water flow switch shall cause the following operations to occur unless otherwise specified:

1. Activate all programmed speaker circuits.
2. Actuate all strobe units until the panel is reset.
3. Light the associated indicators corresponding to active speaker circuits.
4. Release all magnetic door holders to doors to adjacent zones on the floor from that the

alarm was initiated.

5. Return all elevators to the primary or alternate floor of egress.
6. A smoke detector in any elevator lobby shall, in addition to the above functions, return all elevators to the primary or alternate floor of egress.
7. Smoke detectors in the elevator machine room or top of hoistway shall return all elevators in to the primary or alternate floor. Smoke detectors or heat detectors installed to shut down elevator power shall do so in accordance with ANSI A17.1 requirements and be coordinated with the electrical contractor.
8. Duct type smoke detectors shall, in addition to the above functions shut down the ventilation system or close associated control dampers as appropriate.
9. Activation of any sprinkler system low pressure switch or valve tamper switch shall cause a system supervisory alarm indication.

3.3. TEST:

A. Provide the service of a competent, factory-trained engineer or technician authorized by the manufacturer of the fire alarm equipment to technically supervise and participate during all of the adjustments and tests for the system.

B. Before energizing the cables and wires, check for correct connections and test for short circuits, ground faults, continuity, and insulation.

C. Close each sprinkler system flow valve and verify proper supervisory alarm at the FACP.

D. Verify activation of all flow switches.

E. Open initiating device circuits and verify that the trouble signal actuates.

F. Open signaling line circuits and verify that the trouble signal actuates.

G. Open and short notification appliance circuits and verify that trouble signal actuates.

H. Ground initiating device circuits and verify response of trouble signals.

I. Ground signaling line circuits and verify response of trouble signals.

J. Ground notification appliance circuits and verify response of trouble signals.

K. Check presence and audibility of tone at all alarm notification devices.

L. Check installation, supervision, and operation of all intelligent smoke detectors during a walk test.

M. Each of the alarm conditions that the system is required to detect should be introduced on the system. Verify the proper receipt and the proper processing of the signal at the FACP and the correct activation of the control points.

N. When the system is equipped with optional features, the manufacturer's manual should be consulted to determine the proper testing procedures. This is intended to address such items as verifying controls performed by individually addressed or grouped devices, sensitivity monitoring, verification functionality and similar.

3.4. FINAL INSPECTION:

A. At the final inspection a factory trained representative of the manufacturer of the major equipment shall demonstrate that the systems function properly in every respect.

3.5. INSTRUCTION:

A. Provide instruction as required for operating the system. Hands-on demonstrations of the operation of all system components and the entire system including program changes and functions shall be provided.

B. The contractor and/or the systems manufacturer's representatives shall provide a typewritten "Sequence of Operation."

PART 1 GENERAL

1.1. DESCRIPTION

A. This specification includes the furnishing, installation, connection, and testing of a PC based graphical facilities monitoring system; including Underwriters Laboratories (UL) listed application software and hardware complete and ready for operation.

B. The basic system shall be Underwriters Laboratories (UL) listed for the following:

1. No. 294 Access Control System Units, Fifth edition
2. No. 864 Control Units for Fire Protective Signaling Systems, Ninth edition
3. No. 1076 Proprietary Burglar Alarm Units and Systems, Fifth edition
4. No. 2017 General-Purpose Signaling Devices and Systems, first edition.

C. The system shall comply with requirements of NFPA Standard No. 72 for Proprietary Signaling System Receiving Unit except as modified and supplemented by this specification.

D. The system and associated equipment as specified herein shall be manufactured 100% by a single U.S. manufacturer (or division thereof).

1. The manufacturer shall be of the highest caliber and quality.

2. An ISO 9001 certified company shall manufacture the system.

1.2. SCOPE

A. A PC based graphical facilities monitoring system shall be installed in accordance to the project specifications and drawings.

B. The PC based graphical facilities monitoring system shall include, but not be limited to, optional touch screen or LCD wide screen monitor, one or more PC based graphical workstations, all input/output devices, network communications media, control equipment, auxiliary control devices, power supplies, and wire / fiber optic media as shown on the drawings and specified herein.

C. A supervised interface to NOTIFIER fire alarm control panels and NOTI-FIRE-NET shall be

made available.

D. The system shall employ an advanced technology network to monitor and control various fire, security, CCTV, and other facility information over an Echelon network.

E. The system shall include an interface to digital alarm communicator receivers for wide area network monitoring.

F. The system shall include an interface to card access systems for Access Control System monitoring.

G. The system shall include a device that allows remote viewing of the ONYXWorks system via the Internet or an intranet.

H. The system shall include a redundant interface for NOTI-FIRE-NET and Echelon networks for survivability.

I. The system shall allow a mixture of different technologies and manufacturers' equipment to operate on the same network and provide the operator with a consistent look and operation for all monitored equipment.

J. The system shall support a variety of topologies and media and shall provide an industry standard open architecture transport layer protocol.

K. Using standard RS-232 ports on existing and future monitoring and control systems used by the facility, the system shall connect to and interpret status change data transmitted from the ports and provide graphic annunciation, control, history logging and reporting as specified herein.

L. Proprietary network systems that cannot interface to existing addressable fire alarm systems at the facility or systems requiring the use of a "dry contact" or "voltage monitoring" interface shall be accepted.

M. The system shall be electrically supervised and monitor the integrity of all conductors.

N. The system shall include a Pager/Modem function that will provide the capability to send system information via a modem that is connected to a Workstations COMM port to a person's pager.

O. The system shall provide E-Mail functions capability to send system information via an email server to an email account.

P. The system shall utilize Boolean logic for automatic event response.

Q. The system shall have the facility to page directly from the workstation to any DVC installed on the network.

1.3. SUBMITTALS

A. General

1. Ten copies of all submittals shall be submitted to the architect, engineer, and owner for re-

view.
2. All references to manufacturer's model numbers and other pertinent information herein are intended to establish minimum standards of performance, function and quality.
3. Equivalent compatible equipment (UL listed) from other manufacturers may be considered as a substitution for the specified equipment as long as the minimum standards are met.
4. Substitute equipment proposed as equal to the equipment specified herein shall meet or exceed the minimum specified standard. For equipment other than that specified, the contractor shall supply proof that such substitute equipment equals or exceeds the features, functions, performance, and quality of the specified equipment.

B. Shop Drawings

1. Sufficient information, clearly presented, shall be included to determine compliance with drawings and specifications.
2. Wiring diagrams shall indicate all wiring for each item of equipment and the interconnections between the items of equipment.
3. Include manufacturer's name(s), model numbers, ratings, power requirements, equipment layout, device arrangement, complete wiring point-to-point diagrams, and conduit layouts.

C. Manuals

1. Submit simultaneously with the shop drawings & submittals; complete operating manuals and technical data sheets.
2. Provide a clear and concise description of operation that gives, in detail, the information required to properly operate the equipment and system.
3. Approvals shall be based on complete submissions of manuals together with shop drawings.
4. Provide a list of monitoring systems by model number including Fire Alarm, Security, CCTV, and Access Control systems currently UL listed to standard to operate with the proposed Facilities Monitoring System.

D. Certifications

1. Together with the shop drawing submittal, submit a certification from the major equipment manufacturer indicating that the proposed supervisor of installation and the proposed performer of contract maintenance is an authorized representative of the major equipment manufacturer and factory trained on all equipment contained in the submittal. Include names and addresses in the certification.
2. Provide NICET Certification documentation for factory authorized field technicians performing field final connections and system programming.

E. Applicable Publications

The publications listed below form a part of this specification. The publications are referenced in text by the basic designation only.

1. NFPA No. 70 - National Electric Code (NEC).
2. NFPA No. 72-2002 - National Fire Alarm Code.

3. UL No. 50 - Cabinets and Boxes.
4. UL No. 294 - Access Control System Units.

5. UL No. 864 - Control Units for Fire Protective Signaling Systems.
6. UL No. 1076 - Proprietary Burglar Alarm Units and Systems.
7. UL No. 1481 - Power Supplies for Fire Protective Signaling Systems.

8. Local and State Building Codes.
9. All requirements of the Authority Having Jurisdiction (AHJ).

F. Approvals. The system shall have the following listings:

1. UL No. 864 Control Units for Fire Protective Signaling Systems, Ninth edition
2. UL No. 1076 Proprietary Burglar Alarm Units and Systems, Fifth edition
3. UL No. 294 Access Control System Units, Fifth edition

4. ULC Control Units for Fire Alarm Systems

5. California State Fire Marshal (CSFM)

1.4. GUARANTY

A. All work performed and all material and equipment furnished under this contract shall be free from defects and shall remain so for a period of at least one (1) year from the date of acceptance. The full cost of maintenance, labor, and materials required to correct any defect during this one-year period shall be included in the submittal bid.

1.5. WORKSTATION PERFORMANCE

A. The network will interface and report the individually monitored system's status via a user-friendly Graphical User Interface (GUI) based software workstation.

B. The software shall operate under Microsoft® Windows® XP Professional as manufactured by Microsoft Corporation.

C. The GUI based software must be capable of graphically representing each facility being monitored with floor plans and icons depicting the actual locations of the various systems; and / or sensors' locations as well as view the system events in text mode.

D. The software shall use a 1024 pixels X 768 pixels GUI display capable of showing a large primary floor plan display, a key map representative of a larger view of the primary display and its relationship to the facility being monitored, the current operator, number of fire, supervisory, pre-alarms, troubles, and security events within the network as well as outstanding events and acknowledged events.

E. The software shall have the capacity of at least 1,000 screens / floor plans or as dictated by hard drive space and installed VIDEO and RAM memory for efficient operation.

F. The workstation shall have the ability to support graphic printing of all data including graphical floor plans, system activity, history, and guidance text. A Windows® compatible printer shall be supported for the graphics and report printer options.

G. The workstation software shall permit automatic navigation to the screen containing an icon that

represents the system or sensor in the event of an off-normal condition.

H. The system/sensor icon shall indicate the type of off-normal condition, flash, and change to the color associated with the off-normal condition (e.g., RED for ALARM and YELLOW for TROUBLE).

I. The software shall allow the attachment of text (TXT) files, sound (WAV) files, image (BMP) files, and video (AVI) files to each system or sensor icon allowing additional information to be provided to the system operator for responding to the off-normal condition. The software must have the ability for an attachment for each major event type per device.

J. The software shall allow the importation of externally developed floor plans in Windows Metafile (WMF), JPEG (JPG), Graphics Interchange Format (GIF) and Bitmap (BMP) format.

K. The software shall provide automatic navigation to the screen containing the icon of any system or sensor when an event is initially annunciated. In addition, operator navigation to screens containing outstanding events shall be accomplished by "clicking on" the event from either the acknowledged or unacknowledged event.

L. History Manager. The software shall contain a History Manager, which shall record all system events with a time and date stamp as well as the current system operator's name.

1. The system shall provide the ability to store all off-normal events experienced by the various sub-systems that are monitored by the system.
2. All events shall be recorded with a time and date stamp and the system operator shall be provided with the ability to log a pre-defined response or a custom comment for each off-normal event and have that comment stored in the history file with the time, date and operator name.
3. Provide for the ability to conduct searches and generate subsequent reports, based on all events for a single system / device address, a specific node, a specific type of off-normal condition and date range (mm/dd/yy to mm/dd/yy) or combinations of these search parameters. The number of entries in the history file that match the determined search criteria will be displayed.
4. The History Manager shall signal a need to back-up the history file at 100,000 events and then remind the operator at intervals of 100 events thereafter.
5. It shall be possible to pre-select data fields for reporting and then saving the report as a template. It shall also be possible to schedule the pre-defined report to print at a designated time.
6. The History Manager shall provide the operator the ability to select the number of days to back-up history.

M. Alarm Monitoring. The system shall provide for continuous monitoring of all off-normal conditions regardless of the current activity displayed on the screen.

1. If an operator is viewing the history of a sub-system and an alarm condition should occur, the system shall automatically navigate to the graphic screen showing the area where the off-normal event is occurring.
2. The system shall prioritize all off-normal events as defined by National Fire Alarm Code® 72 into the following categories: fire alarms, troubles, supervisory alarms, pre-alarms and security alarms.
3. The system shall display a running count of all events by type in an alarm summary win-

dow. The alarm summary window shall include at least five counters, defaulted to Alarm, Pre-Alarm, Trouble, Security, and Supervisory events.

4. The system shall show a running list of all unacknowledged events and acknowledged events and allow the system operator to acknowledge an event by "double-clicking" on that event in the Unacknowledged Events box. The Unacknowledged and Acknowledged Events boxes shall contain an abbreviated description of the off-normal condition.
5. The details of the condition may be viewed by selecting event in the unacknowledged events box.
6. The system shall allow the attachment of user-definable text files, image files, video files, and sound files to each device / system monitored (for every event state) in order to facilitate the operators and response personnel's response to the off-normal condition.
7. The system shall record all events to the system's hard drive. A minimum of 100,000 events may be stored.

N. Reports & Logs:

1. The system shall provide for the ability to generate reports based on system history.
2. The system shall allow the system operator to enter custom comments up to 255 characters for each event and have those comments recorded in the system's history file.

O. Boolean Logic

1. An automated event response application shall be provided to automatically perform actions across the entire system based on network activity.
2. The event response application shall allow event responses (actions) based on predefined user conditions using simplified Boolean logic.
3. Actions shall be configured to be executed immediately or timed as required.

P. Control Aspects of System Software

1. The system shall have the ability to monitor and control the following NOTIFIER® Fire Alarm Panels using the Echelon Gateway, NFN Gateway, or Embedded Gateway interfaces: AFP-1010, AM2020, AFP-200, AFP-300/400, and ONYX® series control panels.
2. The Gateway interfaces shall have the ability to be constructed in a redundant configuration with either two Echelon Gateway computers monitoring the same nodes, two NFN Gateway computers monitoring the same nodes, or by having multiple Embedded Gateways on the same network, monitored by multiple workstation clients.
3. The system shall provide for the direct control of all outputs associated with Input / Output dry contact relay points on Network Input/Output Nodes (NIONs). In addition, the system shall have the ability to control and program a sub-system of Notifier AFP-1010, AM2020, or AFP-400 Fire Alarm Panel through a terminal mode window (ASCII terminal type connection) interface to microprocessor-based sub-systems via an RS 232 serial NION if available as an ancillary feature.
4. Discrete I/O NION interfaces allow the system operator to initiate a change of state for the associated dry contacts.
5. A scheduling utility shall be included with the workstation to configure the I/O points on these NIONs for automated activate/deactivate, and Arm/Disarm (depending on device type) status.
6. The system shall provide an NFN Gateway interface for direct connections to the Notifier Network containing the following panels: AFP-1010, AM2020, AFP-200, and the AFP-300/400 as well as ONYX® series control panels.

7. The system shall provide an Embedded Gateway interface for remote connections of the Notifier Network containing the following panels via Ethernet (TCP/IP infrastructure): AFP-1010, AM2020, AFP-200, and the AFP-300/400 as well as ONYX® series control panels.
8. The NFN Gateway and the Embedded Gateway will:

    a. Serves as a bridge between an ONYXWorks® Workstation and a NFN network, and it uses that Workstation as the primary reporting station for the NFN network.
    b. Translates a NFN network's panel and device data into data that can be interpreted by the ONYXWorks® Workstation software application
    c. Monitors NFN networks using ARCNET network architecture.

9. The workstation shall provide configuration utilities for monitoring and control profiles. These profiles shall be user definable for distribution of monitoring and control allowances for operators per workstation.
10. Under no condition shall any sub-system be required to rely on the network for any data processing required to perform its particular function. Each individual sub-system shall be in effect "stand-alone" as to insure its continued operation should a disruption in communication with the system be experienced.

Q. The software shall be password protected and provide for the definition of security profiles for operator access control.

R. The software shall contain provision for defining monitoring profiles of pre-selected NIONs for monitoring. This shall include provision for status types within the selected NODES.

S. The software shall contain provision for defining control profiles of pre-selected NIONs for control.

1. The system administrator shall be provided means to select which signals can be controlled by selected Workstation.

T. The software shall support sending real-time off-normal event notifications to designated alphanumeric pagers.

U. The software shall support sending real-time off-normal event notifications to designated email addresses.

V. The software shall support live voice paging for mass notification to NOTIFIER voice evacuation system over Internet Protocol (IP).

W. The PC based graphical facilities monitoring system shall include a Configuration Tool that provides the following features:

1. Allows operators the ability to create and edit graphics
2. Set up Gateway Connections and define their nodes
3. Set system operating mode
4. Add and edit objects on screens
5. Configure colors and sounds for the status classes

PART 2 PRODUCTS

2.1. GENERAL

A. The product(s) shall be manufactured by as provided by NOTIFIER®. Model numbers specified are those of NOTIFIER® and are to establish the minimum standard of operating characteristics and quality.

B. Substitute equipment proposed as equal to the equipment specified herein shall meet or exceed the minimum specified standard. For equipment other than that specified, the contractor shall supply proof that such substitute equipment equals or exceeds the features, functions, performance, and quality of the specified equipment.

C. All equipment and components shall be new, and the manufacturer's current model. The materials, equipment and devices shall be tested and listed by a nationally recognized approval agency.

2.2. WORKSTATION

A. The system shall be an ONYXWorks™ Facilities Monitoring System.

B. The system shall operate on no less than an IBM compatible UL listed Intel Dual Core processor operating at 2.16 GHz on the Microsoft® Windows® XP Professional platform.

C. The workstation shall have: no less than 3.2 Gigabytes of RAM, two hard drives with no less than 160 Gigabytes of storage space, a minimum of 64 megabytes of video RAM, a CD-R/W for system backup, internal supervisory CPU watchdog board with audible annunciator, 100 Base-T Ethernet NIC card, a 104 key keyboard, and a mouse type pointing device with a center wheel.

D. The workstation shall come equipped with all necessary gateway modules to allow connection to the network(s) it monitors as standard equipment. All workstations shall support Ethernet communications when multiple workstations are required.

E. The workstation shall support an SVGA monitor and be supplied with a 19" flat screen LCD monitor with integrated speakers or an optional touch screen monitor.

F. The computer shall be capable of networking to additional computers and these computers shall be capable of operating as workstations and/or gateways for local area or wide area networks.

G. Alarm annunciation shall appear on all workstations and may be silenced at each local workstation.

1. Only one workstation and operator shall be in command of the system for global alarm acknowledgement at any time.

2.3. PRINTER

A. Support one or more Windows® compatible printers to be located and connected each workstation for graphics and report printing.

B. Support one model PRN-6, 80-column dot matrix tractor feed industrial grade printer for event

and date-stamped printouts of off-normal events and status changes per workstation.

2.4. NOTIFIER® MONITORING NETWORK

A. The NOTIFIER® monitoring network shall consist of a network based on proven peer-to-peer technology and support standard NCM cards and High Speed NCM cards.

B. The network consisting of the standard NCM cards shall have the ability to use multi-mode fiber optic cable, wire (twisted pair copper media in a style 4 or style 7 configuration), or combination wire/fiber communications with support of up to 103 nodes with a data communications rate of 312,500 BPS.

1. Wire networks shall support 12 AWG, 1 Pair Shielded to 24 AWG, 4 Pair Unshielded following the manufacturer's guidelines.
2. Fiber optic networks shall support 62.5/125µm cable (8dB limit) or 50/125µm cable (4.2dB limit).
3. Wire to fiber conversions cards.

C. The network consisting of the High Speed NCM cards shall have the ability to use fiber optic cable (both multi-mode and single-mode), wire (twisted pair copper media in a style 4 or style 7 configuration), or combination wire/fiber communications with support of up to 200 nodes with a data communications rate of 12MB (wire) or 100MB (fiber).

1. Wire networks shall support 12 AWG, 1 Pair Shielded to 24 AWG, 4 Pair Unshielded following the manufacturer's guidelines.
2. Fiber optic networks shall support 62.5/125µm cable (10dB limit), 50/125µm cable (6.5dB limit), or 9/125 µm cable (30dB limit).
3. Wire to fiber conversions cards.

2.5. INTEGRATION NETWORK

A. The integration network shall be capable of monitoring a minimum of 100 nodes (NIONs and routers) on an Echelon Gateway consisting of, but not limited to:

1. Intelligent or conventional fire alarm control panels.
2. Competitor's intelligent or conventional fire alarm control panels.

B. Local area networks shall consist of a free topology network using twisted pair copper media in a bus, star, or T-tap at 78 Kilo baud. Transmit/receive twin fiber (multi-mode 62.5/125 µm) strand FT-10 point-to-point shall be available. Wide area networks shall be supported by the use of network expansion routers.

1. Free topology (FT-10 style) wire network run allows multiple T-taps within a 1,500-foot (457.2 m) radius; 8,000 foot (2438.4 m) point-to-point using twisted pair; or 6,000-foot (1828.8 m) bus topology.
2. Free topology (FT-10 style) fiber network can also use fiber-optic cabling that operates at 78.5 Kbaud.

C. Provide routers, repeaters or bridges where required to increase distance, alter network configuration or change media or to extend to remote facilities over alternate communications media including UL listed dial-up PSTN telephone, leased line, multi-mode fiber or Ethernet connectivity.

1. Dial-up units shall dial a local number and stay connected. Upon loss of carrier, a supervisory alarm shall be indicated at the workstation and the units shall automatically dial the number to re-connect.
2. Network expansion routers shall support public switched telephone circuits, two-wire or four-wire leased lines, and CAT5 Ethernet networks.

D. Network interface software shall be by the same manufacturer as the hardware portion of this specification.

E. The integration network shall utilize Network Input / Output Nodes (NIONs) to interface between the individual panels' systems to be monitored by the integration network. The NIONs shall act as a translator from the panel communications protocol to the integration network protocol as well as serve as a transceiver from the building system panel to the integration network.

1. NIONs shall be available in configurations that will allow transparent communications via RS-232 serial data ports with intelligent fire alarm control panels, security systems, and CCTV systems.
2. NIONs shall be available in configurations that will allow monitoring of dry contacts, switched voltages, conventional security devices, access control panels, and conventional fire alarm control panels using scheduled, automated, and manual control.
3. NIONs shall be UL listed to Standard 864 and 1076 and be provided with their own enclosure or be available in chassis mount configurations.
4. NIONs shall operate at 24 VDC and obtain their power from the monitored control panel or a UL listed battery backed auxiliary power supply. All terminals shall be transient protected to 2400V and LEDs shall be provided for status, service and diagnostics.

F. Digital Alarm Communicator Receiver Network

1. The system shall provide a digital alarm communicator receiver (DACR) gateway with a RS-232 interface to the following digital alarm communicator receivers for wide area event reporting: Ademco 685, Silent Knight 9500 and 9800, Radionics D6600, and Teldat Visor Alarm.
2. Each gateway shall support up to 10 digital alarm communicator receivers for alarm and trouble information from reporting devices.

G. Access Control System Network

1. The system shall provide a WIN-PAK PRO 2005 and WIN-PAK PRO SE/PE gateway with a TCP/IP interface to the WIN-PAK PRO 2005 and WIN-PAK PRO SE/PE Access Control System. The gateway shall permit monitoring and control of N-1000 and PRO-2200 panels over a WIN-PAK PRO 2005 and WIN-PAK PRO SE/PE Access Control System.
2. The software shall display access control related events and general events as they appear in the system. Through the software, it shall be possible for any event to be selected for viewing extended information. If the event relates to a specific cardholder, that cardholder's information can be viewed as well.
3. It shall be possible to provide control of any door or output point configured on N-1000 and PRO-2200, allowing locking and unlocking, activation of outputs, or pulse/momentary unlock operations.

H. Remote Access System Network

1. The ONYXWorks Web Server shall be a web-based device that allows remote viewing of the ONYXWorks system via the Internet or intranet.
2. The interface will allow users to view the history of FACP, event status, device properties, and other information based on access permission defined by the system administrator.
3. The Web Server will utilize an IP-based wire Ethernet connection when interfacing to the Internet/intranet.
4. The ONYXWorks Web Server shall be compatible with the following types of networks:

    a. NOTI-FIRE-NET
    b. Echelon
    c. DACR
    d. Card Access

5. The ONYXWorks Web Server shall provide the following features:

    a. Support 10 simultaneous users
    b. Employee standard IP over an Ethernet connection
    c. Support up to 128 user accounts
    d. Provide built-in password security and user access records
    e. Send up to 50 e-mails in response to any system event

I. Workstation Network:

1. Computers shall be networked using Ethernet supporting the use of TCP/IP protocol for local area systems.
2. The network shall be capable of supporting multiple clients (e.g., workstations, configuration applications, and automated response applications), Echelon Gateway, NFN Gateway, High Speed NFN Gateway, and ninety-nine (50) Embedded Gateways.
3. A UL listed Ethernet Hub must be supplied for connection of multiple workstations, gateways, clients, and/or network printers.
4. System shall be UL listed to communicate between clients and gateways over a business computer network (shared IP).

J. System Expansion. Additional software and hardware modules shall be currently available by the system manufacturer to provide for:

1. CCTV with on-screen Pan/Tilt/Zoom and live video on-screen.
2. Supported systems shall include the following CCTV switch manufacturers, Pelco, Burle/Phillips, and Vicon. The ability to support all listed CCTV switch units simultaneously on the same system shall be supported.

PART 3 EXECUTION

3.1. GENERAL

A. All equipment and components shall be installed in strict compliance with manufacturers' recommendations. Consult the manufacturer's installation manuals for all wiring & fiber optic diagrams, schematics, physical equipment sizes, etc., before beginning system installation. Refer to the riser/connection diagram for all specific system installation / termination / wiring data.

3.2. CONDUIT AND WIRE

A. Conduit shall be in accordance with the National Electrical Code (NEC), local and state requirements.

B. Where possible, all wiring & fiber optics shall be installed in conduit or raceway.

C. Cable must be separated from any open conductors of power, or class 1 circuits, and shall not be placed in any conduit, junction box or raceway containing these conductors, as per NEC Article 760-29.

D. All circuits shall be provided with transient suppression devices and the system shall be designed to permit simultaneous operation of all circuits without interference or loss of signals.

E. Conduit shall not enter the control equipment, or any other remotely mounted control panel equipment or back-boxes, except where conduit entry is specified by the FACP manufacturer.

F. All system wiring shall be new except as allowed herein and approved by the manufacturer for intended communications using NOTI-FIRE-NET or Echelon's LonWorks.

G. Wiring & fiber optics shall be in accordance with local, state and national codes (e.g., NEC Article 760) and as recommended by the manufacturer of the fire alarm system. Number and size of conductors & fiber optics shall be as recommended by the fire alarm system manufacturer.

H. All wire and cable shall be listed and/or approved by a recognized testing agency for use with a protective signaling system except as specified herein.

I. All communication wire to nodes or to computers shall consist of minimum manufacturer's recommendations and approved wire specification supporting speeds of 78Kps to 10mB/sec communications.

3.3. TERMINAL BOXES, JUNCTION BOXES, AND CABINETS

A. All boxes and cabinets shall be UL listed for their use and purpose.

B. The PC based workstations shall be connected to a separate dedicated branch circuit, maximum 20 amperes. This circuit shall be labeled at the main power distribution panel as FACILITIES MONITORING SYSTEM. PC workstation power wiring shall be 12 AWG and grounded securely to either a cold water pipe or grounding rod. Where required, a UL 864 listed UPS system shall be provided.

3.4. SYSTEM SETUP & CONFIGURATION

A. Provide the services of a factory trained and authorized technician to perform all system software modifications, upgrades or changes. Field technicians shall be NICET Level 1 (minimum) certified.

B. The factory trained technician shall install initial data and artwork at each workstation including:

C. Distribution of monitoring, control and security profiles as requested by owner.

D. Area diagrams, floor plans, key maps and screen titles.

E. Auto-navigation criteria.

F. Guidance text as provided by owner.

3.5. FINAL INSPECTION

A. At the final inspection a factory trained representative of the manufacturer of the major equipment shall demonstrate that the system function properly in every respect.

3.6. INSTRUCTION/TRAINING

A. Provide instruction as required for operating the system. Hands on demonstrations of the operation of all system components and the entire system including user-level program changes and functions shall be provided. A factory trained and certified representative shall provide instruction.

END OF SECTION 13852

SECTION 15000 - MECHANICAL GENERAL REQUIREMENTS

PART 1 - GENERAL

1.1 GENERAL

A. Drawings and general provisions of contract, including General and Supplementary Conditions, and Division 1 Specification Section apply to this and other sections of Division 15.

B. Before submitting his proposal, each bidder shall examine all plans and specifications relating to the work, visit the site(s) of the proposed project, and become fully informed of the extent and character of the work required.

1.2 REFERENCE STANDARDS

A. Perform all Division 15 work in strict accordance with the Laws and Regulations of the State of Texas, and County and City codes/ordinances having jurisdiction over the project.

1.3 COORDINATION

A. Coordinate work under this Division to avoid conflicts and to attain satisfactory and complementary systems.

B. Coordinate work under this Division with work under other Divisions to avoid conflicts and to allow for adequate installation, maintenance, and operating space. Obtain the Architect's approval for penetrations of other parts of the Work prior to affecting them.

C. Prepare coordination drawings in accordance with Division 1 to a scale of ¼"=1'-0" or larger; detailing major elements, components, and systems of mechanical equipment and materials in relationship with other systems, installations, and building components. Indicate locations where space is limited for installation and access and where sequencing and coordination of installations are of importance to the efficient flow if the work.

1.4 DEFINITIONS

Specific meanings used in Division 15 (variant forms are inferred):

A. Work: This project, or the reference part.

B. Provide:

1. Furnish and install, complete with necessary appurtenances.
2. "Provide" is implied throughout this Division unless language is specific.

C. Required: Required by the contract Documents.

D. Necessary: Necessary in order to obtain a finished system in satisfactory operating condition, and meeting all requirements.

E. Furnish: Procure and deliver, ready for installation, necessary and/or required.

F. Install: Receive, place securely, ready for connection to work specified elsewhere, and bring into satisfactory operating condition, as necessary and/or required.

G. Connect: Connect properly to mechanical work. This includes non-physical “connections” such as indirect waste drains.

H. Architect, Project Architect or Architect/Engineer Team.

1.5 SCOPE OF WORK

A. The work under this Division includes providing complete mechanical systems for the project.

B. All items of labor, material or equipment not required in detail by the specifications or plans, but incidental to, or necessary for the complete installation and proper operation of all phases of work described herein, or reasonably implied in connection therewith, shall be furnished as if called for in detail by the Contract Documents.

1.6 WORKMANSHIP

A. All labor shall be performed in a workmanlike manner by mechanics skilled in their particular trades. All installations shall be complete in both effectiveness and appearance whether finally enclosed or left exposed. The architect reserves the right to direct the removal or replacement of any item which in his opinion shall not present a reasonable neat or workmanlike appearance, providing that same can be properly installed in an orderly way.

1.7 MANUFACTURER’S INSTRUCTIONS

A. All equipment and devices shall be installed in accordance with the plans and specifications, manufacturer’s instructions and applicable codes. Contractor shall obtain written recommendations of installation and start-up instructions from material vendors and comply, unless otherwise required. Bring discrepancies between these instructions and project requirements to the attention of the Architect, and resolve prior to construction. Provide signed inspection report by manufacturer’s representative at system start-up to verify all is in compliant for product warranty.

1.8 WARRANTY

A. The contractor shall warranty his work against defective materials and workmanship for a period of 1-year from date of acceptance of the job.

1.9 TRAINING

A. Upon completion of the work and at a time designated by the Owner’s representative, provide a formal training session for the Owner’s operating personnel to include location, operation, and maintenance of all mechanical equipment and systems.

1.10 PERMITS AND FEES

A. Permits: Obtain special permits necessary for this portion of the Work.

B. Fees: Pay any fees associated with permits, required inspections, and permanent utility connections to this part of the work.

1.11 LICENSES

A. Work under this Division shall be performed by organizations and individuals holding a current license to perform such type of work by the authority having jurisdiction. “License” in this sense means any process, regardless of its appellation, which is normally mandated by the authority in order to perform such type of work within its jurisdiction. The stipulation of this paragraph applies even if the work is located physically on property owned or controlled by a higher authority. E.G., to work within the city limits of Corpus Christi, Texas, on a Federal project, State of Texas and City of Corpus Christi licenses which would be mandated to work on a private project shall be required even though the City and State may have no jurisdiction over the higher government.

B. In the event that the licensed organization loses its license or is unable to obtain one, or the licensed individual performing the work becomes unlicensed or deports the organization, notify Architect immediately in writing.

1.12 UTILITY COORDINATION

A. Permanent: Provide all ancillary work necessary to obtain utility connections. Pay connection fees. Arrange for connection in a timely manner. Coordinate time and arrangement of other work with the serving utility, and comply with utility standards.

B. Temporary: Refer to Division 1.

C. General: The contractor shall verify to his own satisfaction the location, elevation and availability of all utilities and services required, and shall adequately inform himself as to their relation to the work. The contractor shall also verify location, conduct all necessary tests, inspections, coordinate with owner’s representatives and utilities, and check or existing underground utilities and lines before ditching. Repair of any cut or damaged lines or utilities shall be the sole responsibility of the contractor.

1.13 LISTING AND LABELING

Materials required to be listed shall be listed and labeled for the particular service if a listing is available. Obtain and comply with the terms of listings. Listed material include.

A. NSF: Potable water and sanitary waste systems components.

B. UL: Electrical materials.

C. AMCA: Air moving devices and related accessory items.

D. ARI: HVAC equipment.

E. FM or UL: Hazardous fluid and fire protection system components.

F. FIA, FM or AGA: Fuel gas system components.

1.14 MATERIALS AND EQUIPMENT

A. All materials and equipment shall be new. Products shall be currently manufactured.

B. All materials and equipment shall be clearly marked, stamped or labeled for identification. Do not obscure nameplates. Where manufactures nameplates do not meet the requirements of the mechanical identification specification provide nameplates in accordance with the specification.

C. All products of similar type shall be provided by a single manufacturer throughout the project.

1.15 SUBMITTALS AND REVIEW

A. Contractor shall furnish to the Architect, within a reasonable time after award of contract, and prior to commencing any work, complete brochures in quadruplicate (plus quantity required by the Contractor) of all materials and equipment which the contractor proposes to furnish on the project. Data shall include descriptive literature, performance data, diagrams, capacity information, etc., to substantiate that proposed equipment will meet all of the requirements of the plans and specifications.

B. All data must be checked and any required changes noted thereon by the contractor, signed and dated prior to furnishing same to the Architect for approval. Contractor’s attention is directed that it is mandatory that he thoroughly review data prior to furnishing same to assure that equipment is in accordance with plans and specifications and to assure prompt return of the data.

C. Deviations: Specifically call to the attention of the Architect every proposed deviation from the Contract Document requirements. Failure to identify deviations as such constitutes a representation that all requirements are not met.

D. Review: Review of submittals shall not be constructed as releasing the Contractor from responsibility, but rather as a means to facilitate coordination of the work and the proper selection and installation of the products. All work shall be subject to final acceptance by the Architect at the completion of the project.

E. If above information is not provided complete as specified above and within the allocated time, all equipment shall be furnished exactly as specified without any substitutions.

1.16 SUBSTITUTIONS

A. Refer to the Conditions of the Contract.

B. Where one vendor is indicated for a product, it is to establish a level of quality and performance; provide a product equal to that product in all respects from a vendor of equivalent performance.

C. Where multiple vendors are indicated for a product, any of those vendors meeting the requirements may be submitted.

D. Some product specifications in this Division are of the Acceptable Manufacturer type. Vendors listed as Acceptable Manufacturers are acceptable as vendors. However, the product submitted is subject to review as being fully equivalent in detail to the basis of design.

E. Where multiple vendors are listed with product model numbers, each model and vendor is acceptable, provide all requirements are met. Model numbers are indicated to the extent believe necessary to identify a type and are not necessary completely.

F. The architectural/engineering team has designed the facility using requirements of the Basis of Design equipment. Any substitutions from the basis of design, which will require additional A/E design and/or coordination, shall include the cost of necessary redesign by professionals licensed in the respective disciplines and the approval of the professional of record.

1.17 DRAWINGS AND SPECIFICATIONS

A. These specifications are accompanied by Drawings. The Drawings and Specifications are complementary each to the other, and what is called for by one shall be as binding as if called for by both.

B. The Drawings are generally diagrammatic. Lay out work at the site to conform to existing conditions; architectural, structural, mechanical, and electrical conditions; to avoid all obstructions; and to conform to details of installation as required. Provide an integrated satisfactorily operating installation. All necessary offsets in piping, fittings, duct, etc., required to avoid interferences between piping, equipment, architectural, and structural elements shall be provided by the Contractor. Provide all necessary routing and offsets to avoid conflict.

C. Verify and arrange that sufficient space is provided for the installation of proposed products and that adequate access will exist for service and maintenance of equipment. For this work, adequate access shall be defined as meaning that service personnel can access and maintain a piece of equipment without having to alter permanent construction. Further, for equipment located above ceilings, access shall be available within 3 feet pf ceiling opening or lay-in ceiling.

1.18 COMPLEMENTARY DOCUMENTS

A. Contract documents are complementary; requirements are not necessarily repetitively stated at each possible subject; consider that a requirement applies wherever applicable.

B. In the event of conflicting requirements in different parts of the Documents, the more expensive shall be presumed to apply, unless the Architect clarifies the requirement in a less expensive manner and waives the more expensive requirement in writing.

Since codes and standards are incorporated by reference, a particular conflict may appear in that a reference may use language that implies that a particular requirement in the Construction Documents is waived under the reference. This is not the case, unless specifically so clarified by the Architect. Generally, the specific Drawings and Specifications take precedence over waivers in multi-purpose reference documents.

C. Because of licensure and workmanship requirements, persons performing the work are presumed to be familiar with applicable codes, ordinances, laws, regulations and standards. Therefore, details of materials, methods, arrangements and size contained in such publications are not necessarily replicated in the Contract Documents. This in no way deletes the requirement of the Contractor to comply. In the event of an apparent conflict between such publications and the Contract Documents, request clarification from the Architect prior to construction.

1.19 PROTECTION

A. All work, equipment and materials shall be protected at all times to prevent damage or breakage either in transit, storage, installation or testing. All openings shall be closed with caps or plugs during installation. All materials and equipment shall be covered and protected against dirt, water, chemicals or mechanical injury.

1.20 CUTTING AND PATCHING

A. All subcontractors shall notify the General Contractor sufficiently ahead of construction of any floor, walls, ceiling, roof, etc., of any openings that will be required for his work. All necessary cutting of walls, floors, partitions, ceilings, etc., as required for the proper installation of the work under this Contract shall be done at the Subcontractor’s expense in a neat and workmanlike manner.

1.21 DEMOLITION

A. It shall be the responsibility of the contractor to see that all demolition and remodeling work involving his trade is accomplished in a manner and completeness to provide the appearance of new construction work.

B. Coordinate with other divisions before commencing work.

C. Abandoned air conditioning units shall be removed and disposed of off site in a legal manner.

D. All abandoned and/or otherwise unused piping shall be securely capped using materials of the same composition as the original piping.

1.22 RECORD DOCUMENTS

A. Drawings: The Contractor shall maintain and update daily a set of “blueline” prints in the Field Office for the sole purpose of recording “installed” conditions. Revise the drawings to reflect

as-built conditions, including all addenda, change orders, final shop drawing reviews, and field routing. Underground utilities shall be dimensionally located relative to readily accessible and identifiable permanent reference points, with accurate slope and elevation indicated. Submit prints for review. Revise, certify accuracy, and provide two final sets to the Architect.

B. Owner's Manual: Prior to final acceptance, provide two bound volumes to the Architect. Index by subject. Include corrected submittals and shop drawings that reflect final review comments; installation, operation and maintenance instructions, parts lists, wiring diagrams, and piping diagrams; warranties.

1.23 INSPECTION, OBSERVATION, AND TESTING

A. Cooperate with Architect's representative and authorities having jurisdiction. Provide complete access to the work at reasonable times.

B. Cover-up: Prior to covering up work, or conducting observed tests, request observation as appropriate. Provide adequate advance notice defined as a minimum of five working days. In some cases the Architect's representative may waive observation; otherwise arrange for observed construction and testing prior to cover-up. Should minimize required notice not to be provided and the contractor covers up work requiring observation, such work shall be uncovered at contractor's expense.

C. Pre-Testing: Self-inspect, pre-test, and remedy work prior to performing observed test.

D. Sectional Work: In circumstances where a requirement for phased construction or other considerations dictate sectional construction and/or testing, notify the Architect when construction begins on the first section of a system, and when the first section will be ready for observed testing, as well as subsequent sections. Test in the largest practical sections.

1.24 WORK PERFORMED UNDER OTHER DIVISIONS

A. Refer to Division 2 for piped utilities beyond 5 feet from the building.

B. Refer to Division 16 for power wiring systems external to equipment and control panels; starters in motor centers; safety switches not integral to equipment or starters provided under Division 15.

C. Refer to Division 14 for kitchen, laboratory, medical and like equipment.

1.25 REFERENCE TO OTHER DIVISIONS

A. Refer to Division 16 for additional material requirements of electrical components provided under Division 15, such as loose starters, wiring and devices integral to equipment.

B. Refer to Division 2 for additional requirements governing excavation and backfill, supplemental to the requirements stated in this Division 15.

C. Comply with all requirements applicable to work required under this Division.

1.26 TESTING SERVICES

A. Additional Testing: In addition to any specified testing, the Architect may cause additional testing to be performed by an independent testing laboratory or any other qualified party. If such testing reveals deficient work by the Contractor, the Contractor shall pay for both the testing and remedial work. If such testing does not reveal deficient work by the Contractor, the Owner shall pay for the testing and the cost of repairing any damage caused by such testing.

B. Specified Testing Services: If independent testing services are specified regarding work under this Division, cooperate fully with the testing agency. Provide access to the work. Provide test holes and taps necessary. Remove work that is not tested on site, deliver to testing agency, and reinstall if undamaged; replace if damaged. Provide utilities, operational capability, and facilities for on-site testing as necessary.

1.27 WORK BY OWNER

A. The owner will award contracts on work which includes:

1. None.

1.28 OWNER FURNISHED PRODUCTS

A. Products furnished to the site and paid for by the Owner.

1. None.

END OF SECTION 15010

SECTION 15050 - MECHANICAL MATERIALS AND METHODS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following basic mechanical materials and methods to complement other Division 15 Sections.

1. Piping materials and installation instructions common to most piping systems.
2. Concrete base construction requirements.
3. Escutcheons.
4. Dielectric fittings.
5. Flexible connectors.
6. Mechanical sleeve seals.
7. Equipment nameplate data requirements.
8. Labeling and identifying mechanical systems and equipment is specified in Division 15 Section "Mechanical Identification."
9. Nonshrink grout for equipment installations.
10. Field-fabricated metal and wood equipment supports.
11. Installation requirements common to equipment specification sections.
12. Mechanical demolition.
13. Cutting and patching.
14. Touchup painting and finishing.

B. Pipe and pipe fitting materials are specified in Division 15 piping system Sections.

1.3 DEFINITIONS

A. Finished Spaces: Spaces other than mechanical and electrical equipment rooms, furred spaces, pipe and duct shafts, unheated spaces immediately below roof, spaces above ceilings, unexcavated spaces, crawl spaces, and tunnels.

B. Exposed, Interior Installations: Exposed to view indoors. Examples include finished occupied spaces and mechanical equipment rooms.

C. Exposed, Exterior Installations: Exposed to view outdoors, or subject to outdoor ambient temperatures and weather conditions. Examples include rooftop locations.

D. Concealed, Interior Installations: Concealed from view and protected from physical contact by building occupants. Examples include above ceilings and in duct shafts.

E. Concealed, Exterior Installations: Concealed from view and protected from weather conditions and physical contact by building occupants, but subject to outdoor ambient temperatures. Examples include installations within unheated shelters.

F. The following are industry abbreviations for plastic materials:

1. ABS: Acrylonitrile-butadiene-styrene plastic.
2. CPVC: Chlorinated polyvinyl chloride plastic.
3. NP: Nylon plastic.
4. PE: Polyethylene plastic.
5. PVC: Polyvinyl chloride plastic.

G. The following are industry abbreviations for rubber materials:

1. CR: Chlorosulfonated polyethylene synthetic rubber.
2. EPDM: Ethylene propylene diene terpolymer rubber.

1.4 SUBMITTALS

A. Product Data Book: Submit product data for all Division 15 items in a single reinforced 3-ring binder. Organize product data by specification section number. Provide table of contents showing the following:
1. Specification Section
2. Description of item
3. Submission number (1st submission, 2nd submission, etc.)
4. Submittal status (Approved, Revise and Resubmit, etc.)

B. Product Data: For dielectric fittings, flexible connectors, mechanical sleeve seals, and identification materials and devices.

C. Shop Drawings: Detail fabrication and installation for metal and wood supports and anchorage for mechanical materials and equipment.

D. Coordination Drawings: For access panel and door locations.

E. Coordination Drawings: Detail major elements, components, and systems of mechanical equipment and materials in relationship with other systems, installations, and building components. Show space requirements for installation and access. Indicate if sequence and coordination of installations are important to efficient flow of the Work. Include the following:

1. Planned piping layout, including valve and specialty locations and valve-stem movement.
2. Clearances for installing and maintaining insulation.
3. Clearances for servicing and maintaining equipment, accessories, and specialties, including space for disassembly required for periodic maintenance.
4. Equipment and accessory service connections and support details.
5. Exterior wall and foundation penetrations.
6. Fire-rated wall and floor penetrations.
7. Sizes and location of required concrete pads and bases.
8. Scheduling, sequencing, movement, and positioning of large equipment into building during construction.

9. Floor plans, elevations, and details to indicate penetrations in floors, walls, and ceilings and their relationship to other penetrations and installations.
10. Reflected ceiling plans to coordinate and integrate installation of air outlets and inlets, light fixtures, communication system components, sprinklers, and other ceiling-mounted items.

F. Samples: Of color, lettering style, and other graphic representation required for each identification material and device.

1.5 QUALITY ASSURANCE

A. Comply with ASME A13.1 for lettering size, length of color field, colors, and viewing angles of identification devices.

B. Equipment Selection: Equipment of higher electrical characteristics, physical dimensions, capacities, and ratings may be furnished provided such proposed equipment is approved in writing and connecting mechanical and electrical services, circuit breakers, conduit, motors, bases, and equipment spaces are increased. Additional costs shall be approved in advance by appropriate Contract Modification for these increases. If minimum energy ratings or efficiencies of equipment are specified, equipment must meet design and commissioning requirements.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver pipes and tubes with factory-applied end caps. Maintain end caps through shipping, storage, and handling to prevent pipe end damage and prevent entrance of dirt, debris, and moisture.

B. Protect stored pipes and tubes from moisture and dirt. Elevate above grade. Do not exceed structural capacity of floor, if stored inside.

C. Protect flanges, fittings, and piping specialties from moisture and dirt.

D. Store plastic pipes protected from direct sunlight. Support to prevent sagging and bending.

1.7 SEQUENCING AND SCHEDULING

A. Coordinate mechanical equipment installation with other building components.

B. Arrange for pipe spaces, chases, slots, and openings in building structure during progress of construction to allow for mechanical installations.

C. Coordinate installation of required supporting devices and set sleeves in poured-in-place concrete and other structural components, as they are constructed.

D. Sequence, coordinate, and integrate installations of mechanical materials and equipment for efficient flow of the Work. Coordinate installation of large equipment requiring positioning before closing in building.

E. Coordinate connection of mechanical systems with exterior underground and overhead utilities and services. Comply with requirements of governing regulations, franchised service companies, and controlling agencies.

F. Coordinate requirements for access panels and doors if mechanical items requiring access are concealed behind finished surfaces. Access panels and doors are specified in Division 8 Section "Access Doors."

G. Coordinate installation of identifying devices after completing covering and painting, if devices are applied to surfaces. Install identifying devices before installing acoustical ceilings and similar concealment.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Dielectric Unions:

    a. Capitol Manufacturing Co.
    b. Central Plastics Co.
    c. Eclipse, Inc.; Rockford-Eclipse Div.
    d. Epco Sales Inc.
    e. Hart Industries International, Inc.
    f. Watts Industries, Inc.; Water Products Div.
    g. Zurn Industries, Inc.; Wilkins Div.

2. Dielectric Flanges:

    a. Capitol Manufacturing Co.
    b. Central Plastics Co.
    c. Epco Sales Inc.
    d. Watts Industries, Inc.; Water Products Div.

3. Dielectric-Flange Insulating Kits:

    a. Calpico, Inc.
    b. Central Plastics Co.

4. Dielectric Couplings:

    a. Calpico, Inc.
    b. Lochinvar Corp.

5. Dielectric Nipples:

a. Grinnell Corp.; Grinnell Supply Sales Co.
b. Perfection Corp.
c. Victaulic Co. of America.

6. Metal, Flexible Connectors:

a. ANAMET Industrial, Inc.
b. Central Sprink, Inc.
c. Flexicraft Industries.
d. Flex-Weld, Inc.
e. Grinnell Corp.; Grinnell Supply Sales Co.
f. Hyspan Precision Products, Inc.
g. McWane, Inc.; Tyler Pipe; Gustin-Bacon Div.
h. Mercer Rubber Co.
i. Metraflex Co.
j. Proco Products, Inc.
k. Uniflex, Inc.

7. Rubber, Flexible Connectors:

a. General Rubber Corp.
b. Mercer Rubber Co.
c. Metraflex Co.
d. Proco Products, Inc.
e. Red Valve Co., Inc.
f. Uniflex, Inc.

8. Mechanical Sleeve Seals:

a. Calpico, Inc.
b. Metraflex Co.
c. Thunderline/Link-Seal.

2.2 PIPE AND PIPE FITTINGS

A. Refer to individual Division 15 piping Sections for pipe and fitting materials and joining methods.

B. Pipe Threads: ASME B1.20.1 for factory-threaded pipe and pipe fittings.

2.3 JOINING MATERIALS

A. Refer to individual Division 15 piping Sections for special joining materials not listed below.

B. Pipe-Flange Gasket Materials: Suitable for chemical and thermal conditions of piping system contents.

1. ASME B16.21, nonmetallic, flat, asbestos-free, 1/8-inch maximum thickness, unless thickness or specific material is indicated.

a. Full-Face Type: For flat-face, Class 125, cast-iron and cast-bronze flanges.
b. Narrow-Face Type: For raised-face, Class 250, cast-iron and steel flanges.

2. AWWA C110, rubber, flat face, 1/8 inch thick, unless otherwise indicated; and full-face or ring type, unless otherwise indicated.

C. Flange Bolts and Nuts: ASME B18.2.1, carbon steel, unless otherwise indicated.

D. Plastic, Pipe-Flange Gasket, Bolts, and Nuts: Type and material recommended by piping system manufacturer, unless otherwise indicated.

E. Solder Filler Metals: ASTM B 32.

1. Alloy Sn95 or Alloy Sn94: Approximately 95 percent tin and 5 percent silver, with 0.10 percent lead content.
2. Alloy E: Approximately 95 percent tin and 5 percent copper, with 0.10 percent maximum lead content.
3. Alloy HA: Tin-antimony-silver-copper zinc, with 0.10 percent maximum lead content.
4. Alloy HB: Tin-antimony-silver-copper nickel, with 0.10 percent maximum lead content.
5. Alloy Sb5: 95 percent tin and 5 percent antimony, with 0.20 percent maximum lead content.

F. Brazing Filler Metals: AWS A5.8.

1. BCuP Series: Copper-phosphorus alloys.
2. BAg1: Silver alloy.

G. Welding Filler Metals: Comply with AWS D10.12 for welding materials appropriate for wall thickness and chemical analysis of steel pipe being welded.

H. Solvent Cements: Manufacturer's standard solvent cements for the following:

1. ABS Piping: ASTM D 2235.
2. CPVC Piping: ASTM F 493.
3. PVC Piping: ASTM D 2564. Include primer according to ASTM F 656.
4. PVC to ABS Piping Transition: ASTM D 3138.

I. Plastic Pipe Seals: ASTM F 477, elastomeric gasket.

J. Flanged, Ductile-Iron Pipe Gasket, Bolts, and Nuts: AWWA C110, rubber gasket, carbon-steel bolts and nuts.

K. Couplings: Iron-body sleeve assembly, fabricated to match OD of plain-end, pressure pipes.

1. Sleeve: ASTM A 126, Class B, gray iron.
2. Followers: ASTM A 47 malleable iron or ASTM A 536 ductile iron.
3. Gaskets: Rubber.
4. Bolts and Nuts: AWWA C111.
5. Finish: Enamel paint.

2.4 DIELECTRIC FITTINGS

A. General: Assembly or fitting with insulating material isolating joined dissimilar metals, to prevent galvanic action and stop corrosion.

B. Description: Combination of copper alloy and ferrous; threaded, solder, plain, and weld-neck end types and matching piping system materials.

C. Insulating Material: Suitable for system fluid, pressure, and temperature.

D. Dielectric Unions: Factory-fabricated, union assembly, for 250-psig minimum working pressure at 180 deg F.

E. Dielectric Flanges: Factory-fabricated, companion-flange assembly, for 150- or 300-psig minimum working pressure as required to suit system pressures.

F. Dielectric-Flange Insulation Kits: Field-assembled, companion-flange assembly, full-face or ring type. Components include neoprene or phenolic gasket, phenolic or polyethylene bolt sleeves, phenolic washers, and steel backing washers.

1. Provide separate companion flanges and steel bolts and nuts for 150- or 300-psig minimum working pressure as required to suit system pressures.

G. Dielectric Couplings: Galvanized-steel coupling with inert and noncorrosive, thermoplastic lining; threaded ends; and 300-psig minimum working pressure at 225 deg F.

H. Dielectric Nipples: Electroplated steel nipple with inert and noncorrosive, thermoplastic lining; plain, threaded, or grooved ends; and 300-psig minimum working pressure at 225 deg F.

2.5 FLEXIBLE CONNECTORS

A. General: Fabricated from materials suitable for system fluid and that will provide flexible pipe connections. Include 125-psig minimum working-pressure rating, unless higher working pressure is indicated, and ends according to the following:

1. 2-Inch NPS and Smaller: Threaded.
2. 2-1/2-Inch NPS and Larger: Flanged.
3. Option for 2-1/2-Inch NPS and Larger: Grooved for use with keyed couplings.

B. Bronze-Hose, Flexible Connectors: Corrugated, bronze, inner tubing covered with bronze wire braid. Include copper-tube ends or bronze flanged ends, braze welded to hose.

C. Stainless-Steel-Hose/Steel Pipe, Flexible Connectors: Corrugated, stainless-steel, inner tubing covered with stainless-steel wire braid. Include steel nipples or flanges, welded to hose.

D. Stainless-Steel-Hose/Stainless-Steel Pipe, Flexible Connectors: Corrugated, stainless-steel, inner tubing covered with stainless-steel wire braid. Include stainless-steel nipples or flanges, welded to hose.

E. Rubber, Flexible Connectors: CR or EPDM elastomer rubber construction, with multiple plies of NP fabric, molded and cured in hydraulic presses. Include 125-psig minimum working-pressure rating at 220 deg F. Units may be straight or elbow type, unless otherwise indicated.

2.6 MECHANICAL SLEEVE SEALS

A. Description: Modular design, with interlocking rubber links shaped to continuously fill annular space between pipe and sleeve. Include connecting bolts and pressure plates.

2.7 PIPING SPECIALTIES

A. Sleeves: The following materials are for wall, floor, slab, and roof penetrations:

1. Steel Sheet Metal: 0.0239-inch minimum thickness, galvanized, round tube closed with welded longitudinal joint.
2. Steel Pipe: ASTM A 53, Type E, Grade A, Schedule 40, galvanized, plain ends.
3. Cast Iron: Cast or fabricated "wall pipe" equivalent to ductile-iron pressure pipe, with plain ends and integral waterstop, unless otherwise indicated.
4. Stack Sleeve Fittings: Manufactured, cast-iron sleeve with integral clamping flange. Include clamping ring and bolts and nuts for membrane flashing.

    a. Underdeck Clamp: Clamping ring with set screws.

5. PVC: Manufactured, permanent, with nailing flange for attaching to wooden forms.
6. PVC Pipe: ASTM D 1785, Schedule 40.
7. PE: Manufactured, reusable, tapered, cup shaped, smooth outer surface, with nailing flange for attaching to wooden forms.

B. Escutcheons: Manufactured wall, ceiling, and floor plates; deep-pattern type if required to conceal protruding fittings and sleeves.

1. ID: Closely fit around pipe, tube, and insulation of insulated piping.
2. OD: Completely cover opening.
3. Cast Brass: One piece, with set screw.

    a. Finish: Rough brass.
    b. Finish: Polished chrome-plate.

4. Cast Brass: Split casting, with concealed hinge and set screw.

    a. Finish: Rough brass.
    b. Finish: Polished chrome-plate.

5. Stamped Steel: One piece, with set screw and chrome-plated finish.
6. Stamped Steel: One piece, with spring clips and chrome-plated finish.
7. Stamped Steel: Split plate, with concealed hinge, set screw, and chrome-plated finish.
8. Stamped Steel: Split plate, with concealed hinge, spring clips, and chrome-plated finish.
9. Stamped Steel: Split plate, with exposed-rivet hinge, set screw, and chrome-plated finish.
10. Stamped Steel: Split plate, with exposed-rivet hinge, spring clips, and chrome-plated finish.
11. Cast-Iron Floor Plate: One-piece casting.

2.8 IDENTIFYING DEVICES AND LABELS

A. General: Manufacturer's standard products of categories and types required for each application as referenced in other Division 15 Sections. If more than one type is specified for application, selection is Installer's option, but provide one selection for each product category.

B. Equipment Nameplates: Metal nameplate with operational data engraved or stamped; permanently fastened to equipment.

1. Data: Manufacturer, product name, model number, serial number, capacity, operating and power characteristics, labels of tested compliances, and similar essential data.
2. Location: Accessible and visible location.

C. Stencils: Standard stencils, prepared for required applications with letter sizes complying with recommendations of ASME A13.1 for piping and similar applications, but not less than 1-1/4-inch- high letters for ductwork and not less than 3/4-inch- high letters for access door signs and similar operational instructions.

1. Material: Fiberboard.
2. Material: Brass.
3. Stencil Paint: Standard exterior-type stenciling enamel; black, unless otherwise indicated; either brushing grade or pressurized spray-can form and grade.
4. Identification Paint: Standard identification enamel of colors indicated or, if not otherwise indicated for piping systems, comply with ASME A13.1 for colors.

D. Snap-on Plastic Pipe Markers: Manufacturer's standard preprinted, semirigid, snap on, color-coded, complying with ASME A13.1.

E. Pressure-Sensitive Pipe Markers: Manufacturer's standard preprinted, permanent adhesive, color-coded, pressure-sensitive vinyl, complying with ASME A13.1.

F. Plastic Duct Markers: Manufacturer's standard color-coded, laminated plastic. Comply with the following color code:

1. Green: Cold air.
2. Yellow: Hot air.
3. Yellow/Green or Green: Supply air.
4. Blue: Exhaust, outside, return, and mixed air.
5. For hazardous exhausts, use colors and designs recommended by ASME A13.1.
6. Nomenclature: Include the following:

    a. Direction of airflow.
    b. Duct service.
    c. Duct origin.
    d. Duct destination.
    e. Design cubic feet per meter.

G. Engraved Plastic-Laminate Signs: ASTM D 709, Type I, cellulose, paper-base, phenolic-resin-laminate engraving stock; Grade ES-2, black surface, black phenolic core, with white melamine subcore, unless otherwise indicated.

1. Fabricate in sizes required for message.

2. Engraved with engraver's standard letter style, of sizes and with wording to match equipment identification.
3. Punch for mechanical fastening.
4. Thickness: 1/16 inch, unless otherwise indicated.
5. Thickness: 1/8 inch, unless otherwise indicated.
6. Thickness: 1/16 inch, for units up to 20 sq. in. or 8 inches long; 1/8 inch for larger units.
7. Fasteners: Self-tapping stainless-steel screws or contact-type permanent adhesive.

H. Plastic Equipment Markers: Color-coded, laminated plastic. Comply with the following color code:

1. Green: Cooling equipment and components.
2. Yellow: Heating equipment and components.
3. Yellow/Green: Combination cooling and heating equipment and components.
4. Brown: Energy reclamation equipment and components.
5. Blue: Equipment and components that do not meet any criteria above.
6. For hazardous equipment, use colors and designs recommended by ASME A13.1.
7. Nomenclature: Include the following, matching terminology on schedules as closely as possible:

    a. Name and plan number.
    b. Equipment service.
    c. Design capacity.
    d. Other design parameters such as pressure drop, entering and leaving conditions, and rpm.

8. Size: Approximate 2-1/2 by 4 inches for control devices, dampers, and valves; and 4-1/2 by 6 inches for equipment.

I. Lettering and Graphics: Coordinate names, abbreviations, and other designations used in mechanical identification, with corresponding designations indicated. Use numbers, lettering, and wording indicated for proper identification and operation/maintenance of mechanical systems and equipment.

1. Multiple Systems: If multiple systems of same generic name are indicated, provide identification that indicates individual system number and service such as "Boiler No. 3," "Air Supply No. 1H," or "Standpipe F12."

2.9 GROUT

A. Nonshrink, Nonmetallic Grout: ASTM C 1107, Grade B.

1. Characteristics: Post-hardening, volume-adjusting, dry, hydraulic-cement grout, nonstaining, noncorrosive, nongaseous, and recommended for interior and exterior applications.
2. Design Mix: 5000-psig, 28-day compressive strength.
3. Packaging: Premixed and factory packaged.

PART 3 - EXECUTION

3.1 PIPING SYSTEMS - COMMON REQUIREMENTS

A. General: Install piping as described below, unless piping Sections specify otherwise. Individual Division 15 piping Sections specify unique piping installation requirements.

B. General Locations and Arrangements: Drawing plans, schematics, and diagrams indicate general location and arrangement of piping systems. Indicated locations and arrangements were used to size pipe and calculate friction loss, expansion, pump sizing, and other design considerations. Install piping as indicated, unless deviations to layout are approved on Coordination Drawings.

C. Install piping at indicated slope.

D. Install components with pressure rating equal to or greater than system operating pressure.

E. Install piping in concealed interior and exterior locations, except in equipment rooms and service areas.

F. Install piping free of sags and bends.

G. Install exposed interior and exterior piping at right angles or parallel to building walls. Diagonal runs are prohibited, unless otherwise indicated.

H. Install piping tight to slabs, beams, joists, columns, walls, and other building elements. Allow sufficient space above removable ceiling panels to allow for ceiling panel removal.

I. Install piping to allow application of insulation plus 1-inch clearance around insulation.

J. Locate groups of pipes parallel to each other, spaced to permit valve servicing.

K. Install fittings for changes in direction and branch connections.

L. Install couplings according to manufacturer's written instructions.

M. Install pipe escutcheons for pipe penetrations of concrete and masonry walls, wall board partitions, and suspended ceilings according to the following:

1. Chrome-Plated Piping: Cast brass, one piece, with set screw, and polished chrome-plated finish. Use split-casting escutcheons if required, for existing piping.
2. Uninsulated Piping Wall Escutcheons: Cast brass or stamped steel, with set screw.
3. Uninsulated Piping Floor Plates in Utility Areas: Cast-iron floor plates.
4. Insulated Piping: Cast brass or stamped steel; with concealed hinge, spring clips, and chrome-plated finish.
5. Piping in Utility Areas: Cast brass or stamped steel, with set-screw or spring clips.

N. Sleeves are not required for core drilled holes.

O. Permanent sleeves are not required for holes formed by PE removable sleeves.

P. Install sleeves for pipes passing through concrete and masonry walls, and concrete floor and roof slabs.

Q. Install sleeves for pipes passing through concrete and masonry walls, gypsum-board partitions, and concrete floor and roof slabs.

1. Cut sleeves to length for mounting flush with both surfaces.

    a. Exception: Extend sleeves installed in floors of mechanical equipment areas or other wet areas 2 inches above finished floor level. Extend cast-iron sleeve fittings below floor slab as required to secure clamping ring if ring is specified.

2. Build sleeves into new walls and slabs as work progresses.
3. Install sleeves large enough to provide 1/4-inch annular clear space between sleeve and pipe or pipe insulation. Use the following sleeve materials:

    a. PVC Pipe Sleeves: For pipes smaller than 6-inch NPS.
    b. Steel Pipe Sleeves: For pipes smaller than 6-inch NPS.
    c. Steel, Sheet-Metal Sleeves: For pipes 6-inch NPS and larger, penetrating gypsum-board partitions.
    d. Stack Sleeve Fittings: For pipes penetrating floors with membrane waterproofing. Secure flashing between clamping flanges. Install section of cast-iron soil pipe to extend sleeve to 2 inches above finished floor level. Refer to Division 7 Section "Sheet Metal Flashing and Trim" for flashing.

        1) Seal space outside of sleeve fittings with nonshrink, nonmetallic grout.

4. Except for underground wall penetrations, seal annular space between sleeve and pipe or pipe insulation, using elastomeric joint sealants. Refer to Division 7 Section "Joint Sealants" for materials.
5. Use Type S, Grade NS, Class 25, Use O, neutral-curing silicone sealant, unless otherwise indicated.

R. Aboveground, Exterior-Wall, Pipe Penetrations: Seal penetrations using sleeves and mechanical sleeve seals. Size sleeve for 1-inch annular clear space between pipe and sleeve for installing mechanical sleeve seals.

1. Install steel pipe for sleeves smaller than 6 inches in diameter.
2. Install cast-iron "wall pipes" for sleeves 6 inches in diameter and larger.
3. Assemble and install mechanical sleeve seals according to manufacturer's written instructions. Tighten bolts that cause rubber sealing elements to expand and make watertight seal.

S. Underground, Exterior-Wall, Pipe Penetrations: Install cast-iron "wall pipes" for sleeves. Seal pipe penetrations using mechanical sleeve seals. Size sleeve for 1-inch annular clear space between pipe and sleeve for installing mechanical sleeve seals.

1. Assemble and install mechanical sleeve seals according to manufacturer's written instructions. Tighten bolts that cause rubber sealing elements to expand and make watertight seal.

T. Fire-Barrier Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at pipe penetrations. Seal pipe penetrations with firestopping materials. Refer to Division 7 Section "Firestopping" for materials.

U. Verify final equipment locations for roughing-in.

V. Refer to equipment specifications in other Sections of these Specifications for roughing-in requirements.

W. Piping Joint Construction: Join pipe and fittings as follows and as specifically required in individual piping specification Sections:

1. Ream ends of pipes and tubes and remove burrs. Bevel plain ends of steel pipe.
2. Remove scale, slag, dirt, and debris from inside and outside of pipe and fittings before assembly.
3. Soldered Joints: Construct joints according to AWS's "Soldering Manual," Chapter "The Soldering of Pipe and Tube"; or CDA's "Copper Tube Handbook."
4. Soldered Joints: Construct joints according to AWS's "Soldering Manual," Chapter "The Soldering of Pipe and Tube."
5. Soldered Joints: Construct joints according to CDA's "Copper Tube Handbook."
6. Brazed Joints: Construct joints according to AWS's "Brazing Handbook," Chapter "Pipe and Tube."
7. Threaded Joints: Thread pipe with tapered pipe threads according to ASME B1.20.1. Cut threads full and clean using sharp dies. Ream threaded pipe ends to remove burrs and restore full ID. Join pipe fittings and valves as follows:

    a. Note internal length of threads in fittings or valve ends, and proximity of internal seat or wall, to determine how far pipe should be threaded into joint.
    b. Apply appropriate tape or thread compound to external pipe threads, unless dry seal threading is specified.
    c. Align threads at point of assembly.
    d. Tighten joint with wrench. Apply wrench to valve end into which pipe is being threaded.
    e. Damaged Threads: Do not use pipe or pipe fittings with threads that are corroded or damaged. Do not use pipe sections that have cracked or open welds.

8. Welded Joints: Construct joints according to AWS D10.12, "Recommended Practices and Procedures for Welding Low Carbon Steel Pipe," using qualified processes and welding operators according to "Quality Assurance" Article.
9. Flanged Joints: Align flange surfaces parallel. Select appropriate gasket material, size, type, and thickness for service application. Install gasket concentrically positioned. Assemble joints by sequencing bolt tightening to make initial contact of flanges and gaskets as flat and parallel as possible. Use suitable lubricants on bolt threads. Tighten bolts gradually and uniformly using torque wrench.
10. Plastic Piping Solvent-Cement Joints: Clean and dry joining surfaces by wiping with clean cloth or paper towels. Join pipe and fittings according to the following:

    a. Comply with ASTM F 402 for safe-handling practice of cleaners, primers, and solvent cements.
    b. ABS Piping: ASTM D 2235 and ASTM D 2661.
    c. CPVC Piping: ASTM D 2846 and ASTM F 493.
    d. PVC Pressure Piping: ASTM D 2672.
    e. PVC Nonpressure Piping: ASTM D 2855.
    f. PVC to ABS Nonpressure Transition Fittings: Procedure and solvent cement according to ASTM D 3138.

11. Plastic Piping Heat-Fusion Joints: Clean and dry joining surfaces by wiping with clean cloth or paper towels. Join according to ASTM D 2657 procedures and manufacturer's written instructions.

    a. Plain-End Pipe and Fittings: Use butt fusion.
    b. Plain-End Pipe and Socket Fittings: Use socket fusion.

X. Piping Connections: Make connections according to the following, unless otherwise indicated:

1. Install unions, in piping 2-inch NPS and smaller, adjacent to each valve and at final connection to each piece of equipment with 2-inch NPS or smaller threaded pipe connection.
2. Install flanges, in piping 2-1/2-inch NPS and larger, adjacent to flanged valves and at final connection to each piece of equipment with flanged pipe connection.
3. Dry Piping Systems: Install dielectric unions and flanges to connect piping materials of dissimilar metals.
4. Wet Piping Systems: Install dielectric coupling and nipple fittings to connect piping materials of dissimilar metals.

3.2 EQUIPMENT INSTALLATION - COMMON REQUIREMENTS

A. Install equipment to provide maximum possible headroom, if mounting heights are not indicated.

B. Install equipment according to approved submittal data. Portions of the Work are shown only in diagrammatic form. Refer conflicts to Architect.

C. Install equipment level and plumb, parallel and perpendicular to other building systems and components in exposed interior spaces, unless otherwise indicated.

D. Install mechanical equipment to facilitate service, maintenance, and repair or replacement of components. Connect equipment for ease of disconnecting, with minimum interference to other installations. Extend grease fittings to accessible locations.

E. Install equipment giving right of way to piping installed at required slope.

F. Install flexible connectors on equipment side of shutoff valves, horizontally and parallel to equipment shafts if possible.

3.3 LABELING AND IDENTIFYING

A. Piping Systems: Install pipe markers on each system. Include arrows showing normal direction of flow.

1. Stenciled Markers: According to ASME A13.1.
2. Plastic markers, with application systems. Install on insulation segment if required for hot, uninsulated piping.

3. Locate pipe markers as follows if piping is exposed in finished spaces, machine rooms, and accessible maintenance spaces, such as shafts, tunnels, plenums, and exterior nonconcealed locations:

    a. Near each valve and control device.
    b. Near each branch, excluding short takeoffs for fixtures and terminal units. Mark each pipe at branch, if flow pattern is not obvious.
    c. Near locations if pipes pass through walls, floors, ceilings, or enter nonaccessible enclosures.
    d. At access doors, manholes, and similar access points that permit view of concealed piping.
    e. Near major equipment items and other points of origination and termination.
    f. Spaced at maximum of 50-foot intervals along each run. Reduce intervals to 25 feet in congested areas of piping and equipment.
    g. On piping above removable acoustical ceilings, except omit intermediately spaced markers.

B. Equipment: Install engraved plastic-laminate sign or equipment marker on or near each major item of mechanical equipment.

1. Lettering Size: Minimum 1/4-inch- high lettering for name of unit if viewing distance is less than 24 inches, 1/2-inch- high lettering for distances up to 72 inches, and proportionately larger lettering for greater distances. Provide secondary lettering two-thirds to three-fourths of size of principal lettering.
2. Text of Signs: Provide name of identified unit. Include text to distinguish between multiple units, inform user of operational requirements, indicate safety and emergency precautions, and warn of hazards and improper operations.

C. Duct Systems: Identify air supply, return, exhaust, intake, and relief ducts with duct markers; or provide stenciled signs and arrows, showing duct system service and direction of flow.

1. Location: In each space, if ducts are exposed or concealed by removable ceiling system, locate signs near points where ducts enter into space and at maximum intervals of 50 feet.

D. Adjusting: Relocate identifying devices as necessary for unobstructed view in finished construction.

3.4 PAINTING AND FINISHING

A. Refer to Division 9 Section "Painting" for paint materials, surface preparation, and application of paint.

B. Apply paint to exposed piping according to the following, unless otherwise indicated:

1. Interior, Ferrous Piping: Use semigloss, acrylic-enamel finish. Include finish coat over enamel undercoat and primer.
2. Interior, Galvanized-Steel Piping: Use semigloss, acrylic-enamel finish. Include two finish coats over galvanized metal primer.
3. Interior, Ferrous Supports: Use semigloss, acrylic-enamel finish. Include finish coat over enamel undercoat and primer.

4. Exterior, Ferrous Piping: Use semigloss, acrylic-enamel finish. Include two finish coats over rust-inhibitive metal primer.
5. Exterior, Galvanized-Steel Piping: Use semigloss, acrylic-enamel finish. Include two finish coats over galvanized metal primer.
6. Exterior, Ferrous Supports: Use semigloss, acrylic-enamel finish. Include two finish coats over rust-inhibitive metal primer.

C. Do not paint piping specialties with factory-applied finish.

D. Damage and Touchup: Repair marred and damaged factory-painted finishes with materials and procedures to match original factory finish.

3.5 CONCRETE BASES

A. Construct concrete bases of dimensions indicated, but not less than 4 inches larger in both directions than supported unit. Follow supported equipment manufacturer's setting templates for anchor bolt and tie locations. Use 3000-psig, 28-day compressive-strength concrete and reinforcement as specified in Division 3 Section "Cast-in-Place Concrete."

3.6 ERECTION OF METAL SUPPORTS AND ANCHORAGE

A. Cut, fit, and place miscellaneous metal supports accurately in location, alignment, and elevation to support and anchor mechanical materials and equipment.

B. Field Welding: Comply with AWS D1.1, "Structural Welding Code--Steel."

3.7 ERECTION OF WOOD SUPPORTS AND ANCHORAGE

A. Cut, fit, and place wood grounds, nailers, blocking, and anchorage to support and anchor mechanical materials and equipment.

B. Select fastener sizes that will not penetrate members if opposite side will be exposed to view or will receive finish materials. Tighten connections between members. Install fasteners without splitting wood members.

C. Attach to substrates as required to support applied loads.

3.8 DEMOLITION

A. Disconnect, demolish, and remove Work specified in Division 15 Sections.

B. If pipe, ductwork, insulation, or equipment to remain is damaged or disturbed, remove damaged portions and install new products of equal capacity and quality.

C. Accessible Work: Remove indicated exposed pipe and ductwork in its entirety.

D. Work Abandoned in Place: Cut and remove underground pipe a minimum of 2 inches beyond face of adjacent construction. Cap and patch surface to match existing finish.

E. Removal: Remove indicated equipment from Project site.

F. Temporary Disconnection: Remove, store, clean, reinstall, reconnect, and make operational equipment indicated for relocation.

3.9 CUTTING AND PATCHING

A. Cut, channel, chase, and drill floors, walls, partitions, ceilings, and other surfaces necessary for mechanical installations. Perform cutting by skilled mechanics of trades involved.

B. Repair cut surfaces to match adjacent surfaces.

3.10 GROUTING

A. Install nonmetallic, nonshrink, grout for mechanical equipment base bearing surfaces, pump and other equipment base plates, and anchors. Mix grout according to manufacturer's written instructions.

B. Clean surfaces that will come into contact with grout.

C. Provide forms as required for placement of grout.

D. Avoid air entrapment during placing of grout.

E. Place grout, completely filling equipment bases.

F. Place grout on concrete bases to provide smooth bearing surface for equipment.

G. Place grout around anchors.

H. Cure placed grout according to manufacturer's written instructions.

END OF SECTION 15050

SECTION 15067 - HANGERS AND SUPPORTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following hangers and supports for HVAC system piping and equipment:

1. Steel pipe hangers and supports.
2. Trapeze pipe hangers.
3. Fiberglass pipe hangers.
4. Metal framing systems.
5. Fiberglass strut systems.
6. Thermal-hanger shield inserts.
7. Fastener systems.
8. Pipe stands.
9. Equipment supports.

B. Related Sections include the following:

1. Division 5 Section "Metal Fabrications" for structural-steel shapes and plates for trapeze hangers for pipe and equipment supports.
2. Division 13 Section "Fire-Suppression Piping" for pipe hangers for fire-protection piping.
3. Division 15 Section "Vibration and Seismic Controls for HVAC Piping and Equipment" for vibration isolation devices.
4. Division 15 Section "Expansion Fittings and Loops for HVAC Piping" for pipe guides and anchors.
5. Division 15 Section(s) "Metal Ducts” for duct hangers and supports.

1.3 DEFINITIONS

A. MSS: Manufacturers Standardization Society for The Valve and Fittings Industry Inc.

B. Terminology: As defined in MSS SP-90, "Guidelines on Terminology for Pipe Hangers and Supports."

1.4 PERFORMANCE REQUIREMENTS

A. Design supports for multiple pipes, including pipe stands, capable of supporting combined weight of supported systems, system contents, and test water.

B. Design equipment supports capable of supporting combined operating weight of supported equipment and connected systems and components.

C. Design seismic-restraint hangers and supports for piping and equipment.

1.5 SUBMITTALS

A. Product Data: For the following:

1. Steel pipe hangers and supports.
2. Fiberglass pipe hangers.
3. Thermal-hanger shield inserts.
4. Powder-actuated fastener systems.

B. Shop Drawings: Show fabrication and installation details and include calculations for the following:

1. Trapeze pipe hangers. Include Product Data for components.
2. Metal framing systems. Include Product Data for components.
3. Fiberglass strut systems. Include Product Data for components.
4. Pipe stands. Include Product Data for components.
5. Equipment supports.

C. Welding certificates.

1.6 QUALITY ASSURANCE

A. Welding: Qualify procedures and personnel according to AWS D1.1**,** "Structural Welding Code—Steel**”**

B. Welding: Qualify procedures and personnel according to the following:

1. AWS D1.1, "Structural Welding Code--Steel."

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, manufacturers specified.
2. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.2 STEEL PIPE HANGERS AND SUPPORTS

A. Description: MSS SP-58, Types 1 through 58, factory-fabricated components. Refer to Part 3 "Hanger and Support Applications" Article for where to use specific hanger and support types.

B. Available Manufacturers:

1. AAA Technology & Specialties Co., Inc.
2. Bergen-Power Pipe Supports.
3. B-Line Systems, Inc.; a division of Cooper Industries.
4. Carpenter & Paterson, Inc.
5. Empire Industries, Inc.
6. ERICO/Michigan Hanger Co.
7. Globe Pipe Hanger Products, Inc.
8. Grinnell Corp.
9. GS Metals Corp.
10. National Pipe Hanger Corporation.
11. PHD Manufacturing, Inc.
12. PHS Industries, Inc.
13. Piping Technology & Products, Inc.
14. Tolco Inc.

C. Galvanized, Metallic Coatings: Pregalvanized or hot dipped.

D. Nonmetallic Coatings: Plastic coating, jacket, or liner.

E. Padded Hangers: Hanger with fiberglass or other pipe insulation pad or cushion for support of bearing surface of piping.

2.3 TRAPEZE PIPE HANGERS

A. Description: MSS SP-69, Type 59, shop- or field-fabricated pipe-support assembly made from structural-steel shapes with MSS SP-58 hanger rods, nuts, saddles, and U-bolts.

2.4 FIBERGLASS PIPE HANGERS

A. Clevis-Type, Fiberglass Pipe Hangers: Similar to MSS Type 1, steel pipe hanger except hanger is made of fiberglass and continuous-thread rod and nuts are made of polyurethane or stainless steel.

1. Available Manufacturers:

a. B-Line Systems, Inc.; a division of Cooper Industries.
b. Champion Fiberglass, Inc.
c. Cope, T. J., Inc.; Tyco International, Ltd.
d. Seasafe, Inc.
e. Unistrut Corp.; Tyco International, Ltd.
f. Wesanco, Inc.

B. Strap-Type, Fiberglass Pipe Hangers: Made of fiberglass loop with stainless-steel continuous-thread rod, nuts, and support hook.

1. Available Manufacturers:

a. Plasti-Fab, Inc.

2.5 METAL FRAMING SYSTEMS

A. Description: MFMA-3, shop- or field-fabricated pipe-support assembly made of steel channels and other components.

B. Available Manufacturers:

1. B-Line Systems, Inc.; a division of Cooper Industries.
2. ERICO/Michigan Hanger Co.; ERISTRUT Div.
3. GS Metals Corp.
4. Power-Strut Div.; Tyco International, Ltd.
5. Thomas & Betts Corporation.
6. Tolco Inc.
7. Unistrut Corp.; Tyco International, Ltd.

C. Coatings: Manufacturer's standard finish, unless bare metal surfaces are indicated.

D. Nonmetallic Coatings: Plastic coating, jacket, or liner.

2.6 FIBERGLASS STRUT SYSTEMS

A. Description: Shop- or field-fabricated pipe-support assembly, similar to MFMA-3, made of fiberglass channels and other components.

B. Available Manufacturers:

1. B-Line Systems, Inc.; a division of Cooper Industries.
2. Champion Fiberglass, Inc.
3. Cope, T. J., Inc.; Tyco International Ltd.
4. Seasafe, Inc.

2.7 THERMAL-HANGER SHIELD INSERTS

A. Description: 100-psig- (690-kPa-) minimum, compressive-strength insulation insert encased in sheet metal shield.

B. Available Manufacturers:

1. Carpenter & Paterson, Inc.
2. ERICO/Michigan Hanger Co.
3. PHS Industries, Inc.
4. Pipe Shields, Inc.

5. Rilco Manufacturing Company, Inc.
6. Value Engineered Products, Inc.

C. Insulation-Insert Material for Cold Piping: ASTM C 552, Type II cellular glass with vapor barrier.

D. Insulation-Insert Material for Hot Piping: ASTM C 552, Type II cellular glass.

E. For Trapeze or Clamped Systems: Insert and shield shall cover entire circumference of pipe.

F. For Clevis or Band Hangers: Insert and shield shall cover lower 180 degrees of pipe.

G. Insert Length: Extend 2 inches (50 mm) beyond sheet metal shield for piping operating below ambient air temperature.

2.8 FASTENER SYSTEMS

A. Powder-Actuated Fasteners: Threaded-steel stud, for use in hardened portland cement concrete with pull-out, tension, and shear capacities appropriate for supported loads and building materials where used.

1. Available Manufacturers:

a. Hilti, Inc.
b. ITW Ramset/Red Head.
c. Masterset Fastening Systems, Inc.
d. MKT Fastening, LLC.
e. Powers Fasteners.

B. Mechanical-Expansion Anchors: Insert-wedge-type stainless steel, for use in hardened portland cement concrete with pull-out, tension, and shear capacities appropriate for supported loads and building materials where used.

1. Available Manufacturers:

a. B-Line Systems, Inc.; a division of Cooper Industries.
b. Empire Industries, Inc.
c. Hilti, Inc.
d. ITW Ramset/Red Head.
e. MKT Fastening, LLC.
f. Powers Fasteners.

2.9 PIPE STAND FABRICATION

A. Pipe Stands, General: Shop or field-fabricated assemblies made of manufactured corrosion-resistant components to support roof-mounted piping.

B. Compact Pipe Stand: One-piece plastic unit with integral-rod-roller, pipe clamps, or V-shaped cradle to support pipe, for roof installation without membrane penetration.

1. Available Manufacturers:

    a. ERICO/Michigan Hanger Co.
    b. MIRO Industries.

C. Low-Type, Single-Pipe Stand: One-piece stainless-steel base unit with plastic roller, for roof installation without membrane penetration.

1. Available Manufacturers:

    a. MIRO Industries.

D. High-Type, Single-Pipe Stand: Assembly of base, vertical and horizontal members, and pipe support, for roof installation without membrane penetration.

1. Available Manufacturers:

    a. ERICO/Michigan Hanger Co.
    b. MIRO Industries.
    c. Portable Pipe Hangers.

2. Base: Stainless steel.
3. Vertical Members: Two or more cadmium-plated-steel or stainless-steel, continuous-thread rods.
4. Horizontal Member: Cadmium-plated-steel or stainless-steel rod with plastic or stainless-steel, roller-type pipe support.

E. High-Type, Multiple-Pipe Stand: Assembly of bases, vertical and horizontal members, and pipe supports, for roof installation without membrane penetration.

1. Available Manufacturers:

    a. Portable Pipe Hangers.

2. Bases: One or more plastic.
3. Vertical Members: Two or more protective-coated-steel channels.
4. Horizontal Member: Protective-coated-steel channel.
5. Pipe Supports: Galvanized-steel, clevis-type pipe hangers.

F. Curb-Mounting-Type Pipe Stands: Shop- or field-fabricated pipe support made from structural-steel shape, continuous-thread rods, and rollers for mounting on permanent stationary roof curb.

2.10 EQUIPMENT SUPPORTS

A. Description: Welded, shop- or field-fabricated equipment support made from structural-steel shapes.

2.11 MISCELLANEOUS MATERIALS

A. Structural Steel: ASTM A 36/A 36M, steel plates, shapes, and bars; black and galvanized.

B. Grout: ASTM C 1107, factory-mixed and -packaged, dry, hydraulic-cement, nonshrink and nonmetallic grout; suitable for interior and exterior applications.

1. Properties: Nonstaining, noncorrosive, and nongaseous.
2. Design Mix: 5000-psi (34.5-MPa), 28-day compressive strength.

PART 3 - EXECUTION

3.1 HANGER AND SUPPORT APPLICATIONS

A. Specific hanger and support requirements are specified in Sections specifying piping systems and equipment.

B. Comply with MSS SP-69 for pipe hanger selections and applications that are not specified in piping system Sections.

C. Use hangers and supports with galvanized, metallic coatings for piping and equipment that will not have field-applied finish.

D. Use nonmetallic coatings on attachments for electrolytic protection where attachments are in direct contact with copper tubing.

E. Use padded hangers for piping that is subject to scratching.

F. Horizontal-Piping Hangers and Supports: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

1. Adjustable, Steel Clevis Hangers (MSS Type 1): For suspension of noninsulated or insulated stationary pipes, NPS 1/2 to NPS 30 (DN 15 to DN 750).
2. Yoke-Type Pipe Clamps (MSS Type 2): For suspension of 120 to 450 deg F (49 to 232 deg C) pipes, NPS 4 to NPS 16 (DN 100 to DN 400), requiring up to 4 inches (100 mm) of insulation.
3. Carbon- or Alloy-Steel, Double-Bolt Pipe Clamps (MSS Type 3): For suspension of pipes, NPS 3/4 to NPS 24 (DN 20 to DN 600), requiring clamp flexibility and up to 4 inches (100 mm) of insulation.
4. Steel Pipe Clamps (MSS Type 4): For suspension of cold and hot pipes, NPS 1/2 to NPS 24 (DN 15 to DN 600), if little or no insulation is required.
5. Pipe Hangers (MSS Type 5): For suspension of pipes, NPS 1/2 to NPS 4 (DN 15 to DN 100), to allow off-center closure for hanger installation before pipe erection.
6. Adjustable, Swivel Split- or Solid-Ring Hangers (MSS Type 6): For suspension of noninsulated stationary pipes, NPS 3/4 to NPS 8 (DN 20 to DN 200).
7. Adjustable, Steel Band Hangers (MSS Type 7): For suspension of noninsulated stationary pipes, NPS 1/2 to NPS 8 (DN 15 to DN 200).
8. Adjustable Band Hangers (MSS Type 9): For suspension of noninsulated stationary pipes, NPS 1/2 to NPS 8 (DN 15 to DN 200).
9. Adjustable, Swivel-Ring Band Hangers (MSS Type 10): For suspension of noninsulated stationary pipes, NPS 1/2 to NPS 2 (DN 15 to DN 50).
10. Split Pipe-Ring with or without Turnbuckle-Adjustment Hangers (MSS Type 11): For suspension of noninsulated stationary pipes, NPS 3/8 to NPS 8 (DN 10 to DN 200).

11. Extension Hinged or 2-Bolt Split Pipe Clamps (MSS Type 12): For suspension of noninsulated stationary pipes, NPS 3/8 to NPS 3 (DN 10 to DN 80).
12. U-Bolts (MSS Type 24): For support of heavy pipes, NPS 1/2 to NPS 30 (DN 15 to DN 750).
13. Clips (MSS Type 26): For support of insulated pipes not subject to expansion or contraction.
14. Pipe Saddle Supports (MSS Type 36): For support of pipes, NPS 4 to NPS 36 (DN 100 to DN 900), with steel pipe base stanchion support and cast-iron floor flange.
15. Pipe Stanchion Saddles (MSS Type 37): For support of pipes, NPS 4 to NPS 36 (DN 100 to DN 900), with steel pipe base stanchion support and cast-iron floor flange and with U-bolt to retain pipe.
16. Adjustable, Pipe Saddle Supports (MSS Type 38): For stanchion-type support for pipes, NPS 2-1/2 to NPS 36 (DN 65 to DN 900), if vertical adjustment is required, with steel pipe base stanchion support and cast-iron floor flange.
17. Single Pipe Rolls (MSS Type 41): For suspension of pipes, NPS 1 to NPS 30 (DN 25 to DN 750), from 2 rods if longitudinal movement caused by expansion and contraction might occur.
18. Adjustable Roller Hangers (MSS Type 43): For suspension of pipes, NPS 2-1/2 to NPS 20 (DN 65 to DN 500), from single rod if horizontal movement caused by expansion and contraction might occur.
19. Complete Pipe Rolls (MSS Type 44): For support of pipes, NPS 2 to NPS 42 (DN 50 to DN 1050), if longitudinal movement caused by expansion and contraction might occur but vertical adjustment is not necessary.
20. Pipe Roll and Plate Units (MSS Type 45): For support of pipes, NPS 2 to NPS 24 (DN 50 to DN 600), if small horizontal movement caused by expansion and contraction might occur and vertical adjustment is not necessary.
21. Adjustable Pipe Roll and Base Units (MSS Type 46): For support of pipes, NPS 2 to NPS 30 (DN 50 to DN 750), if vertical and lateral adjustment during installation might be required in addition to expansion and contraction.

G. Vertical-Piping Clamps: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

1. Extension Pipe or Riser Clamps (MSS Type 8): For support of pipe risers, NPS 3/4 to NPS 20 (DN 20 to DN 500).
2. Carbon- or Alloy-Steel Riser Clamps (MSS Type 42): For support of pipe risers, NPS 3/4 to NPS 20 (DN 20 to DN 500), if longer ends are required for riser clamps.

H. Hanger-Rod Attachments: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

1. Steel Turnbuckles (MSS Type 13): For adjustment up to 6 inches (150 mm) for heavy loads.
2. Steel Clevises (MSS Type 14): For 120 to 450 deg F (49 to 232 deg C) piping installations.
3. Swivel Turnbuckles (MSS Type 15): For use with MSS Type 11, split pipe rings.
4. Malleable-Iron Sockets (MSS Type 16): For attaching hanger rods to various types of building attachments.
5. Steel Weldless Eye Nuts (MSS Type 17): For 120 to 450 deg F (49 to 232 deg C) piping installations.

I. Building Attachments: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

1. Steel or Malleable Concrete Inserts (MSS Type 18): For upper attachment to suspend pipe hangers from concrete ceiling.
2. Top-Beam C-Clamps (MSS Type 19): For use under roof installations with bar-joist construction to attach to top flange of structural shape.
3. Side-Beam or Channel Clamps (MSS Type 20): For attaching to bottom flange of beams, channels, or angles.
4. Center-Beam Clamps (MSS Type 21): For attaching to center of bottom flange of beams.
5. Welded Beam Attachments (MSS Type 22): For attaching to bottom of beams if loads are considerable and rod sizes are large.
6. C-Clamps (MSS Type 23): For structural shapes.
7. Top-Beam Clamps (MSS Type 25): For top of beams if hanger rod is required tangent to flange edge.
8. Side-Beam Clamps (MSS Type 27): For bottom of steel I-beams.
9. Steel-Beam Clamps with Eye Nuts (MSS Type 28): For attaching to bottom of steel I-beams for heavy loads.
10. Linked-Steel Clamps with Eye Nuts (MSS Type 29): For attaching to bottom of steel I-beams for heavy loads, with link extensions.
11. Malleable Beam Clamps with Extension Pieces (MSS Type 30): For attaching to structural steel.
12. Welded-Steel Brackets: For support of pipes from below, or for suspending from above by using clip and rod. Use one of the following for indicated loads:

    a. Light (MSS Type 31): 750 lb (340 kg).
    b. Medium (MSS Type 32): 1500 lb (680 kg).
    c. Heavy (MSS Type 33): 3000 lb (1360 kg).

13. Side-Beam Brackets (MSS Type 34): For sides of steel or wooden beams.
14. Plate Lugs (MSS Type 57): For attaching to steel beams if flexibility at beam is required.
15. Horizontal Travelers (MSS Type 58): For supporting piping systems subject to linear horizontal movement where headroom is limited.

J. Saddles and Shields: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

1. Steel Pipe-Covering Protection Saddles (MSS Type 39): To fill interior voids with insulation that matches adjoining insulation.
2. Protection Shields (MSS Type 40): Of length recommended in writing by manufacturer to prevent crushing insulation.
3. Thermal-Hanger Shield Inserts: For supporting insulated pipe.

K. Spring Hangers and Supports: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

1. Restraint-Control Devices (MSS Type 47): Where indicated to control piping movement.
2. Spring Cushions (MSS Type 48): For light loads if vertical movement does not exceed 1-1/4 inches (32 mm).
3. Spring-Cushion Roll Hangers (MSS Type 49): For equipping Type 41 roll hanger with springs.

4. Spring Sway Braces (MSS Type 50): To retard sway, shock, vibration, or thermal expansion in piping systems.
5. Variable-Spring Hangers (MSS Type 51): Preset to indicated load and limit variability factor to 25 percent to absorb expansion and contraction of piping system from hanger.
6. Variable-Spring Base Supports (MSS Type 52): Preset to indicated load and limit variability factor to 25 percent to absorb expansion and contraction of piping system from base support.
7. Variable-Spring Trapeze Hangers (MSS Type 53): Preset to indicated load and limit variability factor to 25 percent to absorb expansion and contraction of piping system from trapeze support.
8. Constant Supports: For critical piping stress and if necessary to avoid transfer of stress from one support to another support, critical terminal, or connected equipment. Include auxiliary stops for erection, hydrostatic test, and load-adjustment capability. These supports include the following types:

    a. Horizontal (MSS Type 54): Mounted horizontally.
    b. Vertical (MSS Type 55): Mounted vertically.
    c. Trapeze (MSS Type 56): Two vertical-type supports and one trapeze member.

L. Comply with MSS SP-69 for trapeze pipe hanger selections and applications that are not specified in piping system Sections.

M. Comply with MFMA-102 for metal framing system selections and applications that are not specified in piping system Sections.

N. Use powder-actuated fasteners or mechanical-expansion anchors instead of building attachments where required in concrete construction.

3.2 HANGER AND SUPPORT INSTALLATION

A. Steel Pipe Hanger Installation: Comply with MSS SP-69 and MSS SP-89. Install hangers, supports, clamps, and attachments as required to properly support piping from building structure.

B. Trapeze Pipe Hanger Installation: Comply with MSS SP-69 and MSS SP-89. Arrange for grouping of parallel runs of horizontal piping and support together on field-fabricated trapeze pipe hangers.

1. Pipes of Various Sizes: Support together and space trapezes for smallest pipe size or install intermediate supports for smaller diameter pipes as specified above for individual pipe hangers.
2. Field fabricate from ASTM A 36/A 36M, steel shapes selected for loads being supported. Weld steel according to AWS D1.1.

C. Fiberglass Pipe Hanger Installation: Comply with applicable portions of MSS SP-69 and MSS SP-89. Install hangers and attachments as required to properly support piping from building structure.

D. Metal Framing System Installation: Arrange for grouping of parallel runs of piping and support together on field-assembled metal framing systems.

E. Fiberglass Strut System Installation: Arrange for grouping of parallel runs of piping and support together on field-assembled fiberglass struts.

F. Thermal-Hanger Shield Installation: Install in pipe hanger or shield for insulated piping.

G. Fastener System Installation:

1. Install powder-actuated fasteners for use in lightweight concrete or concrete slabs less than 4 inches (100 mm) thick in concrete after concrete is placed and completely cured. Use operators that are licensed by powder-actuated tool manufacturer. Install fasteners according to powder-actuated tool manufacturer's operating manual.
2. Install mechanical-expansion anchors in concrete after concrete is placed and completely cured. Install fasteners according to manufacturer's written instructions.

H. Pipe Stand Installation:

1. Pipe Stand Types except Curb-Mounting Type: Assemble components and mount on smooth roof surface. Do not penetrate roof membrane.
2. Curb-Mounting-Type Pipe Stands: Assemble components or fabricate pipe stand and mount on permanent, stationary roof curb. Refer to Division 7 Section "Roof Accessories" for curbs.

I. Install hangers and supports complete with necessary inserts, bolts, rods, nuts, washers, and other accessories.

J. Equipment Support Installation: Fabricate from welded-structural-steel shapes.

K. Install hangers and supports to allow controlled thermal and seismic movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units.

L. Install lateral bracing with pipe hangers and supports to prevent swaying.

M. Install building attachments within concrete slabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, flanges, and strainers, **NPS 2-1/2 (DN 65)**] and larger and at changes in direction of piping. Install concrete inserts before concrete is placed; fasten inserts to forms and install reinforcing bars through openings at top of inserts.

N. Load Distribution: Install hangers and supports so piping live and dead loads and stresses from movement will not be transmitted to connected equipment.

O. Pipe Slopes: Install hangers and supports to provide indicated pipe slopes and so maximum pipe deflections allowed by ASME B31.1 (for power piping) and ASME B31.9 (for building services piping) are not exceeded.

P. Insulated Piping: Comply with the following:

1. Attach clamps and spacers to piping.

a. Piping Operating above Ambient Air Temperature: Clamp may project through insulation.

b. Piping Operating below Ambient Air Temperature: Use thermal-hanger shield insert with clamp sized to match OD of insert.
c. Do not exceed pipe stress limits according to ASME B31.1 for power piping and ASME B31.9 for building services piping.

2. Install MSS SP-58, Type 39, protection saddles if insulation without vapor barrier is indicated. Fill interior voids with insulation that matches adjoining insulation.

a. Option: Thermal-hanger shield inserts may be used. Include steel weight-distribution plate for pipe NPS 4 (DN 100) and larger if pipe is installed on rollers.

3. Install MSS SP-58, Type 40, protective shields on cold piping with vapor barrier. Shields shall span an arc of 180 degrees.

a. Option: Thermal-hanger shield inserts may be used. Include steel weight-distribution plate for pipe NPS 4 (DN 100) and larger if pipe is installed on rollers.

4. Shield Dimensions for Pipe: Not less than the following:

a. NPS 1/4 to NPS 3-1/2 (DN 8 to DN 90): 12 inches (305 mm) long and 0.048 inch (1.22 mm) thick.
b. NPS 4 (DN 100): 12 inches (305 mm) long and 0.06 inch (1.52 mm) thick.
c. NPS 5 and NPS 6 (DN 125 and DN 150): 18 inches (457 mm) long and 0.06 inch (1.52 mm) thick.
d. NPS 8 to NPS 14 (DN 200 to DN 350): 24 inches (610 mm) long and 0.075 inch (1.91 mm) thick.
e. NPS 16 to NPS 24 (DN 400 to DN 600): 24 inches (610 mm) long and 0.105 inch (2.67 mm) thick.

5. Pipes NPS 8 (DN 200) and Larger: Include wood inserts.
6. Insert Material: Length at least as long as protective shield.
7. Thermal-Hanger Shields: Install with insulation same thickness as piping insulation.

3.3 EQUIPMENT SUPPORTS

A. Fabricate structural-steel stands to suspend equipment from structure overhead or to support equipment above floor.

B. Grouting: Place grout under supports for equipment and make smooth bearing surface.

C. Provide lateral bracing, to prevent swaying, for equipment supports.

3.4 METAL FABRICATIONS

A. Cut, drill, and fit miscellaneous metal fabrications for trapeze pipe hangers and equipment supports.

B. Fit exposed connections together to form hairline joints. Field weld connections that cannot be shop welded because of shipping size limitations.

C. Field Welding: Comply with AWS D1.1 procedures for shielded metal arc welding, appearance and quality of welds, and methods used in correcting welding work, and with the following:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. Finish welds at exposed connections so no roughness shows after finishing and contours of welded surfaces match adjacent contours.

3.5 ADJUSTING

A. Hanger Adjustments: Adjust hangers to distribute loads equally on attachments and to achieve indicated slope of pipe.

B. Trim excess length of continuous-thread hanger and support rods to 1-1/2 inches.

3.6 PAINTING

A. Touch Up: Clean field welds and abraded areas of shop paint. Paint exposed areas immediately after erecting hangers and supports. Use same materials as used for shop painting. Comply with SSPC-PA 1 requirements for touching up field-painted surfaces.

1. Apply paint by brush or spray to provide minimum dry film thickness of 2.0 mils (0.05 mm).

B. Galvanized Surfaces: Clean welds, bolted connections, and abraded areas and apply galvanizing-repair paint to comply with ASTM A 780.

END OF SECTION 15062

SECTION 15077 – MECHANICAL IDENTIFICATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Equipment labels.
2. Pipe labels.
3. Duct labels.
4. Stencils.
5. Valve tags.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Samples: For color, letter style, and graphic representation required for each identification material and device.

C. Equipment Label Schedule: Include a listing of all equipment to be labeled with the proposed content for each label.

D. Valve numbering scheme.

E. Valve Schedules: For each piping system to include in maintenance manuals.

1.4 COORDINATION

A. Coordinate installation of identifying devices with completion of covering and painting of surfaces where devices are to be applied.

B. Coordinate installation of identifying devices with locations of access panels and doors.

C. Install identifying devices before installing acoustical ceilings and similar concealment.

PART 2 - PRODUCTS

2.1 EQUIPMENT LABELS

A. Metal Labels for Equipment:

1. Material and Thickness: Stainless steel, 0.025-inch (0.64-mm) minimum thickness, and having predrilled or stamped holes for attachment hardware.
2. Minimum Label Size: Length and width vary for required label content, but not less than 2-1/2 by 3/4 inch (64 by 19 mm).
3. Minimum Letter Size: 1/4 inch (6.4 mm) for name of units if viewing distance is less than 24 inches (600 mm), 1/2 inch (13 mm) for viewing distances up to 72 inches (1830 mm), and proportionately larger lettering for greater viewing distances. Include secondary lettering two-thirds to three-fourths the size of principal lettering.
4. Fasteners: Stainless-steel rivets or self-tapping screws.
5. Adhesive: Contact-type permanent adhesive, compatible with label and with substrate.

B. Plastic Labels for Equipment:

1. Material and Thickness: Multilayer, multicolor, plastic labels for mechanical engraving, 1/8 inch (3.2 mm) thick, and having predrilled holes for attachment hardware.
2. Letter Color: Black.
3. Background Color: White.
4. Maximum Temperature: Able to withstand temperatures up to 160 deg F (71 deg C).
5. Minimum Label Size: Length and width vary for required label content, but not less than 2-1/2 by 3/4 inch (64 by 19 mm).
6. Minimum Letter Size: 1/4 inch (6.4 mm) for name of units if viewing distance is less than 24 inches (600 mm), 1/2 inch (13 mm) for viewing distances up to 72 inches (1830 mm), and proportionately larger lettering for greater viewing distances. Include secondary lettering two-thirds to three-fourths the size of principal lettering.
7. Fasteners: Stainless-steel rivets or self-tapping screws.
8. Adhesive: Contact-type permanent adhesive, compatible with label and with substrate.

C. Label Content: Include equipment's Drawing designation or unique equipment number, Drawing numbers where equipment is indicated (plans, details, and schedules), plus the Specification Section number and title where equipment is specified.

D. Equipment Label Schedule: For each item of equipment to be labeled, on 8-1/2-by-11-inch (A4) bond paper. Tabulate equipment identification number and identify Drawing numbers where equipment is indicated (plans, details, and schedules), plus the Specification Section number and title where equipment is specified. Equipment schedule shall be included in operation and maintenance data.

2.2 PIPE LABELS

A. General Requirements for Manufactured Pipe Labels: Preprinted, color-coded, with lettering indicating service, and showing flow direction.

B. Pretensioned Pipe Labels: Precoiled, semirigid plastic formed to partially cover circumference of pipe and to attach to pipe without fasteners or adhesive.

C. Self-Adhesive Pipe Labels: Printed plastic with contact-type, permanent-adhesive backing.

D. Pipe Label Contents: Include identification of piping service using same designations or abbreviations as used on Drawings, pipe size, and an arrow indicating flow direction.

1. Flow-Direction Arrows: Integral with piping system service lettering to accommodate both directions, or as separate unit on each pipe label to indicate flow direction.
2. Lettering Size: At least 1-1/2 inches (38 mm) high.

2.3 DUCT LABELS

A. Material and Thickness: Multilayer, multicolor, plastic labels for mechanical engraving, 1/16 inch (1.6 mm) thick, and having predrilled holes for attachment hardware.

B. Letter Color: Black.

C. Background Color: White.

D. Maximum Temperature: Able to withstand temperatures up to 160 deg F (71 deg C).

E. Minimum Label Size: Length and width vary for required label content, but not less than 2-1/2 by 3/4 inch (64 by 19 mm).

F. Minimum Letter Size: 1/4 inch (6.4 mm) for name of units if viewing distance is less than 24 inches (600 mm), 1/2 inch (13 mm) for viewing distances up to 72 inches (1830 mm), and proportionately larger lettering for greater viewing distances. Include secondary lettering two-thirds to three-fourths the size of principal lettering.

G. Fasteners: Stainless-steel rivets or self-tapping screws.

H. Adhesive: Contact-type permanent adhesive, compatible with label and with substrate.

I. Duct Label Contents: Include identification of duct service using same designations or abbreviations as used on Drawings, duct size, and an arrow indicating flow direction.

1. Flow-Direction Arrows: Integral with duct system service lettering to accommodate both directions, or as separate unit on each duct label to indicate flow direction.
2. Lettering Size: At least 1-1/2 inches (38 mm) high.

2.4 STENCILS

A. Stencils: Prepared with letter sizes according to ASME A13.1 for piping; minimum letter height of 1-1/4 inches (32 mm) for ducts; and minimum letter height of 3/4 inch (19 mm) for access panel and door labels, equipment labels, and similar operational instructions.

1. Stencil Material: Fiberboard or metal.

2. Stencil Paint: Exterior, gloss, acrylic enamel black unless otherwise indicated. Paint may be in pressurized spray-can form.
3. Identification Paint: Exterior, acrylic enamel in colors according to ASME A13.1 unless otherwise indicated.

2.5 VALVE TAGS

A. Valve Tags: Stamped or engraved with 1/4-inch (6.4-mm) letters for piping system abbreviation and 1/2-inch (13-mm) numbers.

1. Tag Material: Stainless steel, 0.025-inch (0.64-mm) minimum thickness, and having predrilled or stamped holes for attachment hardware.
2. Fasteners: Brass wire-link or beaded chain; or S-hook.

B. Valve Schedules: For each piping system, on 8-1/2-by-11-inch (A4) bond paper. Tabulate valve number, piping system, system abbreviation (as shown on valve tag), location of valve (room or space), normal-operating position (open, closed, or modulating), and variations for identification. Mark valves for emergency shutoff and similar special uses.

1. Valve-tag schedule shall be included in operation and maintenance data.

PART 3 - EXECUTION

3.1 PREPARATION

A. Clean piping and equipment surfaces of substances that could impair bond of identification devices, including dirt, oil, grease, release agents, and incompatible primers, paints, and encapsulants.

3.2 EQUIPMENT LABEL INSTALLATION

A. Install or permanently fasten labels on each major item of mechanical equipment.

B. Locate equipment labels where accessible and visible.

3.3 PIPE LABEL INSTALLATION

A. Locate pipe labels where piping is exposed or above accessible ceilings in finished spaces; machine rooms; accessible maintenance spaces such as shafts, tunnels, and plenums; and exterior exposed locations as follows:

1. Near each valve and control device.
2. Near each branch connection, excluding short takeoffs for fixtures and terminal units. Where flow pattern is not obvious, mark each pipe at branch.
3. Near penetrations through walls, floors, ceilings, and inaccessible enclosures.
4. At access doors, manholes, and similar access points that permit view of concealed piping.

5. Near major equipment items and other points of origination and termination.
6. Spaced at maximum intervals of 50 feet (15 m) along each run. Reduce intervals to 25 feet (7.6 m) in areas of congested piping and equipment.
7. On piping above removable acoustical ceilings. Omit intermediately spaced labels.

3.4 DUCT LABEL INSTALLATION

A. Install self-adhesive duct labels with permanent adhesive on air ducts in the following color codes:

B. Stenciled Duct Label Option: Stenciled labels, showing service and flow direction, may be provided instead of plastic-laminated duct labels, at Installer's option, if lettering larger than 1 inch (25 mm) high is needed for proper identification because of distance from normal location of required identification.

C. Locate labels near points where ducts enter into concealed spaces and at maximum intervals of 50 feet (15 m) in each space where ducts are exposed or concealed by removable ceiling system.

3.5 VALVE-TAG INSTALLATION

A. Install tags on valves and control devices in piping systems, except check valves; valves within factory-fabricated equipment units; shutoff valves; faucets; convenience and lawn-watering hose connections; and HVAC terminal devices and similar roughing-in connections of end-use fixtures and units. List tagged valves in a valve schedule.

B. Valve-Tag Application Schedule: Tag valves according to size, shape, and color scheme and with captions similar to those indicated in the following subparagraphs:

END OF SECTION 15077

SECTION 15080 - MECHANICAL INSULATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes mechanical insulation for duct, equipment, and pipe, including the following:

1. Insulation Materials:

    a. Phenolic Foam.
    b. Cellular glass.
    c. Flexible elastomeric.
    d. Mineral fiber.

2. Fire-rated insulation systems.
3. Insulating cements.
4. Adhesives.
5. Mastics.
6. Lagging adhesives.
7. Sealants.
8. Factory-applied jackets.
9. Field-applied fabric-reinforcing mesh.
10. Field-applied cloths.
11. Field-applied jackets.
12. Tapes.
13. Securements.
14. Corner angles.

B. Related Sections include the following:

1. Division 2 Section "Hydronic Distribution" for loose-fill pipe insulation in underground piping outside the building.

1.3 DEFINITIONS

A. ASJ: All-service jacket.

B. FSK: Foil, scrim, kraft paper.

C. FSP: Foil, scrim, polyethylene.

D. PVDC: Polyvinylidene chloride.

E. SSL: Self-sealing lap.

1.4 SUBMITTALS

A. Product Data: For each type of product indicated, identify thermal conductivity, thickness, and jackets (both factory and field applied, if any).

B. Shop Drawings: Show details for the following:

1. Application of protective shields, saddles, and inserts at hangers for each type of insulation and hanger.
2. Insulation application at pipe expansion joints for each type of insulation.
3. Insulation application at elbows, fittings, flanges, valves, and specialties for each type of insulation.
4. Removable insulation at piping specialties, equipment connections, and access panels.
5. Application of field-applied jackets.
6. Application at linkages of control devices.
7. Field application for each equipment type.

C. Installer Certificates: Signed by Contractor certifying that installers comply with requirements.

D. Material Test Reports: From a qualified testing agency acceptable to authorities having jurisdiction indicating, interpreting, and certifying test results for compliance of insulation materials, sealers, attachments, cements, and jackets, with requirements indicated. Include dates of tests and test methods employed.

E. Field quality-control inspection reports.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Skilled mechanics who have successfully completed an apprenticeship program or another craft training program certified by the Department of Labor, Bureau of Apprenticeship and Training.

B. Fire-Test-Response Characteristics: Insulation and related materials shall have fire-test-response characteristics indicated, as determined by testing identical products per ASTM E 84, by a testing and inspecting agency acceptable to authorities having jurisdiction. Factory label insulation and jacket materials and adhesive, mastic, and cement material containers, with appropriate markings of applicable testing and inspecting agency.

1. Insulation Installed Indoors: Flame-spread index of 25 or less, and smoke-developed index of 50 or less.
2. Insulation Installed Outdoors: Flame-spread index of 75 or less, and smoke-developed index of 150 or less.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Packaging: Insulation material containers shall be marked by manufacturer with appropriate ASTM standard designation, type and grade, and maximum use temperature.

1.7 COORDINATION

A. Coordinate size and location of supports, hangers, and insulation shields specified in Division 15 Section "Hangers and Supports."

B. Coordinate clearance requirements with piping Installer for piping insulation application, duct Installer for duct insulation application, and equipment Installer for equipment insulation application. Before preparing piping and ductwork Shop Drawings, establish and maintain clearance requirements for installation of insulation and field-applied jackets and finishes and for space required for maintenance.

1.8 SCHEDULING

A. Schedule insulation application after pressure testing systems. Insulation application may begin on segments that have satisfactory test results.

B. Complete installation and concealment of plastic materials as rapidly as possible in each area of construction.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:

1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, products specified.
2. Products: Subject to compliance with requirements, provide one of the products specified.
3. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, manufacturers specified.
4. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.2 INSULATION MATERIALS

A. Refer to Part 3 schedule articles for requirements about where insulating materials shall be applied.

B. Products shall not contain asbestos, lead, mercury, or mercury compounds.

C. Products that come in contact with stainless steel shall have a leachable chloride content of less than 50 ppm when tested according to ASTM C 871.

D. Insulation materials for use on austenitic stainless steel shall be qualified as acceptable according to ASTM C 795.

E. Foam insulation materials shall not use CFC or HCFC blowing agents in the manufacturing process.

F. Cellular Glass: Inorganic, incombustible, foamed or cellulated glass with annealed, rigid, hermetically sealed cells. Factory-applied jacket requirements are specified in Part 2 "Factory-Applied Jackets" Article.

1. Available Products:

    a. ACS.
    b. Pittsburgh Corning Corporation; Foamglas Super K.
2. Preformed Pipe Insulation without Jacket: Comply with ASTM C 552, Type II, Class 1.
3. Preformed Pipe Insulation with Factory-Applied ASJ: Comply with ASTM C 552, Type II, Class 2.
4. Factory fabricate shapes according to ASTM C 450 and ASTM C 585.

G. Flexible Elastomeric: Closed-cell, sponge- or expanded-rubber materials. Comply with ASTM C 534, Type I for tubular materials and Type II for sheet materials.

1. Available Products:

    a. Aeroflex USA Inc.; Aerocel.
    b. Armacell LLC; AP Armaflex.
    c. RBX Corporation; Insul-Sheet 1800 and Insul-Tube 180.

H. Mineral-Fiber Blanket Insulation: Mineral or glass fibers bonded with a thermosetting resin. Comply with ASTM C 553, Type II and ASTM C 1290, Type III with factory-applied FSK jacket. Factory-applied jacket requirements are specified in Part 2 "Factory-Applied Jackets" Article.

1. Available Products:

    a. CertainTeed Corp.; Duct Wrap.
    b. Johns Manville; Microlite.
    c. Knauf Insulation; Duct Wrap.
    d. Owens Corning; All-Service Duct Wrap.

I. Mineral-Fiber Board Insulation: Mineral or glass fibers bonded with a thermosetting resin. Comply with ASTM C 612, Type IA or Type IB. For equipment applications, provide insulation with factory-applied ASJ. Factory-applied jacket requirements are specified in Part 2 "Factory-Applied Jackets" Article.

1. Available Products:

    a. CertainTeed Corp.; Commercial Board.

b. Johns Manville; 800 Series Spin-Glas.
c. Knauf Insulation; Insulation Board.
d. Owens Corning; Fiberglas 700 Series.

J. Mineral-Fiber, Preformed Pipe Insulation:

1. Available Products:
   a. Johns Manville; Micro-Lok.
   b. Knauf Insulation; 1000(Pipe Insulation.
   c. Owens Corning; Fiberglas Pipe Insulation.

2. Type I, 850 deg F (454 deg C) Materials: Mineral or glass fibers bonded with a thermosetting resin. Comply with ASTM C 547, Type I, Grade A, with factory-applied ASJ. Factory-applied jacket requirements are specified in Part 2 "Factory-Applied Jackets" Article.

2.3 FIRE-RATED INSULATION SYSTEMS

A. Fire-Rated Blanket: High-temperature, flexible, blanket insulation with FSK jacket that is UL tested and certified to provide a 1 or 2-hour fire rating, as required.

1. Products:

   a. CertainTeed Corp.; FlameChek.
   b. Johns Manville; Firetemp Wrap.
   c. Thermal Ceramics; FireMaster Duct Wrap.
   d. 3M; Fire Barrier Wrap Products.

2.4 INSULATING CEMENTS

A. Mineral-Fiber Insulating Cement: Comply with ASTM C 195.

B. Expanded or Exfoliated Vermiculite Insulating Cement: Comply with ASTM C 196.

C. Mineral-Fiber, Hydraulic-Setting Insulating and Finishing Cement: Comply with ASTM C 449/C 449M.

2.5 ADHESIVES

A. Materials shall be compatible with insulation materials, jackets, and substrates and for bonding insulation to itself and to surfaces to be insulated, unless otherwise indicated.

B. Cellular-Glass Adhesive: Solvent-based resin adhesive, with a service temperature range of minus 75 to plus 300 deg F (minus 59 to plus 149 deg C).

C. Flexible Elastomeric Adhesive: Comply with MIL-A-24179A, Type II, Class I.

D. Mineral-Fiber Adhesive: Comply with MIL-A-3316C, Class 2, Grade A.

E. ASJ Adhesive, and FSK Jacket Adhesive: Comply with MIL-A-3316C, Class 2, Grade A for bonding insulation jacket lap seams and joints.

F. PVC Jacket Adhesive: Compatible with PVC jacket.

1. Products:

2.6 MASTICS

A. Materials shall be compatible with insulation materials, jackets, and substrates; comply with MIL-C-19565C, Type II.

B. Vapor-Barrier Mastic: Solvent based; suitable for indoor use on below ambient services.

1. Products:

a. Childers Products, Division of ITW; CP-30.
b. Foster Products Corporation, H. B. Fuller Company; 30-35.
c. ITW TACC, Division of Illinois Tool Works; CB-25.
d. Marathon Industries, Inc.; 501.
e. Mon-Eco Industries, Inc.; 55-10.

2. Water-Vapor Permeance: ASTM F 1249, 0.05 perm (0.03 metric perm) at 35-mil (0.9-mm) dry film thickness.
3. Service Temperature Range: 0 to 180 deg F (Minus 18 to plus 82 deg C).
4. Solids Content: ASTM D 1644, 44 percent by volume and 62 percent by weight.
5. Color: White.

2.7 LAGGING ADHESIVES

A. Description: Comply with MIL-A-3316C Class I, Grade A and shall be compatible with insulation materials, jackets, and substrates.

1. Fire-resistant, water-based lagging adhesive and coating for use indoors to adhere fire-resistant lagging cloths over duct, equipment, and pipe insulation.
2. Service Temperature Range: Minus 50 to plus 180 deg F (Minus 46 to plus 82 deg C).
3. Color: White.

2.8 SEALANTS

A. Joint Sealants:

1. Joint Sealants for Cellular-Glass, Products:

a. Childers Products, Division of ITW; CP-76.
b. Pittsburgh Corning Corporation; Pittseal 444.

2. Materials shall be compatible with insulation materials, jackets, and substrates.
3. Permanently flexible, elastomeric sealant.

4. Service Temperature Range: Minus 100 to plus 300 deg F (Minus 73 to plus 149 deg C).
5. Color: White or gray.

B. FSK and Metal Jacket Flashing Sealants:

1. Materials shall be compatible with insulation materials, jackets, and substrates.
2. Fire- and water-resistant, flexible, elastomeric sealant.
3. Service Temperature Range: Minus 40 to plus 250 deg F (Minus 40 to plus 121 deg C).
4. Color: Aluminum.

C. ASJ Flashing Sealants, and Vinyl, PVDC, and PVC Jacket Flashing Sealants:

1. Materials shall be compatible with insulation materials, jackets, and substrates.
2. Fire- and water-resistant, flexible, elastomeric sealant.
3. Service Temperature Range: Minus 40 to plus 250 deg F (Minus 40 to plus 121 deg C).
4. Color: White.

2.9 FACTORY-APPLIED JACKETS

A. Insulation system schedules indicate factory-applied jackets on various applications. When factory-applied jackets are indicated, comply with the following:

1. ASJ: White, kraft-paper, fiberglass-reinforced scrim with aluminum-foil backing; complying with ASTM C 1136, Type I.
2. ASJ-SSL: ASJ with self-sealing, pressure-sensitive, acrylic-based adhesive covered by a removable protective strip; complying with ASTM C 1136, Type I.
3. FSK Jacket: Aluminum-foil, fiberglass-reinforced scrim with kraft-paper backing; complying with ASTM C 1136, Type II.
4. FSP Jacket: Aluminum-foil, fiberglass-reinforced scrim with polyethylene backing; complying with ASTM C 1136, Type II.

2.10 FIELD-APPLIED FABRIC-REINFORCING MESH

A. Woven Glass-Fiber Fabric for Pipe Insulation: Approximately 2 oz./sq. yd. (68 g/sq. m) with a thread count of 10 strands by 10 strands/sq. inch (4 strands by 4 strands/sq. mm) for covering pipe and pipe fittings.

B. Woven Glass-Fiber Fabric for Duct and Equipment Insulation: Approximately 6 oz./sq. yd. (203 g/sq. m) with a thread count of 5 strands by 5 strands/sq. inch (2 strands by 2 strands/sq. mm) for covering equipment.

2.11 FIELD-APPLIED CLOTHS

A. Woven Glass-Fiber Fabric: Comply with MIL-C-20079H, Type I, plain weave, and presized a minimum of 8 oz./sq. yd. (271 g/sq. m).

2.12 FIELD-APPLIED JACKETS

A. Field-applied jackets shall comply with ASTM C 921, Type I, unless otherwise indicated.

B. FSK Jacket: Aluminum-foil-face, fiberglass-reinforced scrim with kraft-paper backing.

C. PVC Jacket: High-impact-resistant, UV-resistant PVC complying with ASTM D 1784, Class 16354-C; thickness 20 mil; roll stock ready for shop or field cutting and forming. Thickness is indicated in field-applied jacket schedules.

1. Adhesive: As recommended by jacket material manufacturer.
2. Color: White.
3. Factory-fabricated fitting covers to match jacket if available; otherwise, field fabricate.

    a. Shapes: 45- and 90-degree, short- and long-radius elbows, tees, valves, flanges, unions, reducers, end caps, soil-pipe hubs, traps, mechanical joints, and P-trap and supply covers for lavatories.

4. Factory-fabricated tank heads and tank side panels.

D. Metal Jacket:

1. Aluminum Jacket: Comply with ASTM B 209 (ASTM B 209M), Alloy 3003, 3005, 3105 or 5005, Temper H-14.

    a. Sheet and roll stock ready for shop or field sizing.
    b. Thickness: 0.020” Smooth.
    c. Moisture Barrier for Indoor Applications: 1-mil- thick, heat-bonded polyethylene and kraft paper.
    d. Moisture Barrier for Outdoor Applications: 3-mil- thick, heat-bonded polyethylene and kraft paper.
    e. Factory-Fabricated Fitting Covers:

        1) Same material, finish, and thickness as jacket.
        2) Preformed 2-piece or gore, 45- and 90-degree, short- and long-radius elbows.
        3) Tee covers.
        4) Flange and union covers.
        5) End caps.
        6) Beveled collars.
        7) Valve covers.
        8) Field fabricate fitting covers only if factory-fabricated fitting covers are not available.

2.13 TAPES

A. ASJ Tape: White vapor-retarder tape matching factory-applied jacket with acrylic adhesive, complying with ASTM C 1136 and UL listed.

1. Width: 3 inches.

2. Thickness: 11.5 mils.
3. Adhesion: 90 ounces force/inch in width.
4. Elongation: 2 percent.
5. Tensile Strength: 40 lbf/inch in width.
6. ASJ Tape Disks and Squares: Precut disks or squares of ASJ tape.

B. FSK Tape: Foil-face, vapor-retarder tape matching factory-applied jacket with acrylic adhesive; complying with ASTM C 1136 and UL listed.

1. Width: 3 inches.
2. Thickness: 6.5 mils.
3. Adhesion: 90 ounces force/inch in width.
4. Elongation: 2 percent.
5. Tensile Strength: 40 lbf/inch in width.
6. FSK Tape Disks and Squares: Precut disks or squares of FSK tape.

C. PVC Tape: White vapor-retarder tape matching field-applied PVC jacket with acrylic adhesive. Suitable for indoor and outdoor applications.

1. Width: 2 inches.
2. Thickness: 6 mils.
3. Adhesion: 64 ounces force/inch in width.
4. Elongation: 500 percent.
5. Tensile Strength: 18 lbf/inch in width.

D. Aluminum-Foil Tape: Vapor-retarder tape with acrylic adhesive and UL listed.

1. Width: 2 inches.
2. Thickness: 3.7 mils.
3. Adhesion: 100 ounces force/inch in width.
4. Elongation: 5 percent.
5. Tensile Strength: 34 lbf/inch in width.

2.14 SECUREMENTS

A. Bands:
1. Aluminum: ASTM B 209, Alloy 3003, 3005, 3105, or 5005; Temper H-14, 0.020 inch thick, 3/4 inch wide with wing or closed seal.
2. Springs: Twin spring set constructed of stainless steel with ends flat and slotted to accept metal bands. Spring size determined by manufacturer for application.

B. Insulation Pins and Hangers:

1. Capacitor-Discharge-Weld Pins: Copper- or zinc-coated steel pin, fully annealed for capacitor-discharge welding, 0.106-inch- diameter shank, length to suit depth of insulation indicated.

2. Insulation-Retaining Washers: Self-locking washers formed from 0.016-inch- thick, galvanized-steel sheet, with beveled edge sized as required to hold insulation securely in place but not less than 1-1/2 inches in diameter.

a. Protect ends with capped self-locking washers incorporating a spring steel insert to ensure permanent retention of cap in exposed locations.

C. Staples: Outward-clinching insulation staples, nominal 3/4-inch- wide, stainless steel or Monel.

D. Wire: 0.080-inch nickel-copper alloy.

2.15 CORNER ANGLES

A. PVC Corner Angles: 30 mils thick, minimum 1 by 1 inch, PVC according to ASTM D 1784, Class 16354-C. White or color-coded to match adjacent surface.

B. Aluminum Corner Angles: 0.040 inch thick, minimum 1 by 1 inch, aluminum according to ASTM B 209, Alloy 3003, 3005, 3105 or 5005; Temper H-14.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions for compliance with requirements for installation and other conditions affecting performance of insulation application.

1. Verify that systems and equipment to be insulated have been tested and are free of defects.
2. Verify that surfaces to be insulated are clean and dry.
3. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Surface Preparation: Clean and dry surfaces to receive insulation. Remove materials that will adversely affect insulation application.

B. Mix insulating cements with clean potable water; if insulating cements are to be in contact with stainless-steel surfaces, use demineralized water.

3.3 COMMON INSTALLATION REQUIREMENTS

A. Install insulation materials, accessories, and finishes with smooth, straight, and even surfaces; free of voids throughout the length of equipment, ducts and fittings, and piping including fittings, valves, and specialties.

B. Install insulation materials, forms, vapor barriers or retarders, jackets, and thicknesses required for each item of equipment, duct system, and pipe system as specified in insulation system schedules.

C. Install accessories compatible with insulation materials and suitable for the service. Install accessories that do not corrode, soften, or otherwise attack insulation or jacket in either wet or dry state.

D. Install insulation with longitudinal seams at top and bottom of horizontal runs.

E. Install multiple layers of insulation with longitudinal and end seams staggered.

F. Do not weld brackets, clips, or other attachment devices to piping, fittings, and specialties.

G. Keep insulation materials dry during application and finishing.

H. Install insulation with tight longitudinal seams and end joints. Bond seams and joints with adhesive recommended by insulation material manufacturer.

I. Install insulation with least number of joints practical.

J. Where vapor barrier is indicated, seal joints, seams, and penetrations in insulation at hangers, supports, anchors, and other projections with vapor-barrier mastic.

1. Install insulation continuously through hangers and around anchor attachments.
2. For insulation application where vapor barriers are indicated, extend insulation on anchor legs from point of attachment to supported item to point of attachment to structure. Taper and seal ends at attachment to structure with vapor-barrier mastic.
3. Install insert materials and install insulation to tightly join the insert. Seal insulation to insulation inserts with adhesive or sealing compound recommended by insulation material manufacturer.
4. Cover inserts with jacket material matching adjacent pipe insulation. Install shields over jacket, arranged to protect jacket from tear or puncture by hanger, support, and shield.

K. Apply adhesives, mastics, and sealants at manufacturer's recommended coverage rate and wet and dry film thicknesses.

L. Install insulation with factory-applied jackets as follows:

1. Draw jacket tight and smooth.
2. Cover circumferential joints with 3-inch- wide strips, of same material as insulation jacket. Secure strips with adhesive and outward clinching staples along both edges of strip, spaced 4 inches o.c.
3. Overlap jacket longitudinal seams at least 1-1/2 inches. Install insulation with longitudinal seams at bottom of pipe. Clean and dry surface to receive self-sealing lap. Staple laps with outward clinching staples along edge at 4 inches o.c.

    a. For below ambient services, apply vapor-barrier mastic over staples.

4. Cover joints and seams with tape as recommended by insulation material manufacturer to maintain vapor seal.
5. Where vapor barriers are indicated, apply vapor-barrier mastic on seams and joints and at ends adjacent to duct and pipe flanges and fittings.

M. Cut insulation in a manner to avoid compressing insulation more than 75 percent of its nominal thickness.

N. Finish installation with systems at operating conditions. Repair joint separations and cracking due to thermal movement.

O. Repair damaged insulation facings by applying same facing material over damaged areas. Extend patches at least 4 inches beyond damaged areas. Adhere, staple, and seal patches similar to butt joints.

P. For above ambient services, do not install insulation to the following:

1. Vibration-control devices.
2. Testing agency labels and stamps.
3. Nameplates and data plates.
4. Manholes.
5. Handholes.
6. Cleanouts.

3.4 PENETRATIONS

A. Insulation Installation at Roof Penetrations: Install insulation continuously through roof penetrations.

1. Seal penetrations with flashing sealant.
2. For applications requiring only indoor insulation, terminate insulation above roof surface and seal with joint sealant. For applications requiring indoor and outdoor insulation, install insulation for outdoor applications tightly joined to indoor insulation ends. Seal joint with joint sealant.
3. Extend jacket of outdoor insulation outside roof flashing at least 2 inches below top of roof flashing.
4. Seal jacket to roof flashing with flashing sealant.

B. Insulation Installation at Below-Grade Exterior Wall Penetrations: Terminate insulation flush with sleeve seal. Seal terminations with flashing sealant.

C. Insulation Installation at Aboveground Exterior Wall Penetrations: Install insulation continuously through wall penetrations.

1. Seal penetrations with flashing sealant.
2. For applications requiring only indoor insulation, terminate insulation inside wall surface and seal with joint sealant. For applications requiring indoor and outdoor insulation, install insulation for outdoor applications tightly joined to indoor insulation ends. Seal joint with joint sealant.
3. Extend jacket of outdoor insulation outside wall flashing and overlap wall flashing at least 2 inches.
4. Seal jacket to wall flashing with flashing sealant.

D. Insulation Installation at Interior Wall and Partition Penetrations (That Are Not Fire Rated): Install insulation continuously through walls and partitions.

E. Insulation Installation at Fire-Rated Wall and Partition Penetrations: Install insulation continuously through penetrations of fire-rated walls and partitions. Terminate insulation at fire damper sleeves for fire-rated wall and partition penetrations. Externally insulate damper sleeves to match adjacent insulation and overlap duct insulation at least 2 inches.

1. Firestopping and fire-resistive joint sealers are specified in Division 7 Section "Through-Penetration Firestop Systems."

F. Insulation Installation at Floor Penetrations:

1. Duct: Install insulation continuously through floor penetrations that are not fire rated. For penetrations through fire-rated assemblies, terminate insulation at fire damper sleeves and externally insulate damper sleeve beyond floor to match adjacent duct insulation. Overlap damper sleeve and duct insulation at least 2 inches.
2. Pipe: Install insulation continuously through floor penetrations.
3. Seal penetrations through fire-rated assemblies according to Division 7 Section "Through-Penetration Firestop Systems."

3.5 DUCT AND PLENUM INSULATION INSTALLATION

A. Blanket Insulation Installation on Ducts and Plenums: Secure with adhesive and insulation pins.

1. Apply adhesives according to manufacturer's recommended coverage rates per unit area, for 50 percent coverage of duct and plenum surfaces.
2. Apply adhesive to entire circumference of ducts and to all surfaces of fittings and transitions.
3. Install capacitor-discharge-weld pins and speed washers on sides and bottom of horizontal ducts and sides of vertical ducts as follows:

    a. On duct sides with dimensions 18 inches and smaller, place pins along longitudinal centerline of duct. Space 3 inches maximum from insulation end joints, and 16 inches o.c.
    b. On duct sides with dimensions larger than 18 inches, place pins 16 inches o.c. each way, and 3 inches maximum from insulation joints. Install additional pins to hold insulation tightly against surface at cross bracing.

3.6 EQUIPMENT, TANK, AND VESSEL INSULATION INSTALLATION

A. Secure insulation with adhesive and anchor pins and speed washers.

1. Apply adhesives according to manufacturer's recommended coverage rates per unit area, for 50 percent coverage of tank and vessel surfaces.
2. Groove and score insulation materials to fit as closely as possible to equipment, including contours. Bevel insulation edges for cylindrical surfaces for tight joints. Stagger end joints.
3. Protect exposed corners with secured corner angles.
4. Install adhesively attached or self-sticking insulation hangers and speed washers on sides of tanks and vessels as follows:

a. Do not weld anchor pins to ASME-labeled pressure vessels.
b. Select insulation hangers and adhesive that are compatible with service temperature and with substrate.
c. On tanks and vessels, maximum anchor-pin spacing is 3 inches from insulation end joints, and 16 inches o.c. in both directions.
d. Do not overcompress insulation during installation.
e. Cut and miter insulation segments to fit curved sides and domed heads of tanks and vessels.
f. Impale insulation over anchor pins and attach speed washers.
g. Cut excess portion of pins extending beyond speed washers or bend parallel with insulation surface. Cover exposed pins and washers with tape matching insulation facing.

5. Secure each layer of insulation with stainless-steel or aluminum bands. Select band material compatible with insulation materials.
6. Where insulation hangers on equipment and vessels are not permitted or practical and where insulation support rings are not provided, install a girdle network for securing insulation. Stretch prestressed aircraft cable around the diameter of vessel and make taut with clamps, turnbuckles, or breather springs. Place one circumferential girdle around equipment approximately 6 inches from each end. Install wire or cable between two circumferential girdles 12 inches o.c. Install a wire ring around each end and around outer periphery of center openings, and stretch prestressed aircraft cable radially from the wire ring to nearest circumferential girdle. Install additional circumferential girdles along the body of equipment or tank at a minimum spacing of 48 inches o.c. Use this network for securing insulation with tie wire or bands.
7. Stagger joints between insulation layers at least 3 inches.
8. Install insulation in removable segments on equipment access doors, manholes, handholes, and other elements that require frequent removal for service and inspection.
9. Bevel and seal insulation ends around manholes, handholes, ASME stamps, and nameplates.
10. For equipment with surface temperatures below ambient, apply mastic to open ends, joints, seams, breaks, and punctures in insulation.

B. Flexible Elastomeric Thermal Insulation Installation for Tanks and Vessels: Install insulation over entire surface of tanks and vessels.

1. Apply 100 percent coverage of adhesive to surface with manufacturer's recommended adhesive.
2. Seal longitudinal seams and end joints.

C. Insulation Installation on Pumps:

1. Fabricate metal boxes lined with insulation. Fit boxes around pumps and coincide box joints with splits in pump casings. Fabricate joints with outward bolted flanges. Bolt flanges on 6-inch centers, starting at corners. Install 3/8-inch- diameter fasteners with wing nuts. Alternatively, secure the box sections together using a latching mechanism.
2. Fabricate boxes from galvanized steel, at least 0.040 inch thick.
3. For below ambient services, install a vapor barrier at seams, joints, and penetrations. Seal between flanges with replaceable gasket material to form a vapor barrier.

3.7 GENERAL PIPE INSULATION INSTALLATION

A. Requirements in this Article generally apply to all insulation materials except where more specific requirements are specified in various pipe insulation material installation articles.

B. Insulation Installation on Fittings, Valves, Strainers, Flanges, and Unions:

1. Install insulation over fittings, valves, strainers, flanges, unions, and other specialties with continuous thermal and vapor-retarder integrity, unless otherwise indicated.
2. Insulate pipe elbows using preformed fitting insulation or mitered fittings made from same material and density as adjacent pipe insulation. Each piece shall be butted tightly against adjoining piece and bonded with adhesive. Fill joints, seams, voids, and irregular surfaces with insulating cement finished to a smooth, hard, and uniform contour that is uniform with adjoining pipe insulation.
3. Insulate tee fittings with preformed fitting insulation or sectional pipe insulation of same material and thickness as used for adjacent pipe. Cut sectional pipe insulation to fit. Butt each section closely to the next and hold in place with tie wire. Bond pieces with adhesive.
4. Insulate valves using preformed fitting insulation or sectional pipe insulation of same material, density, and thickness as used for adjacent pipe. Overlap adjoining pipe insulation by not less than two times the thickness of pipe insulation, or one pipe diameter, whichever is thicker. For valves, insulate up to and including the bonnets, valve stuffing-box studs, bolts, and nuts. Fill joints, seams, and irregular surfaces with insulating cement.
5. Insulate strainers using preformed fitting insulation or sectional pipe insulation of same material, density, and thickness as used for adjacent pipe. Overlap adjoining pipe insulation by not less than two times the thickness of pipe insulation, or one pipe diameter, whichever is thicker. Fill joints, seams, and irregular surfaces with insulating cement. Insulate strainers so strainer basket flange or plug can be easily removed and replaced without damaging the insulation and jacket. Provide a removable reusable insulation cover. For below ambient services, provide a design that maintains vapor barrier.
6. Insulate flanges and unions using a section of oversized preformed pipe insulation. Overlap adjoining pipe insulation by not less than two times the thickness of pipe insulation, or one pipe diameter, whichever is thicker.
7. Cover segmented insulated surfaces with a layer of finishing cement and coat with a mastic. Install vapor-barrier mastic for below ambient services and a breather mastic for above ambient services. Reinforce the mastic with fabric-reinforcing mesh. Trowel the mastic to a smooth and well-shaped contour.
8. For services not specified to receive a field-applied jacket except for flexible elastomeric, install fitted PVC cover over elbows, tees, strainers, valves, flanges, and unions. Terminate ends with PVC end caps. Tape PVC covers to adjoining insulation facing using PVC tape.
9. Stencil or label the outside insulation jacket of each union with the word "UNION." Match size and color of pipe labels.

C. Insulate instrument connections for thermometers, pressure gages, pressure temperature taps, test connections, flow meters, sensors, switches, and transmitters on insulated pipes, vessels, and equipment. Shape insulation at these connections by tapering it to and around the connection with insulating cement and finish with finishing cement, mastic, and flashing sealant.

D. Install removable insulation covers at locations indicated. Installation shall conform to the following:

1. Make removable flange and union insulation from sectional pipe insulation of same thickness as that on adjoining pipe. Install same insulation jacket as adjoining pipe insulation.
2. When flange and union covers are made from sectional pipe insulation, extend insulation from flanges or union long at least two times the insulation thickness over adjacent pipe insulation on each side of flange or union. Secure flange cover in place with stainless-steel or aluminum bands. Select band material compatible with insulation and jacket.
3. Construct removable valve insulation covers in same manner as for flanges except divide the two-part section on the vertical center line of valve body.
4. When covers are made from block insulation, make two halves, each consisting of mitered blocks wired to stainless-steel fabric. Secure this wire frame, with its attached insulation, to flanges with tie wire. Extend insulation at least 2 inches over adjacent pipe insulation on each side of valve. Fill space between flange or union cover and pipe insulation with insulating cement. Finish cover assembly with insulating cement applied in two coats. After first coat is dry, apply and trowel second coat to a smooth finish.
5. Unless a PVC jacket is indicated in field-applied jacket schedules, finish exposed surfaces with a metal jacket.

3.8 CELLULAR-GLASS INSULATION INSTALLATION

A. Insulation Installation on Straight Pipes and Tubes:

1. Secure each layer of insulation to pipe with wire or bands and tighten bands without deforming insulation materials.
2. Where vapor barriers are indicated, seal longitudinal seams, end joints, and protrusions with vapor-barrier mastic and joint sealant.
3. For insulation with factory-applied jackets on above ambient services, secure laps with outward clinched staples at 6 inches o.c.
4. For insulation with factory-applied jackets on below ambient services, do not staple longitudinal tabs but secure tabs with additional adhesive as recommended by insulation material manufacturer and seal with vapor-barrier mastic and flashing sealant.

B. Insulation Installation on Pipe Flanges:

1. Install preformed pipe insulation to outer diameter of pipe flange.
2. Make width of insulation section same as overall width of flange and bolts, plus twice the thickness of pipe insulation.
3. Fill voids between inner circumference of flange insulation and outer circumference of adjacent straight pipe segments with cut sections of cellular-glass block insulation of same thickness as pipe insulation.
4. Install jacket material with manufacturer's recommended adhesive, overlap seams at least 1 inch, and seal joints with flashing sealant.

C. Insulation Installation on Pipe Fittings and Elbows:

1. Install preformed sections of same material as straight segments of pipe insulation when available. Secure according to manufacturer's written instructions.

2. When preformed sections of insulation are not available, install mitered sections of cellular-glass insulation. Secure insulation materials with wire or bands.

D. Insulation Installation on Valves and Pipe Specialties:

1. Install preformed sections of cellular-glass insulation to valve body.
2. Arrange insulation to permit access to packing and to allow valve operation without disturbing insulation.
3. Install insulation to flanges as specified for flange insulation application.

3.9 FLEXIBLE ELASTOMERIC INSULATION INSTALLATION

A. Seal longitudinal seams and end joints with manufacturer's recommended adhesive to eliminate openings in insulation that allow passage of air to surface being insulated.

B. Insulation Installation on Pipe Flanges:

1. Install pipe insulation to outer diameter of pipe flange.
2. Make width of insulation section same as overall width of flange and bolts, plus twice the thickness of pipe insulation.
3. Fill voids between inner circumference of flange insulation and outer circumference of adjacent straight pipe segments with cut sections of sheet insulation of same thickness as pipe insulation.
4. Secure insulation to flanges and seal seams with manufacturer's recommended adhesive to eliminate openings in insulation that allow passage of air to surface being insulated.

C. Insulation Installation on Pipe Fittings and Elbows:

1. Install mitered sections of pipe insulation.
2. Secure insulation materials and seal seams with manufacturer's recommended adhesive to eliminate openings in insulation that allow passage of air to surface being insulated.

D. Insulation Installation on Valves and Pipe Specialties:

1. Install preformed valve covers manufactured of same material as pipe insulation when available.
2. When preformed valve covers are not available, install cut sections of pipe and sheet insulation to valve body. Arrange insulation to permit access to packing and to allow valve operation without disturbing insulation.
3. Install insulation to flanges as specified for flange insulation application.
4. Secure insulation to valves and specialties and seal seams with manufacturer's recommended adhesive to eliminate openings in insulation that allow passage of air to surface being insulated.

3.10 MINERAL-FIBER INSULATION INSTALLATION

A. Insulation Installation on Straight Pipes and Tubes:

1. Secure each layer of preformed pipe insulation to pipe with wire or bands and tighten bands without deforming insulation materials.
2. Where vapor barriers are indicated, seal longitudinal seams, end joints, and protrusions with vapor-barrier mastic and joint sealant.
3. For insulation with factory-applied jackets on above ambient surfaces, secure laps with outward clinched staples at 6 inches o.c.
4. For insulation with factory-applied jackets on below ambient surfaces, do not staple longitudinal tabs but secure tabs with additional adhesive as recommended by insulation material manufacturer and seal with vapor-barrier mastic and flashing sealant.

B. Insulation Installation on Pipe Flanges:

1. Install preformed pipe insulation to outer diameter of pipe flange.
2. Make width of insulation section same as overall width of flange and bolts, plus twice the thickness of pipe insulation.
3. Fill voids between inner circumference of flange insulation and outer circumference of adjacent straight pipe segments with mineral-fiber blanket insulation.
4. Install jacket material with manufacturer's recommended adhesive, overlap seams at least 1 inch, and seal joints with flashing sealant.

C. Insulation Installation on Pipe Fittings and Elbows:

1. Install preformed sections of same material as straight segments of pipe insulation when available.
2. When preformed insulation elbows and fittings are not available, install mitered sections of pipe insulation, to a thickness equal to adjoining pipe insulation. Secure insulation materials with wire or bands.

D. Insulation Installation on Valves and Pipe Specialties:

1. Install preformed sections of same material as straight segments of pipe insulation when available.
2. When preformed sections are not available, install mitered sections of pipe insulation to valve body.
3. Arrange insulation to permit access to packing and to allow valve operation without disturbing insulation.
4. Install insulation to flanges as specified for flange insulation application.

E. Blanket Insulation Installation on Ducts and Plenums: Secure with adhesive and insulation pins.

1. Apply adhesives according to manufacturer's recommended coverage rates per unit area, for 50 percent coverage of duct and plenum surfaces.
2. Apply adhesive to entire circumference of ducts and to all surfaces of fittings and transitions.
3. Install capacitor-discharge-weld pins and speed washers on sides and bottom of horizontal ducts and sides of vertical ducts as follows:

    a. On duct sides with dimensions 18 inches and smaller, place pins along longitudinal centerline of duct. Space 3 inches maximum from insulation end joints, and 16 inches o.c.

b. On duct sides with dimensions larger than 18 inches, place pins 16 inches o.c. each way, and 3 inches maximum from insulation joints. Install additional pins to hold insulation tightly against surface at cross bracing.
c. Pins may be omitted from top surface of horizontal, rectangular ducts and plenums.
d. Do not overcompress insulation during installation.
e. Impale insulation over pins and attach speed washers.
f. Cut excess portion of pins extending beyond speed washers or bend parallel with insulation surface. Cover exposed pins and washers with tape matching insulation facing.

4. For ducts and plenums with surface temperatures below ambient, install a continuous unbroken vapor barrier. Create a facing lap for longitudinal seams and end joints with insulation by removing 2 inches (50 mm) from 1 edge and 1 end of insulation segment. Secure laps to adjacent insulation section with 1/2-inch (13-mm) outward-clinching staples, 1 inch (25 mm) o.c. Install vapor barrier consisting of factory- or field-applied jacket, adhesive, vapor-barrier mastic, and sealant at joints, seams, and protrusions.

   a. Repair punctures, tears, and penetrations with tape or mastic to maintain vapor-barrier seal.
   b. Install vapor stops for ductwork and plenums operating below 50 deg F (10 deg C) at 18-foot (5.5-m) intervals. Vapor stops shall consist of vapor-barrier mastic applied in a Z-shaped pattern over insulation face, along butt end of insulation, and over the surface. Cover insulation face and surface to be insulated a width equal to 2 times the insulation thickness but not less than 3 inches (75 mm).

5. Overlap unfaced blankets a minimum of 2 inches on longitudinal seams and end joints. At end joints, secure with steel bands spaced a maximum of 18 inches o.c.
6. Install insulation on rectangular duct elbows and transitions with a full insulation section for each surface. Install insulation on round and flat-oval duct elbows with individually mitered gores cut to fit the elbow.
7. Insulate duct stiffeners, hangers, and flanges that protrude beyond insulation surface with 6-inch- wide strips of same material used to insulate duct. Secure on alternating sides of stiffener, hanger, and flange with pins spaced 6 inches o.c.

F. Board Insulation Installation on Ducts and Plenums: Secure with adhesive and insulation pins.

1. Apply adhesives according to manufacturer's recommended coverage rates per unit area, for 50 percent coverage of duct and plenum surfaces.
2. Apply adhesive to entire circumference of ducts and to all surfaces of fittings and transitions.
3. Install capacitor-discharge-weld pins and speed washers on sides and bottom of horizontal ducts and sides of vertical ducts as follows:

   a. On duct sides with dimensions 18 inches and smaller, place pins along longitudinal centerline of duct. Space 3 inches maximum from insulation end joints, and 16 inches o.c.
   b. On duct sides with dimensions larger than 18 inches, space pins 16 inches o.c. each way, and 3 inches maximum from insulation joints. Install additional pins to hold insulation tightly against surface at cross bracing.
   c. Pins may be omitted from top surface of horizontal, rectangular ducts and plenums.
   d. Do not overcompress insulation during installation.

e. Cut excess portion of pins extending beyond speed washers or bend parallel with insulation surface. Cover exposed pins and washers with tape matching insulation facing.

4. For ducts and plenums with surface temperatures below ambient, install a continuous unbroken vapor barrier. Create a facing lap for longitudinal seams and end joints with insulation by removing 2 inches (50 mm) from 1 edge and 1 end of insulation segment. Secure laps to adjacent insulation section with 1/2-inch (13-mm) outward-clinching staples, 1 inch (25 mm) o.c. Install vapor barrier consisting of factory- or field-applied jacket, adhesive, vapor-barrier mastic, and sealant at joints, seams, and protrusions.

   a. Repair punctures, tears, and penetrations with tape or mastic to maintain vapor-barrier seal.
   b. Install vapor stops for ductwork and plenums operating below 50 deg F (10 deg C) at 18-foot (5.5-m) intervals. Vapor stops shall consist of vapor-barrier mastic applied in a Z-shaped pattern over insulation face, along butt end of insulation, and over the surface. Cover insulation face and surface to be insulated a width equal to 2 times the insulation thickness but not less than 3 inches (75 mm).

5. Install insulation on rectangular duct elbows and transitions with a full insulation section for each surface. Groove and score insulation to fit as closely as possible to outside and inside radius of elbows. Install insulation on round and flat-oval duct elbows with individually mitered gores cut to fit the elbow.
6. Insulate duct stiffeners, hangers, and flanges that protrude beyond insulation surface with 6-inch- wide strips of same material used to insulate duct. Secure on alternating sides of stiffener, hanger, and flange with pins spaced 6 inches o.c.

3.11 FIELD-APPLIED JACKET INSTALLATION

A. Where glass-cloth jackets are indicated, install directly over bare insulation or insulation with factory-applied jackets.

   1. Draw jacket smooth and tight to surface with 2-inch overlap at seams and joints.
   2. Embed glass cloth between two 0.062-inch- thick coats of lagging adhesive.
   3. Completely encapsulate insulation with coating, leaving no exposed insulation.

B. Where FSK jackets are indicated, install as follows:

   1. Draw jacket material smooth and tight.
   2. Install lap or joint strips with same material as jacket.
   3. Secure jacket to insulation with manufacturer's recommended adhesive.
   4. Install jacket with 1-1/2-inch laps at longitudinal seams and 3-inch- wide joint strips at end joints.
   5. Seal openings, punctures, and breaks in vapor-retarder jackets and exposed insulation with vapor-barrier mastic.

C. Where PVC jackets are indicated, install with 1-inch overlap at longitudinal seams and end joints; for horizontal applications, install with longitudinal seams along top and bottom of tanks and vessels. Seal with manufacturer's recommended adhesive.

1. Apply two continuous beads of adhesive to seams and joints, one bead under lap and the finish bead along seam and joint edge.

D. Where metal jackets are indicated, install with 2-inch overlap at longitudinal seams and end joints. Overlap longitudinal seams arranged to shed water. Seal end joints with weatherproof sealant recommended by insulation manufacturer. Secure jacket with stainless-steel bands 12 inches o.c. and at end joints.

3.12 FIRE-RATED INSULATION SYSTEM INSTALLATION

A. Where fire-rated insulation system is indicated, secure system to ducts and duct hangers and supports to maintain a continuous UL-listed fire rating.

B. Insulate duct access panels and doors to achieve same fire rating as duct.

C. Install firestopping at penetrations through fire-rated assemblies. Fire-stop systems are specified in Division 7 Section "Through-Penetration Firestop Systems."

3.13 FINISHES

A. Duct, Equipment, and Pipe Insulation with ASJ, Glass-Cloth, or Other Paintable Jacket Material: Paint jacket with paint system identified below and as specified in Division 9 painting Sections. Paint only those items in exposed, public areas.

1. Flat Acrylic Finish: Two finish coats over a primer that is compatible with jacket material and finish coat paint. Add fungicidal agent to render fabric mildew proof.

a. Finish Coat Material: Interior, flat, latex-emulsion size.

B. Flexible Elastomeric Thermal Insulation: After adhesive has fully cured, apply two coats of insulation manufacturer's recommended protective coating.

C. Color: Final color as selected by Architect. Vary first and second coats to allow visual inspection of the completed Work.

D. Do not field paint aluminum or stainless-steel jackets.

3.14 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified independent inspecting agency to perform field inspections and prepare inspection reports.

B. All insulation applications will be considered defective Work if sample inspection reveals noncompliance with requirements. Remove defective Work.

C. Install new insulation and jackets to replace insulation and jackets removed for inspection. Repeat inspection procedures after new materials are installed.

3.15 DUCT INSULATION SCHEDULE, GENERAL

A. Plenums and Ducts Requiring Insulation:

1. Indoor, concealed supply and outdoor air.
2. Indoor, exposed supply and outdoor air.
3. Indoor, concealed return located in nonconditioned space.
4. Indoor, exposed return located in nonconditioned space.
5. Indoor, concealed oven and warewash exhaust.
6. Indoor, exposed oven and warewash exhaust.
7. Indoor, concealed exhaust air.
8. Indoor, exposed exhaust air.
9. Outdoor, concealed supply and return.
10. Outdoor, exposed supply and return.

B. Items Not Insulated:

1. Metal ducts with duct liner of sufficient thickness to comply with energy code and ASHRAE/IESNA 90.1.
2. Factory-insulated flexible ducts.
3. Factory-insulated plenums and casings.
4. Flexible connectors.
5. Vibration-control devices.
6. Factory-insulated access panels and doors.

3.16 INDOOR DUCT AND PLENUM INSULATION SCHEDULE

A. Concealed, round and flat-oval, supply-air duct insulation shall be the following:

1. Mineral-Fiber Blanket: 2 inches thick and 1.5-lb/cu. ft. nominal density.

B. Concealed, round and flat-oval, return-air duct insulation shall be the following:

1. Mineral-Fiber Blanket: 2 inches thick and 1.5-lb/cu. ft. nominal density.

C. Concealed, round and flat-oval, outdoor-air duct insulation shall be the following:

1. Mineral-Fiber Blanket: 2 inches thick and 1.5-lb/cu. ft. nominal density.

D. Concealed, round and flat-oval, exhaust-air duct insulation shall be the following:

1. Mineral-Fiber Blanket: 2 inches thick and 1.5-lb/cu. ft. nominal density.

E. Concealed, rectangular, supply-air duct insulation shall be the following:

1. Mineral-Fiber Blanket: 2 inches thick and 1.5-lb/cu. ft. nominal density.

F. Concealed, rectangular, return-air duct insulation shall be the following:

1. Mineral-Fiber Blanket: 2 inches thick and 1.5-lb/cu. ft. nominal density.

G. Concealed, rectangular, outdoor-air duct insulation shall be the following:

1. Mineral-Fiber Blanket: 2 inches thick and 1.5-lb/cu. ft. nominal density.

H. Concealed, rectangular, exhaust-air duct insulation shall be the following:

1. Mineral-Fiber Blanket: 2 inches thick and 1.5-lb/cu. ft. nominal density.

I. Concealed, return-air plenum insulation shall be the following:
   1. Mineral-Fiber Blanket: 2 inches thick and 1.5-lb/cu. ft. nominal density.
   2. Mineral-Fiber Board: 1-1/2 inches thick and 2-lb/cu. ft. nominal density.

J. Exposed, round and flat-oval, supply-air duct insulation shall be the following:

   1. Double wall insulated duct.

K. Exposed, round and flat-oval, return-air duct insulation shall be the following:
   1. Mineral-Fiber Blanket: 2 inches thick and 1.5-lb/cu. ft. nominal density.
   2. Insulation not required in conditioned spaces.

L. Exposed, round and flat-oval, outdoor-air duct insulation shall be the following:
   1. Mineral-Fiber Blanket: 2 inches thick and 1.5-lb/cu. ft. nominal density.

M. Exposed, round and flat-oval, exhaust-air duct insulation shall be the following:
   1. Mineral-Fiber Blanket: 2 inches thick and nominal density.
   2. Insulation not required in conditioned spaces.

N. Exposed, rectangular, supply-air duct insulation shall be the following:
   1. Mineral-Fiber Blanket: 2 inches thick and 1.5-lb/cu. ft. nominal density.
   2. For rectangular ducts in public spaces, use double-wall insulated duct.

O. Exposed, rectangular, return-air duct insulation shall be the following:
   1. Mineral-Fiber Blanket: 2 inches thick and nominal density.
   2. Insulation not required in conditioned spaces.

P. Exposed, rectangular, outdoor-air duct insulation shall be the following:
   1. Mineral-Fiber Blanket: 2 inches thick and 1.5-lb/cu. ft. nominal density.

Q. Exposed, rectangular, exhaust-air duct insulation shall be the following:
   1. Mineral-Fiber Blanket: 2 inches thick and 1.5-lb/cu. ft. nominal density.
   2. Insulation not required in conditioned spaces.

R. Exposed, return-air plenum insulation shall be the following:
   1. Mineral-Fiber Blanket: 2 inches thick and 1.5-lb/cu. ft. nominal density.
   2. Mineral-Fiber Board: 1-1/2 inches thick and 2-lb/cu. ft. nominal density.

3.17 ABOVEGROUND, OUTDOOR DUCT AND PLENUM INSULATION SCHEDULE

A. Insulation materials and thicknesses are identified below. If more than one material is listed for a duct system, selection from materials listed is Contractor's option.

B. Round, flat-oval, and rectangular supply-air duct insulation shall be the following:
   1. Flexible Elastomeric: 3 layers, each 1” thick.

C. Round,flat-oval, and rectangular return-air duct insulation shall be the following:
   1. Flexible Elastomeric: 3 layers, each 1” thick.

3.18 EQUIPMENT INSULATION SCHEDULE

A. Insulation materials and thicknesses are identified below. If more than one material is listed for a type of equipment, selection from materials listed is Contractor's option.

B. Insulate indoor and outdoor equipment in paragraphs below that is not factory insulated.

C. Chillers: Insulate cold surfaces on chillers, including, but not limited to, evaporator bundles, suction piping, compressor inlets, tube sheets, water boxes, and nozzles with the following:
1. Flexible Elastomeric: 1 inch thick.

D. Heat-exchanger (water-to-water for cooling service) insulation shall be the following:
1. Flexible Elastomeric: 1 inch thick.

E. Chilled-water pump insulation shall be the following:

1. Cellular Glass: 3 inches thick.

2. Phenolic Foam: 2 inches thick.

F. Condenser-water pump insulation shall be the following:
1. Not applicable.

G. Domestic water pump insulation shall be the following:
1. Not applicable.

H. Heating-hot-water pump insulation shall be the following:
1. Cellular Glass: 3 inches thick.

I. Chilled-water expansion/compression tank insulation shall be the following:
1. Flexible Elastomeric: 1 inch thick.

J. Chilled-water air-separator insulation shall be the following:
1. Flexible Elastomeric: 1 inch thick.

K. Domestic hot-water storage tank insulation shall be the following:

1. Mineral-Fiber Board: 4 inches thick and 2-lb/cu. ft. nominal density.

L. Thermal storage tank (brine, water, ice) insulation shall be the following:

1. Cellular Glass: 4 inches thick.

3.19 PIPING INSULATION SCHEDULE, GENERAL

A. Acceptable preformed pipe and tubular insulation materials and thicknesses are identified for each piping system and pipe size range. If more than one material is listed for a piping system, selection from materials listed is Contractor's option.

B. Items Not Insulated: Unless otherwise indicated, do not install insulation on the following:

1. Fire-suppression piping.
2. Drainage piping located in crawl spaces.
3. Below-grade piping.
4. Chrome-plated pipes and fittings unless there is a potential for personnel injury.

3.20 INDOOR PIPING INSULATION SCHEDULE

A. Domestic Cold Water:

1. Insulation shall be the following:
    a. Mineral-Fiber Pipe Insulation, Type I: 1/2 inch thick.

B. Domestic Hot and Recirculated Hot Water:

1. Insulation shall be the following:
    a. Mineral-Fiber Pipe Insulation, Type I: 1 inch thick.

C. Domestic Chilled Water (Potable):

1. All Pipe Sizes: Insulation shall be the following:
    a. Mineral-Fiber Pipe Insulation, Type I: 1 inch thick.

D. Stormwater and Overflow:

1. All Pipe Sizes: Insulation shall be the following:
    a. Mineral-Fiber Pipe Insulation, Type I: 1 inch thick.
2. Insulation required only on horizontal runs.

E. Roof Drain and Overflow Drain Bodies:

1. All Pipe Sizes: Insulation shall be the following:
    a. Mineral-Fiber Pipe Insulation, Type I: 1 inch thick.

F. Condensate and Equipment Drain Water below 60 Deg F:

1. All Pipe Sizes: Insulation shall be the following:
    a. Flexible Elastomeric: 3/4 inch thick.

G. Floor Drains, Traps, and Sanitary Drain Piping within 10 Feet of Drain Receiving Condensate and Equipment Drain Water below 60 Deg F:

1. All Pipe Sizes: Insulation shall be the following:
    a. Mineral-Fiber Pipe Insulation, Type I: 1 inch thick.

H. Chilled Water and Brine, above 40 Deg F:

1. NPS 4 DN 100 and Smaller: Insulation shall be the following:

    a. Cellular Glass: 1-1/2 inches thick.

    b. Phenolic Foam: 1 inch thick.

2. NPS 6 (DN 150) to NPS 12 (DN300: Insulation shall be the following:

a. Cellular Glass: 2 inches thick.

b. Phenolic Foam: 1 ½ inches thick.

3. NPS 14 (DN350) and Larger: Insulation shall be the following:

a. Cellular Glass: 2 - ½ inches thick.

b. Phenolic Foam: 2 inches thick.

I. Condenser-Water Supply and Return:

1. No insulation.

J. Heating-Hot-Water Supply and Return, 200 Deg F and below:

1. Insulation shall be the following:
a. Mineral-Fiber, Preformed Pipe, Type I: 2 inches thick.

K. Refrigerant Suction and Hot-Gas Piping:

1. All Pipe Sizes: Insulation shall be the following:
a. Flexible Elastomeric: 3/4 inch thick.

3.21 OUTDOOR, ABOVEGROUND PIPING INSULATION SCHEDULE

A. Domestic Water Piping:

1. All Pipe Sizes: Insulation shall be the following:
a. Mineral-Fiber Pipe Insulation, Type I: 1 inch thick.

B. Domestic Hot and Recirculated Hot Water:

1. All Pipe Sizes: Insulation shall be the following:
a. Mineral-Fiber Pipe Insulation, Type I: 1 inches thick.

C. Chilled Water and Brine:

1. All Pipe Sizes: Insulation shall be the following:

a. Cellular Glass: Refer to interior schedule for thickness.

b. Phenolic Foam: Refer to interior schedule for thickness.

D. Condenser-Water Supply and Return:

1. All Pipe Sizes: Insulation not required.

E. Heating-Hot-Water Supply and Return, 200 Deg F and below:

1. All Pipe Sizes: Insulation shall be the following:
   a. Mineral-Fiber Pipe Insulation, Type I: 1 ½ inches thick.

F. Refrigerant Suction and Hot-Gas Piping:

1. All Pipe Sizes: Insulation shall be the following:
   a. Flexible Elastomeric: 1 inch thick.

3.22 OUTDOOR, UNDERGROUND PIPING INSULATION SCHEDULE

A. Loose-fill insulation, for belowground piping, is specified in Division 2 piping distribution Sections.

B. Chilled Water, All Sizes: Use pre-insulated pipe system.

C. Condenser-Water Supply and Return, All Sizes: Insulation not required. Provide anti corrosion coating as specified in Hydronic Piping Specification.

D. Heating-Hot-Water Supply and Return, All Sizes, 200 Deg F and below: Use pre-insulated pipe system.

3.23 INDOOR, FIELD-APPLIED JACKET SCHEDULE

A. Install jacket over insulation material. For insulation with factory-applied jacket, install the field-applied jacket over the factory-applied jacket.

B. If more than one material is listed, selection from materials listed is Contractor's option.

C. Ducts and Plenums, Concealed:

1. None.

D. Ducts and Plenums, Exposed:

1. None.

E. Equipment, Concealed:

1. None.

F. Equipment, Exposed, up to 48 Inches in Diameter or with Flat Surfaces up to 72 Inches:

1. None.

G. Equipment, Exposed, Larger Than 48 Inches in Diameter or with Flat Surfaces Larger Than 72 Inches:

1. None.

H. Piping, Concealed:

1. ASJ – factory.

I. Piping, Exposed:
1. PVC: 20 mils thick.

3.24 OUTDOOR, FIELD-APPLIED JACKET SCHEDULE

A. Install jacket over insulation material. For insulation with factory-applied jacket, install the field-applied jacket over the factory-applied jacket.

B. If more than one material is listed, selection from materials listed is Contractor's option.

C. Ducts and Plenums, Concealed:
1. Painted Aluminum, Smooth: 0.020 inch thick.

D. Ducts and Plenums, Exposed:
1. Painted Aluminum, Smooth: 0.020 inch thick.

E. Equipment, Concealed:
1. PVC: 20 mils thick.

F. Equipment, Exposed:

1. Aluminum, Smooth: 0.020 inch thick.

G. Piping, Concealed:
1. PVC: 20 mils thick.

H. Piping, Exposed:
1. Aluminum, Smooth: 0.020 inch thick.

3.25 UNDERGROUND, FIELD-INSTALLED INSULATION JACKET

A. For underground direct-buried piping applications, install underground direct-buried jacket over insulation material.

END OF SECTION 15080

SECTION 15150 - SANITARY WASTE AND VENT PIPING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following for soil, waste, and vent piping inside the building:

1. Pipe, tube, and fittings.
2. Special pipe fittings.
3. Encasement for underground metal piping.

B. Related Sections include the following:

1. Division 15 Section "Chemical-Waste Piping" for chemical-waste and vent piping systems.

1.3 DEFINITIONS

A. EPDM: Ethylene-propylene-diene terpolymer rubber.

B. PE: Polyethylene plastic.

C. PVC: Polyvinyl chloride plastic.

1.4 PERFORMANCE REQUIREMENTS

A. Components and installation shall be capable of withstanding the following minimum working pressure, unless otherwise indicated:

1. Soil, Waste, and Vent Piping: 10-foot head of water.

1.5 SUBMITTALS

A. Product Data: For pipe, tube, fittings, and couplings.

B. Shop Drawings:
1. Sovent Drainage System: Include plans, elevations, sections, and details.

C. Field quality-control inspection and test reports.

1.6 QUALITY ASSURANCE

A. Piping materials shall bear label, stamp, or other markings of specified testing agency.

B. Comply with NSF 14, "Plastics Piping Systems Components and Related Materials," for plastic piping components. Include marking with "NSF-dwv" for plastic drain, waste, and vent piping; "NSF-drain" for plastic drain piping; "NSF-tubular" for plastic continuous waste piping; and "NSF-sewer" for plastic sewer piping.

PART 2 - PRODUCTS

2.1 PIPING MATERIALS

A. Refer to Part 3 "Piping Applications" Article for applications of pipe, tube, fitting, and joining materials.

2.2 HUB-AND-SPIGOT, CAST-IRON SOIL PIPE AND FITTINGS

A. Pipe and Fittings: ASTM A 74, Service class.

B. Gaskets: ASTM C 564, rubber.

C. Lead and Oakum: ASTM B 29, pure lead and oakum or hemp fiber.

2.3 HUBLESS CAST-IRON SOIL PIPE AND FITTINGS

A. Pipe and Fittings: ASTM A 888 or CISPI 301.

B. Shielded Couplings: ASTM C 1277 assembly of metal shield or housing, corrosion-resistant fasteners, and rubber sleeve with integral, center pipe stop.

1. Standard, Shielded, Stainless-Steel Couplings: CISPI 310, with stainless-steel corrugated shield; stainless-steel bands and tightening devices; and ASTM C 564, rubber sleeve.

2. Heavy-Duty, Shielded, Stainless-Steel Couplings: With stainless-steel shield, stainless-steel bands and tightening devices, and ASTM C 564, rubber sleeve.

C. Rigid, Unshielded Couplings: ASTM C 1461, sleeve-type, reducing- or transition-type mechanical coupling molded from ASTM C 1440, TPE material with corrosion-resistant-metal tension band and tightening mechanism on each end.

2.4 PVC PIPE AND FITTINGS

A. Solid-Wall PVC Pipe: ASTM D 2665, drain, waste, and vent.

1. PVC Socket Fittings: ASTM D 2665, socket type, made to ASTM D 3311, drain, waste, and vent patterns.

2.5 SPECIAL PIPE FITTINGS

A. Sovent Drainage System Fittings: ASME B16.45 or ASSE 1043, cast-iron aerator and deaerator fittings.

B. Flexible, Nonpressure Pipe Couplings: Comply with ASTM C 1173, elastomeric, sleeve-type, reducing or transition pattern. Include shear ring, ends of same sizes as piping to be joined, and corrosion-resistant-metal tension band and tightening mechanism on each end.

1. Sleeve Materials:

a. For Cast-Iron Soil Pipes: ASTM C 564, rubber.
b. For Plastic Pipes: ASTM F 477, elastomeric seal or ASTM D 5926, PVC.
c. For Dissimilar Pipes: ASTM D 5926, PVC or other material compatible with pipe materials being joined.

C. Shielded Nonpressure Pipe Couplings: ASTM C 1460, elastomeric or rubber sleeve with full-length, corrosion-resistant outer shield and corrosion-resistant-metal tension band and tightening mechanism on each end.

D. Expansion Joints: Two or three-piece, ductile-iron assembly consisting of telescoping sleeve(s) with gaskets and restrained-type, ductile-iron, bell-and-spigot end sections complying with AWWA C110 or AWWA C153. Select and assemble components for expansion indicated. Include AWWA C111, ductile-iron glands, rubber gaskets, and steel bolts.

E. Wall-Penetration Fittings: Compound, ductile-iron coupling fitting with sleeve and flexing sections for up to 20-degree deflection, gaskets, and restrained-joint ends complying with AWWA C110 or AWWA C153. Include AWWA C111, ductile-iron glands, rubber gaskets, and steel bolts.

F. Tubular Fittings: ASTM F 409, PVC drainage-pattern tube and tubular fittings with ends as required for application.

2.6 ENCASEMENT FOR UNDERGROUND METAL PIPING

A. Description: ASTM A 674 or AWWA C105, high-density, crosslaminated PE film of 0.004-inch (0.10-mm) minimum thickness.

B. Form: tube.

C. Color: Black.

PART 3 - EXECUTION

3.1 EXCAVATION

A. Refer to Division 2 Section "Earthwork" for excavating, trenching, and backfilling.

3.2 PIPING APPLICATIONS

A. Flanges and unions may be used on aboveground pressure piping, unless otherwise indicated.

B. Piping installed in building plenums shall meet requirements of materials within ducts or plenums (ceiling spaces used as supply or return air plenums) and shall have a flame-spread index of not more than 25 and a smoke-developed rating of not more than 50 when tested in accordance with the test for Surface Burning Characteristics of Materials.

C. Aboveground, soil and waste piping NPS 4 (DN 100) and smaller shall be any of the following:

1. Service class, cast-iron soil pipe and fittings; gaskets; and compression joints.
2. Hubless cast-iron soil pipe and fittings; standard, shielded, stainless-steel couplings; and hubless-coupling joints.
3. Solid-wall PVC pipe, PVC socket fittings, and solvent-cemented joints.

D. Aboveground, soil and waste piping NPS 5 (DN 125) and larger shall be any of the following:

1. Service class, cast-iron soil pipe and fittings; gaskets; and compression joints.
2. Hubless cast-iron soil pipe and fittings; standard, shielded, stainless-steel couplings; and hubless-coupling joints.
3. Solid-wall PVC pipe, PVC socket fittings, and solvent-cemented joints.

E. Aboveground, vent piping all sizes shall be any of the following:

1. Service class, cast-iron soil pipe and fittings; gaskets; and compression joints.
2. Hubless cast-iron soil pipe and fittings; standard, shielded, stainless-steel couplings; and hubless-coupling joints.
3. Solid-wall PVC pipe, PVC socket fittings, and solvent-cemented joints.

F. Above and belowground, sovent drainage system with soil, waste, and vent piping materials indicated.

G. Underground, soil, waste, and vent piping all sizes shall be any of the following:

1. Service class, cast-iron soil piping; gaskets; and gasketed joints.
2. Hubless cast-iron soil pipe and fittings; heavy-duty shielded, cast-iron couplings; and hubless-coupling joints.
3. Solid wall PVC pipe, PVC socket fittings, and solvent-cemented joints.

3.3 PIPING INSTALLATION

A. Sanitary sewer piping outside the building is specified in Division 2 Section "Sanitary Sewerage."

B. Basic piping installation requirements are specified in Division 15 Section "Basic Mechanical Materials and Methods."

C. Install cleanouts at grade and extend to where building sanitary drains connect to building sanitary sewers.

D. Install cast-iron sleeve with water stop and mechanical sleeve seal at each service pipe penetration through foundation wall. Select number of interlocking rubber links required to make installation watertight. Sleeves and mechanical sleeve seals are specified in Division 15 Section "Basic Mechanical Materials and Methods."

E. Install cast-iron soil piping according to CISPI's "Cast Iron Soil Pipe and Fittings Handbook," Chapter IV, "Installation of Cast Iron Soil Pipe and Fittings."

1. Install encasement on underground piping according to ASTM A 674 or AWWA C105.

F. Make changes in direction for soil and waste drainage and vent piping using appropriate branches, bends, and long-sweep bends. Sanitary tees and short-sweep 1/4 bends may be used on vertical stacks if change in direction of flow is from horizontal to vertical. Use long-turn, double Y-branch and 1/8-bend fittings if 2 fixtures are installed back to back or side by side with common drain pipe. Straight tees, elbows, and crosses may be used on vent lines. Do not change direction of flow more than 90 degrees. Use proper size of standard increasers and reducers if pipes of different sizes are connected. Reducing size of drainage piping in direction of flow is prohibited.

G. Lay buried building drainage piping beginning at low point of each system. Install true to grades and alignment indicated, with unbroken continuity of invert. Place hub ends of piping upstream. Install required gaskets according to manufacturer's written instructions for use of lubricants, cements, and other installation requirements. Maintain swab in piping and pull past each joint as completed.

H. Install soil and waste drainage and vent piping at the following minimum slopes, unless otherwise indicated:

1. Building Sanitary Drain: 2 percent downward in direction of flow for piping NPS 3 (DN 80) and smaller; 1 percent downward in direction of flow for piping NPS 4 (DN 100) and larger.
2. Horizontal Sanitary Drainage Piping: 2 percent downward in direction of flow.
3. Vent Piping: 1 percent down toward vertical fixture vent or toward vent stack.

I. Install engineered soil and waste drainage and vent piping systems as follows:

1. Combination Waste and Vent: Comply with standards of authorities having jurisdiction.
2. Sovent Drainage System: Comply with ASSE 1043 and sovent fitting manufacturer's written installation instructions.
3. Reduced-Size Venting: Comply with standards of authorities having jurisdiction.

J. Sleeves are not required for cast-iron soil piping passing through concrete slabs-on-grade if slab is without membrane waterproofing.

K. Install PVC soil and waste drainage and vent piping according to ASTM D 2665.

L. Install underground PVC soil and waste drainage piping according to ASTM D 2321.

M. Do not enclose, cover, or put piping into operation until it is inspected and approved by authorities having jurisdiction.

3.4 JOINT CONSTRUCTION

A. Basic piping joint construction requirements are specified in Division 15 Section "Basic Mechanical Materials and Methods."

B. Join hub-and-spigot, cast-iron soil piping with gasket joints according to CISPI's "Cast Iron Soil Pipe and Fittings Handbook" for compression joints.

C. Join hub-and-spigot, cast-iron soil piping with calked joints according to CISPI's "Cast Iron Soil Pipe and Fittings Handbook" for lead and oakum calked joints.

D. Join hubless cast-iron soil piping according to CISPI 310 and CISPI's "Cast Iron Soil Pipe and Fittings Handbook" for hubless-coupling joints.

E. Grooved Joints: Assemble joint with keyed coupling, gasket, lubricant, and bolts according to coupling and fitting manufacturer's written instructions.

F. PVC Nonpressure Piping Joints: Join piping according to ASTM D 2665.

3.5 VALVE INSTALLATION

A. General valve installation requirements are specified in Division 15 Section "Valves."

B. Backwater Valves: Install backwater valves in piping subject to sewage backflow.

1. Horizontal Piping: Horizontal backwater valves.
2. Floor Drains: Drain outlet backwater valves, unless drain has integral backwater valve.
3. Install backwater valves in accessible locations.
4. Backwater valve are specified in Division 15 Section "Plumbing Specialties."

3.6 HANGER AND SUPPORT INSTALLATION

A. Pipe hangers and supports are specified in Division 15 Section "Hangers and Supports." Install the following:

1. Vertical Piping: MSS Type 8 or Type 42, clamps.
2. Install individual, straight, horizontal piping runs according to the following:

    a. 100 Feet (30 m) and Less: MSS Type 1, adjustable, steel clevis hangers.
    b. Longer Than 100 Feet (30 m): MSS Type 43, adjustable roller hangers.
    c. Longer Than 100 Feet (30 m), if Indicated: MSS Type 49, spring cushion rolls.

3. Multiple, Straight, Horizontal Piping Runs 100 Feet (30 m) or Longer: MSS Type 44, pipe rolls. Support pipe rolls on trapeze.
4. Base of Vertical Piping: MSS Type 52, spring hangers.

B. Install supports according to Division 15 Section "Hangers and Supports."

C. Support vertical piping and tubing at base and at each floor.

D. Rod diameter may be reduced 1 size for double-rod hangers, with 3/8-inch (10-mm) minimum rods.

E. Install hangers for cast-iron soil piping with the following maximum horizontal spacing and minimum rod diameters:

1. NPS 1-1/2 and NPS 2 (DN 40 and DN 50): 60 inches (1500 mm) with 3/8-inch (10-mm) rod.
2. NPS 3 (DN 80): 60 inches (1500 mm) with 1/2-inch (13-mm) rod.
3. NPS 4 and NPS 5 (DN 100 and DN 125): 60 inches (1500 mm) with 5/8-inch (16-mm) rod.
4. NPS 6 (DN 150): 60 inches (1500 mm) with 3/4-inch (19-mm) rod.
5. NPS 8 to NPS 12 (DN 200 to DN 300): 60 inches (1500 mm) with 7/8-inch (22-mm) rod.

F. Install supports for vertical cast-iron soil piping every 15 feet (4.5 m).

G. Install hangers for PVC piping with the following maximum horizontal spacing and minimum rod diameters:

1. NPS 1-1/2 and NPS 2 (DN 40 and DN 50): 48 inches (1200 mm) with 3/8-inch (10-mm) rod.
2. NPS 3 (DN 80): 48 inches (1200 mm) with 1/2-inch (13-mm) rod.
3. NPS 4 and 5 (DN 100 and 125): 48 inches (1200 mm) with 5/8-inch (16-mm) rod.
4. NPS 6 (DN 150): 48 inches (1200 mm) with 3/4-inch (19-mm) rod.
5. NPS 8 to NPS 12 (DN 200 to DN 300): 48 inches (1200 mm) with 7/8-inch (22-mm) rod.

H. Install supports for vertical PVC piping every 48 inches (1200 mm).

I. Support piping and tubing not listed above according to MSS SP-69 and manufacturer's written instructions.

3.7 CONNECTIONS

A. Drawings indicate general arrangement of piping, fittings, and specialties.

B. Connect soil and waste piping to exterior sanitary sewerage piping. Use transition fitting to join dissimilar piping materials.

C. Connect drainage and vent piping to the following:

1. Plumbing Fixtures: Connect drainage piping in sizes indicated, but not smaller than required by plumbing code.
2. Plumbing Fixtures and Equipment: Connect atmospheric vent piping in sizes indicated, but not smaller than required by authorities having jurisdiction.
3. Plumbing Specialties: Connect drainage and vent piping in sizes indicated, but not smaller than required by plumbing code.

4. Equipment: Connect drainage piping as indicated. Provide shutoff valve, if indicated, and union for each connection. Use flanges instead of unions for connections NPS 2-1/2 (DN 65) and larger.

3.8 FIELD QUALITY CONTROL

A. During installation, notify authorities having jurisdiction at least 24 hours before inspection must be made. Perform tests specified below in presence of authorities having jurisdiction.

1. Roughing-in Inspection: Arrange for inspection of piping before concealing or closing-in after roughing-in and before setting fixtures.
2. Final Inspection: Arrange for final inspection by authorities having jurisdiction to observe tests specified below and to ensure compliance with requirements.

B. Reinspection: If authorities having jurisdiction find that piping will not pass test or inspection, make required corrections and arrange for reinspection.

C. Reports: Prepare inspection reports and have them signed by authorities having jurisdiction.

D. Test sanitary drainage and vent piping according to procedures of authorities having jurisdiction or, in absence of published procedures, as follows:

1. Test for leaks and defects in new piping and parts of existing piping that have been altered, extended, or repaired. If testing is performed in segments, submit separate report for each test, complete with diagram of portion of piping tested.
2. Leave uncovered and unconcealed new, altered, extended, or replaced drainage and vent piping until it has been tested and approved. Expose work that was covered or concealed before it was tested.
3. Roughing-in Plumbing Test Procedure: Test drainage and vent piping, except outside leaders, on completion of roughing-in. Close openings in piping system and fill with water to point of overflow, but not less than 10-foot head of water (30 kPa). From 15 minutes before inspection starts to completion of inspection, water level must not drop. Inspect joints for leaks.
4. Finished Plumbing Test Procedure: After plumbing fixtures have been set and traps filled with water, test connections and prove they are gastight and watertight. Plug vent-stack openings on roof and building drains where they leave building. Introduce air into piping system equal to pressure of 1-inch wg (250 Pa). Use U-tube or manometer inserted in trap of water closet to measure this pressure. Air pressure must remain constant without introducing additional air throughout period of inspection. Inspect plumbing fixture connections for gas and water leaks.
5. Repair leaks and defects with new materials and retest piping, or portion thereof, until satisfactory results are obtained.
6. Prepare reports for tests and required corrective action.

3.9 CLEANING

A. Clean interior of piping. Remove dirt and debris as work progresses.

B. Protect drains during remainder of construction period to avoid clogging with dirt and debris and to prevent damage from traffic and construction work.

C. Place plugs in ends of uncompleted piping at end of day and when work stops.

3.10 PROTECTION

A. Exposed PVC Piping: Protect plumbing vents exposed to sunlight with two coats of water-based latex paint.

END OF SECTION 15150

SECTION 15430 - PLUMBING SPECIALTIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following plumbing specialties:

1. Backflow preventers.
2. Dishwasher air-gap fittings.
3. Water regulators.
4. Balancing valves.
5. Thermostatic water mixing valves.
6. Water tempering valves.
7. Strainers.
8. Outlet boxes.
9. Washer-supply outlets.
10. Hose stations.
11. Key-operation hydrants.
12. Wheel-handle wall hydrants.
13. Nondraining nonfreeze post hydrants.
14. Trap seal primer valves.
15. Drain valves.
16. Backwater valves.
17. Miscellaneous piping specialties.
18. Sleeve penetration systems.
19. Flashing materials.
20. Cleanouts.
21. Floor drains.
22. Trench drains.
23. Roof drains.
24. Grease interceptors.
25. Oil interceptors.
26. Solids interceptors.

1.3 DEFINITIONS

A. The following are industry abbreviations for plastic piping materials:

1. ABS: Acrylonitrile-butadiene-styrene plastic.
2. PE: Polyethylene plastic.

3. PUR: Polyurethane plastic.
4. PVC: Polyvinyl chloride plastic.

1.4 PERFORMANCE REQUIREMENTS

A. Provide components and installation capable of producing piping systems with following minimum working-pressure ratings, unless otherwise indicated:

1. Domestic Water Piping: 125 psig (860 kPa).
2. Sanitary Waste and Vent Piping: 10-foot head of water (30 kPa).
3. Storm Drainage Piping: 10-foot head of water (30 kPa).

1.5 SUBMITTALS

A. Product Data: Include rated capacities and shipping, installed, and operating weights. Indicate materials, finishes, dimensions, required clearances, and methods of assembly of components; and piping and wiring connections for the following:

1. Backflow preventers and water regulators.
2. Balancing valves and strainers.
3. Thermostatic water mixing valves and water tempering valves.
4. Water hammer arresters, air vents, and trap seal primer valves and systems.
5. Drain valves, hose bibbs, hydrants, and hose stations.
6. Outlet boxes and washer-supply outlets.
7. Backwater valves, cleanouts, floor drains, open receptors, trench drains, and roof drains.
8. Air-admittance valves, vent caps, vent terminals, and roof flashing assemblies.
9. Grease interceptors, oil interceptors, and solids interceptors.
10. Sleeve penetration systems.

B. Shop Drawings: Diagram power, signal, and control wiring.

C. Field test reports.

D. Maintenance Data: For plumbing specialties to include in maintenance manuals. Include the following:

1. Backflow preventers and water regulators.
2. Thermostatic water mixing valves and water tempering valves.
3. Trap seal primer valves and systems.
4. Hose stations and hydrants.
5. Grease interceptors, oil interceptors, and solids interceptors.

1.6 QUALITY ASSURANCE

A. Product Options: Drawings indicate size, profiles, and dimensional requirements of plumbing specialties and are based on the specific system indicated. Refer to Division 1 Section "Product Requirements."

B. Plumbing specialties shall bear label, stamp, or other markings of specified testing agency.

C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

D. ASME Compliance: Comply with ASME B31.9, "Building Services Piping," for piping materials and installation.

E. NSF Compliance:

1. Comply with NSF 14, "Plastics Piping Components and Related Materials," for plastic domestic water piping components. Include marking "NSF-pw" on plastic potable-water piping and "NSF-dwv" on plastic drain, waste, and vent piping.
2. Comply with NSF 61, "Drinking Water System Components--Health Effects, Sections 1 through 9," for potable domestic water plumbing specialties.

1.7 EXTRA MATERIALS

A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Operating Key Handles: Equal to 100 percent of amount installed for each key-operated hose bibb and hydrant installed.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where subparagraph titles below introduce lists, the following requirements apply for product selection:
1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the manufacturers specified.
2. Manufacturers: Subject to compliance with requirements, provide products by the manufacturers specified.

2.2 BACKFLOW PREVENTERS

A. Available Manufacturers:

B. Manufacturers:
1. B & K Industries, Inc.
2. Cla-Val Co.
3. Conbraco Industries, Inc.
4. Mueller Co.; Hersey Meters Div.
5. Park Equipment.
6. Watts Industries, Inc.; Water Products Div.
7. Zurn Industries, Inc.; Wilkins Div.

C. General: ASSE standard, backflow preventers.

1. NPS 2 (DN 50) and Smaller: Bronze body with threaded ends.
2. NPS 2-1/2 (DN 65) and Larger: Bronze, cast-iron, steel, or stainless-steel body with flanged ends.

    a. Interior Lining: AWWA C550 or FDA-approved, epoxy coating for backflow preventers having cast-iron or steel body.

3. Interior Components: Corrosion-resistant materials.
4. Exterior Finish: Polished chrome plate if used in chrome-plated piping system.
5. Strainer: On inlet, if indicated.

D. Pipe-Applied, Atmospheric-Type Vacuum Breakers: ASSE 1001, with floating disc and atmospheric vent.

E. Hose-Connection Vacuum Breakers: ASSE 1011, nickel plated, with nonremovable and manual drain features, and ASME B1.20.7, garden-hose threads on outlet. Units attached to rough-bronze-finish hose connections may be rough bronze.

F. Intermediate Atmospheric-Vent Backflow Preventers: ASSE 1012, suitable for continuous pressure application. Include inlet screen and two independent check valves with intermediate atmospheric vent.

G. Reduced-Pressure-Principle Backflow Preventers: ASSE 1013, suitable for continuous pressure application. Include outside screw and yoke gate valves on inlet and outlet, and strainer on inlet; test cocks; and pressure-differential relief valve with ASME A112.1.2 air-gap fitting located between two positive-seating check valves.

1. Pressure Loss: 12 psig (83 kPa) maximum, through middle 1/3 of flow range.

H. Double-Check Backflow Prevention Assemblies: ASSE 1015, suitable for continuous pressure application. Include shutoff valves on inlet and outlet, and strainer on inlet; test cocks; and two positive-seating check valves.

1. Pressure Loss: 5 psig (35 kPa) maximum, through middle 1/3 of flow range.

I. Antisiphon-Pressure-Type Vacuum Breakers: ASSE 1020, suitable for continuous pressure application. Include shutoff valves, spring-loaded check valve, spring-loaded floating disc, test cocks, and atmospheric vent.

1. Pressure Loss: 5 psig (35 kPa) maximum, through middle 1/3 of flow range.

J. Dual-Check-Valve-Type Backflow Preventers: ASSE 1024, suitable for continuous pressure application. Include union inlet and two independent check valves.

K. Dual-Check-Valve-Type Backflow Preventers: ASSE 1032, suitable for continuous pressure application for carbonated beverage dispensers. Include stainless-steel body; primary and secondary checks; ball check; intermediate atmospheric-vent port for relieving carbon dioxide; and threaded ends, NPS 3/8 (DN 10).

L. Laboratory Faucet Vacuum Breakers: ASSE 1035, suitable for continuous pressure application and chrome plated; consisting of primary and secondary checks; intermediate vacuum breaker; and threaded ends, NPS 1/4 or NPS 3/8 (DN 8 or DN 10) as required.

M. Reduced-Pressure Detector Assembly Backflow Preventers: ASSE 1047, FM approved or UL listed, and suitable for continuous pressure application. Include outside screw and yoke gate valves on inlet and outlet, and strainer on inlet. Include test cocks; pressure-differential relief valve with ASME A112.1.2 air-gap fitting located between two positive-seating check valves; and bypass with displacement-type water meter, valves, and reduced-pressure backflow preventer.

1. Pressure Loss: 12 psig (83 kPa) maximum, through middle 1/3 of flow range.

N. Double-Check Detector Assembly Backflow Preventers: ASSE 1048, FM approved or UL listed, and suitable for continuous pressure application. Include outside screw and yoke gate valves on inlet and outlet, and strainer on inlet. Include test cocks; two positive-seating check valves; and bypass with displacement-type water meter, valves, and double-check backflow preventer.

1. Pressure Loss: 5 psig (35 kPa) maximum, through middle 1/3 of flow range.

O. Hose-Connection Backflow Preventers: ASSE 1052, suitable for at least 3-gpm (0.19-L/s) flow and applications with up to 10-foot head of water (30-kPa) back pressure. Include two check valves; intermediate atmospheric vent; and nonremovable, ASME B1.20.7, garden-hose threads on outlet.

P. Back-Siphonage Backflow Vacuum Breakers: ASSE 1056, suitable for continuous pressure and backflow applications. Include shutoff valves, check valve, test cocks, and vacuum vent.

2.3 DISHWASHER AIR-GAP FITTINGS

A. Description: ASSE 1021, fitting suitable for use with domestic dishwashers and for deck mounting; with plastic body, chrome-plated brass cover; and capacity of at least 5 gpm (0.32 L/s); and inlet pressure of at least 5 psig (35 kPa) at temperature of at least 140 deg F (60 deg C). Include 5/8-inch- (16-mm-) ID inlet and 7/8-inch- (22-mm-) ID outlet hose connections.

B. Hoses: Rubber and suitable for temperature of at least 140 deg F (60 deg C).

1. Inlet Hose: 5/8-inch- (16-mm-) ID and 48 inches long.
2. Outlet Hose: 7/8-inch- (22-mm-) ID and 48 inches long.

2.4 WATER REGULATORS

A. Available Manufacturers:
1. Cla-Val Co.
2. Conbraco Industries, Inc.
3. Watts Industries, Inc.; Water Products Div.
4. Zurn Industries, Inc.; Wilkins Div.

B. General: ASSE 1003, water regulators, rated for initial working pressure of 150 psig (1035 kPa) minimum. Include integral factory-installed or separate field-installed, Y-pattern strainer.

1. NPS 2 (DN 50) and Smaller: Bronze body with threaded ends.

   a. General-Duty Service: Single-seated, direct operated, unless otherwise indicated.
   b. Booster Heater Water Supply: Single-seated, direct operated with integral bypass.

2. NPS 2-1/2 (DN 65) and Larger: Bronze or cast-iron body with flanged ends. Include AWWA C550 or FDA-approved, interior epoxy coating for regulators with cast-iron body.

   a. Type: Single-seated, direct operated.
   b. Type: Pilot-operated, single- or double-seated, cast-iron-body main valve, with bronze-body pilot valve.

3. Interior Components: Corrosion-resistant materials.
4. Exterior Finish: Polished chrome plate if used in chrome-plated piping system.

2.5 BALANCING VALVES

A. Calibrated Balancing Valves: Adjustable, with two readout ports and memory setting indicator. Include manufacturer's standard hoses, fittings, valves, differential pressure meter, and carrying case.

1. Available Manufacturers:

   a. Amtrol, Inc.
   b. Flow Design, Inc.
   c. ITT Industries; Bell & Gossett Div.
   d. Watts Industries, Inc.; Water Products Div.

2. NPS 2 (DN 50) and Smaller: Bronze body with brass ball, adjustment knob, calibrated nameplate, and threaded or solder-joint ends.
3. NPS 2 (DN 50) and Smaller: Bronze, Y-pattern body with adjustment knob and threaded ends.
4. NPS 2-1/2 (DN 65) and Larger: Cast-iron, Y-pattern body with bronze disc and flanged or grooved ends.

B. Memory-Stop Balancing Valves, NPS 2 (DN 50) and Smaller: MSS SP-110, ball valve, rated for 400-psig (2760-kPa) minimum CWP. Include two-piece, copper-alloy body with standard or full-port, chrome-plated brass ball, replaceable seats and seals, threaded or solder-joint ends, and vinyl-covered steel handle with memory-stop device.

1. Available Manufacturers:

   a. Conbraco Industries, Inc.
   b. Crane Co.
   c. Grinnell Corporation.

d. Hammond Valve.
e. Milwaukee Valve Company.
f. NIBCO INC.
g. Red-White Valve Corp.

2.6 THERMOSTATIC WATER MIXING VALVES

A. Manufacturers:
1. Bradley.
2. Lawler Manufacturing Company, Inc.
3. Leonard Valve Company.
4. Powers.
5. Symmons Industries, Inc.
6. T & S Brass and Bronze Works, Inc.

B. General: ASSE 1017, manually adjustable, thermostatic water mixing valve with bronze body. Include check stop and union on hot- and cold-water-supply inlets, adjustable temperature setting, and thermometer. Refer to plumbing schedules for further information.

2.7 WATER TEMPERING VALVES

A. Available Manufacturers:

B. Manufacturers:

1. Heat-Timer Corporation.
2. Holby Valve Co., Inc.
3. Sparco, Inc.
4. Watts Industries, Inc.; Water Products Div.

C. General: Manually adjustable, thermostatically controlled water tempering valve; bronze body; and adjustable temperature setting.

D. System Water Tempering Valves: Piston or discs controlling both hot- and cold-water flow, capable of limited antiscald protection. Include threaded inlets and outlet.

1. Finish: [**Rough bronze**] [**Chrome plated**].

E. Limited-Volume, Water Tempering Valves: Solder-joint inlets and NPS 3/4 (DN 20) maximum outlet.

2.8 STRAINERS

A. Strainers: Y-pattern, unless otherwise indicated, and full size of connecting piping. Include ASTM A 666, Type 304, stainless-steel screens with 3/64-inch (1.2-mm) round perforations, unless otherwise indicated.

1. Pressure Rating: 125-psig (860-kPa) minimum steam working pressure, unless otherwise indicated.

2. NPS 2 (DN 50) and Smaller: Bronze body, with female threaded ends.
3. NPS 2-1/2 (DN 65) and Larger: Cast-iron body, with interior AWWA C550 or FDA-approved, epoxy coating and flanged ends.
4. Y-Pattern Strainers: Screwed screen retainer with centered blowdown.

    a. Drain: Factory- or field-installed, hose-end drain valve.

2.9 OUTLET BOXES

A. Available Manufacturers:

1. Acorn Engineering Company.
2. Gray, Guy Manufacturing Co., Inc.
3. Oatey.
4. Symmons Industries, Inc.
5. Zurn Industries, Inc.; Jonespec Div.

B. General: Recessed-mounting outlet boxes with supply fittings complying with ASME A112.18.1M. Include box with faceplate, services indicated for equipment connections, and wood-blocking reinforcement.

C. Clothes Washer Outlet Boxes: With hot- and cold-water hose connections and drain. Refer to plumbing schedules for further information.

D. Icemaker Outlet Boxes: With hose connection. Refer to plumbing schedules for further information.

E. Reinforcement: 2-by-4-inch (38-by-89-mm) fire-retardant-treated-wood blocking between studs. Fire-retardant-treated-wood blocking is specified in Division 6 Section "Rough Carpentry."

2.10 HOSE STATIONS

A. Available Manufacturers:
1. Leonard Valve Company.
2. Strahman Valves, Inc.
3. T & S Brass and Bronze Works, Inc.

B. General: Assembly with fitting complying with ASME A112.18.1M and hose-connection outlet with threads complying with ASME B1.20.7. Refer to plumbing schedules for further information.

2.11 KEY-OPERATION HYDRANTS

A. Available Manufacturers:

1. Josam Co.
2. Simmons Manufacturing Co.
3. Smith, Jay R. Mfg. Co.

4. Tyler Pipe; Wade Div.
5. Watts Industries, Inc.
6. Woodford Manufacturing Co.
7. Zurn Industries.

B. General: ASME A112.21.3M, key-operation hydrant with pressure rating of 125 psig (860 kPa). Refer to plumbing schedule for further information.

2.12 WHEEL-HANDLE WALL HYDRANTS

A. Available Manufacturers:
1. B & K Industries, Inc.
2. NIBCO INC.
3. Sioux Chief Manufacturing Co., Inc.
4. Watts Industries, Inc.; Water Products Div.
5. Woodford Manufacturing Co.
6. Zurn Industries, Inc.; Jonespec Div.

B. Refer to plumbing schedule for further information.

2.13 NONDRAINING NONFREEZE POST HYDRANTS

A. General: All-metal lever operation with nondraining water-storage reservoir, designed without drain and to be freezeproof with components of at least length required for burial of valve and water storage reservoir below frost line. Refer to plumbing schedule for further information.

2.14 TRAP SEAL PRIMER VALVES

A. Supply-Type Trap Seal Primer Valves: ASSE 1018, water-supply-fed type, with the following characteristics:

1. Available Manufacturers:
   a. Josam Co.
   b. MIFAB Manufacturing, Inc.
   c. Precision Plumbing Products, Inc.
   d. Smith.
   e. Wade.
   f. Watts Industries, Inc.
   g. Zurn Industries.

2. 125-psig (860-kPa) minimum working pressure.
3. Bronze body with atmospheric-vented drain chamber.
4. Inlet and Outlet Connections: NPS 1/2 (DN 15) threaded, union, or solder joint.
5. Gravity Drain Outlet Connection: NPS 1/2 (DN 15) threaded or solder joint.
6. Finish: Chrome plated, or rough bronze for units used with pipe or tube that is not chrome finished.

B. Drainage-Type Trap Seal Primer Valves: ASSE 1044, fixture-trap, waste-drainage-fed type, with the following characteristics:

1. Chrome-plated, cast-brass, NPS 1-1/4 (DN 32) minimum, lavatory P-trap with NPS 3/8 (DN 10) minimum, trap makeup connection.

C. Trap Seal Primer System: Factory-fabricated, automatic-operation assembly for wall mounting with the following:

1. Piping: NPS 3/4, ASTM B 88, Type L (DN 20, ASTM B 88M, Type B); copper, water tubing inlet and manifold with number of NPS 1/2 (DN 15) outlets as indicated.
2. Cabinet: Steel box with stainless-steel cover.
3. Electric Controls: 24-hour timer, solenoid valve, and manual switch for 120-V ac power.
4. Water Hammer Arrester: ASSE 1010.
5. Vacuum Breaker: ASSE 1001.

2.15 DRAIN VALVES

A. Hose-End Drain Valves: MSS SP-110, NPS 3/4 (DN 20) ball valve, rated for 400-psig (2760-kPa) minimum CWP. Include two-piece, copper-alloy body with standard port, chrome-plated brass ball, replaceable seats and seals, blowout-proof stem, and vinyl-covered steel handle.

1. Inlet: Threaded or solder joint.
2. Outlet: Short-threaded nipple with ASME B1.20.7, garden-hose threads and cap.

B. Hose-End Drain Valve: MSS SP-80, gate valve, Class 125, ASTM B 62 bronze body, with NPS 3/4 (DN 20) threaded or solder-joint inlet and ASME B1.20.7, garden-hose threads on outlet and cap. Hose bibbs are prohibited for this application.

C. Stop-and-Waste Drain Valves: MSS SP-110, ball valve, rated for 200-psig (1380-kPa) minimum CWP or MSS SP-80, Class 125, gate valve; ASTM B 62 bronze body, with NPS 1/8 (DN 6) side drain outlet and cap.

2.16 BACKWATER VALVES

A. Available Manufacturers:

1. Josam Co.
2. Smith, Jay R. Mfg. Co.
3. Watts Industries, Inc.; Drainage Products Div.
4. Zurn Industries, Inc.; Specification Drainage Operation.

B. Horizontal Backwater Valves: ASME A112.14.1, cast-iron body, with removable bronze swing-check valve and threaded or bolted cover.

1. Closed-Position Check Valve: Factory assembled or field modified to hang closed unless subject to backflow condition.
2. Open-Position Check Valve: Factory assembled or field modified to hang open for airflow.

3. Extension: ASTM A 74, Service class; full-size, cast-iron, soil-pipe extension to field-installed cleanout at floor, instead of cover.

C. Drain Outlet Backwater Valves: Cast-iron or bronze body, with removable ball float, threaded inlet, and threaded or spigot outlet for installation in bottom outlet of floor drain.

2.17 MISCELLANEOUS PIPING SPECIALTIES

A. Water Hammer Arresters: ASSE 1010 or PDI-WH 201, metal-bellows type with pressurized metal cushioning chamber. Sizes indicated are based on ASSE 1010 or PDI-WH 201, Sizes A through F.

1. Available Manufacturers:

a. Josam Co.
b. Smith, Jay R. Mfg. Co.
c. Tyler Pipe; Wade Div.
d. Zurn Industries, Inc.; Specification Drainage Operation.

B. Water Hammer Arresters: ASSE 1010 or PDI-WH 201, piston type with pressurized metal-tube cushioning chamber. Sizes indicated are based on ASSE 1010, Sizes AA and A through F or PDI-WH 201, Sizes A through F.

1. Available Manufacturers:
a. Josam Co.
b. Precision Plumbing Products, Inc.
c. Sioux Chief Manufacturing Co., Inc.
d. Watts Industries, Inc.
e. Zurn Industries, Inc.

C. Hose Bibbs: Bronze body with replaceable seat disc complying with ASME A112.18.1M for compression-type faucets. Include NPS 1/2 or NPS 3/4 (DN 15 or DN 20) threaded or solder-joint inlet, of design suitable for pressure of at least 125 psig (860 kPa); integral nonremovable, drainable hose-connection vacuum breaker; and garden-hose threads complying with ASME B1.20.7 on outlet.

1. Finish for Equipment Rooms: Rough bronze, or chrome or nickel plated.
2. Finish for Service Areas: Rough bronze.
3. Finish for Finished Rooms: Chrome or nickel plated.
4. Operation for Equipment Rooms: Wheel handle or operating key.
5. Operation for Service Areas: Operating key.
6. Operation for Finished Rooms: Operating key.
7. Include operating key with each operating-key hose bibb.
8. Include wall flange with each chrome- or nickel-plated hose bibb.

D. Air Vents: Float type for automatic air venting.

1. Bolted Construction: Bronze body with replaceable, corrosion-resistant metal float and stainless-steel mechanism and seat; threaded NPS 3/8 (DN 10) minimum inlet; 125-psig (860-kPa) minimum pressure rating at 140 deg F (60 deg C); and threaded vent outlet.

2. Welded Construction: Stainless-steel body with corrosion-resistant metal float, stainless-steel mechanism and seat, threaded NPS 3/8 (DN 10) minimum inlet, 150-psig (1035-kPa) minimum pressure rating, and threaded vent outlet.

E. Air-Admittance Valves: Plastic housing with mechanical-operation sealing diaphragm, designed to admit air into drainage and vent piping and to prevent transmission of sewer gas into building.

1. Available Manufacturers:

   a. B & K Industries, Inc.
   b. IPS Corporation.
   c. J & B Products.
   d. Oatey.
   e. Sioux Chief Manufacturing Co., Inc.

2. Stack Vent Valve: ASSE 1050, designed for installation as terminal on soil, waste, and vent stacks, instead of stack vent extending through roof, in NPS 2 to NPS 4 (DN 50 to DN 100).
3. Fixture Vent Valve: ASSE 1051, designed for installation on waste piping, instead of vent connection, for single fixture, in NPS 1-1/4 to NPS 2 (DN 32 to DN 50).

F. Roof Flashing Assemblies: Manufactured assembly made of 4-lb/sq. ft., 0.0625-inch- thick, lead flashing collar and skirt extending at least 8 inches from pipe with galvanized steel boot reinforcement, and counterflashing fitting.

1. Available Manufacturers:
2. Manufacturers:

   a. Acorn Engineering Company; Elmdor/Stoneman Div.

3. Open-Top Vent Cap: Without cap.
4. Low-Silhouette Vent Cap: With vandal-proof vent cap.
5. Extended Vent Cap: With field-installed, vandal-proof vent cap.

G. Open Drains: Shop or field fabricate from ASTM A 74, Service class, hub-and-spigot, cast-iron, soil-pipe fittings. Include P-trap, hub-and-spigot riser section; and where required, increaser fitting, joined with ASTM C 564, rubber gaskets.

H. Deep-Seal Traps: Cast-iron or bronze casting, with inlet and outlet matching connected piping and cleanout trap seal primer valve connection.

1. NPS 2 (DN 50): 4-inch- (100-mm-) minimum water seal.
2. NPS 2-1/2 (DN 65) and Larger: 5-inch- (125-mm-) minimum water seal.

I. Floor-Drain Inlet Fittings: Cast iron, with threaded inlet and threaded or spigot outlet, and trap seal primer valve connection.

J. Fixed Air-Gap Fittings: Manufactured cast-iron or bronze drainage fitting with semiopen top with threads or device to secure drainage inlet piping in top and bottom spigot or threaded outlet

larger than top inlet. Include design complying with ASME A112.1.2 that will provide fixed air gap between installed inlet and outlet piping.

K. Stack Flashing Fittings: Counterflashing-type, cast-iron fitting, with bottom recess for terminating roof membrane, and with threaded or hub top for extending vent pipe.

L. Vent Caps: Cast-iron body with threaded or hub inlet and vandal-proof design. Include vented hood and set-screws to secure to vent pipe.

M. Vent Terminals: Commercially manufactured, shop- or field-fabricated, frost-proof assembly constructed of galvanized steel, copper, or lead-coated copper. Size to provide 1-inch (25-mm) enclosed air space between outside of pipe and inside of flashing collar extension, with counterflashing.

N. Expansion Joints: ASME A112.21.2M, assembly with cast-iron body with bronze sleeve, packing gland, and packing; of size and end types corresponding to connected piping.

O. Downspout Boots: ASTM A 48 (ASTM A 48M), gray-iron casting, with NPS 4 (DN 100) outlet; shop-applied bituminous coating; and inlet size to match downspout.

P. Downspout Boots: ASTM A 74, Service class, hub-and-spigot, cast-iron soil pipe.

Q. Conductor Nozzles: Bronze body with threaded inlet for connected conductor size, and bronze wall flange with mounting holes.

1. Finish: Nickel bronze.

2.18 SLEEVE PENETRATION SYSTEMS

A. Available Manufacturers:

1. ProSet Systems, Inc.

B. Description: UL 1479, through-penetration firestop assembly consisting of sleeve and stack fitting with firestopping plug.

1. Sleeve: Molded PVC plastic, of length to match slab thickness and with integral nailing flange on one end for installation in cast-in-place concrete slabs.
2. Stack Fitting: ASTM A 48 (ASTM A 48M), gray-iron, hubless-pattern, wye-branch stack fitting with neoprene O-ring at base and gray-iron plug in thermal-release harness in branch. Include PVC protective cap for plug.

a. Special Coating: Include corrosion-resistant interior coating on fittings for plastic chemical waste and vent stacks.

2.19 FLASHING MATERIALS

A. Lead Sheet: ASTM B 749, Type L51121, copper bearing, with the following minimum weights and thicknesses, unless otherwise indicated:

1. General Use: 4-lb/sq. ft. (20-kg/sq. m), 0.0625-inch (1.6-mm) thickness.
2. Vent Pipe Flashing: 3-lb/sq. ft. (15-kg/sq. m), 0.0469-inch (1.2-mm) thickness.
3. Burning: 6-lb/sq. ft. (30-kg/sq. m), 0.0938-inch (2.4-mm) thickness.

B. Copper Sheet: ASTM B 152 (ASTM B 152M), of the following minimum weights and thicknesses, unless otherwise indicated:

1. General Applications: 12 oz./sq. ft. (3.7 kg/sq. m or 0.41-mm thickness).
2. Vent Pipe Flashing: 8 oz./sq. ft. (2.5 kg/sq. m or 0.27-mm thickness).

C. Zinc-Coated Steel Sheet: ASTM A 653/A 653M, with 0.20 percent copper content and 0.04-inch (1.01-mm) minimum thickness, unless otherwise indicated. Include G90 (Z275) hot-dip galvanized, mill-phosphatized finish for painting if indicated.

D. Elastic Membrane Sheet: ASTM D 4068, flexible, chlorinated polyethylene, 40-mil (1.01-mm) minimum thickness.

E. Fasteners: Metal compatible with material and substrate being fastened.

F. Metal Accessories: Sheet metal strips, clamps, anchoring devices, and similar accessory units required for installation; matching or compatible with material being installed.

G. Solder: ASTM B 32, lead-free alloy.

H. Bituminous Coating: SSPC-Paint 12, solvent-type, bituminous mastic.

2.20 CLEANOUTS

A. Cleanouts,: Comply with ASME A112.3.1.

1. Application: Floor cleanout and wall cleanout.
2. Manufacturer:
    a. Josam Co.
    b. Smith.
    c. Wade.
    d. Zurn.
3. Refer to Plumbing Schedule for Specification Standards.

2.21 FLOOR DRAINS

A. Floor Drains,: Comply with ASME A112.3.1.

1. Application: Floor drain.
2. Manufacturer:
    a. Josam Co.
    b. MiFab.
    c. Smith.
    d. Wade Div.

e. Zurn Industries.

3. Refer to Plumbing Schedule for Specification Standards.

2.22 TRENCH DRAINS

A. Trench Drains: Comply with ASME A112.3.1.

1. Manufacturer:

a. Josam Co.
b. Smith.
c. Wade Div.
d. Zurn Industries.

2. Refer to Plumbing Schedule for Specification Standards.

2.23 ROOF DRAINS

A. Roof Drains,: Comply with ASME A112.3.1.

1. Application: Roof drain.
2. Manufacturer:

a. Josam Co.
b. Smith.
c. Wade Div.
d. Zurn Industries.

3. Refer to Plumbing Schedule for Specification Standards.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Refer to Division 15 Section "Basic Mechanical Materials and Methods" for piping joining materials, joint construction, and basic installation requirements.

B. Install backflow preventers in each water supply to mechanical equipment and systems and to other equipment and water systems that may be sources of contamination. Comply with authorities having jurisdiction.

1. Locate backflow preventers in same room as connected equipment or system.
2. Install drain for backflow preventers with atmospheric-vent drain connection with air-gap fitting, fixed air-gap fitting, or equivalent positive pipe separation of at least two pipe diameters in drain piping and pipe to floor drain. Locate air-gap device attached to or under backflow preventer. Simple air breaks are not acceptable for this application.
3. Do not install bypass piping around backflow preventers.

C. Install pressure regulators with inlet and outlet shutoff valves and balance valve bypass. Install pressure gages on inlet and outlet.

D. Install strainers on supply side of each control valve, pressure regulator, and solenoid valve.

E. Install draining-type ground and ground post hydrants with 1 cu. yd. of crushed gravel around drain hole.

1. Set ground hydrants with box flush with grade.
2. Set post hydrants in concrete paving or in 1 cu. ft. of concrete block at grade.

F. Install trap seal primer valves with outlet piping pitched down toward drain trap a minimum of 1 percent and connect to floor-drain body, trap, or inlet fitting. Adjust valve for proper flow.

G. Install backwater valves in building drain piping. For interior installation, provide cleanout deck plate flush with floor and centered over backwater valve cover, and of adequate size to remove valve cover for servicing.

H. Install expansion joints on vertical risers, stacks, and conductors if indicated.

I. Install cleanouts in aboveground piping and building drain piping according to the following, unless otherwise indicated:

1. Size same as drainage piping up to NPS 4 (DN 100). Use NPS 4 (DN 100) for larger drainage piping unless larger cleanout is indicated.
2. Locate at each change in direction of piping greater than 45 degrees.
3. Locate at minimum intervals of 50 feet (15 m) for piping NPS 4 (DN 100) and smaller and 100 feet (30 m) for larger piping.
4. Locate at base of each vertical soil and waste stack.

J. Install cleanout deck plates with top flush with finished floor, for floor cleanouts for piping below floors.

K. Install cleanout wall access covers, of types indicated, with frame and cover flush with finished wall, for cleanouts located in concealed piping.

L. Install flashing flange and clamping device with each stack and cleanout passing through floors with waterproof membrane.

M. Install vent flashing sleeves on stacks passing through roof. Secure over stack flashing according to manufacturer's written instructions.

N. Install floor drains at low points of surface areas to be drained. Set grates of drains flush with finished floor, unless otherwise indicated.

1. Position floor drains for easy access and maintenance.
2. Set floor drains below elevation of surrounding finished floor to allow floor drainage. Set with grates depressed according to the following drainage area radii:

a. Radius, 30 Inches (750 mm) or Less: Equivalent to 1 percent slope, but not less than 1/4-inch (6.35-mm) total depression.
b. Radius, 30 to 60 Inches (750 to 1500 mm): Equivalent to 1 percent slope.
c. Radius, 60 Inches (1500 mm) or Larger: Equivalent to 1 percent slope, but not greater than 1-inch (25-mm) total depression.

3. Install floor-drain flashing collar or flange so no leakage occurs between drain and adjoining flooring. Maintain integrity of waterproof membranes where penetrated.
4. Install individual traps for floor drains connected to sanitary building drain, unless otherwise indicated.

O. Install roof drains at low points of roof areas according to roof membrane manufacturer's written installation instructions.

1. Install roof-drain flashing collar or flange so no leakage occurs between drain and adjoining roofing. Maintain integrity of waterproof membranes where penetrated.
2. Position roof drains for easy access and maintenance.

P. Install interceptors, including trapping, venting, and flow-control fitting, according to authorities having jurisdiction and with clear space for servicing.

1. Above-Floor Installation: Set unit with bottom resting on floor, unless otherwise indicated.
2. Flush with Floor Installation: Set unit and extension, if required, with cover flush with finished floor.
3. Recessed Floor Installation: Set unit in receiver housing having bottom or cradle supports, with receiver housing cover flush with finished floor.
4. Install cleanout immediately downstream from interceptors not having integral cleanout on outlet.
5. Coordinate oil-interceptor storage tank and gravity drain with Division 2 Section "Fuel-Oil Distribution."

Q. Fasten wall-hanging plumbing specialties securely to supports attached to building substrate if supports are specified and to building wall construction if no support is indicated.

R. Fasten recessed-type plumbing specialties to reinforcement built into walls.

S. Install wood-blocking reinforcement for wall-mounting and recessed-type plumbing specialties.

T. Install individual shutoff valve in each water supply to plumbing specialties. Use ball, gate, or globe valve if specific valve is not indicated. Install shutoff valves in accessible locations. Refer to Division 15 Section "Valves" for general-duty ball, butterfly, check, gate, and globe valves.

U. Install air vents at piping high points. Include ball, gate, or globe valve in inlet.

V. Install traps on plumbing specialty drain outlets. Omit traps on indirect wastes unless trap is indicated.

W. Install escutcheons at wall, floor, and ceiling penetrations in exposed finished locations and within cabinets and millwork. Use deep-pattern escutcheons if required to conceal protruding pipe fittings.

3.2 CONNECTIONS

A. Piping installation requirements are specified in other Division 15 Sections. Drawings indicate general arrangement of piping, fittings, and specialties.

B. Install piping adjacent to equipment to allow service and maintenance.

C. Connect plumbing specialties to piping specified in other Division 15 Sections.

D. Ground equipment.

E. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.

F. Connect plumbing specialties and devices that require power according to Division 16 Sections.

G. Interceptor Connections: Connect piping, flow-control fittings, and accessories.

1. Grease Interceptors: Connect inlet and outlet to unit, and flow-control fitting and vent to unit inlet piping. Install valve on outlet of automatic drawoff-type unit.
2. Oil Interceptors: Connect inlet, outlet, vent, and gravity drawoff piping to unit; flow-control fitting and vent to unit inlet piping; and gravity drawoff and suction piping to oil storage tank.
3. Solids Interceptors: Connect inlet and outlet.

3.3 FLASHING INSTALLATION

A. Fabricate flashing from single piece unless large pans, sumps, or other drainage shapes are required. Join flashing according to the following if required:

1. Lead Sheets: Burn joints of lead sheets 6-lb/sq. ft. (30-kg/sq. m), 0.0938-inch (2.4-mm) thickness or thicker. Solder joints of lead sheets 4-lb/sq. ft. (20-kg/sq. m), 0.0625-inch (1.6-mm) thickness or thinner.
2. Copper Sheets: Solder joints of copper sheets.

B. Install sheet flashing on pipes, sleeves, and specialties passing through or embedded in floors and roofs with waterproof membrane.

1. Pipe Flashing: Sleeve type, matching pipe size, with minimum length of 10 inches (250 mm), and skirt or flange extending at least 8 inches (200 mm) around pipe.
2. Sleeve Flashing: Flat sheet, with skirt or flange extending at least 8 inches (200 mm) around sleeve.
3. Embedded Specialty Flashing: Flat sheet, with skirt or flange extending at least 8 inches (200 mm) around specialty.

C. Set flashing on floors and roofs in solid coating of bituminous cement.

D. Secure flashing into sleeve and specialty clamping ring or device.

E. Install flashing for piping passing through roofs with counterflashing or commercially made flashing fittings, according to Division 7 Section "Sheet Metal Flashing and Trim."

F. Extend flashing up vent pipe passing through roofs and turn down into pipe, or secure flashing into cast-iron sleeve having calking recess.

G. Fabricate and install flashing and pans, sumps, and other drainage shapes.

3.4 LABELING AND IDENTIFYING

A. Equipment Nameplates and Signs: Install engraved plastic-laminate equipment nameplate or sign on or near each backflow preventer thermostatic water mixing valve water tempering valve grease interceptor and oil interceptor.

1. Text: Distinguish among multiple units, inform operator of operational requirements, indicate safety and emergency precautions, and warn of hazards and improper operations, in addition to identifying unit.
2. Refer to Division 15 Section "Basic Mechanical Materials and Methods Mechanical Identification" for nameplates and signs.

3.5 PROTECTION

A. Protect drains during remainder of construction period to avoid clogging with dirt and debris and to prevent damage from traffic and construction work.

B. Place plugs in ends of uncompleted piping at end of each day or when work stops.

3.6 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain equipment. Refer to Division 1 Section "Closeout Procedures."

END OF SECTION 15430

15732 - Rooftop Units

Packaged Rooftop Units

Part 1 - General

1.01 Related Documents

1.02 General Description

A. This section includes the design, controls and installation requirements for packaged rooftop units.

1.03 Quality Assurance

A. Packaged air-cooled condenser units shall be certified in accordance with ANSI/AHRI Standard 340/360 performance rating of commercial and industrial unitary air-conditioning and heat pump equipment for units greater than 6 tons.

B. Packaged air-cooled condenser units shall be certified in accordance with ANSI/AHRI Standard 210/240 performance rating of commercial and industrial unitary air-conditioning and heat pump equipment for units less than 6 tons.

C. Unit and refrigeration system shall comply with ASHRAE 15, Safety Standard for Mechanical Refrigeration.

D. Unit shall be certified in accordance with UL Standard 1995/CSA C22.2 No. 236, Safety Standard for Heating and Cooling Equipment.

E. Unit Energy Efficiency Ratio (EER) shall be equal to or greater than prescribed by ASHRAE 90.1, Energy Efficient Design of New Buildings except Low-Rise Residential Buildings.

F. Unit shall be safety certified by ETL and be ETL US and ETL Canada listed. Unit nameplate shall include the ETL/ETL Canada label.

1.04 Submittals

A. Product Data: Literature shall be provided that indicates dimensions, operating and shipping weights, capacities, ratings, fan performance, filter information, factory supplied accessories, electrical characteristics and connection requirements. Installation, Operation and Maintenance manual with startup requirements shall be provided.

B. Shop Drawings: Unit drawings shall be provided that indicate assembly, unit dimensions, construction details, clearances, and connection details. Computer generated fan curves for each fan shall be submitted with specific design operation point noted. Wiring diagram shall be provided with details for both power and control systems and differentiate between factory installed and field installed wiring.

1.05 Delivery, Storage, and Handling

A. Unit shall be shipped with doors bolted shut and outside air hood closed to prevent damage during transport and thereafter while in storage awaiting installation.

B. Follow Installation, Operation and Maintenance manual instructions for rigging, moving, and unloading the unit at its final location.

C. Unit shall be stored in a clean, dry place protected from construction traffic in accordance with the Installation, Operation and Maintenance manual.

1.06 Warranty

A. Manufacturer shall provide a limited "parts only" warranty for a period of 12 months from the date of equipment startup or 18 months from the date of original equipment shipment from the factory, whichever is less. Warranty shall cover material and workmanship that prove defective, within the specified warranty period, provided manufacturer's written instructions for installation, operation and maintenance have been followed. Warranty excludes parts associated with routine maintenance, such as belts and air filters.

B. The manufacturer shall provide extended 48-month, parts only, warranty on the compressor.

Part 2 - Products

2.01 Manufacturer

A. Products shall be provided by the following manufacturers:

1. AAON

2. Greenheck

2.02 Rooftop Units

A. General Description

1. Packaged rooftop unit shall include compressors, evaporator coils, filters, supply fans, dampers, air-cooled condenser coils, condenser fans, modulating reheat coil, electric heaters, and unit controls.

2. Unit shall be factory assembled and tested including leak testing of the coils, pressure testing of the refrigeration circuit, and run testing of the completed unit. Run test report shall be supplied with the unit in the controls compartment's literature pocket.

3. Unit shall have decals and tags to indicate lifting and rigging, service areas and caution areas for safety and to assist service personnel.

4. Unit components shall be labeled, including pipe stub outs, refrigeration system components and electrical and controls components.

5. Estimated sound power levels (dB) shall be shown on the unit ratings sheet.

6. Installation, Operation and Maintenance manual shall be supplied within the unit.

7. Laminated color-coded wiring diagram shall match factory installed wiring and shall be affixed to the interior of the control compartment's access door.

8. Unit nameplate shall be provided in two locations on the unit, affixed to the exterior of the unit and affixed to the interior of the control compartment's access door.

B. Construction

1. All cabinet walls, access doors, and roof shall be fabricated of double wall, impact resistant, rigid polyurethane foam panels.

2. Unit insulation shall have a minimum thermal resistance R-value of 13. Foam insulation shall have a minimum density of 2 pounds/cubic foot and shall be tested in accordance with ASTM D-1929-11 for a minimum flash ignition temperature of 610°F.

3. Unit construction shall be double wall with G90 galvanized steel on both sides and a thermal break. Double wall construction with a thermal break prevents moisture accumulation on the insulation, provides a cleanable interior, prevents heat transfer through the panel, and prevents exterior condensation on the panel.

4. Unit shall be designed to reduce air leakage and infiltration through the cabinet. Cabinet leakage shall not exceed 1% of total airflow when tested at 3 times the minimum external static pressure provided in AHRI Standard 340/360 (units greater than 6 tons) and AHRI Standard 210/240 (for units 6 tons and less). Panel deflection shall not exceed L/240 ratio at 125% of design static pressure, at a maximum 8 inches of positive or negative static pressure, to reduce air leakage. Deflection shall be measured at the midpoint of the panel height and width. Continuous sealing shall be included between panels and between access doors and openings to reduce air leakage. Refrigerant piping and electrical conduit through cabinet panels shall include sealing to reduce air leakage.

5. Roof of the air tunnel shall be sloped to provide complete drainage. Cabinet shall have rain break overhangs above access doors.

6. Access to filters, dampers, cooling coils, modulating hot gas reheat coil, heaters, compressors, and electrical and controls components shall be through hinged access doors with quarter turn, zinc cast, lockable handles. Full length stainless steel piano hinges shall be included on the doors.

7. Exterior paint finish shall be capable of withstanding at least 2,500 hours, with no visible corrosive effects, when tested in a salt spray and fog atmosphere in accordance with ASTM B 117-95 test procedure.

8. Units with cooling coils shall include double sloped 304 stainless steel drain pans.

9. Unit shall be provided with base discharge and return air openings. All openings through the base pan of the unit shall have upturned flanges of at least 1/2 inch in height around the opening.

10. Unit shall include lifting lugs on the top of the unit.

C. Electrical

1. Unit shall be provided with factory installed and factory wired, non-fused disconnect switch.

2. Unit shall be provided with factory installed and factory wired 115V, 13 amp GFI outlet with outlet disconnect switch in the unit control panel.

3. Unit shall be provided with phase and brown out protection which shuts down all motors in the unit if the electrical phases are more that 10% out of balance on voltage, the voltage is more that 10% under design voltage, or on phase reversal.

4. Unit shall be provided with remote stop/start terminals which require contact closure for unit operation. When these contacts are open the low voltage circuit is broken and the unit will not operate.

D. Supply Fans

1. Unit shall include direct drive, unhoused, backward curved, plenum supply fans.

2. Blowers and motors shall be dynamically balanced and mounted on rubber isolators.

3. Motors shall be premium efficiency ODP with ball bearings rated for 200,000 hours service with external lubrication points.

G. Cooling Coils

1. Evaporator Coils

   a. Coils shall be designed for use with R-410A refrigerant and constructed of copper tubes with aluminum (copper) fins mechanically bonded to the tubes and galvanized (304 stainless) steel end casings. Fin design shall be sine wave rippled.

   b. Coils shall have interlaced circuitry and shall be **6 row high capacity.**

   c. Coils shall be helium leak tested.

   d. Coils shall be furnished with a factory installed thermostatic expansion valves.

H. Refrigeration System

1. Unit shall be factory charged with R-410A refrigerant.

2. Compressors shall be scroll type with thermal overload protection, independently circuited, and carry a 5 year non-prorated warranty, from the date of original equipment shipment from the factory.

3. Compressors shall be mounted in an isolated service compartment which can be accessed without affecting unit operation. Lockable hinged compressor access doors shall be fabricated of double wall, rigid polyurethane foam insulated panels to prevent the transmission of noise outside the cabinet.

4. Compressors shall be isolated from the base pan with the compressor manufacturer's recommended rubber vibration isolators, to reduce any transmission of noise from the compressors into the building area.

5. Each refrigeration circuit shall be equipped with thermostatic expansion valve type refrigerant flow control.

6. Each refrigeration circuit shall be equipped with automatic reset low pressure and manual reset high pressure refrigerant safety controls, Schrader type service fittings on both the high pressure and low pressure sides, and factory installed liquid line filter driers.

7. Lead refrigeration circuit shall be provided with hot gas reheat coil, modulating valves, electronic controller, supply air temperature sensor and a dehumidification control signal terminal which allow the unit to have a dehumidification mode of operation, which includes supply air temperature control to prevent supply air temperature swings and overcooling of the space.

8. Each capacity stage shall be equipped with a 5 minute off, delay timer to prevent compressor short cycling.

9. Each capacity stage shall be equipped with an adjustable, 20 second delay timer to prevent multiple capacity stages from starting all at once.

10. Units 9 tons or great shall require two independently circuited compressors.

11. Units 6 tons or less shall include a two-step compressor which shall modulate between two capacity settings, 67% and 100%.

12. For units greater than 6 tons lead and lag refrigeration circuits shall be provided with factory installed hot gas bypass to protect against evaporator frosting and to prevent excessive compressor cycling.

13. For units great than 6 tons first capacity stage shall be provided with on/off condenser fan cycling and adjustable compressor lockout to allow cooling operation down to 35°F.

I. Condensers

1. Air-Cooled Condenser

a. Condenser fans shall be vertical discharge, axial flow, direct drive fans.

b. Coils shall be designed for use with R-410A refrigerant. Coils shall be multi-pass and fabricated from aluminum microchannel tubes or coils shall be constructed of copper tubes with aluminum fins mechanically bonded to the tubes and aluminum end casings. Fin design of copper tube coils shall be sine wave rippled.

c. Coils shall be designed for a minimum of 10°F of refrigerant sub-cooling.

d. Coils shall be helium leak tested.

e. Coil shall have a flexible, epoxy polymer e-coat uniformly applied to all coil surface areas without material bridging between fins. Humidity and water immersion resistance shall be up to a minimum 1,000 and 250 hours respectively (ASTM D2247-92 and ASTM D870-92). Corrosion durability shall be confirmed through testing to no less than 6,000 hours salt spray per ASTM B117-90. Coated coils shall receive a spray-applied, UV-resistant polyurethane topcoat to prevent UV degradation of the e-coat. Coating shall carry a 5 year warranty, from the date of original equipment shipment from the factory. The first 12 months from the date of equipment startup, or 18 months from the date of original equipment shipment from the factory, whichever is less, shall be covered under the standard AAON limited parts warranty. The remaining period of the warranty shall be covered by Luvata Electrofin. The Luvata Electrofin written instructions for installation, operation, coil cleaning, maintenance, and recording keeping must be followed. Refer to the Luvata Electrofin Terms and Conditions of Sale.

K. Electric Heating

1. Unit shall include an include electric heater consisting of electric heating coils, fuses, and a high temperature limit switch, with capacities as shown on the plans.

2. Electric heating coils shall be located in the reheat position downstream of the supply fans.

M. Filters

1. Unit shall include 2 inch thick, pleated panel filters with an ASHRAE efficiency of 30% and MERV rating of 8, upstream of the cooling coil.

N. Outside Air

1. Unit shall include 0-25% motorized outside air damper assembly, bird screen, outside air hood and a return air connection.

G. Controls

2. Standard Terminal Block

a. Unit shall be provided with a terminal block for field installation of controls.

H. Accessories

1. Unit shall be provided with a terminal block for field installation of a smoke detector which shuts off the unit’s control circuit.

2.03 Curbs

A. Curbs shall to be fully gasketed between the curb top and unit bottom with the curb providing full perimeter support, cross structure support and air seal for the unit. Curb gasket shall be furnished within the control compartment of the rooftop unit to be mounted on the curb immediately before mounting of the rooftop unit.

B. Solid bottom curb shall be factory assembled and fully lined with 1 inch neoprene coated fiberglass insulation and include a wood nailer strip.

Part 3 - Execution

3.01 Installation, Start Up, Operation, and Maintenance

A. Installation, Operation and Maintenance manual shall be supplied with the unit.

B. Installing contractor shall install unit, including field installed components, in accordance with Installation, Operation and Maintenance manual instructions.

C. Factory Authorized Representative shall provide on-site Start Up of the rooftop package unit and associated controls. A startup report shall be provided detailing the completion of work and initial settings. Startup and startup report to the owner shall include the following items.

i. Compressors and Refrigerant

ii. Condenser Fans

iii. Economizer

iv. Electrical Power

v. Electric Heat

vi. Factory Installed Controls

vii. Factory Provided Field Installed Sensors

viii. Mechanical Cooling and Dehumidification System

ix. Supply Fan

x. Variable Frequency Drives

xi. Field Installed Thermostat.

D. Owner will schedule start up appointment with Factory Authorized Representative.

E. Factory Authorized Representative shall be located within 100 miles of jobsite.

F. Factory Authorized Service Technician shall be located within 100 miles of jobsite.

3.02 Factory Authorized Representative shall provide on-site training to the owner. Training shall cover operation and maintenance of the package unit and all factory provide control items. The owner shall schedule the time and date directly with the Factory Authorized Representative.

SECTION 15815 - METAL DUCTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Metal Ductwork.
2. Nonmetal ductwork.
3. Casing and plenums.
4. Kitchen hood ductwork.
5. Dishwasher exhaust ductwork.
6. Hangers and supports.

B. References:

1. ASTM A 36/A 36M - Standard Specification for Carbon Structural Steel; 1997a.
2. ASTM A 366/A 366M - Standard Specification for Commercial Steel (CS) Sheet, Carbon, (0.15 Maximum Percent) Cold Rolled; 1997.
3. ASTM A 569/A 569M - Standard Specification for Steel, Carbon (0.15 Maximum Percent), Hot-Rolled Sheet and Strip Commercial; 1998.
4. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 1998.
5. NFPA 90A - Standard for the Installation of Air Conditioning and Ventilating Systems; National Fire Protection Association; 1996.
6. NFPA 90B - Standard for the Installation of Warm Air Heating and Air Conditioning Systems; National Fire Protection Association; 1996.
7. NFPA 96 - Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations; National Fire Protection Association; 1994.
8. SMACNA (DCS) - HVAC Duct Construction Standards - Metal and Flexible; Sheet Metal and Air Conditioning Contractors' National Association; latest Edition.
9. UL 181 - Standard for Factory-Made Air Ducts and Air Connectors; Underwriters Laboratories Inc.; 1996.

1.3 PERFORMANCE REQUIREMENTS

A. Duct construction, including sheet metal thicknesses, seam and joint construction, reinforcements, and hangers and supports, shall comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible", latest edition and NFPA 90A.

B. Structural Performance: Duct hangers and supports shall withstand the effects of gravity loads and stresses within limits and under conditions described in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible".

C. Airstream Surfaces: Surfaces in contact with the airstream shall comply with requirements in ASHRAE 62.1-2004.

1.4 SUBMITTALS

A. Product Data: For each type of the following products:

1. Liners and adhesives.
2. Sealants and gaskets.
3. Duct Construction Standards (DCS) for each pressure class required for this project. DCS shall include transverse and longitudinal joint type, any internal or external reinforcement and sheetmetal thickness and size for each pressure class.
4. Flexible duct manufacturer, type and product details.
5. Flexible connection materials and connection types.
6. Fitting fabrication details.
7. Damper details.
8. Description of hanger types and sizes for duct sizes used in this project. Hangers must comply with the latest edition of SMACNA's "HVAC Duct Construction Standards - Metal and Flexible". Hanger submittal should include hanger spacing to be used.

B. Coordination Drawings: Provide drawings indicating fabrication, assembly, and installation, including plans, elevations, sections, components, and attachments to other work. Minimum scale of ¼” = 1’0”. Coordinate duct location with other trades.

C. Project Record Documents: Record actual locations of ducts and duct fittings. Record changes in fitting location and type. Show additional fittings used.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the type of products specified in this section, with minimum three years of documented experience.

B. Installer Qualifications: Company specializing in performing the type of work specified in this section, with minimum 5 years of documented experience.

1.6 ENVIRONMENTAL REQUIREMENTS

A. Do not install duct sealants when temperatures are less than those recommended by sealant manufacturers.

B. Maintain temperatures within acceptable range during and after installation of duct sealants.

PART 2 - PRODUCTS

2.1 SINGLE-WALL RECTANGULAR DUCTS AND FITTINGS

A. General Fabrication Requirements: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" based on indicated static-pressure class unless otherwise indicated.

B. Elbows, Transitions, Offsets, Branch Connections, and Other Duct Construction: Construct with a radius of not less than 1-1/2 times width of duct on centerline. Where not possible, provide a centerline radius of 1.0 times the width of duct. Where space constraints will not allow a centerline radius of 1.0 times the width of duct, provide rectangular elbows with double wall (airfoil) factory fabricated turning vanes installed on vane runner rails. Turning vanes shall not be used in bends other than 90 degrees.

1. Branch connections shall be 45 degree entry fittings.

C. Increase duct sizes gradually, not exceeding 15 degrees divergence wherever possible; maximum 30 degrees divergence upstream of equipment and 45 degrees convergence downstream.

2.2 DOUBLE-WALL RECTANGULAR DUCTS AND FITTINGS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. McGill AirFlow LLC.
2. SPOT
3. SEMCO

B. Rectangular Ducts: Fabricate ducts with indicated dimensions for the inner duct.

C. Outer Duct: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" based on indicated static-pressure class unless otherwise indicated. If duct is exposed to the weather, provide a continuous sheetmetal hat channel over all transverse joints and position openings in longitudinal seams facing in the direction of possible water flow. Provide a flexible, adhesive aluminum jacket designed for this application over entire duct surface per manufacturer’s recommendations.

D. Interstitial Insulation: Fibrous-glass liner complying with ASTM C 1071, NFPA 90A, or NFPA 90B; and with NAIMA AH124, "Fibrous Glass Duct Liner Standard."

1. Maximum Thermal Conductivity: 0.27 Btu x in./h x sq. ft. x deg F (0.039 W/m x K) at 75 deg F (24 deg C) mean temperature.
2. Install spacers that position the inner duct at uniform distance from outer duct without compressing insulation.
3. Coat insulation with antimicrobial coating.
4. Cover insulation with polyester film complying with UL 181, Class 1.
5. Insulation thickness to be 2 inches.

E. Inner Duct: Minimum 0.028-inch (0.7-mm) solid sheet steel.

2.3 SINGLE-WALL ROUND AND FLAT-OVAL DUCTS AND FITTINGS

A. General Fabrication Requirements: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Chapter 3, "Round, Oval, and Flexible Duct," based on indicated static-pressure class unless otherwise indicated.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

    a. Lindab Inc.
    b. McGill AirFlow LLC.
    c. SEMCO Incorporated.
    d. Sheet Metal Connectors, Inc.
    e. SPOT

B. Flat-Oval Ducts: Indicated dimensions are the duct width (major dimension) and diameter of the round sides connecting the flat portions of the duct (minor dimension).

C. Transverse Joints: Select joint types and fabricate according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Figure 3-2, "Transverse Joints - Round Duct," for static-pressure class, applicable sealing requirements, materials involved, duct-support intervals, and other provisions in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible."

1. Transverse Joints in Ducts Larger Than 36 Inches (1524 mm) in Diameter: Flanged.

D. Longitudinal Seams: Round and flat oval duct must be spiral seam ductwork. Longitudinal seam snap-lock duct will not be allowed.

E. Tees, Laterals and Bends: Fabricate according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Figure 3-4, "90 Degree Tees and Laterals," and Figure 3-5, "Conical Tees," for static-pressure class, applicable sealing requirements, materials involved, duct-support intervals, and other provisions in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible."

1. Elbows and bends: Construct with a radius of not less than 1-1/2 times width of duct on centerline. Where not possible, provide a centerline radius of 1.0 times the width of duct. Elbows shall be of gored, pleated or stamped construction. 90 degree bends shall be a minimum of 5-gore. 45 degree bends shall be a minimum of 3 gore. Adjustable elbows will not be allowed.

2. Branch connections shall be conical, 45 deg. entry or lateral fittings.

2.4 DOUBLE-WALL ROUND AND FLAT-OVAL DUCTS AND FITTINGS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Lindab Inc.
2. McGill AirFlow LLC.
3. SEMCO Incorporated.
4. SPOT

B. Flat-Oval Ducts: Indicated dimensions are the duct width (major dimension) and diameter of the round sides connecting the flat portions of the duct (minor dimension) of the inner duct.

C. Outer Duct: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Chapter 3, "Round, Oval, and Flexible Duct," based on static-pressure class unless otherwise indicated.

1. Transverse Joints: Select joint types and fabricate according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Figure 3-2, "Transverse Joints - Round Duct," for static-pressure class, applicable sealing requirements, materials involved, duct-support intervals, and other provisions in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible."

    a. Transverse Joints in Ducts Larger Than 36 Inches (1524 mm) in Diameter: Flanged.

2. Longitudinal Seams: Round and flat oval duct must be spiral seam ductwork. Longitudinal seam snap-lock duct will not be allowed.

3. Tees and Laterals: Select types and fabricate according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Figure 3-4, "90 Degree Tees and Laterals," and Figure 3-5, "Conical Tees," for static-pressure class, applicable sealing requirements, materials involved, duct-support intervals, and other provisions in SMACNA's "HVAC Duct Construction Standards - Metal and Flexible."

    a. Elbows and bends: Construct with a radius of not less than 1-1/2 times width of duct on centerline. Where not possible, provide a centerline radius of 1.0 times the width of duct. Elbows shall be of gored, pleated or stamped construction. 90 degree bends shall be a minimum of 5-gore. 45 degree bends shall be a minimum of 3 gore. Adjustable elbows will not be allowed.
    b. Branch connections shall be conical, 45 deg. entry or lateral fittings.

D. Inner Duct: Minimum 0.028-inch (0.7-mm) solid sheet steel.

E. Interstitial Insulation: Fibrous-glass liner complying with ASTM C 1071, NFPA 90A, or NFPA 90B; and with NAIMA AH124, "Fibrous Glass Duct Liner Standard."

1. Maximum Thermal Conductivity: [0.27 Btu x in./h x sq. ft. x deg F (0.039 W/m x K)] at 75 deg F (24 deg C) mean temperature.
2. Install spacers that position the inner duct at uniform distance from outer duct without compressing insulation.
3. Coat insulation with antimicrobial coating.
4. Cover insulation with polyester film complying with UL 181, Class 1.

2.5 SHEET METAL MATERIALS

A. General Material Requirements: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" for acceptable materials, material thicknesses, and duct construction methods unless otherwise indicated. Sheet metal materials shall be free of pitting, seam marks, roller marks, stains, discolorations, and other imperfections.

B. Galvanized Sheet Steel: Comply with ASTM A 653/A 653M.

1. Galvanized Coating Designation: G90 (Z275).
2. Finishes for Surfaces Exposed to View: Mill phosphatized.

C. Carbon-Steel Sheets: Comply with ASTM A 1008/A 1008M, with oiled, matte finish for exposed ducts.

D. Stainless-Steel Sheets: Comply with ASTM A 480/A 480M, Type 304 or 316, as indicated in the "Duct Schedule" Article; cold rolled, annealed, sheet. Exposed surface finish shall be No. 2B, No. 2D, No. 3, or No. 4 as indicated in the "Duct Schedule" Article.

E. Aluminum Sheets: Comply with ASTM B 209 (ASTM B 209M) Alloy 3003, H14 temper; with mill finish for concealed ducts, and standard, one-side bright finish for duct surfaces exposed to view.

F. Tie Rods: Galvanized steel, 3/8-inch (10-mm) minimum diameter.

2.6 DUCT LINER

A. Fibrous-Glass Duct Liner: Comply with ASTM C 1071, NFPA 90A, or NFPA 90B; and with NAIMA AH124, "Fibrous Glass Duct Liner Standard."

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

a. CertainTeed Corporation; Insulation Group.
b. Johns Manville.
c. Knauf Insulation.
d. Owens Corning.

2. Maximum Thermal Conductivity:

a. Type I, Flexible: 0.27 Btu x in./h x sq. ft. x deg F (0.039 W/m x K) at 75 deg F (24 deg C) mean temperature.
b. Type II, Rigid: 0.23 Btu x in./h x sq. ft. x deg F (0.033 W/m x K) at 75 deg F (24 deg C) mean temperature.

3. Antimicrobial Erosion-Resistant Coating: Apply to the surface of the liner that will form the interior surface of the duct to act as a moisture repellent and erosion-resistant coating. Antimicrobial compound shall be tested for efficacy by an NRTL and registered by the EPA for use in HVAC systems.

4. Water-Based Liner Adhesive: Comply with NFPA 90A or NFPA 90B and with ASTM C 916.

    a. For indoor applications, use adhesive that has a VOC content of 80 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

B. Insulation Pins and Washers:

1. Cupped-Head, Capacitor-Discharge-Weld Pins: Copper- or zinc-coated steel pin, fully annealed for capacitor-discharge welding, 0.106-inch- (2.6-mm-) diameter shank, length to suit depth of insulation indicated with integral 1-1/2-inch (38-mm) galvanized carbon-steel washer.
2. Insulation-Retaining Washers: Self-locking washers formed from 0.016-inch- (0.41-mm-) thick galvanized steel; with beveled edge sized as required to hold insulation securely in place but not less than 1-1/2 inches (38 mm) in diameter.

C. Shop Application of Duct Liner: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Figure 2-19, "Flexible Duct Liner Installation."

1. Adhere a single layer of indicated thickness of duct liner with at least 90 percent adhesive coverage at liner contact surface area. Attaining indicated thickness with multiple layers of duct liner is prohibited.
2. Apply adhesive to transverse edges of liner facing upstream that do not receive metal nosing.
3. Butt transverse joints without gaps, and coat joint with adhesive.
4. Fold and compress liner in corners of rectangular ducts or cut and fit to ensure butted-edge overlapping.
5. Do not apply liner in rectangular ducts with longitudinal joints, except at corners of ducts, unless duct size and dimensions of standard liner make longitudinal joints necessary.
6. Apply adhesive coating on longitudinal seams in ducts with air velocity of 2500 fpm (12.7 m/s).
7. Secure liner with mechanical fasteners 4 inches (100 mm) from corners and at intervals not exceeding 12 inches (300 mm) transversely; at 3 inches (75 mm) from transverse joints and at intervals not exceeding 18 inches (450 mm) longitudinally.
8. Secure transversely oriented liner edges facing the airstream with metal nosings that have either channel or "Z" profiles or are integrally formed from duct wall. Fabricate edge facings at the following locations:

    a. Fan discharges.
    b. Intervals of lined duct preceding unlined duct.
    c. Upstream edges of transverse joints in ducts where air velocities are higher than 2500 fpm (12.7 m/s) or where indicated.

9. Secure insulation between perforated sheet metal inner duct of same thickness as specified for outer shell. Use mechanical fasteners that maintain inner duct at uniform distance from outer shell without compressing insulation.

    a. Sheet Metal Inner Duct Perforations: 3/32-inch (2.4-mm) diameter, with an overall open area of 23 percent.

10. Terminate inner ducts with buildouts attached to fire-damper sleeves, dampers, turning vane assemblies, or other devices. Fabricated buildouts (metal hat sections) or other buildout means are optional; when used, secure buildouts to duct walls with bolts, screws, rivets, or welds.

2.7 SEALANT AND GASKETS

A. General Sealant and Gasket Requirements: Surface-burning characteristics for sealants and gaskets shall be a maximum flame-spread index of 25 and a maximum smoke-developed index of 50 when tested according to UL 723; certified by an NRTL.

B. Water-Based Joint and Seam Sealant:

1. Application Method: Brush on.
2. Solids Content: Minimum 65 percent.
3. Shore A Hardness: Minimum 20.
4. Water resistant.
5. Mold and mildew resistant.
6. VOC: Maximum 75 g/L (less water).
7. Maximum Static-Pressure Class: 10-inch wg (2500 Pa), positive and negative.
8. Service: Indoor or outdoor.
9. Substrate: Compatible with galvanized sheet steel (both PVC coated and bare), stainless steel, or aluminum sheets.

C. Flange Gaskets: Butyl rubber, neoprene, or EPDM polymer with polyisobutylene plasticizer.

2.8 HANGERS AND SUPPORTS

A. Hanger Rods for Noncorrosive Environments: Cadmium-plated steel rods and nuts.

B. Hanger Rods for Corrosive Environments: Electrogalvanized, all-thread rods or galvanized rods with threads painted with zinc-chromate primer after installation.

C. Strap and Rod Sizes: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Table 4-1 (Table 4-1M), "Rectangular Duct Hangers Minimum Size," and Table 4-2, "Minimum Hanger Sizes for Round Duct."

D. Steel Cables for Galvanized-Steel Ducts: Galvanized steel complying with ASTM A 603.

E. Steel Cables for Stainless-Steel Ducts: Stainless steel complying with ASTM A 492.

F. Steel Cable End Connections: Cadmium-plated steel assemblies with brackets, swivel, and bolts designed for duct hanger service; with an automatic-locking and clamping device.

G. Duct Attachments: Sheet metal screws, blind rivets, or self-tapping metal screws; compatible with duct materials.

H. Trapeze and Riser Supports:

1. Supports for Galvanized-Steel Ducts: Galvanized-steel shapes and plates.

2. Supports for Stainless-Steel Ducts: Stainless-steel shapes and plates.
3. Supports for Aluminum Ducts: Aluminum or galvanized steel coated with zinc chromate.

2.9 Insulated Flexible Ducts

2.10 Kitchen Exhaust Ducts

2.11 Dishwasher Exhaust Ducts

PART 3 - EXECUTION

3.1 DUCT INSTALLATION

A. Drawing plans, schematics, and diagrams indicate general location and arrangement of duct system. Indicated duct locations, configurations, and arrangements were used to size ducts and calculate friction loss for air-handling equipment sizing and for other design considerations. Install duct systems as indicated unless deviations to layout are approved on Shop Drawings and Coordination Drawings.

B. Install ducts according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" unless otherwise indicated.

C. Install round and flat-oval ducts in maximum practical lengths.

D. Install ducts with fewest possible joints.

E. Install factory- or shop-fabricated fittings for changes in direction, size, and shape and for branch connections.

F. Unless otherwise indicated, install ducts vertically and horizontally, and parallel and perpendicular to building lines.

G. Install ducts close to walls, overhead construction, columns, and other structural and permanent enclosure elements of building.

H. Install ducts with a clearance of 1 inch (25 mm), plus allowance for insulation thickness.

I. Route ducts to avoid passing through transformer vaults and electrical equipment rooms and enclosures.

J. Where ducts pass through non-fire-rated interior partitions and exterior walls and are exposed to view, cover the opening between the partition and duct or duct insulation with sheet metal flanges of same metal thickness as the duct. Overlap openings on four sides by at least 1-1/2 inches (38 mm).

K. Where ducts pass through fire-rated interior partitions and exterior walls, install fire dampers. Comply with requirements in Division 15 Section "Duct Accessories" for fire and smoke dampers.

L. Protect duct interiors from moisture, construction debris and dust, and other foreign materials. Comply with SMACNA's "Duct Cleanliness for New Construction Guidelines."

3.2 INSTALLATION OF EXPOSED DUCTWORK

A. Protect ducts exposed in finished spaces from being dented, scratched, or damaged.

B. Trim duct sealants flush with metal. Create a smooth and uniform exposed bead. Do not use two-part tape sealing system.

C. Grind welds to provide smooth surface free of burrs, sharp edges, and weld splatter. When welding stainless steel with a No. 3 or 4 finish, grind the welds flush, polish the exposed welds, and treat the welds to remove discoloration caused by welding.

D. Maintain consistency, symmetry, and uniformity in the arrangement and fabrication of fittings, hangers and supports, duct accessories, and air outlets.

E. Repair or replace damaged sections and finished work that does not comply with these requirements.

3.3 ADDITIONAL INSTALLATION REQUIREMENTS FOR COMMERCIAL KITCHEN HOOD EXHAUST DUCT

A. Install commercial kitchen hood exhaust ducts without dips and traps that may hold grease, and sloped a minimum of 2 percent to drain grease back to the hood.

B. Install fire-rated access panel assemblies at each change in direction and at maximum intervals of 20 feet (6 m) in horizontal ducts, and at every floor for vertical ducts, or as indicated on Drawings. Locate access panel on top or sides of duct a minimum of 1-1/2 inches (38 mm) from bottom of duct.

C. Do not penetrate fire-rated assemblies except as allowed by applicable building codes and authorities having jurisdiction.

3.4 DUCT SEALING

A. Seal all duct according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible."

B. Seal ducts to the following seal classes according to SMACNA's "HVAC Duct Construction Standards - Metal and Flexible":

1. Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible."
2. All duct: Seal Class A.

3.5 HANGER AND SUPPORT INSTALLATION

A. Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Chapter 4, "Hangers and Supports."

B. Building Attachments: Concrete inserts, powder-actuated fasteners, or structural-steel fasteners appropriate for construction materials to which hangers are being attached.

1. Where practical, install concrete inserts before placing concrete.
2. Install powder-actuated concrete fasteners after concrete is placed and completely cured.
3. Use powder-actuated concrete fasteners for standard-weight aggregate concretes or for slabs more than 4 inches (100 mm) thick.
4. Do not use powder-actuated concrete fasteners for lightweight-aggregate concretes or for slabs less than 4 inches (100 mm) thick.
5. Do not use powder-actuated concrete fasteners for seismic restraints.

C. Hanger Spacing: Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible," Table 4-1 (Table 4-1M), "Rectangular Duct Hangers Minimum Size," and Table 4-2, "Minimum Hanger Sizes for Round Duct," for maximum hanger spacing; install hangers and supports within 24 inches (610 mm) of each elbow and within 48 inches (1200 mm) of each branch intersection.

D. Hangers Exposed to View: Threaded rod and angle or channel supports.

E. Support vertical ducts with steel angles or channel secured to the sides of the duct with welds, bolts, sheet metal screws, or blind rivets; support at each floor and at a maximum intervals of 16 feet (5 m).

F. Install upper attachments to structures. Select and size upper attachments with pull-out, tension, and shear capacities appropriate for supported loads and building materials where used.

3.6 CONNECTIONS

A. Make connections to equipment with flexible connectors complying with Division 15 Section "Duct Accessories."

B. Comply with SMACNA's "HVAC Duct Construction Standards - Metal and Flexible" for branch, outlet and inlet, and terminal unit connections.

3.7 FIELD QUALITY CONTROL

A. Perform tests and inspections.

B. Leakage Tests:

1. Comply with SMACNA's "HVAC Air Duct Leakage Test Manual." Submit a test report for each test.
2. Test the following systems:

a. Ducts with a Pressure Class Higher Than 3-Inch wg (750 Pa): Test representative duct sections, selected by Engineer from sections installed**,** totaling no less than 25 percent of total installed duct area for each designated pressure class.

3. Disassemble, reassemble, and seal segments of systems to accommodate leakage testing and for compliance with test requirements.
4. Test for leaks before applying external insulation.
5. Conduct tests at static pressures equal to maximum design pressure of system or section being tested. If static-pressure classes are not indicated, test system at maximum system design pressure. Do not pressurize systems above maximum design operating pressure.
6. Give seven days' advance notice for testing.

C. Duct System Cleanliness Tests:

1. Visually inspect duct system to ensure that no visible contaminants are present.

D. Duct system will be considered defective if it does not pass tests and inspections.

E. Prepare test and inspection reports.

3.8 DUCT SCHEDULE

A. Fabricate ducts with galvanized sheet steel except as otherwise indicated and as follows:

1. Underground Ducts: Concrete-encased, PVC-coated, galvanized sheet steel**.**

B. Supply Ducts:

1. Ducts Connected to Fan Coil Units, Furnaces, Heat Pumps, and Terminal Units:

a. Pressure Class: Positive [1-inch wg (250 Pa)]
b. SMACNA Leakage Class for Rectangular: 12
c. SMACNA Leakage Class for Round and Flat Oval: 12

2. Ducts Connected to Constant-Volume Air-Handling Units:

a. Pressure Class: Positive 1-inch wg (500 Pa), or round up the ESP listed in the equipment schedules and provide, whichever is greater.
b. SMACNA Leakage Class for Rectangular: 12
c. SMACNA Leakage Class for Round and Flat Oval: 12

3. Ducts Connected to Variable-Air-Volume Air-Handling Units prior to terminal units:

a. Pressure Class: Positive 3-inch wg (750 Pa)
b. SMACNA Leakage Class for Rectangular: 12
c. SMACNA Leakage Class for Round and Flat Oval: 12

C. Return, toilet exhaust and outside air ducts:

1. Pressure Class: Positive or negative 1-inch wg (250 Pa).
2. SMACNA Leakage Class for Rectangular: 12

3. SMACNA Leakage Class for Round and Flat Oval: 12

D. Special Exhaust Ducts:

1. Ducts Connected to Commercial Kitchen Hoods: Comply with NFPA 96.

a. Exposed to View: Type 304, stainless-steel sheet.
b. Concealed: Type 304, stainless-steel sheet.
c. Welded seams and joints.
d. Pressure Class: Positive or negative 4-inch wg (1000 Pa).
e. Minimum SMACNA Seal Class: Welded seams, joints, and penetrations.
f. SMACNA Leakage Class: 3.
g. Minimum 18 gauge or thickness required per local code, whichever is greater

2. Ducts Connected to Dishwasher Hoods:

a. Type 304, stainless-steel sheet.
b. Welded seams and flanged joints with watertight EPDM gaskets.
c. Pressure Class: Positive or negative 2-inch wg (500 Pa).
d. Minimum SMACNA Seal Class: Welded seams, joints, and penetrations.
e. SMACNA Leakage Class: 3.
f. Minimum 18 gauge or thickness required per local code, whichever is greater

E. Duct Exposed to View

1. Supply Air Ducts: shall be double wall spiral round construction with 1” thick insulation in conditioned spaces and 2” insulation in unconditioned spaces.
2. Return and Exhaust Air Ducts: shall be un-insulated single wall spiral round construction in conditioned spaces and double wall round construction with 1” insulation in unconditioned spaces.

END OF SECTION 15815

SECTION 15820 - DUCT ACCESSORIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Backdraft dampers.
2. Volume dampers.
3. Motorized control dampers.
4. Fire dampers.
5. Smoke dampers.
6. Combination fire and smoke dampers.
7. Turning vanes.
8. Duct-mounting access doors.
9. Flexible connectors.
10. Flexible ducts.
11. Duct accessory hardware.
12. Louvers.

B. Related Sections include the following:

1. Division 13 Section "Fire Alarm" for duct-mounting fire and smoke detectors.

1.3 SUBMITTALS

A. Product Data: For the following:

1. Backdraft dampers.
2. Volume dampers.
3. Motorized control dampers.
4. Fire dampers.
5. Smoke dampers.
6. Combination fire and smoke dampers.
7. Turning vanes.
8. Duct-mounting access doors.
9. Flexible connectors.
10. Flexible ducts.

B. Shop Drawings: Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.

1. Special fittings.
2. Manual-volume damper installations.
3. Motorized-control damper installations.
4. Fire-damper, smoke-damper, and combination fire- and smoke-damper installations, including sleeves and duct-mounting access doors.
5. Wiring Diagrams: Power, signal, and control wiring.

C. Coordination Drawings: Reflected ceiling plans, drawn to scale and coordinating penetrations and ceiling-mounting items. Show ceiling-mounting access panels and access doors required for access to duct accessories.

1.4 QUALITY ASSURANCE

A. Comply with NFPA 90A, "Installation of Air Conditioning and Ventilating Systems," and NFPA 90B, "Installation of Warm Air Heating and Air Conditioning Systems."

1.5 EXTRA MATERIALS

A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Fusible Links: Furnish quantity equal to 10 percent of amount installed.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:
1. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.2 SHEET METAL MATERIALS

A. Comply with SMACNA's "HVAC Duct Construction Standards--Metal and Flexible" for acceptable materials, material thicknesses, and duct construction methods, unless otherwise indicated.

B. Galvanized Sheet Steel: Lock-forming quality; complying with ASTM A 653/A 653M and having G90 (Z275) coating designation; ducts shall have mill-phosphatized finish for surfaces exposed to view.

C. Stainless Steel: ASTM A 480/A 480M.

D. Aluminum Sheets: ASTM B 209 (ASTM B 209M), alloy 3003, temper H14; with mill finish for concealed ducts and standard, 1-side bright finish for exposed ducts.

E. Extruded Aluminum: ASTM B 221 (ASTM B 221M), alloy 6063, temper T6.

F. Reinforcement Shapes and Plates: Galvanized-steel reinforcement where installed on galvanized sheet metal ducts; compatible materials for aluminum and stainless-steel ducts.

G. Tie Rods: Galvanized steel, 1/4-inch (6-mm) minimum diameter for lengths 36 inches (900 mm) or less; 3/8-inch (10-mm) minimum diameter for lengths longer than 36 inches (900 mm).

2.3 BACKDRAFT DAMPERS

A. Manufacturers:
1. CESCO Products.
2. Greenheck.
3. Ruskin Company.

B. Description: Multiple-blade, parallel action gravity balanced, with blades of maximum 6-inch (150-mm) width, with sealed edges, assembled in rattle-free manner with 90-degree stop, steel ball bearings, and axles; adjustment device to permit setting for varying differential static pressure.

C. Frame: 20 gauge, galvanized sheet steel, with welded corners and mounting flange.

D. Blades: 0.025-inch- thick, roll-formed aluminum.

E. Blade Seals: Vinyl.

F. Blade Axles: Stainless Steel.

G. Tie Bars and Brackets: Galvanized steel.

H. Basis of Design: Ruskin S3G.

2.4 VOLUME DAMPERS

A. Manufacturers:
1. Flexmaster U.S.A., Inc.
2. METALAIRE, Inc.
3. Nailor Industries Inc.
4. Ruskin Company.

B. General Description: Factory fabricated, with required hardware and accessories. Stiffen damper blades for stability. Include locking device to hold single-blade dampers in a fixed position without vibration. Close duct penetrations for damper components to seal duct consistent with pressure class.

1. Pressure Classes of 2-Inch wg (750 Pa) or Higher: End bearings or other seals for ducts with axles full length of damper blades and bearings at both ends of operating shaft.

C. Standard Volume Dampers: Multiple- or single-blade, parallel- or opposed-blade design as indicated, standard leakage rating, with linkage outside airstream, and suitable for horizontal or vertical applications.

1. Steel Frames: Hat-shaped, galvanized sheet steel channels, minimum of 22 gauge thick, with mitered and welded corners; frames with flanges where indicated for attaching to walls and flangeless frames where indicated for installing in ducts.
2. Single Skin Steel Blades: 22 gauge, galvanized sheet steel.
3. Blade Axles: Galvanized steel.
4. Bearings: Molded synthetic.
5. Tie Bars and Brackets: Aluminum.
6. Tie Bars and Brackets: Galvanized steel.
7. Basis of Design: Ruskin MD 15 (rectangular) and MDRS25 (round).

D. Jackshaft: 1-inch- (25-mm-) diameter, galvanized-steel pipe rotating within pipe-bearing assembly mounted on supports at each mullion and at each end of multiple-damper assemblies.

1. Length and Number of Mountings: Appropriate to connect linkage of each damper in multiple-damper assembly.

E. Damper Hardware: Zinc-plated, die-cast core with dial and handle made of 3/32-inch- (2.4-mm-) thick zinc-plated steel, and a 3/4-inch (19-mm) hexagon locking nut. Include center hole to suit damper operating-rod size. Include elevated platform for insulated duct mounting.

2.5 MOTORIZED CONTROL DAMPERS

A. Manufacturers:
1. CESCO Products.
2. Greenheck.
3. METALAIRE, Inc.
4. Nailor Industries Inc.
5. Ruskin Company.

B. General Description: AMCA-rated, parallel (return air applications) or opposed (outside air applications) blade design; minimum of 16 gauge thick, galvanized-steel frames with holes for duct mounting; minimum of 16 gauge thick, galvanized-steel damper blades with maximum blade width of 8 inches (203 mm).

1. Secure blades to 1/2-inch- (13-mm-) diameter, zinc-plated axles using zinc-plated hardware, with nylon blade bearings, blade-linkage hardware of zinc-plated steel and brass, ends sealed against spring-stainless-steel blade bearings, and thrust bearings at each end of every blade.
2. Operating Temperature Range: From minus 40 to plus 200 deg F (minus 40 to plus 93 deg C).
3. Provide closed-cell neoprene edging rated for leakage at less than 10 cfm per sq. ft. of damper area, at differential pressure of 1-inch wg; when tested according to AMCA 500D.

C. Basis of Design: Ruskin CD35.

2.6 FIRE DAMPERS

A. Manufacturers:
1. CESCO Products.
2. Greenheck.
3. METALAIRE, Inc.
4. Nailor Industries Inc.
5. Ruskin Company.

B. Fire dampers shall be labeled according to UL 555.

C. Fire Rating: 1-1/2 hours (3 hours as noed).

D. Frame: Curtain type with blades outside airstream; fabricated with roll-formed, 20 gauge galvanized steel; with mitered and interlocking corners.

E. Mounting Sleeve: Factory- or field-installed, galvanized sheet steel.
1. Minimum Thickness: 20 gauge frame complies with sleeve requirements.

F. Mounting Orientation: Vertical or horizontal as indicated.

G. Blades: 24 gauge, galvanized sheet steel. In place of interlocking blades, use full-length, 0.034-inch- (0.85-mm-) thick, galvanized-steel blade connectors.

H. Horizontal Dampers: Include blade lock and stainless-steel closure spring.

I. Fusible Links: Replaceable, 165 deg F rated.

J. Basis of Design: 1-1/2 hour – Ruskin 1BD2-B (rectangular) and FDR25 (round), 3 hour – Ruskin 1BD2-B3 (rectangular)

2.7 COMBINATION FIRE AND SMOKE DAMPERS

A. Manufacturers:
1. CESCO Products.
2. Greenheck.
3. Nailor Industries Inc.
4. Ruskin Company.

B. General Description: Labeled according to UL 555S. Combination fire and smoke dampers shall be labeled according to UL 555 for 1-1/2-hour rating.

C. Fusible Links: Replaceable, 165 deg F rated.

D. Frame and Blades16 gauge, galvanized sheet steel.

E. Mounting Sleeve: Factory-installed, galvanized sheet steel; length to suit wall or floor application.

F. Damper Motors: Modulating and two-position action.

1. Comply with requirements in Division 15 Section "Motors."
2. Permanent-Split-Capacitor or Shaded-Pole Motors: With oil-immersed and sealed gear trains.
3. Spring-Return Motors: Equip with an integral spiral-spring mechanism where indicated. Enclose entire spring mechanism in a removable housing designed for service or adjustments. Size for running torque rating of 150 in. x lbf (17 N x m) and breakaway torque rating of 150 in. x lbf (17 N x m).
4. Outdoor Motors and Motors in Outside-Air Intakes: Equip with O-ring gaskets designed to make motors weatherproof. Equip motors with internal heaters to permit normal operation at minus 40 deg F (minus 40 deg C).
5. Nonspring-Return Motors: For dampers larger than 25 sq. ft. (2.3 sq. m), size motor for running torque rating of 150 in. x lbf (17 N x m) and breakaway torque rating of 300 in. x lbf (34 N x m).
6. Electrical Connection: 115 V, single phase, 60 Hz.

G. Basis of Design: Ruskin FSD376.

2.8 TURNING VANES

A. Fabricate to comply with SMACNA's "HVAC Duct Construction Standards--Metal and Flexible" for vanes and vane runners. Vane runners shall automatically align vanes.

B. Manufactured Turning Vanes: Fabricate 1-1/2-inch- (38-mm-) wide, double-vane, curved blades of galvanized sheet steel set 3/4 inch (19 mm) o.c.; support with bars perpendicular to blades set 2 inches (50 mm) o.c.; and set into vane runners suitable for duct mounting.

C. Acoustic Turning Vanes: Fabricate airfoil-shaped aluminum extrusions with perforated faces and fibrous-glass fill.

2.9 DUCT-MOUNTING ACCESS DOORS

A. General Description: Fabricate doors airtight and suitable for duct pressure class.

B. Door: Double wall, duct mounting, and rectangular; fabricated of galvanized sheet metal with insulation fill and thickness as indicated for duct pressure class. Include vision panel where indicated. Include 1-by-1-inch (25-by-25-mm) butt or piano hinge and cam latches.

1. Manufacturers:
   a. CESCO Products.
   b. Flexmaster U.S.A., Inc.
   c. Greenheck.
   d. Nailor Industries Inc.

2. Frame: Galvanized sheet steel, with bend-over tabs and foam gaskets.
3. Provide number of hinges and locks as follows:

   a. Less Than 12 Inches (300 mm) Square: Secure with two sash locks.
   b. Up to 18 Inches (450 mm) Square: Two hinges and two sash locks.

c. Up to 24 by 48 Inches (600 by 1200 mm): Three hinges and two compression latches.
d. Sizes 24 by 48 Inches (600 by 1200 mm) and Larger: One additional hinge.

C. Seal around frame attachment to duct and door to frame with neoprene or foam rubber.

D. Insulation: 1-inch- (25-mm-) thick, fibrous-glass or polystyrene-foam board.

2.10 FLEXIBLE CONNECTORS

A. Manufacturers:

1. Ductmate Industries, Inc.
2. Duro Dyne Corp.
3. Ventfabrics, Inc.
4. Ward Industries, Inc.

B. General Description: Flame-retardant or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.

C. Metal-Edged Connectors: Factory fabricated with a fabric strip 3-1/2 inches wide attached to two strips of 2-3/4-inch- (70-mm-) wide, 0.028-inch- (0.7-mm-) thick, galvanized sheet steel or 0.032-inch- (0.8-mm-) thick aluminum sheets. Select metal compatible with ducts.

D. Indoor System, Flexible Connector Fabric: Glass fabric double coated with neoprene.

1. Minimum Weight: 26 oz./sq. yd. (880 g/sq. m).
2. Tensile Strength: 480 lbf/inch (84 N/mm) in the warp and 360 lbf/inch (63 N/mm) in the filling.
3. Service Temperature: Minus 40 to plus 200 deg F (Minus 40 to plus 93 deg C).

E. Outdoor System, Flexible Connector Fabric: Glass fabric double coated with weatherproof, synthetic rubber resistant to UV rays and ozone.

1. Minimum Weight: 24 oz./sq. yd. (810 g/sq. m).
2. Tensile Strength: 530 lbf/inch (93 N/mm) in the warp and 440 lbf/inch (77 N/mm) in the filling.
3. Service Temperature: Minus 50 to plus 250 deg F (Minus 45 to plus 121 deg C).

2.11 INSULATED ACOUSTICAL MEDIUM PRESSURE FLEXIBLE DUCT

A. Where flexible duct is shown on drawings, provide Flexmaster Type 8M UL 181 Class I Air Duct or equal.

B. The duct shall be constructed of a CPE fabric supported by helical wound galvanized steel. The fabric shall be mechanically locked to the steel helix without the use of adhesives or chemicals.

C. The internal working pressure rating shall be at least 6” w.g. positive and 4” w.g. negative with a bursting pressure of at least 2 ½ time the working pressure

D. The duct shall be rated for a velocity of at lease 4000 feet per minute.

E. The duct must be suitable for continuous operation at a temperature range of -20° F to +250° F.

F. Acoustical performance, when tested by an independent laboratory in accordance with the Air Diffusion Council's Flexible Air Duct Test Code FD 72-R1, Section 3.0, Sound Properties, shall be as follows:

1. The insertion loss (dB) of a 10 foot length of straight duct when tested in accordance with ASTM E477, at a velocity of 2500 feet per minute, shall be at least:

Octave Band	2	3	4	5	6	7
Hz.	125	250	500	1000	2000	4000
6" diameter	7	31	40	38	40	27
8" diameter	13	29	36	35	38	22
12" diameter	21	28	29	33	26	12

2. The radiated noise reduction (dB) of a 10 foot length of straight duct when tested in accordance with ASTM E477, at a velocity of 2500 feet per minute, shall be at least:

Octave Band	2	3	4	5	6	7
Hz.	125	250	500	1000	2000	4000
6" diameter	5	8	7	8	11	15
8" diameter	10	7	7	8	10	13
12" diameter	9	6	6	5	9	13

3. The self generated sound power levels (LW) dB re 10^{-12} Watt of a 10 foot length of straight duct for an empty sheet metal duct when tested in accordance with ASTM E477, at a velocity of 1000 feet per minute, shall not exceed:

Octave Band	2	3	4	5	6	7
Hz.	125	250	500	1000	2000	4000
6" diameter	42	31	23	18	17	21
8" diameter	41	34	27	19	18	21

12” diameter	54	45	38	31	27	23

G. Factory insulate the flexible duct with fiberglass insulation. Provide insulation as required by ASHRAE 90.1.

H. Cover the insulation with a fire retardant metalized vapor barrier jacket reinforced with crosshatched scrim having a permeance of not greater than 0.05 perms when tested in accordance with ASTM #96, Procedure A.

2.12 DUCT ACCESSORY HARDWARE

A. Instrument Test Holes: Cast iron or cast aluminum to suit duct material, including screw cap and gasket. Size to allow insertion of pitot tube and other testing instruments and of length to suit duct insulation thickness.

B. Adhesives: High strength, quick setting, neoprene based, waterproof, and resistant to gasoline and grease.

2.13 LOUVERS

A. Manufacturers:
1. Ruskin
2. Greenheck

B. Description: Stationary-type louver with blades designed to prevent the penetration of wind driven rain.
1. Extended sill to drain water to building exterior.
2. Extruded aluminum alloy as follows:
   a. 5” deep frame with 0.081” wall thickness.
   b. Blades shall be double drainable and sight proof.
   c. Provide with aluminum screen.

PART 3 - EXECUTION

3.1 APPLICATION AND INSTALLATION

A. Install duct accessories according to applicable details in SMACNA's "HVAC Duct Construction Standards--Metal and Flexible" for metal ducts and in NAIMA AH116, "Fibrous Glass Duct Construction Standards," for fibrous-glass ducts.

B. Provide duct accessories of materials suited to duct materials; use galvanized-steel accessories in galvanized-steel ducts, stainless-steel accessories in stainless-steel ducts, and aluminum accessories in aluminum ducts.

C. Install backdraft dampers on exhaust fans or exhaust ducts nearest to outside and where indicated.

D. Provide balancing dampers at points on supply, return, and exhaust systems where branches lead from larger ducts as required for air balancing. Install at a minimum of two duct widths from branch takeoff.

E. Provide test holes at fan inlets and outlets and elsewhere as indicated.

F. Install fire and smoke dampers, with fusible links, according to manufacturer's UL-approved written instructions.

G. Install duct silencers independent of ducts with flexible duct connectors, lagged with loaded vinyl sheet on inlets and outlets where indicated.

H. Install duct access doors to allow for inspecting, adjusting, and maintaining accessories and terminal units as follows:

1. On both sides of duct coils.
2. Downstream from volume dampers and equipment.
3. Adjacent to fire or smoke dampers, providing access to reset or reinstall fusible links.
4. To interior of ducts for cleaning; before and after each change in direction, at maximum 50-foot (15-m) spacing.
5. On sides of ducts where adequate clearance is available.

I. Install the following sizes for duct-mounting, rectangular access doors:

1. One-Hand or Inspection Access: 8 by 5 inches (200 by 125 mm).
2. Two-Hand Access: 12 by 6 inches (300 by 150 mm).
3. Head and Hand Access: 18 by 10 inches (460 by 250 mm).
4. Head and Shoulders Access: 21 by 14 inches (530 by 355 mm).
5. Body Access: 25 by 14 inches (635 by 355 mm).
6. Body Plus Ladder Access: 25 by 17 inches (635 by 430 mm).

J. Install the following sizes for duct-mounting, round access doors:

1. One-Hand or Inspection Access: 8 inches (200 mm) in diameter.
2. Two-Hand Access: 10 inches (250 mm) in diameter.
3. Head and Hand Access: 12 inches (300 mm) in diameter.
4. Head and Shoulders Access: 18 inches (460 mm) in diameter.
5. Body Access: 24 inches (600 mm) in diameter.

K. Label access doors according to Division 15 Section "Mechanical Identification."

L. Install flexible connectors immediately adjacent to equipment in ducts associated with fans and motorized equipment supported by vibration isolators.

M. For fans developing static pressures of 5-inch wg (1250 Pa) and higher, cover flexible connectors with loaded vinyl sheet held in place with metal straps.

N. Connect terminal units to supply ducts directly or with maximum 12-inch (300-mm) lengths of flexible duct. Do not use flexible ducts to change directions.

O. Connect diffusers or light troffer boots to low pressure ducts with maximum 60-inch (1500-mm) lengths of flexible duct clamped or strapped in place.

P. Connect flexible ducts to metal ducts with draw bands.

Q. Install duct test holes where indicated and required for testing and balancing purposes.

3.2 ADJUSTING

A. Adjust duct accessories for proper settings.

B. Adjust fire and smoke dampers for proper action.

C. Final positioning of manual-volume dampers is specified in Division 15 Section "Testing, Adjusting, and Balancing."

END OF SECTION 15820

SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
   1. Ceiling and wall mounted diffusers, registers, and grilles.

B. Related Sections:

   1. Division 10 Section "Louvers and Vents" for fixed and adjustable louvers and wall vents, whether or not they are connected to ducts.
   2. Division 15 Section "Duct Accessories" for fire and smoke dampers and volume-control dampers not integral to diffusers, registers, and grilles.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated, include the following:

   1. Data Sheet: Indicate materials of construction, finish, and mounting details; and performance data including throw and drop, static-pressure drop, and noise ratings.
   2. Diffuser, Register, and Grille Schedule: Indicate drawing designation, room location, quantity, model number, size, and accessories furnished.

B. Samples for Initial Selection: For diffusers, registers, and grilles with factory-applied color finishes.

C. Samples for Verification: For diffusers, registers, and grilles, in manufacturer's standard sizes to verify color selected.

D. Coordination Drawings: Reflected ceiling plans, drawn to scale, on which the following items are shown and coordinated with each other, using input from Installers of the items involved:

   1. Ceiling suspension assembly members.
   2. Method of attaching hangers to building structure.
   3. Size and location of initial access modules for acoustical tile.
   4. Ceiling-mounted items including lighting fixtures, diffusers, grilles, speakers, sprinklers, access panels, and special moldings.
   5. Duct access panels.

E. Source quality-control reports.

PART 2 - PRODUCTS

2.1 Manufacturers:

A.

1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
   a. METALAIRE, Inc.
   b. Price Industries.
   c. Titus.

2. Refer to drawings for air device accessories.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas where diffusers, registers, and grilles are to be installed for compliance with requirements for installation tolerances and other conditions affecting performance of equipment.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install diffusers, registers, and grilles level and plumb.

B. Ceiling-Mounted Outlets and Inlets: Drawings indicate general arrangement of ducts, fittings, and accessories. Air outlet and inlet locations have been indicated to achieve design requirements for air volume, noise criteria, airflow pattern, throw, and pressure drop. Make final locations where indicated, as much as practical. For units installed in lay-in ceiling panels, locate units in the center of panel. Where architectural features or other items conflict with installation, notify Architect for a determination of final location.

C. Install diffusers, registers, and grilles with airtight connections to ducts and to allow service and maintenance of dampers, air extractors, and fire dampers.

3.3 ADJUSTING

A. After installation, adjust diffusers, registers, and grilles to air patterns indicated, or as directed, before starting air balancing.

END OF SECTION 15855

SECTION 15950 - TESTING, ADJUSTING, AND BALANCING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

B. Contractual Relationship

1. The scope of the TAB work as defined in this Section is indicated in order that the Contractor will be advised of the coordination, adjustment, and system modification which will be required under the project work in order to complete the requirements for final TAB. The TAB firm will not have a contractual relationship with the Mechanical Contractor, but will be responsible to the General Contractor for the satisfactory execution of the TAB work. **The General Contractor in his original bid shall include the costs required to cover all work which may be required in the TAB phases as defined herein and as may be necessary for the completion of the TAB work as defined by the TAB firm**.

1.2 SUMMARY

A. Section Includes:

1. Balancing Air Systems:

   a. Constant-volume air systems.
   b. Variable-air-volume systems.

2. Balancing Hydronic Piping Systems:
   a. Primary-secondary hydronic systems.

1.3 DEFINITIONS

A. AABC: Associated Air Balance Council.

B. NEBB: National Environmental Balancing Bureau.

C. TAB: Testing, adjusting, and balancing.

D. TABB: Testing, Adjusting, and Balancing Bureau.

E. TAB Specialist: An entity engaged to perform TAB Work.

1.4 SUBMITTALS

A. Qualification Data: Within 30 days of Contractor's Notice to Proceed, submit documentation that the TAB contractor and this Project's TAB team members meet the qualifications specified in "Quality Assurance" Article.

B. Contract Documents Examination Report: Within 45 days of Contractor's Notice to Proceed, submit the Contract Documents review report as specified in Part 3.

C. Strategies and Procedures Plan: Within 90 days of Contractor's Notice to Proceed, submit TAB strategies and step-by-step procedures as specified in "Preparation" Article.

D. Certified TAB reports.

E. Sample report forms.

F. Instrument calibration reports, to include the following:

1. Instrument type and make.
2. Serial number.
3. Application.
4. Dates of use.
5. Dates of calibration.

1.5 QUALITY ASSURANCE

A. TAB Contractor Qualifications: Engage a TAB entity certified by AABC or NEBB.

B. TAB Conference: Meet with Architect & Owner’s representative on approval of the TAB strategies and procedures plan to develop a mutual understanding of the details. Require the participation of the TAB field supervisor and technicians. Provide seven days' advance notice of scheduled meeting time and location.

1. Agenda Items:

a. The Contract Documents examination report.
b. The TAB plan.
c. Coordination and cooperation of trades and subcontractors.
d. Coordination of documentation and communication flow.

C. Certify TAB field data reports and perform the following:

1. Review field data reports to validate accuracy of data and to prepare certified TAB reports.
2. Certify that the TAB team complied with the approved TAB plan and the procedures specified and referenced in this Specification.

D. TAB Report Forms: Use standard TAB contractor's forms approved by Engineer.

E. Instrumentation Type, Quantity, Accuracy, and Calibration: As described in ASHRAE 111, Section 5, "Instrumentation."

1.6 PROJECT CONDITIONS

A. Partial Owner Occupancy: Owner may occupy completed areas of building before Substantial Completion. Cooperate with Owner during TAB operations to minimize conflicts with Owner's operations.

1.7 COORDINATION

A. Notice: Provide seven days' advance notice for each test. Include scheduled test dates and times.

B. Perform TAB after leakage and pressure tests on air and water distribution systems have been satisfactorily completed.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine the Contract Documents to become familiar with Project requirements and to discover conditions in systems' designs that may preclude proper TAB of systems and equipment.

B. Examine systems for installed balancing devices, such as test ports, gage cocks, thermometer wells, flow-control devices, balancing valves and fittings, and manual volume dampers. Verify that locations of these balancing devices are accessible.

C. Examine the approved submittals for HVAC systems and equipment.

D. Examine design data including HVAC system descriptions, statements of design assumptions for environmental conditions and systems' output, and statements of philosophies and assumptions about HVAC system and equipment controls.

E. Examine ceiling plenums and underfloor air plenums used for supply, return, or relief air to verify that they meet the leakage class of connected ducts as specified in Division 15 Section "Metal Ducts" and are properly separated from adjacent areas. Verify that penetrations in plenum walls are sealed and fire-stopped if required.

F. Examine equipment performance data including fan and pump curves.

1. Relate performance data to Project conditions and requirements, including system effects that can create undesired or unpredicted conditions that cause reduced capacities in all or part of a system.
2. Calculate system-effect factors to reduce performance ratings of HVAC equipment when installed under conditions different from the conditions used to rate equipment performance. To calculate system effects for air systems, use tables and charts found in AMCA 201, "Fans and Systems," or in SMACNA's "HVAC Systems - Duct Design." Compare results with the design data and installed conditions.

G. Examine system and equipment installations and verify that field quality-control testing, cleaning, and adjusting specified in individual Sections have been performed.

H. Examine test reports specified in individual system and equipment Sections.

I. Examine HVAC equipment and filters and verify that bearings are greased, belts are aligned and tight, and equipment with functioning controls is ready for operation.

J. Examine terminal units, such as variable-air-volume boxes, and verify that they are accessible and their controls are connected and functioning.

K. Examine strainers. Verify that startup screens are replaced by permanent screens with indicated perforations.

L. Examine three-way valves for proper installation for their intended function of diverting or mixing fluid flows.

M. Examine heat-transfer coils for correct piping connections and for clean and straight fins.

N. Examine system pumps to ensure absence of entrained air in the suction piping.

O. Examine operating safety interlocks and controls on HVAC equipment.

P. Report deficiencies discovered before and during performance of TAB procedures. Observe and record system reactions to changes in conditions. Record default set points if different from indicated values.

3.2 PREPARATION

A. Prepare a TAB plan that includes strategies and step-by-step procedures.

B. Complete system-readiness checks and prepare reports. Verify the following:

1. Permanent electrical-power wiring is complete.
2. Hydronic systems are filled, clean, and free of air.
3. Automatic temperature-control systems are operational.
4. Equipment and duct access doors are securely closed.
5. Balance, smoke, and fire dampers are open.
6. Isolating and balancing valves are open and control valves are operational.
7. Ceilings are installed in critical areas where air-pattern adjustments are required and access to balancing devices is provided.
8. Windows and doors can be closed so indicated conditions for system operations can be met.

3.3 GENERAL PROCEDURES FOR TESTING AND BALANCING

A. Perform testing and balancing procedures on each system according to the procedures contained in AABC's "National Standards for Total System Balance" or NEBB's "Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems" and in this Section.

1. Comply with requirements in ASHRAE 62.1-2004, Section 7.2.2, "Air Balancing."

B. Cut insulation, ducts, pipes, and equipment cabinets for installation of test probes to the minimum extent necessary for TAB procedures.

1. After testing and balancing, patch probe holes in ducts with same material and thickness as used to construct ducts.
2. After testing and balancing, install test ports and duct access doors that comply with requirements in Division 15 Section "Duct Accessories."
3. Install and join new insulation that matches removed materials. Restore insulation, coverings, vapor barrier, and finish according to Division 15 Section "HVAC Insulation."

C. Mark equipment and balancing devices, including damper-control positions, valve position indicators, fan-speed-control levers, and similar controls and devices, with paint or other suitable, permanent identification material to show final settings.

D. Take and report testing and balancing measurements in inch-pound (IP) units.

3.4 GENERAL PROCEDURES FOR BALANCING AIR SYSTEMS

A. Prepare test reports for both fans and outlets. Obtain manufacturer's outlet factors and recommended testing procedures. Crosscheck the summation of required outlet volumes with required fan volumes.

B. Prepare schematic diagrams of systems' "as-built" duct layouts.

C. For variable-air-volume systems, develop a plan to simulate diversity.

D. Determine the best locations in main and branch ducts for accurate duct-airflow measurements.

E. Check airflow patterns from the outdoor-air louvers and dampers and the return- and exhaust-air dampers through the supply-fan discharge and mixing dampers.

F. Locate start-stop and disconnect switches, electrical interlocks, and motor starters.

G. Verify that motor starters are equipped with properly sized thermal protection.

H. Check dampers for proper position to achieve desired airflow path.

I. Check for airflow blockages.

J. Check condensate drains for proper connections and functioning.

K. Check for proper sealing of air-handling-unit components.

L. Verify that air duct system is sealed as specified in Division 15 Section "Metal Ducts."

3.5 PROCEDURES FOR CONSTANT-VOLUME AIR SYSTEMS

A. Adjust fans to deliver total indicated airflows within the maximum allowable fan speed listed by fan manufacturer.

1. Measure total airflow.

    a. Where sufficient space in ducts is unavailable for Pitot-tube traverse measurements, measure airflow at terminal outlets and inlets and calculate the total airflow.

2. Measure fan static pressures as follows to determine actual static pressure:

    a. Measure outlet static pressure as far downstream from the fan as practical and upstream from restrictions in ducts such as elbows and transitions.
    b. Measure static pressure directly at the fan outlet or through the flexible connection.
    c. Measure inlet static pressure of single-inlet fans in the inlet duct as near the fan as possible, upstream from the flexible connection, and downstream from duct restrictions.
    d. Measure inlet static pressure of double-inlet fans through the wall of the plenum that houses the fan.

3. Measure static pressure across each component that makes up an air-handling unit, rooftop unit, and other air-handling and -treating equipment.

    a. Report the cleanliness status of filters and the time static pressures are measured.

4. Measure static pressures entering and leaving other devices, such as sound traps, heat-recovery equipment, and air washers, under final balanced conditions.
5. Review Record Documents to determine variations in design static pressures versus actual static pressures. Calculate actual system-effect factors. Recommend adjustments to accommodate actual conditions.
6. Obtain approval from Architect for adjustment of fan speed higher or lower than indicated speed. Comply with requirements in Division 15 Sections for air-handling units for adjustment of fans, belts, and pulley sizes to achieve indicated air-handling-unit performance.
7. Do not make fan-speed adjustments that result in motor overload. Consult equipment manufacturers about fan-speed safety factors. Modulate dampers and measure fan-motor amperage to ensure that no overload will occur. Measure amperage in full-cooling, full-heating, economizer, and any other operating mode to determine the maximum required brake horsepower.

B. Adjust volume dampers for main duct, submain ducts, and major branch ducts to indicated airflows within specified tolerances.

1. Measure airflow of submain and branch ducts.

    a. Where sufficient space in submain and branch ducts is unavailable for Pitot-tube traverse measurements, measure airflow at terminal outlets and inlets and calculate the total airflow for that zone.

2. Measure static pressure at a point downstream from the balancing damper, and adjust volume dampers until the proper static pressure is achieved.

3. Remeasure each submain and branch duct after all have been adjusted. Continue to adjust submain and branch ducts to indicated airflows within specified tolerances.

C. Measure air outlets and inlets without making adjustments.

1. Measure terminal outlets using a direct-reading hood or outlet manufacturer's written instructions and calculating factors.

D. Adjust air outlets and inlets for each space to indicated airflows within specified tolerances of indicated values. Make adjustments using branch volume dampers rather than extractors and the dampers at air terminals.

1. Adjust each outlet in same room or space to within specified tolerances of indicated quantities without generating noise levels above the limitations prescribed by the Contract Documents.
2. Adjust patterns of adjustable outlets for proper distribution without drafts.

3.6 PROCEDURES FOR MOTORS

A. Motors, 1/2 HP and Larger: Test at final balanced conditions and record the following data:

1. Manufacturer's name, model number, and serial number.
2. Motor horsepower rating.
3. Motor rpm.
4. Efficiency rating.
5. Nameplate and measured voltage, each phase.
6. Nameplate and measured amperage, each phase.
7. Starter thermal-protection-element rating.

B. Motors Driven by Variable-Frequency Controllers: Test for proper operation at speeds varying from minimum to maximum. Test the manual bypass of the controller to prove proper operation. Record observations including name of controller manufacturer, model number, serial number, and nameplate data.

3.7 PROCEDURES FOR CONDENSING UNITS

A. Verify proper rotation of fans.

B. Measure entering- and leaving-air temperatures.

C. Record compressor data.

3.8 PROCEDURES FOR HEAT-TRANSFER COILS

A. Measure, adjust, and record the following data for each water coil:

1. Entering- and leaving-water temperature.

2. Water flow rate.
3. Water pressure drop.
4. Dry-bulb temperature of entering and leaving air.
5. Wet-bulb temperature of entering and leaving air for cooling coils.
6. Airflow.
7. Air pressure drop.

B. Measure, adjust, and record the following data for each electric heating coil:

1. Nameplate data.
2. Airflow.
3. Entering- and leaving-air temperature at full load.
4. Voltage and amperage input of each phase at full load and at each incremental stage.
5. Calculated kilowatt at full load.
6. Fuse or circuit-breaker rating for overload protection.

C. Measure, adjust, and record the following data for each steam coil:

1. Dry-bulb temperature of entering and leaving air.
2. Airflow.
3. Air pressure drop.
4. Inlet steam pressure.

D. Measure, adjust, and record the following data for each refrigerant coil:

1. Dry-bulb temperature of entering and leaving air.
2. Wet-bulb temperature of entering and leaving air.
3. Airflow.
4. Air pressure drop.
5. Refrigerant suction pressure and temperature.

3.9 TOLERANCES

A. Set HVAC system's air flow rates and water flow rates within the following tolerances:

1. Supply, Return, and Exhaust Fans and Equipment with Fans: Plus or minus 10 percent.
2. Air Outlets and Inlets: Plus or minus 10 percent.
3. Cooling-Water Flow Rate: Plus or minus 10 percent.

3.10 REPORTING

A. Initial Construction-Phase Report: Based on examination of the Contract Documents as specified in "Examination" Article, prepare a report on the adequacy of design for systems' balancing devices. Recommend changes and additions to systems' balancing devices to facilitate proper performance measuring and balancing. Recommend changes and additions to HVAC systems and general construction to allow access for performance measuring and balancing devices.

B. Status Reports: Prepare progress reports to describe completed procedures, procedures in progress, and scheduled procedures. Include a list of deficiencies and problems found in systems being tested and balanced. Prepare a separate report for each system and each building floor for systems serving multiple floors.

3.11 FINAL REPORT

A. General: Prepare a certified written report; tabulate and divide the report into separate sections for tested systems and balanced systems.

1. Include a certification sheet at the front of the report's binder, signed and sealed by the certified testing and balancing engineer.
2. Include a list of instruments used for procedures, along with proof of calibration.

B. Final Report Contents: In addition to certified field-report data, include the following:

1. Pump curves.
2. Fan curves.
3. Manufacturers' test data.
4. Field test reports prepared by system and equipment installers.
5. Other information relative to equipment performance; do not include Shop Drawings and product data.

C. General Report Data: In addition to form titles and entries, include the following data:

1. Title page.
2. Name and address of the TAB contractor.
3. Project name.
4. Project location.
5. Architect's name and address.
6. Engineer's name and address.
7. Contractor's name and address.
8. Report date.
9. Signature of TAB supervisor who certifies the report.
10. Table of Contents with the total number of pages defined for each section of the report. Number each page in the report.
11. Summary of contents including the following:

    a. Indicated versus final performance.
    b. Notable characteristics of systems.
    c. Description of system operation sequence if it varies from the Contract Documents.

12. Nomenclature sheets for each item of equipment.
13. Data for terminal units, including manufacturer's name, type, size, and fittings.
14. Notes to explain why certain final data in the body of reports vary from indicated values.
15. Test conditions for fans and pump performance forms including the following:

    a. Settings for outdoor-, return-, and exhaust-air dampers.
    b. Conditions of filters.

c. Cooling coil, wet- and dry-bulb conditions.
d. Face and bypass damper settings at coils.
e. Fan drive settings including settings and percentage of maximum pitch diameter.
f. Inlet vane settings for variable-air-volume systems.
g. Settings for supply-air, static-pressure controller.
h. Other system operating conditions that affect performance.

D. System Diagrams: Include schematic layouts of air and hydronic distribution systems. Present each system with single-line diagram and include the following:

1. Quantities of outdoor, supply, return, and exhaust airflows.
2. Water and steam flow rates.
3. Duct, outlet, and inlet sizes.
4. Pipe and valve sizes and locations.
5. Terminal units.
6. Balancing stations.
7. Position of balancing devices.

E. Air-Handling-Unit Test Reports: For air-handling units with coils, include the following:

1. Unit Data:

a. Unit identification.
b. Location.
c. Make and type.
d. Model number and unit size.
e. Manufacturer's serial number.
f. Unit arrangement and class.
g. Discharge arrangement.
h. Sheave make, size in inches (mm), and bore.
i. Center-to-center dimensions of sheave, and amount of adjustments in inches (mm).
j. Number, make, and size of belts.
k. Number, type, and size of filters.

2. Motor Data:

a. Motor make, and frame type and size.
b. Horsepower and rpm.
c. Volts, phase, and hertz.
d. Full-load amperage and service factor.
e. Sheave make, size in inches (mm), and bore.
f. Center-to-center dimensions of sheave, and amount of adjustments in inches (mm).

3. Test Data (Indicated and Actual Values):

a. Total air flow rate in cfm (L/s).
b. Total system static pressure in inches wg (Pa).
c. Fan rpm.
d. Discharge static pressure in inches wg (Pa).
e. Filter static-pressure differential in inches wg (Pa).
f. Preheat-coil static-pressure differential in inches wg (Pa).

g. Cooling-coil static-pressure differential in inches wg (Pa).
h. Heating-coil static-pressure differential in inches wg (Pa).
i. Outdoor airflow in cfm (L/s).
j. Return airflow in cfm (L/s).
k. Outdoor-air damper position.
l. Return-air damper position.
m. Vortex damper position.

F. Apparatus-Coil Test Reports:

1. Coil Data:

a. System identification.
b. Location.
c. Coil type.
d. Number of rows.
e. Fin spacing in fins per inch (mm) o.c.
f. Make and model number.
g. Face area in sq. ft. (sq. m).
h. Tube size in NPS (DN).
i. Tube and fin materials.
j. Circuiting arrangement.

2. Test Data (Indicated and Actual Values):

a. Air flow rate in cfm (L/s).
b. Average face velocity in fpm (m/s).
c. Air pressure drop in inches wg (Pa).
d. Outdoor-air, wet- and dry-bulb temperatures in deg F (deg C).
e. Return-air, wet- and dry-bulb temperatures in deg F (deg C).
f. Entering-air, wet- and dry-bulb temperatures in deg F (deg C).
g. Leaving-air, wet- and dry-bulb temperatures in deg F (deg C).
h. Water flow rate in gpm (L/s).
i. Water pressure differential in feet of head or psig (kPa).
j. Entering-water temperature in deg F (deg C).
k. Leaving-water temperature in deg F (deg C).
l. Refrigerant expansion valve and refrigerant types.
m. Refrigerant suction pressure in psig (kPa).
n. Refrigerant suction temperature in deg F (deg C).
o. Inlet steam pressure in psig (kPa).

G. Fan Test Reports: For supply, return, and exhaust fans, include the following:

1. Fan Data:

a. System identification.
b. Location.
c. Make and type.
d. Model number and size.
e. Manufacturer's serial number.
f. Arrangement and class.

g. Sheave make, size in inches (mm), and bore.
h. Center-to-center dimensions of sheave, and amount of adjustments in inches (mm).

2. Motor Data:

a. Motor make, and frame type and size.
b. Horsepower and rpm.
c. Volts, phase, and hertz.
d. Full-load amperage and service factor.
e. Sheave make, size in inches (mm), and bore.
f. Center-to-center dimensions of sheave, and amount of adjustments in inches (mm).
g. Number, make, and size of belts.

3. Test Data (Indicated and Actual Values):

a. Total airflow rate in cfm (L/s).
b. Total system static pressure in inches wg (Pa).
c. Fan rpm.
d. Discharge static pressure in inches wg (Pa).
e. Suction static pressure in inches wg (Pa).

H. Round, Flat-Oval, and Rectangular Duct Traverse Reports: Include a diagram with a grid representing the duct cross-section and record the following:

1. Report Data:

a. System and air-handling-unit number.
b. Location and zone.
c. Traverse air temperature in deg F (deg C).
d. Duct static pressure in inches wg (Pa).
e. Duct size in inches (mm).
f. Duct area in sq. ft. (sq. m).
g. Indicated air flow rate in cfm (L/s).
h. Indicated velocity in fpm (m/s).
i. Actual air flow rate in cfm (L/s).
j. Actual average velocity in fpm (m/s).
k. Barometric pressure in psig (Pa).

I. Instrument Calibration Reports:

1. Report Data:

a. Instrument type and make.
b. Serial number.
c. Application.
d. Dates of use.
e. Dates of calibration.

3.12 INSPECTIONS

A. Initial Inspection:

1. After testing and balancing are complete, operate each system and randomly check measurements to verify that the system is operating according to the final test and balance readings documented in the final report.
2. Check the following for each system:

    a. Measure airflow of at least 10 percent of air outlets.
    b. Measure room temperature at each thermostat/temperature sensor. Compare the reading to the set point.
    c. Verify that balancing devices are marked with final balance position.
    d. Note deviations from the Contract Documents in the final report.

B. Final Inspection:

1. After initial inspection is complete and documentation by random checks verifies that testing and balancing are complete and accurately documented in the final report.
2. The TAB contractor's test and balance engineer shall conduct the inspection in the presence of Construction Manager.
3. Construction Manager shall randomly select measurements, documented in the final report, to be rechecked. Rechecking shall be limited to either 10 percent of the total measurements recorded or the extent of measurements that can be accomplished in a normal 8-hour business day.
4. If rechecks yield measurements that differ from the measurements documented in the final report by more than the tolerances allowed, the measurements shall be noted as "FAILED."
5. If the number of "FAILED" measurements is greater than 10 percent of the total measurements checked during the final inspection, the testing and balancing shall be considered incomplete and shall be rejected.

C. TAB Work will be considered defective if it does not pass final inspections. If TAB Work fails, proceed as follows:

1. Recheck all measurements and make adjustments. Revise the final report and balancing device settings to include all changes; resubmit the final report and request a second final inspection.
2. If the second final inspection also fails, Owner may contract the services of another TAB contractor to complete TAB Work according to the Contract Documents and deduct the cost of the services from the original TAB contractor's final payment.

D. Prepare test and inspection reports.

3.13 ADDITIONAL TESTS

A. Within 90 days of completing TAB, perform additional TAB to verify that balanced conditions are being maintained throughout and to correct unusual conditions.

B. Seasonal Periods: If initial TAB procedures were not performed during near-peak summer and winter conditions, perform additional TAB during near-peak summer and winter conditions.

END OF SECTION 15950

SECTION 16051 - COMMON WORK RESULTS FOR ELECTRICAL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Electrical equipment coordination and installation.
2. Sleeves for raceways and cables.
3. Sleeve seals.
4. Grout.
5. Common electrical installation requirements.

1.3 DEFINITIONS

A. EPDM: Ethylene-propylene-diene terpolymer rubber.

B. NBR: Acrylonitrile-butadiene rubber.

1.4 SUBMITTALS

A. Product Data: For sleeve seals.

1.5 COORDINATION

A. Coordinate arrangement, mounting, and support of electrical equipment:

1. To allow maximum possible headroom unless specific mounting heights that reduce headroom are indicated.
2. To provide for ease of disconnecting the equipment with minimum interference to other installations.
3. To allow right of way for piping and conduit installed at required slope.
4. So connecting raceways, cables, wireways, cable trays, and busways will be clear of obstructions and of the working and access space of other equipment.

B. Coordinate installation of required supporting devices and set sleeves in cast-in-place concrete, masonry walls, and other structural components as they are constructed.

C. Coordinate location of access panels and doors for electrical items that are behind finished surfaces or otherwise concealed. Access doors and panels are specified in Division 8 Section "Access Doors and Frames."

D. Coordinate sleeve selection and application with selection and application of firestopping specified in Division 7 Section "Through-Penetration Firestop Systems."

PART 2 - PRODUCTS

2.1 SLEEVES FOR RACEWAYS AND CABLES

A. Steel Pipe Sleeves: ASTM A 53/A 53M, Type E, Grade B, Schedule 40, galvanized steel, plain ends.

B. Cast-Iron Pipe Sleeves: Cast or fabricated "wall pipe," equivalent to ductile-iron pressure pipe, with plain ends and integral waterstop, unless otherwise indicated.

C. Sleeves for Rectangular Openings: Galvanized sheet steel.

1. Minimum Metal Thickness:

a. For sleeve cross-section rectangle perimeter less than 50 inches (1270 mm) and no side more than 16 inches (400 mm), thickness shall be 0.052 inch (1.3 mm).
b. For sleeve cross-section rectangle perimeter equal to, or more than, 50 inches (1270 mm) and 1 or more sides equal to, or more than, 16 inches (400 mm), thickness shall be 0.138 inch (3.5 mm).

2.2 SLEEVE SEALS

A. Description: Modular sealing device, designed for field assembly, to fill annular space between sleeve and raceway or cable.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. Advance Products & Systems, Inc.
b. Calpico, Inc.
c. Metraflex Co.
d. Pipeline Seal and Insulator, Inc.

2. Sealing Elements: EPDM interlocking links shaped to fit surface of cable or conduit. Include type and number required for material and size of raceway or cable.
3. Pressure Plates: Carbon steel. Include two for each sealing element.
4. Connecting Bolts and Nuts: Carbon steel with corrosion-resistant coating of length required to secure pressure plates to sealing elements. Include one for each sealing element.

2.3 GROUT

A. Nonmetallic, Shrinkage-Resistant Grout: ASTM C 1107, factory-packaged, nonmetallic aggregate grout, noncorrosive, nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.

PART 3 - EXECUTION

3.1 COMMON REQUIREMENTS FOR ELECTRICAL INSTALLATION

A. Comply with NECA 1.

B. Measure indicated mounting heights to bottom of unit for suspended items and to center of unit for wall-mounting items.

C. Headroom Maintenance: If mounting heights or other location criteria are not indicated, arrange and install components and equipment to provide maximum possible headroom consistent with these requirements.

D. Equipment: Install to facilitate service, maintenance, and repair or replacement of components of both electrical equipment and other nearby installations. Connect in such a way as to facilitate future disconnecting with minimum interference with other items in the vicinity.

E. Right of Way: Give to piping systems installed at a required slope.

3.2 SLEEVE INSTALLATION FOR ELECTRICAL PENETRATIONS

A. Electrical penetrations occur when raceways, cables, wireways, cable trays, or busways penetrate concrete slabs, concrete or masonry walls, or fire-rated floor and wall assemblies.

B. Concrete Slabs and Walls: Install sleeves for penetrations unless core-drilled holes or formed openings are used. Install sleeves during erection of slabs and walls.

C. Use pipe sleeves unless penetration arrangement requires rectangular sleeved opening.

D. Fire-Rated Assemblies: Install sleeves for penetrations of fire-rated floor and wall assemblies unless openings compatible with firestop system used are fabricated during construction of floor or wall.

E. Cut sleeves to length for mounting flush with both surfaces of walls.

F. Extend sleeves installed in floors 2 inches (50 mm) above finished floor level.

G. Size pipe sleeves to provide 1/4-inch (6.4-mm) annular clear space between sleeve and raceway or cable, unless indicated otherwise.

H. Seal space outside of sleeves with grout for penetrations of concrete and masonry

1. Promptly pack grout solidly between sleeve and wall so no voids remain. Tool exposed surfaces smooth; protect grout while curing.

I. Interior Penetrations of Non-Fire-Rated Walls and Floors: Seal annular space between sleeve and raceway or cable, using joint sealant appropriate for size, depth, and location of joint. Comply with requirements in Division 7 Section "Joint Sealants."

J. Fire-Rated-Assembly Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at raceway and cable penetrations. Install sleeves and seal raceway and cable penetration sleeves with firestop materials. Comply with requirements in Division 7 Section "Through-Penetration Firestop Systems."

K. Roof-Penetration Sleeves: Seal penetration of individual raceways and cables with flexible boot-type flashing units applied in coordination with roofing work.

L. Aboveground, Exterior-Wall Penetrations: Seal penetrations using steel pipe sleeves and mechanical sleeve seals. Select sleeve size to allow for 1-inch (25-mm) annular clear space between pipe and sleeve for installing mechanical sleeve seals.

M. Underground, Exterior-Wall Penetrations: Install cast-iron pipe sleeves. Size sleeves to allow for 1-inch (25-mm) annular clear space between raceway or cable and sleeve for installing mechanical sleeve seals.

3.3 SLEEVE-SEAL INSTALLATION

A. Install to seal exterior wall penetrations.

B. Use type and number of sealing elements recommended by manufacturer for raceway or cable material and size. Position raceway or cable in center of sleeve. Assemble mechanical sleeve seals and install in annular space between raceway or cable and sleeve. Tighten bolts against pressure plates that cause sealing elements to expand and make watertight seal.

3.4 FIRESTOPPING

A. Apply firestopping to penetrations of fire-rated floor and wall assemblies for electrical installations to restore original fire-resistance rating of assembly. Firestopping materials and installation requirements are specified in Division 7 Section "Through-Penetration Firestop Systems."

END OF SECTION 16051

SECTION 16060 - GROUNDING AND BONDING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes methods and materials for grounding systems and equipment.

1. Overhead-lines grounding.
2. Underground distribution grounding.
3. Common ground bonding with lightning protection system.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Other Informational Submittals: Plans showing dimensioned as-built locations of grounding features specified in Part 3 "Field Quality Control" Article, including the following:

1. Test wells.
2. Ground rods.
3. Ground rings.
4. Grounding arrangements and connections for separately derived systems.
5. Grounding for sensitive electronic equipment.

C. Qualification Data: For testing agency and testing agency's field supervisor.

D. Field quality-control test reports.

E. Operation and Maintenance Data: For grounding to include the following in emergency, operation, and maintenance manuals:

1.4 QUALITY ASSURANCE

A. Testing Agency Qualifications: An independent agency, with the experience and capability to conduct the testing indicated, that is a member company of the InterNational Electrical Testing Association or is a nationally recognized testing laboratory (NRTL) as defined by OSHA in 29 CFR 1910.7, and that is acceptable to authorities having jurisdiction.

1. Testing Agency's Field Supervisor: Person currently certified by the InterNational Electrical Testing Association to supervise on-site testing specified in Part 3.

B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

C. Comply with UL 467 for grounding and bonding materials and equipment.

PART 2 - PRODUCTS

2.1 CONDUCTORS

A. Insulated Conductors: Copper wire or cable insulated for 600 V unless otherwise required by applicable Code or authorities having jurisdiction.

B. Bare Copper Conductors:

1. Solid Conductors: ASTM B 3.
2. Stranded Conductors: ASTM B 8.
3. Tinned Conductors: ASTM B 33.
4. Bonding Cable: 28 kcmil, 14 strands of No. 17 AWG conductor, 1/4 inch (6 mm) in diameter.
5. Bonding Conductor: No. 4 or No. 6 AWG, stranded conductor.
6. Bonding Jumper: Copper tape, braided conductors, terminated with copper ferrules; 1-5/8 inches (41 mm) wide and 1/16 inch (1.6 mm) thick.
7. Tinned Bonding Jumper: Tinned-copper tape, braided conductors, terminated with copper ferrules; 1-5/8 inches (41 mm) wide and 1/16 inch (1.6 mm) thick.

C. Bare Grounding Conductor and Conductor Protector for Wood Poles:

1. No. 4 AWG minimum, soft-drawn copper.
2. Conductor Protector: Half-round PVC or wood molding. If wood, use pressure-treated fir or cypress or cedar.

D. Grounding Bus: Rectangular bars of annealed copper, 1/4 by 2 inches (6 by 50 mm) in cross section, unless otherwise indicated; with insulators.

2.2 CONNECTORS

A. Listed and labeled by a nationally recognized testing laboratory acceptable to authorities having jurisdiction for applications in which used, and for specific types, sizes, and combinations of conductors and other items connected.

B. Bolted Connectors for Conductors and Pipes: Copper or copper alloy, bolted pressure-type, with at least two bolts.

1. Pipe Connectors: Clamp type, sized for pipe.

C. Welded Connectors: Exothermic-welding kits of types recommended by kit manufacturer for materials being joined and installation conditions.

2.3 GROUNDING ELECTRODES

A. Ground Rods: Copper-clad steel; 3/4 inch by10 feet (19 mm by 3 m) in diameter.

PART 3 - EXECUTION

3.1 APPLICATIONS

A. Conductors: Install solid conductor for No. 8 AWG and smaller, and stranded conductors for No. 6 AWG and larger, unless otherwise indicated.

B. Underground Grounding Conductors: Install barecopper conductor, No. 2/0 AWG minimum.

1. Bury at least 24 inches (600 mm) below grade.

C. Isolated Grounding Conductors: Green-colored insulation with continuous yellow stripe. On feeders with isolated ground, identify grounding conductor where visible to normal inspection, with alternating bands of green and yellow tape, with at least three bands of green and two bands of yellow.

D. Grounding Bus: Install in electrical and telephone equipment rooms, in rooms housing service equipment, and elsewhere as indicated.

1. Install bus on insulated spacers 1 inch (25 mm), minimum, from wall 6 inches (150 mm) above finished floor, unless otherwise indicated.
2. Where indicated on both sides of doorways, route bus up to top of door frame, across top of doorway, down to specified height above floor, and connect to horizontal bus.

E. Conductor Terminations and Connections:

1. Pipe and Equipment Grounding Conductor Terminations: Bolted connectors.
2. Underground Connections: Welded connectors, except at test wells and as otherwise indicated.
3. Connections to Ground Rods at Test Wells: Bolted connectors.
4. Connections to Structural Steel: Welded connectors.

3.2 GROUNDING OVERHEAD LINES

A. Comply with IEEE C2 grounding requirements.

B. Install 2 parallel ground rods if resistance to ground by a single, ground-rod electrode exceeds 25 ohms.

C. Drive ground rods until tops are 12 inches (300 mm) below finished grade in undisturbed earth.

D. Ground-Rod Connections: Install bolted connectors for underground connections and connections to rods.

E. Lightning Arrester Grounding Conductors: Separate from other grounding conductors.

F. Secondary Neutral and Transformer Enclosure: Interconnect and connect to grounding conductor.

G. Protect grounding conductors running on surface of wood poles with molding extended from grade level up to and through communication service and transformer spaces.

3.3 GROUNDING UNDERGROUND DISTRIBUTION SYSTEM COMPONENTS

A. Comply with IEEE C2 grounding requirements.

B. Grounding Manholes and Handholes: Install a driven ground rod through manhole or handhole floor, close to wall, and set rod depth so 4 inches (100 mm) will extend above finished floor. If necessary, install ground rod before manhole is placed and provide No. 1/0 AWG bare, tinned-copper conductor from ground rod into manhole through a waterproof sleeve in manhole wall. Protect ground rods passing through concrete floor with a double wrapping of pressure-sensitive insulating tape or heat-shrunk insulating sleeve from 2 inches (50 mm) above to 6 inches (150 mm) below concrete. Seal floor opening with waterproof, nonshrink grout.

C. Grounding Connections to Manhole Components: Bond exposed-metal parts such as inserts, cable racks, pulling irons, ladders, and cable shields within each manhole or handhole, to ground rod or grounding conductor. Make connections with No. 4 AWG minimum, stranded, hard-drawn copper bonding conductor. Train conductors level or plumb around corners and fasten to manhole walls. Connect to cable armor and cable shields as recommended by manufacturer of splicing and termination kits.

D. Pad-Mounted Transformers and Switches: Install two ground rods and ground ring around the pad. Ground pad-mounted equipment and noncurrent-carrying metal items associated with substations by connecting them to underground cable and grounding electrodes. Install tinned-copper conductor not less than No. 2 AWG for ground ring and for taps to equipment grounding terminals. Bury ground ring not less than 6 inches (150 mm) from the foundation.

3.4 EQUIPMENT GROUNDING

A. Install insulated equipment grounding conductors with all feeders and branch circuits.

B. Install insulated equipment grounding conductors with the following items, in addition to those required by NFPA 70:

1. Feeders and branch circuits.
2. Lighting circuits.
3. Receptacle circuits.
4. Single-phase motor and appliance branch circuits.
5. Three-phase motor and appliance branch circuits.
6. Flexible raceway runs.
7. Armored and metal-clad cable runs.
8. Busway Supply Circuits: Install insulated equipment grounding conductor from grounding bus in the switchgear, switchboard, or distribution panel to equipment grounding bar terminal on busway.

9. Computer and Rack-Mounted Electronic Equipment Circuits: Install insulated equipment grounding conductor in branch-circuit runs from equipment-area power panels and power-distribution units.
10. X-Ray Equipment Circuits: Install insulated equipment grounding conductor in circuits supplying x-ray equipment.

C. Air-Duct Equipment Circuits: Install insulated equipment grounding conductor to duct-mounted electrical devices operating at 120 V and more, including air cleaners, heaters, dampers, humidifiers, and other duct electrical equipment. Bond conductor to each unit and to air duct and connected metallic piping.

D. Water Heater, Heat-Tracing, and Antifrost Heating Cables: Install a separate insulated equipment grounding conductor to each electric water heater and heat-tracing cable. Bond conductor to heater units, piping, connected equipment, and components.

E. Isolated Grounding Receptacle Circuits: Install an insulated equipment grounding conductor connected to the receptacle grounding terminal. Isolate conductor from raceway and from panelboard grounding terminals. Terminate at equipment grounding conductor terminal of the applicable derived system or service, unless otherwise indicated.

F. Isolated Equipment Enclosure Circuits: For designated equipment supplied by a branch circuit or feeder, isolate equipment enclosure from supply circuit raceway with a nonmetallic raceway fitting listed for the purpose. Install fitting where raceway enters enclosure, and install a separate insulated equipment grounding conductor. Isolate conductor from raceway and from panelboard grounding terminals. Terminate at equipment grounding conductor terminal of the applicable derived system or service, unless otherwise indicated.

G. Signal and Communication Equipment: For telephone, alarm, voice and data, and other communication equipment, provide No. 4 AWG minimum insulated grounding conductor in raceway from grounding electrode system to each service location, terminal cabinet, wiring closet, and central equipment location.

1. Service and Central Equipment Locations and Wiring Closets: Terminate grounding conductor on a 1/4-by-2-by-12-inch (6-by-50-by-300-mm) grounding bus.
2. Terminal Cabinets: Terminate grounding conductor on cabinet grounding terminal.

3.5 INSTALLATION

A. Grounding Conductors: Route along shortest and straightest paths possible, unless otherwise indicated or required by Code. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.

B. Common Ground Bonding with Lightning Protection System: Comply with NFPA 780 and UL 96 when interconnecting with lightning protection system. Bond electrical power system ground directly to lightning protection system grounding conductor at closest point to electrical service grounding electrode. Use bonding conductor sized same as system grounding electrode conductor, and install in conduit.

C. Ground Rods: Drive rods until tops are 2 inches (50 mm) below finished floor or final grade, unless otherwise indicated.

1. Interconnect ground rods with grounding electrode conductor below grade and as otherwise indicated. Make connections without exposing steel or damaging coating, if any.
2. For grounding electrode system, install at least three rods spaced at least one-rod length from each other and located at least the same distance from other grounding electrodes, and connect to the service grounding electrode conductor.

D. Test Wells: Ground rod driven through drilled hole in bottom of handhole. Handholes are specified in Division 2 Section "Underground Ducts and Utility Structures," and shall be at least 12 inches (300 mm) deep, with cover.

1. Test Wells: Install at least one test well for each service, unless otherwise indicated. Install at the ground rod electrically closest to service entrance. Set top of test well flush with finished grade or floor.

E. Bonding Straps and Jumpers: Install in locations accessible for inspection and maintenance, except where routed through short lengths of conduit.

1. Bonding to Structure: Bond straps directly to basic structure, taking care not to penetrate any adjacent parts.
2. Bonding to Equipment Mounted on Vibration Isolation Hangers and Supports: Install so vibration is not transmitted to rigidly mounted equipment.
3. Use exothermic-welded connectors for outdoor locations, but if a disconnect-type connection is required, use a bolted clamp.

F. Grounding and Bonding for Piping:

1. Metal Water Service Pipe: Install insulated copper grounding conductors, in conduit, from building's main service equipment, or grounding bus, to main metal water service entrances to building. Connect grounding conductors to main metal water service pipes, using a bolted clamp connector or by bolting a lug-type connector to a pipe flange, using one of the lug bolts of the flange. Where a dielectric main water fitting is installed, connect grounding conductor on street side of fitting. Bond metal grounding conductor conduit or sleeve to conductor at each end.
2. Water Meter Piping: Use braided-type bonding jumpers to electrically bypass water meters. Connect to pipe with a bolted connector.
3. Bond each aboveground portion of gas piping system downstream from equipment shutoff valve.

G. Bonding Interior Metal Ducts: Bond metal air ducts to equipment grounding conductors of associated fans, blowers, electric heaters, and air cleaners. Install tinned bonding jumper to bond across flexible duct connections to achieve continuity.

H. Grounding for Steel Building Structure: Install a driven ground rod at base of each corner column and at intermediate exterior columns at distances not more than 60 feet (18 m) apart.

I. Ufer Ground (Concrete-Encased Grounding Electrode): Fabricate according to NFPA 70, using a minimum of 20 feet (6 m) of bare copper conductor not smaller than No. 4 AWG.

1. If concrete foundation is less than 20 feet (6 m) long, coil excess conductor within base of foundation.

2. Bond grounding conductor to reinforcing steel in at least four locations and to anchor bolts. Extend grounding conductor below grade and connect to building grounding grid or to grounding electrode external to concrete.

3.6 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing and inspecting agency to perform the following field tests and inspections and prepare test reports:

B. Perform the following tests and inspections and prepare test reports:

1. After installing grounding system but before permanent electrical circuits have been energized, test for compliance with requirements.
2. Test completed grounding system at each location where a maximum ground-resistance level is specified, at service disconnect enclosure grounding terminal, at ground test wells, and at individual ground rods. Make tests at ground rods before any conductors are connected.

    a. Measure ground resistance not less than two full days after last trace of precipitation and without soil being moistened by any means other than natural drainage or seepage and without chemical treatment or other artificial means of reducing natural ground resistance.
    b. Perform tests by fall-of-potential method according to IEEE 81.

3. Prepare dimensioned drawings locating each test well, ground rod and ground rod assembly, and other grounding electrodes. Identify each by letter in alphabetical order, and key to the record of tests and observations. Include the number of rods driven and their depth at each location, and include observations of weather and other phenomena that may affect test results. Describe measures taken to improve test results.

C. Report measured ground resistances that exceed the following values:

1. Power and Lighting Equipment or System with Capacity 500 kVA and Less: 10 ohms.
2. Power and Lighting Equipment or System with Capacity 500 to 1000 kVA: 5 ohms.
3. Power and Lighting Equipment or System with Capacity More Than 1000 kVA: 3 ohms.
4. Power Distribution Units or Panelboards Serving Electronic Equipment: 1 ohm(s).
5. Substations and Pad-Mounted Equipment: 5 ohms.
6. Manhole Grounds: 10 ohms.
7. ohms.

D. Excessive Ground Resistance: If resistance to ground exceeds specified values, notify Architect promptly and include recommendations to reduce ground resistance.

END OF SECTION 16060

SECTION 16075 - ELECTRICAL IDENTIFICATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Identification for raceways.
2. Identification of power and control cables.
3. Identification for conductors.
4. Underground-line warning tape.
5. Warning labels and signs.
6. Instruction signs.
7. Equipment identification labels.
8. Miscellaneous identification products.

1.3 SUBMITTALS

A. Product Data: For each electrical identification product indicated.

B. Samples: For each type of label and sign to illustrate size, colors, lettering style, mounting provisions, and graphic features of identification products.

C. Identification Schedule: An index of nomenclature of electrical equipment and system components used in identification signs and labels.

1.4 QUALITY ASSURANCE

A. Comply with ANSI A13.1 and IEEE C2.

B. Comply with NFPA 70.

C. Comply with 29 CFR 1910.144 and 29 CFR 1910.145.

D. Comply with ANSI Z535.4 for safety signs and labels.

E. Adhesive-attached labeling materials, including label stocks, laminating adhesives, and inks used by label printers, shall comply with UL 969.

1.5 COORDINATION

A. Coordinate identification names, abbreviations, colors, and other features with requirements in other Sections requiring identification applications, Drawings, Shop Drawings, manufacturer's wiring diagrams, and the Operation and Maintenance Manual; and with those required by codes, standards, and 29 CFR 1910.145. Use consistent designations throughout Project.

B. Coordinate installation of identifying devices with completion of covering and painting of surfaces where devices are to be applied.

C. Coordinate installation of identifying devices with location of access panels and doors.

D. Install identifying devices before installing acoustical ceilings and similar concealment.

PART 2 - PRODUCTS

2.1 POWER RACEWAY IDENTIFICATION MATERIALS

A. Comply with ANSI A13.1 for minimum size of letters for legend and for minimum length of color field for each raceway size.

B. Colors for Raceways Carrying Circuits at 600 V or Less:

1. Black letters on an orange field.
2. Legend: Indicate voltage and system or service type.

C. Colors for Raceways Carrying Circuits at More Than 600 V:

1. Black letters on an orange field.
2. Legend: "DANGER CONCEALED HIGH VOLTAGE WIRING" with 3-inch- (75-mm-) high letters on 20-inch (500-mm) centers.

D. Self-Adhesive Vinyl Labels for Raceways Carrying Circuits at 600 V or Less: Preprinted, flexible label laminated with a clear, weather- and chemical-resistant coating and matching wraparound adhesive tape for securing ends of legend label.

E. Snap-Around Labels for Raceways Carrying Circuits at 600 V or Less: Slit, pretensioned, flexible, preprinted, color-coded acrylic sleeve, with diameter sized to suit diameter of raceway or cable it identifies and to stay in place by gripping action.

F. Snap-Around, Color-Coding Bands for Raceways Carrying Circuits at 600 V or Less: Slit, pretensioned, flexible, solid-colored acrylic sleeve, 2 inches (50 mm) long, with diameter sized to suit diameter of raceway or cable it identifies and to stay in place by gripping action.

G. Tape and Stencil for Raceways Carrying Circuits More Than 600 V: 4-inch- (100-mm-) wide black stripes on 10-inch (250-mm) centers diagonally over orange background that extends full length of raceway or duct and is 12 inches (300 mm) wide. Stop stripes at legends.

H. Metal Tags: Brass or aluminum, 2 by 2 by 0.05 inch (50 by 50 by 1.3 mm), with stamped legend, punched for use with self-locking cable tie fastener.

I. Write-On Tags: Polyester tag, 0.010 inch (0.25 mm) thick, with corrosion-resistant grommet and cable tie for attachment to conductor or cable.

1. Marker for Tags: Permanent, waterproof, black ink marker recommended by tag manufacturer.

2. Marker for Tags: Machine-printed, permanent, waterproof, black ink marker recommended by printer manufacturer.

2.2 ARMORED AND METAL-CLAD CABLE IDENTIFICATION MATERIALS

A. Comply with ANSI A13.1 for minimum size of letters for legend and for minimum length of color field for each raceway and cable size.

B. Colors for Raceways Carrying Circuits at 600 V and Less:

1. Black letters on an orange field.
2. Legend: Indicate voltage and system or service type.

C. Colors for Raceways Carrying Circuits at More Than 600 V:

1. Black letters on an orange field.
2. Legend: "DANGER CONCEALED HIGH VOLTAGE WIRING" with 3-inch- (75-mm-) high letters on 20-inch (500-mm) centers.

D. Self-Adhesive Vinyl Labels: Preprinted, flexible label laminated with a clear, weather- and chemical-resistant coating and matching wraparound adhesive tape for securing ends of legend label.

E. Self-Adhesive Vinyl Tape: Colored, heavy duty, waterproof, fade resistant; 2 inches (50 mm) wide; compounded for outdoor use.

2.3 POWER AND CONTROL CABLE IDENTIFICATION MATERIALS

A. Comply with ANSI A13.1 for minimum size of letters for legend and for minimum length of color field for each raceway and cable size.

B. Snap-Around, Color-Coding Bands: Slit, pretensioned, flexible, solid-colored acrylic sleeve, 2 inches (50 mm) long, with diameter sized to suit diameter of raceway or cable it identifies and to stay in place by gripping action.

2.4 CONDUCTOR IDENTIFICATION MATERIALS

A. Color-Coding Conductor Tape: Colored, self-adhesive vinyl tape not less than 3 mils (0.08 mm) thick by 1 to 2 inches (25 to 50 mm) wide.

B. Marker Tapes: Vinyl or vinyl-cloth, self-adhesive wraparound type, with circuit identification legend machine printed by thermal transfer or equivalent process.

1. Marker for Tags: Permanent, waterproof, black ink marker recommended by tag manufacturer.

2.5 UNDERGROUND-LINE WARNING TAPE

A. Tape:

1. Recommended by manufacturer for the method of installation and suitable to identify and locate underground electrical and communications utility lines.
2. Printing on tape shall be permanent and shall not be damaged by burial operations.

3. Tape material and ink shall be chemically inert, and not subject to degrading when exposed to acids, alkalis, and other destructive substances commonly found in soils.

2.6 WARNING LABELS AND SIGNS

A. Comply with NFPA 70 and 29 CFR 1910.145.

B. Self-Adhesive Warning Labels: Factory-printed, multicolor, pressure-sensitive adhesive labels, configured for display on front cover, door, or other access to equipment unless otherwise indicated.

C. Baked-Enamel Warning Signs:

1. Preprinted aluminum signs, punched or drilled for fasteners, with colors, legend, and size required for application.
2. 1/4-inch (6.4-mm) grommets in corners for mounting.
3. Nominal size, 7 by 10 inches (180 by 250 mm).

2.7 INSTRUCTION SIGNS

A. Engraved, laminated acrylic or melamine plastic, minimum 1/16 inch (1.6 mm) thick for signs up to 20 sq. inches (129 sq. cm) and 1/8 inch (3.2 mm) thick for larger sizes.

1. Engraved legend with black letters on white face.
2. Punched or drilled for mechanical fasteners.
3. Framed with mitered acrylic molding and arranged for attachment at applicable equipment.

B. Adhesive Film Label: Machine printed, in black, by thermal transfer or equivalent process. Minimum letter height shall be 3/8 inch (10 mm).

2.8 EQUIPMENT IDENTIFICATION LABELS

A. Engraved, Laminated Acrylic or Melamine Label: Punched or drilled for screw mounting. White letters on a dark-gray background. Minimum letter height shall be 3/8 inch (10 mm).

B. Stenciled Legend: In nonfading, waterproof, black ink or paint. Minimum letter height shall be 1 inch (25 mm).

2.9 CABLE TIES

A. General-Purpose Cable Ties: Fungus inert, self extinguishing, one piece, self locking, Type 6/6 nylon.

1. Minimum Width: 3/16 inch (5 mm).
2. Tensile Strength at 73 deg F (23 deg C), According to ASTM D 638: 12,000 psi (82.7 MPa).
3. Temperature Range: Minus 40 to plus 185 deg F (Minus 40 to plus 85 deg C).
4. Color: Black except where used for color-coding.

B. UV-Stabilized Cable Ties: Fungus inert, designed for continuous exposure to exterior sunlight, self extinguishing, one piece, self locking, Type 6/6 nylon.

1. Minimum Width: 3/16 inch (5 mm).
2. Tensile Strength at 73 deg F (23 deg C), According to ASTM D 638: 12,000 psi (82.7 MPa).

3. Temperature Range: Minus 40 to plus 185 deg F (Minus 40 to plus 85 deg C).
4. Color: Black.

C. Plenum-Rated Cable Ties: Self extinguishing, UV stabilized, one piece, self locking.

1. Minimum Width: 3/16 inch (5 mm).
2. Tensile Strength at 73 deg F (23 deg C), According to ASTM D 638: 7000 psi (48.2 MPa).
3. UL 94 Flame Rating: 94V-0.
4. Temperature Range: Minus 50 to plus 284 deg F (Minus 46 to plus 140 deg C).
5. Color: Black.

2.10 MISCELLANEOUS IDENTIFICATION PRODUCTS

A. Paint: Comply with requirements in Division 9 painting Sections for paint materials and application requirements. Select paint system applicable for surface material and location (exterior or interior).

B. Fasteners for Labels and Signs: Self-tapping, stainless-steel screws or stainless-steel machine screws with nuts and flat and lock washers.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Verify identity of each item before installing identification products.

B. Location: Install identification materials and devices at locations for most convenient viewing without interference with operation and maintenance of equipment.

C. Apply identification devices to surfaces that require finish after completing finish work.

D. Self-Adhesive Identification Products: Clean surfaces before application, using materials and methods recommended by manufacturer of identification device.

E. Attach signs and plastic labels that are not self-adhesive type with mechanical fasteners appropriate to the location and substrate.

F. System Identification Color-Coding Bands for Raceways and Cables: Each color-coding band shall completely encircle cable or conduit. Place adjacent bands of two-color markings in contact, side by side. Locate bands at changes in direction, at penetrations of walls and floors, at 50-foot (15-m) maximum intervals in straight runs, and at 25-foot (7.6-m) maximum intervals in congested areas.

G. Aluminum Wraparound Marker Labels and Metal Tags: Secure tight to surface of conductor or cable at a location with high visibility and accessibility.

H. Cable Ties: For attaching tags. Use general-purpose type, except as listed below:

1. Outdoors: UV-stabilized nylon.
2. In Spaces Handling Environmental Air: Plenum rated.

I. Underground-Line Warning Tape: During backfilling of trenches install continuous underground-line warning tape directly above line at 6 to 8 inches (150 to 200 mm) below finished grade. Use multiple tapes where width of multiple lines installed in a common trenchexceeds 16 inches (400 mm) overall.

J. Painted Identification: Comply with requirements in Division 9 painting Sections for surface preparation and paint application.

3.2 IDENTIFICATION SCHEDULE

A. Concealed Raceways, Duct Banks, More Than 600 V, within Buildings: Tape and stencil 4-inch- (100-mm-) wide black stripes on 10-inch (250-mm) centers over orange background that extends full length of raceway or duct and is 12 inches (300 mm) wide. Stencil legend "DANGER CONCEALED HIGH VOLTAGE WIRING" with 3-inch- (75-mm-) high black letters on 20-inch (500-mm) centers. Stop stripes at legends. Apply to the following finished surfaces:

1. Floor surface directly above conduits running beneath and within 12 inches (300 mm) of a floor that is in contact with earth or is framed above unexcavated space.
2. Wall surfaces directly external to raceways concealed within wall.
3. Accessible surfaces of concrete envelope around raceways in vertical shafts, exposed in the building, or concealed above suspended ceilings.

B. Accessible Raceways and Metal-Clad Cables, 600 V or Less, for Service, Feeder, and Branch Circuits More Than 30 A, and 120 V to ground: Identify with self-adhesive vinyl label. Install labels at 10-foot (3-m) maximum intervals.

C. Accessible Raceways and Cables within Buildings: Identify the covers of each junction and pull box of the following systems with self-adhesive vinyl labels with the wiring system legend and system voltage. System legends shall be as follows:
1. Power.

D. Power-Circuit Conductor Identification, 600 V or Less: For conductors in vaults, pull and junction boxes, manholes, and handholes, use color-coding conductor tape to identify the phase.

1. Color-Coding for Phase and Voltage Level Identification, 600 V or Less: Use colors listed below for ungrounded service feeder and branch-circuit conductors.

a. Color shall be factory applied or field applied for sizes larger than No. 8 AWG, if authorities having jurisdiction permit.
b. Colors for 208/120-V Circuits:

1) Phase A: Black.
2) Phase B: Red.
3) Phase C: Blue.

c. Colors for 480/277-V Circuits:

1) Phase A: Brown.
2) Phase B: Orange.
3) Phase C: Yellow.

d. Field-Applied, Color-Coding Conductor Tape: Apply in half-lapped turns for a minimum distance of 6 inches (150 mm) from terminal points and in boxes where splices or taps are made. Apply last two turns of tape with no tension to prevent possible unwinding. Locate bands to avoid obscuring factory cable markings.

E. Power-Circuit Conductor Identification, More than 600 V: For conductors in vaults, pull and junction boxes, manholes, and handholes, use nonmetallic plastic tag holder with adhesive-backed phase tags, and a separate tag with the circuit designation.

F. Install instructional sign including the color-code for grounded and ungrounded conductors using adhesive-film-type labels.

G. Conductors to Be Extended in the Future: Attach marker tape to conductors and list source.

H. Auxiliary Electrical Systems Conductor Identification: Identify field-installed alarm, control, and signal connections.

1. Identify conductors, cables, and terminals in enclosures and at junctions, terminals, and pull points. Identify by system and circuit designation.
2. Use system of marker tape designations that is uniform and consistent with system used by manufacturer for factory-installed connections.
3. Coordinate identification with Project Drawings, manufacturer's wiring diagrams, and the Operation and Maintenance Manual.

I. Locations of Underground Lines: Identify with underground-line warning tape for power, lighting, communication, and control wiring and optical fiber cable.

1. Limit use of underground-line warning tape to direct-buried cables.
2. Install underground-line warning tape for both direct-buried cables and cables in raceway.

J. Workspace Indication: Install floor marking tape to show working clearances in the direction of access to live parts. Workspace shall be as required by NFPA 70 and 29 CFR 1926.403 unless otherwise indicated. Do not install at flush-mounted panelboards and similar equipment in finished spaces.

K. Warning Labels for Indoor Cabinets, Boxes, and Enclosures for Power and Lighting: Baked-enamel warning signs.

1. Comply with 29 CFR 1910.145.
2. Identify system voltage with black letters on an orange background.
3. Apply to exterior of door, cover, or other access.
4. For equipment with multiple power or control sources, apply to door or cover of equipment including, but not limited to, the following:

a. Power transfer switches.
b. Controls with external control power connections.

L. Operating Instruction Signs: Install instruction signs to facilitate proper operation and maintenance of electrical systems and items to which they connect. Install instruction signs with approved legend where instructions are needed for system or equipment operation.

M. Equipment Identification Labels: On each unit of equipment, install unique designation label that is consistent with wiring diagrams, schedules, and the Operation and Maintenance Manual. Apply labels to disconnect switches and protection equipment, central or master units, control panels, control stations, terminal cabinets, and racks of each system. Systems include power, lighting, control, communication, signal, monitoring, and alarm systems unless equipment is provided with its own identification.

1. Labeling Instructions:

a. Indoor Equipment: Engraved, laminated acrylic or melamine label. Unless otherwise indicated, provide a single line of text with 1/2-inch- (13-mm-) high letters on 1-1/2-inch- (38-mm-) high label; where two lines of text are required, use labels 2 inches (50 mm) high.
b. Outdoor Equipment: Engraved, laminated acrylic or melamine label.

c. Elevated Components: Increase sizes of labels and letters to those appropriate for viewing from the floor.
d. Unless provided with self-adhesive means of attachment, fasten labels with appropriate mechanical fasteners that do not change the NEMA or NRTL rating of the enclosure.

2. Equipment to Be Labeled:

a. Panelboards: Typewritten directory of circuits in the location provided by panelboard manufacturer. Panelboard identification shall be self-adhesive, engraved, laminated acrylic or melamine label.
b. Enclosures and electrical cabinets.
c. Access doors and panels for concealed electrical items.
d. Switchgear.
e. Switchboards.
f. Transformers: Label that includes tag designation shown on Drawings for the transformer, feeder, and panelboards or equipment supplied by the secondary.
g. Enclosed switches.
h. Enclosed circuit breakers.
i. Enclosed controllers.
j. Push-button stations.
k. Contactors.

END OF SECTION 16075

SECTION 16120 - CONDUCTORS AND CABLES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Building wires and cables rated 600 V and less.
2. Connectors, splices, and terminations rated 600 V and less.
3. Sleeves and sleeve seals for cables.

B. Related Sections include the following:

1. Division 16 Section "Voice and Data Communication Cabling" for cabling used for voice and data circuits.
2. Division 16 Section "Undercarpet Cables" for flat cables for undercarpet installations.
3. Division 16 Section "Medium-Voltage Cables" for single-conductor and multiconductor cables, cable splices, and terminations for electrical distribution systems with 2001 to 35,000 V.

1.3 DEFINITIONS

A. EPDM: Ethylene-propylene-diene terpolymer rubber.

B. NBR: Acrylonitrile-butadiene rubber.

1.4 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Qualification Data: For testing agency.

C. Field quality-control test reports.

1.5 QUALITY ASSURANCE

A. Testing Agency Qualifications: An independent agency, with the experience and capability to conduct the testing indicated, that is a member company of the InterNational Electrical Testing

Association or is a nationally recognized testing laboratory (NRTL) as defined by OSHA in 29 CFR 1910.7, and that is acceptable to authorities having jurisdiction.

1. Testing Agency's Field Supervisor: Person currently certified by the InterNational Electrical Testing Association or the National Institute for Certification in Engineering Technologies to supervise on-site testing specified in Part 3.

B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

C. Comply with NFPA 70.

1.6 COORDINATION

A. Set sleeves in cast-in-place concrete, masonry walls, and other structural components as they are constructed.

PART 2 - PRODUCTS

2.1 CONDUCTORS AND CABLES

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. Alcan Products Corporation; Alcan Cable Division.
2. American Insulated Wire Corp.; a Leviton Company.
3. Encore Wire
4. Southwire Company.

B. Copper Conductors: Comply with NEMA WC 70.

C. Conductor Insulation: Comply with NEMA WC 70 for Types THHN-THWN SO.

D. Multiconductor Cable: Comply with NEMA WC 70 for metal-clad cable, Type MC with ground wire.

2.2 CONNECTORS AND SPLICES

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. AFC Cable Systems, Inc.
2. Hubbell Power Systems, Inc.
3. O-Z/Gedney; EGS Electrical Group LLC.

4. 3M; Electrical Products Division.
5. Tyco Electronics Corp.

C. Description: Factory-fabricated connectors and splices of size, ampacity rating, material, type, and class for application and service indicated.

2.3 SLEEVES FOR CABLES

A. Steel Pipe Sleeves: ASTM A 53/A 53M, Type E, Grade B, Schedule 40, galvanized steel, plain ends.

B. Cast-Iron Pipe Sleeves: Cast or fabricated "wall pipe," equivalent to ductile-iron pressure pipe, with plain ends and integral waterstop, unless otherwise indicated.

C. Sleeves for Rectangular Openings: Galvanized sheet steel with minimum 0.052- or 0.138-inch (1.3- or 3.5-mm) thickness as indicated and of length to suit application.

D. Coordinate sleeve selection and application with selection and application of firestopping specified in Division 7 Section "Through-Penetration Firestop Systems."

2.4 SLEEVE SEALS

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. Advance Products & Systems, Inc.
2. Calpico, Inc.
3. Metraflex Co.
4. Pipeline Seal and Insulator, Inc.

B. Description: Modular sealing device, designed for field assembly, to fill annular space between sleeve and cable.

1. Sealing Elements: EPDM interlocking links shaped to fit surface of cable or conduit. Include type and number required for material and size of raceway or cable.
2. Pressure Plates: Carbon steel. Include two for each sealing element.
3. Connecting Bolts and Nuts: Carbon steel with corrosion-resistant coating of length required to secure pressure plates to sealing elements. Include one for each sealing element.

PART 3 - EXECUTION

3.1 CONDUCTOR MATERIAL APPLICATIONS

A. Feeders: Copper. Solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.

B. Branch Circuits: Copper. Solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.

3.2 CONDUCTOR INSULATION AND MULTICONDUCTOR CABLE APPLICATIONS AND WIRING METHODS

A. Service Entrance: Type THHN-THWN, single conductors in raceway.

B. Exposed Feeders: Type THHN-THWN, single conductors in raceway.

C. Feeders Concealed in Ceilings, Walls, Partitions, and Crawlspaces: Type THHN-THWN, single conductors in raceway.

D. Feeders Concealed in Concrete, below Slabs-on-Grade, and Underground: Type THHN-THWN, single conductors in raceway.

E. Feeders Installed below Raised Flooring: Type THHN-THWN, single conductors in raceway.

F. Exposed Branch Circuits, Including in Crawlspaces: Type THHN-THWN, single conductors in raceway.

G. Branch Circuits Concealed in Ceilings, Walls, and Partitions: Type THHN-THWN, single conductors in raceway.

H. Branch Circuits Concealed in Concrete, below Slabs-on-Grade, and Underground: Type THHN-THWN, single conductors in raceway.

I. Branch Circuits Installed below Raised Flooring: Type THHN-THWN, single conductors in raceway.

J. Branch Circuits in Cable Tray: Type THHN-THWN, single conductors in raceway.

K. Cord Drops and Portable Appliance Connections: Type SO, hard service cord with stainless-steel, wire-mesh, strain relief device at terminations to suit application.

L. Class 1 Control Circuits: Type THHN-THWN, in raceway.

M. Class 2 Control Circuits: Type THHN-THWN, in raceway.

3.3 INSTALLATION OF CONDUCTORS AND CABLES

A. Conceal cables in finished walls, ceilings, and floors, unless otherwise indicated.

B. Use manufacturer-approved pulling compound or lubricant where necessary; compound used must not deteriorate conductor or insulation. Do not exceed manufacturer's recommended maximum pulling tensions and sidewall pressure values.

C. Use pulling means, including fish tape, cable, rope, and basket-weave wire/cable grips, that will not damage cables or raceway.

D. Install exposed cables parallel and perpendicular to surfaces of exposed structural members, and follow surface contours where possible.

E. Support cables according to Division 16 Section "Electrical Supports and Seismic Restraints."

F. Identify and color-code conductors and cables according to Division 16 Section "Electrical Identification."

3.4 CONNECTIONS

A. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.

B. Make splices and taps that are compatible with conductor material and that possess equivalent or better mechanical strength and insulation ratings than unspliced conductors.

C. Wiring at Outlets: Install conductor at each outlet, with at least 6 inches (150 mm) of slack.

3.5 SLEEVE INSTALLATION FOR ELECTRICAL PENETRATIONS

A. Coordinate sleeve selection and application with selection and application of firestopping specified in Division 7 Section "Through-Penetration Firestop Systems."

B. Concrete Slabs and Walls: Install sleeves for penetrations unless core-drilled holes or formed openings are used. Install sleeves during erection of slabs and walls.

C. Use pipe sleeves unless penetration arrangement requires rectangular sleeved opening.

D. Rectangular Sleeve Minimum Metal Thickness:

1. For sleeve rectangle perimeter less than 50 inches (1270 mm) and no side greater than 16 inches (400 mm), thickness shall be 0.052 inch (1.3 mm).
2. For sleeve rectangle perimeter equal to, or greater than, 50 inches (1270 mm) and 1 or more sides equal to, or greater than, 16 inches (400 mm), thickness shall be 0.138 inch (3.5 mm).

E. Fire-Rated Assemblies: Install sleeves for penetrations of fire-rated floor and wall assemblies unless openings compatible with firestop system used are fabricated during construction of floor or wall.

F. Cut sleeves to length for mounting flush with both wall surfaces.

G. Extend sleeves installed in floors 2 inches (50 mm) above finished floor level.

H. Seal space outside of sleeves with grout for penetrations of concrete and masonry and with approved joint compound for gypsum board assemblies.

I. Interior Penetrations of Non-Fire-Rated Walls and Floors: Seal annular space between sleeve and cable, using joint sealant appropriate for size, depth, and location of joint according to Division 7 Section "Joint Sealants."

J. Fire-Rated-Assembly Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at cable penetrations. Install sleeves and seal with firestop materials according to Division 7 Section "Through-Penetration Firestop Systems."

K. Roof-Penetration Sleeves: Seal penetration of individual cables with flexible boot-type flashing units applied in coordination with roofing work.

L. Aboveground Exterior-Wall Penetrations: Seal penetrations using sleeves and mechanical sleeve seals. Size sleeves to allow for 1-inch (25-mm) annular clear space between pipe and sleeve for installing mechanical sleeve seals.

M. Underground Exterior-Wall Penetrations: Install cast-iron "wall pipes" for sleeves. Size sleeves to allow for 1-inch (25-mm) annular clear space between cable and sleeve for installing mechanical sleeve seals.

3.6 SLEEVE-SEAL INSTALLATION

A. Install to seal underground exterior-wall penetrations.

B. Use type and number of sealing elements recommended by manufacturer for cable material and size. Position cable in center of sleeve. Assemble mechanical sleeve seals and install in annular space between cable and sleeve. Tighten bolts against pressure plates that cause sealing elements to expand and make watertight seal.

3.7 FIRESTOPPING

A. Apply firestopping to electrical penetrations of fire-rated floor and wall assemblies to restore original fire-resistance rating of assembly according to Division 7 Section "Through-Penetration Firestop Systems."

3.8 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to perform tests and inspections and prepare test reports.

B. Perform tests and inspections and prepare test reports.

C. Tests and Inspections:

1. After installing conductors and cables and before electrical circuitry has been energized, test service entrance and feeder conductors, and conductors feeding the following critical equipment and services for compliance with requirements.

2. Perform each visual and mechanical inspection and electrical test stated in NETA Acceptance Testing Specification. Certify compliance with test parameters.

D. Test Reports: Prepare a written report to record the following:

1. Test procedures used.
2. Test results that comply with requirements.
3. Test results that do not comply with requirements and corrective action taken to achieve compliance with requirements.

E. Remove and replace malfunctioning units and retest as specified above.

END OF SECTION 16120

SECTION 16130 - RACEWAYS AND BOXES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes raceways, fittings, boxes, enclosures, and cabinets for electrical wiring.

B. Related Sections include the following:

1. Division 2 Section "Underground Ducts and Utility Structures" for exterior ductbanks, manholes, and underground utility construction.

1.3 DEFINITIONS

A. EMT: Electrical metallic tubing.

B. ENT: Electrical nonmetallic tubing.

C. EPDM: Ethylene-propylene-diene terpolymer rubber.

D. FMC: Flexible metal conduit.

E. IMC: Intermediate metal conduit.

F. LFMC: Liquidtight flexible metal conduit.

G. LFNC: Liquidtight flexible nonmetallic conduit.

H. NBR: Acrylonitrile-butadiene rubber.

I. RNC: Rigid nonmetallic conduit.

1.4 SUBMITTALS

A. Product Data: For surface raceways, wireways and fittings, floor boxes, hinged-cover enclosures, and cabinets.

B. Shop Drawings: For the following raceway components. Include plans, elevations, sections, details, and attachments to other work.
1. For handholes and boxes for underground wiring, including the following:

a. Duct entry provisions, including locations and duct sizes.
b. Frame and cover design.
c. Grounding details.
d. Dimensioned locations of cable rack inserts, and pulling-in and lifting irons.
e. Joint details.

C. Coordination Drawings: Conduit routing plans, drawn to scale, on which the following items are shown and coordinated with each other, based on input from installers of the items involved:

1. Structural members in the paths of conduit groups with common supports.
2. HVAC and plumbing items and architectural features in the paths of conduit groups with common supports.

3. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
4. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.

D. Qualification Data: For professional engineer and testing agency.

E. Source quality-control test reports.

1.5 QUALITY ASSURANCE

A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

B. Comply with NFPA 70.

PART 2 - PRODUCTS

2.1 METAL CONDUIT AND TUBING

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. AFC Cable Systems, Inc.
2. Alflex Inc.
3. Allied Tube & Conduit; a Tyco International Ltd. Co.
4. Anamet Electrical, Inc.; Anaconda Metal Hose.
5. Electri-Flex Co.
6. Manhattan/CDT/Cole-Flex.
7. Maverick Tube Corporation.
8. O-Z Gedney; a unit of General Signal.
9. Wheatland Tube Company.

B. Rigid Steel Conduit: ANSI C80.1.

C. Aluminum Rigid Conduit: ANSI C80.5.

D. IMC: ANSI C80.6.

E. EMT: ANSI C80.3.

F. FMC: Zinc-coated steel.

G. LFMC: Flexible steel conduit with PVC jacket.

H. Fittings for Conduit (Including all Types and Flexible and Liquidtight), EMT, and Cable: NEMA FB 1; listed for type and size raceway with which used, and for application and environment in which installed.

1. Conduit Fittings for Hazardous (Classified) Locations: Comply with UL 886.
2. Fittings for EMT: , set-screw type.
3. Coating for Fittings for PVC-Coated Conduit: Minimum thickness, 0.040 inch (1 mm), with overlapping sleeves protecting threaded joints.

I. Joint Compound for Rigid Steel Conduit or IMC: Listed for use in cable connector assemblies, and compounded for use to lubricate and protect threaded raceway joints from corrosion and enhance their conductivity.

2.2 NONMETALLIC CONDUIT AND TUBING

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. AFC Cable Systems, Inc.
2. Anamet Electrical, Inc.; Anaconda Metal Hose.
3. Arnco Corporation.
4. CANTEX Inc.
5. CertainTeed Corp.; Pipe & Plastics Group.
6. Condux International, Inc.
7. ElecSYS, Inc.
8. Electri-Flex Co.
9. Lamson & Sessions; Carlon Electrical Products.
10. Manhattan/CDT/Cole-Flex.
11. RACO; a Hubbell Company.
12. Thomas & Betts Corporation.

B. ENT: NEMA TC 13.

C. RNC: NEMA TC 2, Type EPC-40-PVC, unless otherwise indicated.

D. LFNC: UL 1660.

E. Fittings for ENT and RNC: NEMA TC 3; match to conduit or tubing type and material.

F. Fittings for LFNC: UL 514B.

2.3 OPTICAL FIBER/COMMUNICATIONS CABLE RACEWAY AND FITTINGS

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. Arnco Corporation.
2. Endot Industries Inc.
3. IPEX Inc.
4. Lamson & Sessions; Carlon Electrical Products.

B. Description: Comply with UL 2024; flexible type, approved for plenum installation.

2.4 METAL WIREWAYS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Cooper B-Line, Inc.
2. Hoffman.
3. Square D; Schneider Electric.

B. Description: Sheet metal sized and shaped as indicated, NEMA 250, Type 1, unless otherwise indicated.

C. Fittings and Accessories: Include couplings, offsets, elbows, expansion joints, adapters, hold-down straps, end caps, and other fittings to match and mate with wireways as required for complete system.

D. Wireway Covers: Hinged type.

E. Finish: Manufacturer's standard enamel finish.

2.5 NONMETALLIC WIREWAYS

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. Hoffman.
2. Lamson & Sessions; Carlon Electrical Products.

B. Description: PVC plastic, extruded and fabricated to size and shape indicated, with snap-on cover and mechanically coupled connections with plastic fasteners.

C. Fittings and Accessories: Include couplings, offsets, elbows, expansion joints, adapters, hold-down straps, end caps, and other fittings to match and mate with wireways as required for complete system.

2.6 SURFACE RACEWAYS

A. Surface Metal Raceways: Galvanized steel with snap-on covers. Manufacturer's standard enamel finish in color selected by Architect.

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

    a. Thomas & Betts Corporation.
    b. Walker Systems, Inc.; Wiremold Company (The).
    c. Wiremold Company (The); Electrical Sales Division.

B. Surface Nonmetallic Raceways: Two-piece construction, manufactured of rigid PVC with texture and color selected by Architect from manufacturer's standard colors.

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

    a. Manufacturing Company; Walker Division.
    b. Enduro Systems, Inc.; Composite Products Division.
    c. Hubbell Incorporated; Wiring Device-Kellems Division.
    d. Lamson & Sessions; Carlon Electrical Products.
    e. Panduit Corp.
    f. Walker Systems, Inc.; Wiremold Company (The).
    g. Wiremold Company (The); Electrical Sales Division.

2.7 BOXES, ENCLOSURES, AND CABINETS

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. Cooper Crouse-Hinds; Div. of Cooper Industries, Inc.
2. EGS/Appleton Electric.
3. Erickson Electrical Equipment Company.
4. Hoffman.
5. Hubbell Incorporated; Killark Electric Manufacturing Co. Division.
6. O-Z/Gedney; a unit of General Signal.
7. RACO; a Hubbell Company.
8. Robroy Industries, Inc.; Enclosure Division.
9. Scott Fetzer Co.; Adalet Division.
10. Spring City Electrical Manufacturing Company.
11. Thomas & Betts Corporation.
12. Walker Systems, Inc.; Wiremold Company (The).
13. Woodhead, Daniel Company; Woodhead Industries, Inc. Subsidiary.

B. Sheet Metal Outlet and Device Boxes: NEMA OS 1.

C. Cast-Metal Outlet and Device Boxes: NEMA FB 1, ferrous alloy, Type FD, with gasketed cover.

D. Nonmetallic Outlet and Device Boxes: NEMA OS 2.

E. Metal Floor Boxes: Cast or sheet metal, semi-adjustable, rectangular.

F. Nonmetallic Floor Boxes: Nonadjustable, round.

G. Small Sheet Metal Pull and Junction Boxes: NEMA OS 1.

H. Cast-Metal Access, Pull, and Junction Boxes: NEMA FB 1, cast aluminum with gasketed cover.

I. Hinged-Cover Enclosures: NEMA 250, Type 1, with continuous-hinge cover with flush latch, unless otherwise indicated.

1. Metal Enclosures: Steel, finished inside and out with manufacturer's standard enamel.
2. Nonmetallic Enclosures: Plastic.

J. Cabinets:

1. NEMA 250, Type 1, galvanized-steel box with removable interior panel and removable front, finished inside and out with manufacturer's standard enamel.
2. Hinged door in front cover with flush latch and concealed hinge.
3. Key latch to match panelboards.
4. Metal barriers to separate wiring of different systems and voltage.
5. Accessory feet where required for freestanding equipment.

2.8 HANDHOLES AND BOXES FOR EXTERIOR UNDERGROUND WIRING

A. Description: Comply with SCTE 77.

1. Color of Frame and Cover: Green.
2. Configuration: Units shall be designed for flush burial and have integral closed bottom, unless otherwise indicated.
3. Cover: Weatherproof, secured by tamper-resistant locking devices and having structural load rating consistent with enclosure.
4. Cover Finish: Nonskid finish shall have a minimum coefficient of friction of 0.50.
5. Cover Legend: Molded lettering, as indicated for each service.
6. Conduit Entrance Provisions: Conduit-terminating fittings shall mate with entering ducts for secure, fixed installation in enclosure wall.
7. Handholes 12 inches wide by 24 inches long (300 mm wide by 600 mm long) and larger shall have inserts for cable racks and pulling-in irons installed before concrete is poured.

8. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. Armorcast Products Company.

b. Carson Industries LLC.
c. CDR Systems Corporation.
d. NewBasis.

B. Fiberglass Handholes and Boxes with Polymer-Concrete Frame and Cover: Sheet-molded, fiberglass-reinforced, polyester-resin enclosure joined to polymer-concrete top ring or frame.

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. Armorcast Products Company.
b. Carson Industries LLC.
c. Christy Concrete Products.
d. Synertech Moulded Products, Inc.; a division of Oldcastle Precast.

C. Fiberglass Handholes and Boxes: Molded of fiberglass-reinforced polyester resin, with covers of polymer concrete.

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

a. Carson Industries LLC.
b. Christy Concrete Products.
c. Nordic Fiberglass, Inc.

2.9 SLEEVES FOR RACEWAYS

A. Steel Pipe Sleeves: ASTM A 53/A 53M, Type E, Grade B, Schedule 40, galvanized steel, plain ends.

B. Cast-Iron Pipe Sleeves: Cast or fabricated "wall pipe," equivalent to ductile-iron pressure pipe, with plain ends and integral waterstop, unless otherwise indicated.

C. Sleeves for Rectangular Openings: Galvanized sheet steel with minimum 0.052- or 0.138-inch (1.3- or 3.5-mm) thickness as indicated and of length to suit application.

D. Coordinate sleeve selection and application with selection and application of firestopping specified in Division 7 Section "Through-Penetration Firestop Systems."

2.10 SOURCE QUALITY CONTROL FOR UNDERGROUND ENCLOSURES

A. Handhole and Pull-Box Prototype Test: Test prototypes of handholes and boxes for compliance with SCTE 77. Strength tests shall be for specified tier ratings of products supplied.

1. Tests of materials shall be performed by a independent testing agency.
2. Strength tests of complete boxes and covers shall be by either an independent testing agency or manufacturer. A qualified registered professional engineer shall certify tests by manufacturer.

3. Testing machine pressure gages shall have current calibration certification complying with ISO 9000 and ISO 10012, and traceable to NIST standards.

PART 3 - EXECUTION

3.1 RACEWAY APPLICATION

A. Outdoors: Apply raceway products as specified below, unless otherwise indicated:

1. Exposed Conduit: Rigid steel conduit.
2. Concealed Conduit, Aboveground: Rigid steel conduit.
3. Underground Conduit: RNC, Type EPC-40-PVC, direct buried.
4. Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): LFMC.
5. Boxes and Enclosures, Aboveground: NEMA 250, Type 3R.

B. Comply with the following indoor applications, unless otherwise indicated:

1. Exposed, Not Subject to Physical Damage: EMT.
2. Exposed, Not Subject to Severe Physical Damage: EMT.
3. Exposed and Subject to Severe Physical Damage: Rigid steel conduit. Includes raceways in the following locations:

    a. Loading dock.
    b. Corridors used for traffic of mechanized carts, forklifts, and pallet-handling units.
    c. Mechanical rooms.

4. Concealed in Ceilings and Interior Walls and Partitions: EMT.
5. Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): FMC, except use LFMC in damp or wet locations.
6. Damp or Wet Locations: Rigid steel conduit.
7. Raceways for Optical Fiber or Communications Cable in Spaces Used for Environmental Air: EMT.
8. Raceways for Optical Fiber or Communications Cable Risers in Vertical Shafts: EMT.
9. Raceways for Concealed General Purpose Distribution of Optical Fiber or Communications Cable: EMT.
10. Boxes and Enclosures: NEMA 250, Type 1, except use NEMA 250, Type 4, nonmetallic in damp or wet locations.

C. Minimum Raceway Size: 1/2-inch (16-mm) trade size.

D. Raceway Fittings: Compatible with raceways and suitable for use and location.

1. Rigid and Intermediate Steel Conduit: Use threaded rigid steel conduit fittings, unless otherwise indicated.
2. PVC Externally Coated, Rigid Steel Conduits: Use only fittings listed for use with that material. Patch and seal all joints, nicks, and scrapes in PVC coating after installing conduits and fittings. Use sealant recommended by fitting manufacturer.

E. Install nonferrous conduit or tubing for circuits operating above 60 Hz. Where aluminum raceways are installed for such circuits and pass through concrete, install in nonmetallic sleeve.

F. Do not install aluminum conduits in contact with concrete.

3.2 INSTALLATION

A. Comply with NECA 1 for installation requirements applicable to products specified in Part 2 except where requirements on Drawings or in this Article are stricter.

B. Keep raceways at least 6 inches (150 mm) away from parallel runs of flues and steam or hot-water pipes. Install horizontal raceway runs above water and steam piping.

C. Complete raceway installation before starting conductor installation.

D. Support raceways as specified in Division 16 Section "Electrical Supports and Seismic Restraints."

E. Arrange stub-ups so curved portions of bends are not visible above the finished slab.

F. Install no more than the equivalent of three 90-degree bends in any conduit run except for communications conduits, for which fewer bends are allowed.

G. Conceal conduit and EMT within finished walls, ceilings, and floors, unless otherwise indicated.

H. Raceways Embedded in Slabs:

1. Run conduit larger than 1-inch (27-mm) trade size, parallel or at right angles to main reinforcement. Where at right angles to reinforcement, place conduit close to slab support.
2. Arrange raceways to cross building expansion joints at right angles with expansion fittings.
3. Change from ENT to RNC, Type EPC-40-PVC, rigid steel conduit, or IMC before rising above the floor.

I. Threaded Conduit Joints, Exposed to Wet, Damp, Corrosive, or Outdoor Conditions: Apply listed compound to threads of raceway and fittings before making up joints. Follow compound manufacturer's written instructions.

J. Raceway Terminations at Locations Subject to Moisture or Vibration: Use insulating bushings to protect conductors, including conductors smaller than No. 4 AWG.

K. Install pull wires in empty raceways. Use polypropylene or monofilament plastic line with not less than 200-lb (90-kg) tensile strength. Leave at least 12 inches (300 mm) of slack at each end of pull wire.

L. Raceways for Optical Fiber and Communications Cable: Install raceways, metallic and nonmetallic, rigid and flexible, as follows:

1. 3/4-Inch (19-mm) Trade Size and Smaller: Install raceways in maximum lengths of 50 feet (15 m).
2. 1-Inch (25-mm) Trade Size and Larger: Install raceways in maximum lengths of 75 feet (23 m).
3. Install with a maximum of two 90-degree bends or equivalent for each length of raceway unless Drawings show stricter requirements. Separate lengths with pull or junction boxes or terminations at distribution frames or cabinets where necessary to comply with these requirements.
4. Use insulating bushings to protect wiring.

M. Expansion-Joint Fittings for RNC: Install in each run of aboveground conduit that is located where environmental temperature change may exceed 30 deg F (17 deg C), and that has straight-run length that exceeds 25 feet (7.6 m).

1. Install expansion-joint fittings for each of the following locations, and provide type and quantity of fittings that accommodate temperature change listed for location:

    a. Outdoor Locations Not Exposed to Direct Sunlight: 125 deg F (70 deg C) temperature change.
    b. Outdoor Locations Exposed to Direct Sunlight: 155 deg F (86 deg C) temperature change.
    c. Indoor Spaces: Connected with the Outdoors without Physical Separation: 125 deg F (70 deg C) temperature change.
    d. Attics: 135 deg F (75 deg C) temperature change.
    e. Insert location and corresponding temperature change.

2. Install fitting(s) that provide expansion and contraction for at least 0.00041 inch per foot of length of straight run per deg F (0.06 mm per meter of length of straight run per deg C) of temperature change.
3. Install each expansion-joint fitting with position, mounting, and piston setting selected according to manufacturer's written instructions for conditions at specific location at the time of installation.

N. Flexible Conduit Connections: Use maximum of 72 inches (1830 mm) of flexible conduit for recessed and semirecessed lighting fixtures, equipment subject to vibration, noise transmission, or movement; and for transformers and motors.

1. Use LFMC in damp or wet locations subject to severe physical damage.
2. Use LFMC or LFNC in damp or wet locations not subject to severe physical damage.

O. Recessed Boxes in Masonry Walls: Saw-cut opening for box in center of cell of masonry block, and install box flush with surface of wall.

P. Set metal floor boxes level and flush with finished floor surface.

Q. Set nonmetallic floor boxes level. Trim after installation to fit flush with finished floor surface.

3.3 INSTALLATION OF UNDERGROUND CONDUIT

A. Direct-Buried Conduit:

1. Excavate trench bottom to provide firm and uniform support for conduit. Prepare trench bottom as specified in Division 2 Section "Earthwork" for pipe less than 6 inches (150 mm) in nominal diameter.
2. Install backfill as specified in Division 2 Section "Earthwork."
3. After installing conduit, backfill and compact. Start at tie-in point, and work toward end of conduit run, leaving conduit at end of run free to move with expansion and contraction as temperature changes during this process. Firmly hand tamp backfill around conduit to provide maximum supporting strength. After placing controlled backfill to within 12 inches (300 mm) of finished grade, make final conduit connection at end of run and complete backfilling with normal compaction as specified in Division 2 Section "Earthwork."
4. Install manufactured duct elbows for stub-ups at poles and equipment and at building entrances through the floor, unless otherwise indicated. Encase elbows for stub-up ducts throughout the length of the elbow.
5. Install manufactured rigid steel conduit elbows for stub-ups at poles and equipment and at building entrances through the floor.

    a. Couple steel conduits to ducts with adapters designed for this purpose, and encase coupling with 3 inches (75 mm) of concrete.
    b. For stub-ups at equipment mounted on outdoor concrete bases, extend steel conduit horizontally a minimum of 60 inches (1500 mm) from edge of equipment pad or foundation. Install insulated grounding bushings on terminations at equipment.

6. Warning Planks: Bury warning planks approximately 12 inches (300 mm) above direct-buried conduits, placing them 24 inches (600 mm) o.c. Align planks along the width and along the centerline of conduit.

3.4 INSTALLATION OF UNDERGROUND HANDHOLES AND BOXES

A. Install handholes and boxes level and plumb and with orientation and depth coordinated with connecting conduits to minimize bends and deflections required for proper entrances.

B. Unless otherwise indicated, support units on a level bed of crushed stone or gravel, graded from 1/2-inch (12.5-mm) sieve to No. 4 (4.75-mm) sieve and compacted to same density as adjacent undisturbed earth.

C. Elevation: In paved areas, set so cover surface will be flush with finished grade. Set covers of other enclosures 1 inch (25 mm) above finished grade.

D. Install handholes and boxes with bottom below the frost line, below grade.

E. Install removable hardware, including pulling eyes, cable stanchions, cable arms, and insulators, as required for installation and support of cables and conductors and as indicated. Select arm lengths to be long enough to provide spare space for future cables, but short enough to preserve adequate working clearances in the enclosure.

F. Field-cut openings for conduits according to enclosure manufacturer's written instructions. Cut wall of enclosure with a tool designed for material to be cut. Size holes for terminating fittings to be used, and seal around penetrations after fittings are installed.

3.5 SLEEVE INSTALLATION FOR ELECTRICAL PENETRATIONS

A. Coordinate sleeve selection and application with selection and application of firestopping specified in Division 7 Section "Through-Penetration Firestop Systems."

B. Concrete Slabs and Walls: Install sleeves for penetrations unless core-drilled holes or formed openings are used. Install sleeves during erection of slabs and walls.

C. Use pipe sleeves unless penetration arrangement requires rectangular sleeved opening.

D. Rectangular Sleeve Minimum Metal Thickness:

1. For sleeve cross-section rectangle perimeter less than 50 inches (1270 mm) and no side greater than 16 inches (400 mm), thickness shall be 0.052 inch (1.3 mm).
2. For sleeve cross-section rectangle perimeter equal to, or greater than, 50 inches (1270 mm) and 1 or more sides equal to, or greater than, 16 inches (400 mm), thickness shall be 0.138 inch (3.5 mm).

E. Fire-Rated Assemblies: Install sleeves for penetrations of fire-rated floor and wall assemblies unless openings compatible with firestop system used are fabricated during construction of floor or wall.

F. Cut sleeves to length for mounting flush with both surfaces of walls.

G. Extend sleeves installed in floors 2 inches (50 mm) above finished floor level.

H. Size pipe sleeves to provide 1/4-inch (6.4-mm) annular clear space between sleeve and raceway unless sleeve seal is to be installed.

I. Seal space outside of sleeves with grout for penetrations of concrete and masonry and with approved joint compound for gypsum board assemblies.

J. Interior Penetrations of Non-Fire-Rated Walls and Floors: Seal annular space between sleeve and raceway, using joint sealant appropriate for size, depth, and location of joint. Refer to Division 7 Section "Joint Sealants" for materials and installation.

K. Fire-Rated-Assembly Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at raceway penetrations. Install sleeves and seal with firestop materials. Comply with Division 7 Section "Through-Penetration Firestop Systems."

L. Roof-Penetration Sleeves: Seal penetration of individual raceways with flexible, boot-type flashing units applied in coordination with roofing work.

M. Aboveground, Exterior-Wall Penetrations: Seal penetrations using sleeves and mechanical sleeve seals. Select sleeve size to allow for 1-inch (25-mm) annular clear space between pipe and sleeve for installing mechanical sleeve seals.

N. Underground, Exterior-Wall Penetrations: Install cast-iron "wall pipes" for sleeves. Size sleeves to allow for 1-inch (25-mm) annular clear space between raceway and sleeve for installing mechanical sleeve seals.

3.6 SLEEVE-SEAL INSTALLATION

A. Install to seal underground, exterior wall penetrations.

B. Use type and number of sealing elements recommended by manufacturer for raceway material and size. Position raceway in center of sleeve. Assemble mechanical sleeve seals and install in annular space between raceway and sleeve. Tighten bolts against pressure plates that cause sealing elements to expand and make watertight seal.

3.7 FIRESTOPPING

A. Apply firestopping to electrical penetrations of fire-rated floor and wall assemblies to restore original fire-resistance rating of assembly. Firestopping materials and installation requirements are specified in Division 7 Section "Through-Penetration Firestop Systems."

3.8 PROTECTION

A. Provide final protection and maintain conditions that ensure coatings, finishes, and cabinets are without damage or deterioration at time of Substantial Completion.

1. Repair damage to galvanized finishes with zinc-rich paint recommended by manufacturer.
2. Repair damage to PVC or paint finishes with matching touchup coating recommended by manufacturer.

END OF SECTION 16130

SECTION 16410 - ENCLOSED SWITCHES AND CIRCUIT BREAKERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Fusible switches.
2. Nonfusible switches.
3. Enclosures.

1.3 DEFINITIONS

A. NC: Normally closed.

B. NO: Normally open.

C. SPDT: Single pole, double throw.

1.4 SUBMITTALS

A. Product Data: For each type of enclosed switch, circuit breaker, accessory, and component indicated. Include dimensioned elevations, sections, weights, and manufacturers' technical data on features, performance, electrical characteristics, ratings, accessories, and finishes.

1. Enclosure types and details for types other than NEMA 250, Type 1.
2. Current and voltage ratings.
3. Short-circuit current ratings (interrupting and withstand, as appropriate).
4. Detail features, characteristics, ratings, and factory settings of individual overcurrent protective devices, accessories, and auxiliary components.
5. Retain subparagraph below if final system short-circuit and coordination studies will be performed by the designer or will be assigned to an independent consultant. These curves are also beneficial to Owner for future additions or reevaluations of settings of overcurrent protective devices. Although some manufacturers no longer offer curves on translucent graph paper, curves can normally be downloaded from manufacturers' Web sites or be obtained, in electronic form, from various coordination software vendors as part of a subscription service. Retain option in subparagraph below only if manufacturers selected offer

B. Shop Drawings: For enclosed switches and circuit breakers. Include plans, elevations, sections, details, and attachments to other work.

1. Wiring Diagrams: For power, signal, and control wiring.

C. Qualification Data: For qualified testing agency.

D. Field quality-control reports.

1. Test procedures used.
2. Test results that comply with requirements.
3. Results of failed tests and corrective action taken to achieve test results that comply with requirements.

E. Manufacturer's field service report.

F. Operation and Maintenance Data: For enclosed switches and circuit breakers to include in emergency, operation, and maintenance manuals. In addition to items specified in Division 1 Section "Operation and Maintenance Data," include the following:

1. Manufacturer's written instructions for testing and adjusting enclosed switches and circuit breakers.

1.5 QUALITY ASSURANCE

A. Testing Agency Qualifications: Member company of NETA or an NRTL.

1. Testing Agency's Field Supervisor: Currently certified by NETA to supervise on-site testing.

B. Source Limitations: Obtain enclosed switches and circuit breakers, overcurrent protective devices, components, and accessories, within same product category, from single source from single manufacturer.

C. Product Selection for Restricted Space: Drawings indicate maximum dimensions for enclosed switches and circuit breakers, including clearances between enclosures, and adjacent surfaces and other items. Comply with indicated maximum dimensions.

D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

E. Comply with NFPA 70.

1.6 PROJECT CONDITIONS

A. Environmental Limitations: Rate equipment for continuous operation under the following conditions unless otherwise indicated:

1. Ambient Temperature: Not less than minus 22 deg F (minus 30 deg C) and not exceeding 104 deg F (40 deg C).

2. Altitude: Not exceeding 6600 feet (2010 m).

1.7 COORDINATION

A. Coordinate layout and installation of switches, circuit breakers, and components with equipment served and adjacent surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.

PART 2 - PRODUCTS

2.1 FUSIBLE SWITCHES

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Eaton Electrical Inc.; Cutler-Hammer Business Unit.
2. General Electric Company; GE Consumer & Industrial - Electrical Distribution.
3. Siemens Energy & Automation, Inc.
4. Square D; a brand of Schneider Electric.

B. Type HD, Heavy Duty, Single Throw, 600-V ac, 1200 A and Smaller: UL 98 and NEMA KS 1, horsepower rated, with clips or bolt pads to accommodate specified fuses, lockable handle with capability to accept three padlocks, and interlocked with cover in closed position.

C. Accessories:

1. Equipment Ground Kit: Internally mounted and labeled for copper and aluminum ground conductors.
2. Neutral Kit: Internally mounted; insulated, capable of being grounded and bonded; labeled for copper and aluminum neutral conductors.
3. Isolated Ground Kit: Internally mounted; insulated, capable of being grounded and bonded; labeled for copper and aluminum neutral conductors.
4. Class R Fuse Kit: Provides rejection of other fuse types when Class R fuses are specified.
5. Lugs: Mechanical type, suitable for number, size, and conductor material.
6. Service-Rated Switches: Labeled for use as service equipment.

2.2 NONFUSIBLE SWITCHES

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Eaton Electrical Inc.; Cutler-Hammer Business Unit.
2. Siemens Energy & Automation, Inc.
3. Square D; a brand of Schneider Electric.

B. Type HD, Heavy Duty, Single Throw, 600-V ac, 1200 A and Smaller: UL 98 and NEMA KS 1, horsepower rated, lockable handle with capability to accept three padlocks, and interlocked with cover in closed position.

C. Accessories:

1. Equipment Ground Kit: Internally mounted and labeled for copper and aluminum ground conductors.
2. Neutral Kit: Internally mounted; insulated, capable of being grounded and bonded; labeled for copper and aluminum neutral conductors.
3. Isolated Ground Kit: Internally mounted; insulated, capable of being grounded and bonded; labeled for copper and aluminum neutral conductors.
4. Lugs: Mechanical type, suitable for number, size, and conductor material.

2.3 ENCLOSURES

A. Enclosed Switches and Circuit Breakers: NEMA AB 1, NEMA KS 1, NEMA 250, and UL 50, to comply with environmental conditions at installed location.

1. Indoor, Dry and Clean Locations: NEMA 250, Type 1.
2. Outdoor Locations: NEMA 250, Type 3R.
3. Kitchen Areas: NEMA 250, Type 4X,.
4. Other Wet or Damp, Indoor Locations: NEMA 250, Type 4.
5. Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA 250, Type 12.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine elements and surfaces to receive enclosed switches and circuit breakers for compliance with installation tolerances and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install individual wall-mounted switches and circuit breakers with tops at uniform height unless otherwise indicated.

B. Comply with mounting and anchoring requirements specified in Division 16 Section "Vibration and Seismic Controls for Electrical Systems."

C. Temporary Lifting Provisions: Remove temporary lifting eyes, channels, and brackets and temporary blocking of moving parts from enclosures and components.

D. Install fuses in fusible devices.

E. Comply with NECA 1.

3.3 IDENTIFICATION

A. Comply with requirements in Division 16 Section "Electrical Identification."

1. Identify field-installed conductors, interconnecting wiring, and components; provide warning signs.
2. Label each enclosure with engraved metal or laminated-plastic nameplate.

3.4 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.

B. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.

C. Perform tests and inspections.

1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.

D. Acceptance Testing Preparation:

1. Test insulation resistance for each enclosed switch and circuit breaker, component, connecting supply, feeder, and control circuit.
2. Test continuity of each circuit.

E. Tests and Inspections:

1. Perform each visual and mechanical inspection and electrical test stated in NETA Acceptance Testing Specification. Certify compliance with test parameters.
2. Correct malfunctioning units on-site, where possible, and retest to demonstrate compliance; otherwise, replace with new units and retest.
3. Perform the following infrared scan tests and inspections and prepare reports:

    a. Initial Infrared Scanning: After Substantial Completion, but not more than 60 days after Final Acceptance, perform an infrared scan of each enclosed switch and circuit breaker. Remove front panels so joints and connections are accessible to portable scanner.
    b. Follow-up Infrared Scanning: Perform an additional follow-up infrared scan of each enclosed switch and circuit breaker 11 months after date of Substantial Completion.
    c. Instruments and Equipment: Use an infrared scanning device designed to measure temperature or to detect significant deviations from normal values. Provide calibration record for device.

4. Test and adjust controls, remote monitoring, and safeties. Replace damaged and malfunctioning controls and equipment.

F. Enclosed switches and circuit breakers will be considered defective if they do not pass tests and inspections.

G. Prepare test and inspection reports, including a certified report that identifies enclosed switches and circuit breakers and that describes scanning results. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.

3.5 ADJUSTING

A. Adjust moving parts and operable components to function smoothly, and lubricate as recommended by manufacturer.

END OF SECTION 16410

SECTION 16511 - INTERIOR LIGHTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Interior lighting fixtures, lamps, and ballasts.
2. Emergency lighting units.
3. Exit signs.
4. Lighting fixture supports.
5. Retrofit kits for fluorescent lighting fixtures.

B. Related Sections include the following:

1. Division 13 Section "Lighting Controls" for manual or programmable control systems with low-voltage control wiring or data communication circuits.
2. Division 16 Section "Wiring Devices" for manual wall-box dimmers for incandescent lamps.
3. Division 16 Section "Lighting Control Devices" for automatic control of lighting, including time switches, photoelectric relays, occupancy sensors, and multipole lighting relays and contactors.
4. Division 16 Section "Stage Lighting" for theatrical lighting fixtures and their controls.
5. Division 16 Section "Dimming Controls" for architectural dimming systems.

1.3 DEFINITIONS

A. BF: Ballast factor.

B. CRI: Color-rendering index.

C. CU: Coefficient of utilization.

D. HID: High-intensity discharge.

E. LER: Luminaire efficacy rating.

F. Luminaire: Complete lighting fixture, including ballast housing if provided.

G. RCR: Room cavity ratio.

1.4 SUBMITTALS

A. Product Data: For each type of lighting fixture, arranged in order of fixture designation. Include data on features, accessories, finishes, and the following:

1. Physical description of lighting fixture including dimensions.
2. Emergency lighting units including battery and charger.
3. Ballast.
4. Energy-efficiency data.
5. Air and Thermal Performance Data: For air-handling lighting fixtures. Furnish data required in "Submittals" Article in Division 15 Section "Diffusers, Registers, and Grilles."
6. Sound Performance Data: For air-handling lighting fixtures. Indicate sound power level and sound transmission class in test reports certified according to standards specified in Division 15 Section "Diffusers, Registers, and Grilles."
7. Life, output, and energy-efficiency data for lamps.
8. Photometric data, in IESNA format, based on laboratory tests of each lighting fixture type, outfitted with lamps, ballasts, and accessories identical to those indicated for the lighting fixture as applied in this Project.

    a. For indicated fixtures, photometric data shall be certified by a qualified independent testing agency. Photometric data for remaining fixtures shall be certified by the manufacturer.
    b. Photometric data shall be certified by a manufacturer's laboratory with a current accreditation under the National Voluntary Laboratory Accreditation Program (NVLAP) for Energy Efficient Lighting Products.

B. Shop Drawings: Show details of nonstandard or custom lighting fixtures. Indicate dimensions, weights, methods of field assembly, components, features, and accessories.

1. Wiring Diagrams: Power and control wiring.

C. Coordination Drawings: Reflected ceiling plan(s) and other details, drawn to scale, on which the following items are shown and coordinated with each other, based on input from installers of the items involved:

1. Lighting fixtures.
2. Suspended ceiling components.
3. Structural members to which suspension systems for lighting fixtures will be attached.
4. Other items in finished ceiling including the following:

    a. Air outlets and inlets.
    b. Speakers.
    c. Sprinklers.
    d. Smoke and fire detectors.
    e. Access panels.

5. Perimeter moldings.

D. Samples for Verification: Interior lighting fixtures designated for sample submission in Interior Lighting Fixture Schedule. Each sample shall include the following:

1. Lamps: Specified units installed.
2. Accessories: Cords and plugs.

E. Product Certificates: For each type of ballast for bi-level and dimmer-controlled fixtures, signed by product manufacturer.

F. Qualification Data: For agencies providing photometric data for lighting fixtures.

G. Field quality-control test reports.

H. Operation and Maintenance Data: For lighting equipment and fixtures to include in emergency, operation, and maintenance manuals.

I. Warranties: Special warranties specified in this Section.

1.5 QUALITY ASSURANCE

A. Luminaire Photometric Data Testing Laboratory Qualifications: Provided by manufacturers' laboratories that are accredited under the National Volunteer Laboratory Accreditation Program for Energy Efficient Lighting Products.

B. Luminaire Photometric Data Testing Laboratory Qualifications: Provided by an independent agency, with the experience and capability to conduct the testing indicated, that is an NRTL as defined by OSHA in 29 CFR 1910.7.

C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

D. Comply with NFPA 70.

E. FMG Compliance: Lighting fixtures for hazardous locations shall be listed and labeled for indicated class and division of hazard by FMG.

F. Mockups: Provide interior lighting fixtures for room or module mockups, complete with power and control connections.

1. Obtain Architect's approval of fixtures for mockups before starting installations.
2. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work.
3. Approved fixtures in mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 COORDINATION

A. Coordinate layout and installation of lighting fixtures and suspension system with other construction that penetrates ceilings or is supported by them, including HVAC equipment, fire-suppression system, and partition assemblies.

1.7 WARRANTY

A. Special Warranty for Emergency Lighting Batteries: Manufacturer's standard form in which manufacturer of battery-powered emergency lighting unit agrees to repair or replace components of rechargeable batteries that fail in materials or workmanship within specified warranty period.

1. Warranty Period for Emergency Lighting Unit Batteries: 10 years from date of Substantial Completion. Full warranty shall apply for first year, and prorated warranty for the remaining nine years.
2. Warranty Period for Emergency Fluorescent Ballast Batteries: Seven years from date of Substantial Completion. Full warranty shall apply for first year, and prorated warranty for the remaining six years.

B. Special Warranty for Ballasts: Manufacturer's standard form in which ballast manufacturer agrees to repair or replace ballasts that fail in materials or workmanship within specified warranty period.

1. Warranty Period for Electronic Ballasts: Five years from date of Substantial Completion.
2. Warranty Period for Electromagnetic Ballasts: Three years from date of Substantial Completion.

C. Special Warranty for T5 and T8 Fluorescent Lamps: Manufacturer's standard form, made out to Owner and signed by lamp manufacturer agreeing to replace lamps that fail in materials or workmanship, f.o.b. the nearest shipping point to Project site, within specified warranty period indicated below.

1. Warranty Period: One year(s) from date of Substantial Completion.

1.8 EXTRA MATERIALS

A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Lamps: 10 for every 100 of each type and rating installed. Furnish at least one of each type.
2. Plastic Diffusers and Lenses: 1 for every 100 of each type and rating installed. Furnish at least one of each type.
3. Battery and Charger Data: One for each emergency lighting unit.
4. Ballasts: 1 for every 100 of each type and rating installed. Furnish at least one of each type.
5. Globes and Guards: 1 for every 20 of each type and rating installed. Furnish at least one of each type.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Products: Subject to compliance with requirements, provide product indicated on Drawings. Contractors wishing to submit alternate equipment shall submit to the specifying authority, at least 10 days prior to bid opening, the equipment proposed to provide a precise functional equivalent system to meet specifications.

2.2 LIGHTING FIXTURES AND COMPONENTS, GENERAL REQUIREMENTS

A. Recessed Fixtures: Comply with NEMA LE 4 for ceiling compatibility for recessed fixtures.

B. Incandescent Fixtures: Comply with UL 1598. Where LER is specified, test according to NEMA LE 5A.

C. Fluorescent Fixtures: Comply with UL 1598. Where LER is specified, test according to NEMA LE 5 and NEMA LE 5A as applicable.

D. HID Fixtures: Comply with UL 1598. Where LER is specified, test according to NEMA LE 5B.

E. Metal Parts: Free of burrs and sharp corners and edges.

F. Sheet Metal Components: Steel, unless otherwise indicated. Form and support to prevent warping and sagging.

G. Doors, Frames, and Other Internal Access: Smooth operating, free of light leakage under operating conditions, and designed to permit relamping without use of tools. Designed to prevent doors, frames, lenses, diffusers, and other components from falling accidentally during relamping and when secured in operating position.

H. Reflecting surfaces shall have minimum reflectance as follows, unless otherwise indicated:

1. White Surfaces: 85 percent.
2. Specular Surfaces: 83 percent.
3. Diffusing Specular Surfaces: 75 percent.
4. Laminated Silver Metallized Film: 90 percent.

I. Plastic Diffusers, Covers, and Globes:

1. Acrylic Lighting Diffusers: 100 percent virgin acrylic plastic. High resistance to yellowing and other changes due to aging, exposure to heat, and UV radiation.

    a. Lens Thickness: At least 0.125 inch (3.175 mm) minimum unless different thickness is indicated.
    b. UV stabilized.

2. Glass: Annealed crystal glass, unless otherwise indicated.

J. Electromagnetic-Interference Filters: Factory installed to suppress conducted electromagnetic-interference as required by MIL-STD-461E. Fabricate lighting fixtures with one filter on each ballast indicated to require a filter.

2.3 BALLASTS FOR LINEAR FLUORESCENT LAMPS

A. Electronic Ballasts: Comply with ANSI C82.11; instant-start type, unless otherwise indicated, and designed for type and quantity of lamps served. Ballasts shall be designed for full light output unless dimmer or bi-level control is indicated.

1. Sound Rating: A.
2. Total Harmonic Distortion Rating: Less than 10 percent.
3. Transient Voltage Protection: IEEE C62.41, Category A or better.
4. Operating Frequency: 20 kHz or higher.
5. Lamp Current Crest Factor: 1.7 or less.
6. BF: 0.85 or higher.
7. Power Factor: 0.98 or higher.
8. Parallel Lamp Circuits: Multiple lamp ballasts shall comply with ANSI C 82.11 and shall be connected to maintain full light output on surviving lamps if one or more lamps fail.

B. Electronic Programmed-Start Ballasts for T5 and T5HO Lamps: Comply with ANSI C82.11 and the following:

1. Lamp end-of-life detection and shutdown circuit for T5 diameter lamps.
2. Automatic lamp starting after lamp replacement.
3. Sound Rating: A.
4. Total Harmonic Distortion Rating: Less than 20 percent.
5. Transient Voltage Protection: IEEE C62.41, Category A or better.
6. Operating Frequency: 20 kHz or higher.
7. Lamp Current Crest Factor: 1.7 or less.
8. BF: 0.95 or higher, unless otherwise indicated.
9. Power Factor: 0.98 or higher.

C. Electromagnetic Ballasts: Comply with ANSI C82.1; energy saving, high-power factor, Class P, and having automatic-reset thermal protection.

1. Ballast Manufacturer Certification: Indicated by label.

D. Single Ballasts for Multiple Lighting Fixtures: Factory-wired with ballast arrangements and bundled extension wiring to suit final installation conditions without modification or rewiring in the field.

2.4 BALLASTS FOR COMPACT FLUORESCENT LAMPS

A. Description: Electronic programmed rapid-start type, complying with ANSI C 82.11, designed for type and quantity of lamps indicated. Ballast shall be designed for full light output unless dimmer or bi-level control is indicated:

1. Lamp end-of-life detection and shutdown circuit.
2. Automatic lamp starting after lamp replacement.
3. Sound Rating: A.
4. Total Harmonic Distortion Rating: Less than 20 percent.
5. Transient Voltage Protection: IEEE C62.41, Category A or better.
6. Operating Frequency: 20 kHz or higher.
7. Lamp Current Crest Factor: 1.7 or less.
8. BF: 0.95 or higher, unless otherwise indicated.
9. Power Factor: 0.98 or higher.
10. Interference: Comply with 47 CFR, Chapter 1, Part 18, Subpart C, for limitations on electromagnetic and radio-frequency interference for nonconsumer equipment.
11. Ballast Case Temperature: 75 deg C, maximum.

B. Ballasts for Dimmer-Controlled Lighting Fixtures: Electronic type.

1. Dimming Range: 100 to 5 percent of rated lamp lumens.
2. Ballast Input Watts: Can be reduced to 20 percent of normal.
3. Compatibility: Certified by manufacturer for use with specific dimming control system and lamp type indicated.

2.5 EMERGENCY FLUORESCENT POWER UNIT

A. Internal Type: Self-contained, modular, battery-inverter unit, factory mounted within lighting fixture body and compatible with ballast. Comply with UL 924.

1. Emergency Connection: Operate 1 fluorescent lamp(s) continuously at an output of 1100 lumens each. Connect unswitched circuit to battery-inverter unit and switched circuit to fixture ballast.
2. Night-Light Connection: Operate one fluorescent lamp continuously.
3. Test Push Button and Indicator Light: Visible and accessible without opening fixture or entering ceiling space.

    a. Push Button: Push-to-test type, in unit housing, simulates loss of normal power and demonstrates unit operability.
    b. Indicator Light: LED indicates normal power on. Normal glow indicates trickle charge; bright glow indicates charging at end of discharge cycle.

4. Battery: Sealed, maintenance-free, nickel-cadmium type.
5. Charger: Fully automatic, solid-state, constant-current type with sealed power transfer relay.
6. Integral Self-Test: Factory-installed electronic device automatically initiates code-required test of unit emergency operation at required intervals. Test failure is annunciated by an integral audible alarm and flashing red LED.

B. External Type: Self-contained, modular, battery-inverter unit, suitable for powering one or more fluorescent lamps, remote mounted from lighting fixture. Comply with UL 924.

1. Emergency Connection: Operate one fluorescent lamp continuously. Connect unswitched circuit to battery-inverter unit and switched circuit to fixture ballast.
2. Night-Light Connection: Operate one fluorescent lamp in a remote fixture continuously.

3. Battery: Sealed, maintenance-free, nickel-cadmium type.
4. Charger: Fully automatic, solid-state, constant-current type.
5. Housing: NEMA 250, Type 1 enclosure.
6. Test Push Button: Push-to-test type, in unit housing, simulates loss of normal power and demonstrates unit operability.
7. LED Indicator Light: Indicates normal power on. Normal glow indicates trickle charge; bright glow indicates charging at end of discharge cycle.
8. Integral Self-Test: Factory-installed electronic device automatically initiates code-required test of unit emergency operation at required intervals. Test failure is annunciated by an integral audible alarm and flashing red LED.

2.6 BALLASTS FOR HID LAMPS

A. Electromagnetic Ballast for Metal-Halide Lamps: Comply with ANSI C82.4 and UL 1029. Include the following features, unless otherwise indicated:

1. Ballast Circuit: Constant-wattage autotransformer or regulating high-power-factor type.
2. Minimum Starting Temperature: Minus 22 deg F (Minus 30 deg C) for single-lamp ballasts.
3. Normal Ambient Operating Temperature: 104 deg F (40 deg C).
4. Open-circuit operation that will not reduce average life.
5. Low-Noise Ballasts: Manufacturers' standard epoxy-encapsulated models designed to minimize audible fixture noise.

B. Electronic Ballast for Metal-Halide Lamps: Include the following features unless otherwise indicated:

1. Lamp end-of-life detection and shutdown circuit.
2. Sound Rating: A.
3. Total Harmonic Distortion Rating: Less than 15 percent.
4. Transient Voltage Protection: IEEE C62.41, Category A or better.
5. Lamp Current Crest Factor: 1.5 or less.
6. Power Factor: .90 or higher.
7. Interference: Comply with 47 CFR, Chapter 1, Part 18, Subpart C, for limitations on electromagnetic and radio-frequency interference for nonconsumer equipment.
8. Protection: Class P thermal cutout.
9. Retain subparagraph and associated subparagraphs below for bi-level ballasts.

2.7 EXIT SIGNS

A. Description: Comply with UL 924; for sign colors, visibility, luminance, and lettering size, comply with authorities having jurisdiction.

B. Internally Lighted Signs:

1. Lamps for AC Operation: Fluorescent, 2 for each fixture, 20,000 hours of rated lamp life.
2. Lamps for AC Operation: LEDs, 70,000 hours minimum rated lamp life.

3. Self-Powered Exit Signs (Battery Type): Integral automatic charger in a self-contained power pack.

    a. Battery: Sealed, maintenance-free, nickel-cadmium type.
    b. Charger: Fully automatic, solid-state type with sealed transfer relay.
    c. Operation: Relay automatically energizes lamp from battery when circuit voltage drops to 80 percent of nominal voltage or below. When normal voltage is restored, relay disconnects lamps from battery, and battery is automatically recharged and floated on charger.
    d. Test Push Button: Push-to-test type, in unit housing, simulates loss of normal power and demonstrates unit operability.
    e. LED Indicator Light: Indicates normal power on. Normal glow indicates trickle charge; bright glow indicates charging at end of discharge cycle.
    f. Remote Test: Switch in hand-held remote device aimed in direction of tested unit initiates coded infrared signal. Signal reception by factory-installed infrared receiver in tested unit triggers simulation of loss of its normal power supply, providing visual confirmation of either proper or failed emergency response.
    g. Integral Self-Test: Factory-installed electronic device automatically initiates code-required test of unit emergency operation at required intervals. Test failure is annunciated by an integral audible alarm and flashing red LED.

4. Master/Remote Sign Configurations:

    a. Master Unit: Comply with requirements above for self-powered exit signs, and provide additional capacity in LED power supply for power connection to remote unit.
    b. Remote Unit: Comply with requirements above for self-powered exit signs, except omit power supply, battery and test features. Arrange to receive full power requirements from master unit. Connect for testing concurrently with master unit as a unified system.

2.8 FLUORESCENT LAMPS

A. Low-Mercury Lamps: Comply with EPA's toxicity characteristic leaching procedure test; shall yield less than 0.2 mg of mercury per liter when tested according to NEMA LL 1.

B. T8 rapid-start low-mercury lamps, rated 32 W maximum, nominal length of 48 inches (1220 mm), 2800 initial lumens (minimum), CRI 75 (minimum), color temperature 3500 K, and average rated life 20,000 hours, unless otherwise indicated.

C. T8 rapid-start low-mercury lamps, rated 17 W maximum, nominal length of 24 inches (610 mm), 1300 initial lumens (minimum), CRI 75 (minimum), color temperature 3500 K, and average rated life of 20,000 hours, unless otherwise indicated.

D. T5 rapid-start low-mercury lamps, rated 28 W maximum, nominal length of 45.2 inches (1150 mm), 2900 initial lumens (minimum), CRI 85 (minimum), color temperature 3000 K, and average rated life of 20,000 hours, unless otherwise indicated.

E. Compact Fluorescent Lamps: 4-Pin, low mercury, CRI 80 (minimum), color temperature 3500 K, average rated life of 10,000 hours at 3 hours operation per start, and suitable for use with dimming ballasts, unless otherwise indicated.

1. 13 W: T4, double or triple tube, rated 900 initial lumens (minimum).
2. 18 W: T4, double or triple tube, rated 1200 initial lumens (minimum).
3. 26 W: T4, double or triple tube, rated 1800 initial lumens (minimum).
4. 32 W: T4, triple tube, rated 2400 initial lumens (minimum).
5. 42 W: T4, triple tube, rated 3200 initial lumens (minimum).
6. 55 W: T4, triple tube, rated 4300 initial lumens (minimum).

2.9 HID LAMPS

A. High-Pressure Sodium Lamps: ANSI C78.42, CRI 21 (minimum), color temperature 1900 K, and average rated life of 24,000 hours, minimum.

1. Dual-Arc Tube Lamps: Arranged so only one of two arc tubes is lighted at one time and, when power is restored after an outage, the cooler arc tube, with lower internal pressure, lights instantly, providing an immediate 8 to 15 percent of normal light output.

B. Metal-Halide Lamps: ANSI C78.1372, with a minimum CRI 65, and color temperature 4000 K.

C. Pulse-Start, Metal-Halide Lamps: Minimum CRI 65, and color temperature 4000 K.

D. Ceramic, Pulse-Start, Metal-Halide Lamps: Minimum CRI 80, and color temperature 4000 K.

2.10 LIGHTING FIXTURE SUPPORT COMPONENTS

A. Comply with Division 16 Section "Electrical Supports and Seismic Restraints" for channel- and angle-iron supports and nonmetallic channel and angle supports.

B. Twin-Stem Hangers: Two, 1/2-inch (13-mm) steel tubes with single canopy designed to mount a single fixture. Finish same as fixture.

C. Wires: ASTM A 641/A 641M, Class 3, soft temper, zinc-coated steel, 12 gage (2.68 mm).

D. Wires for Humid Spaces: ASTM A 580/A 580M, Composition 302 or 304, annealed stainless steel, 12 gage (2.68 mm).

E. Rod Hangers: 3/16-inch (5-mm) minimum diameter, cadmium-plated, threaded steel rod.

F. Hook Hangers: Integrated assembly matched to fixture and line voltage and equipped with threaded attachment, cord, and locking-type plug.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Lighting fixtures: Set level, plumb, and square with ceilings and walls. Install lamps in each fixture.

B. Support for Lighting Fixtures in or on Grid-Type Suspended Ceilings: Use grid as a support element.

1. Install a minimum of four ceiling support system rods or wires for each fixture. Locate not more than 6 inches (150 mm) from lighting fixture corners.
2. Support Clips: Fasten to lighting fixtures and to ceiling grid members at or near each fixture corner with clips that are UL listed for the application.
3. Fixtures of Sizes Less Than Ceiling Grid: Install as indicated on reflected ceiling plans or center in acoustical panel, and support fixtures independently with at least two 3/4-inch (20-mm) metal channels spanning and secured to ceiling tees.
4. Install at least one independent support rod or wire from structure to a tab on lighting fixture. Wire or rod shall have breaking strength of the weight of fixture at a safety factor of 3.

C. Suspended Lighting Fixture Support:

1. Pendants and Rods: Where longer than 48 inches (1200 mm), brace to limit swinging.
2. Stem-Mounted, Single-Unit Fixtures: Suspend with twin-stem hangers.
3. Continuous Rows: Use tubing or stem for wiring at one point and tubing or rod for suspension for each unit length of fixture chassis, including one at each end.

D. Air-Handling Lighting Fixtures: Install with dampers closed and ready for adjustment.

E. Adjust aimable lighting fixtures to provide required light intensities.

F. Connect wiring according to Division 16 Section "Conductors and Cables."

3.2 FIELD QUALITY CONTROL

A. Test for Emergency Lighting: Interrupt power supply to demonstrate proper operation. Verify transfer from normal power to battery and retransfer to normal.

B. Prepare a written report of tests, inspections, observations, and verifications indicating and interpreting results. If adjustments are made to lighting system, retest to demonstrate compliance with standards.

END OF SECTION 16511END OF SECTION 16511

HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY
REPAIRS and/or REPLACEMENT

Edinburg, Texas

DRAWING INDEX

STRUCTURAL DRAWINGS

CS - COVER SHEET
S1.0 - SITE PLAN
S2.0 - GENERAL NOTES
S2.1 - GENERAL NOTES
S3.0 - UPLIFT PLAN ADC BUILDING
S3.1 - UPLIFT PLAN LEC BUILDING
S4.0 - PARTIAL FLOOR PLAN ADC BUILDING
S5.0 - ADC BUILDING OVERALL ROOF PLAN
S5.1 - ADC BUILDING ROOF PLAN AREA #1
S5.2 - ADC BUILDING ROOF PLAN AREA #2
S5.3 - ADC BUILDING ROOF PLAN AREA #3
S5.4 - ADC BUILDING ROOF PLAN AREA #4
S5.5 - ADC BUILDING ROOF PLAN AREA #5
S5.6 - LEC BUILDING OVERALL ROOF PLAN
S6.0 - DETAILS
S6.1 - DETAILS
S7.0 - PICTURES

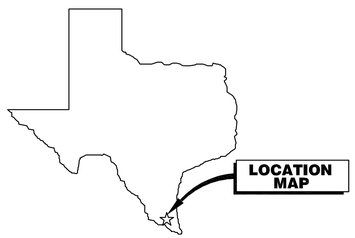
ARCHITECTURAL DRAWINGS

A1.0 - GENERAL NOTES
A1.1 - EXISTING ROOF PLAN
A1.2 - ROOF ZONES
A1.3 - ROOF MODIFICATIONS
A2.1 - DETAILS
A2.2 - DETAILS

M.E.P. DRAWINGS

M1.0 - MECHANICAL PLAN AREA 1
M2.0 - MECHANICAL PLAN AREA 2
M3.0 - MECHANICAL PLAN AREA 3
M4.0 - MECHANICAL PLAN AREA 4
M5.0 - MECHANICAL PLAN AREA 5 SECOND FLOOR
M6.0 - MECHANICAL PLAN LEC BUILDING
M7.0 - MECHANICAL PLAN ADC BUILDING
M8.0 - MECHANICAL SCHEDULES
M9.0 - MECHANICAL SCHEDULES
ES1.0 - ELECTRICAL SITE PLAN
E1.0 - ELECTRICAL SPECIAL SYSTEM PLAN AREA 1
E2.0 - ELECTRICAL SPECIAL SYSTEM PLAN AREA 2
E3.0 - ELECTRICAL SPECIAL SYSTEM PLAN AREA 3
E4.0 - ELECTRICAL SPECIAL SYSTEM PLAN AREA 4
E5.0 - ELECTRICAL SPECIAL SYSTEM PLAN AREA 5
E6.0 - ELECTRICAL SPECIAL SYSTEM PLAN AREA 5 SECOND FLOOR
E7.0 - ELECTRICAL MECHANICAL EQUIPMENT LOCATION PLAN AREA 1
E8.0 - ELECTRICAL MECHANICAL EQUIPMENT LOCATION PLAN AREA 2
E9.0 - ELECTRICAL MECHANICAL EQUIPMENT LOCATION PLAN AREA 3
E10.0 - ELECTRICAL MECHANICAL EQUIPMENT LOCATION PLAN AREA 4
E11.0 - ELECTRICAL MECHANICAL EQUIPMENT LOCATION PLAN AREA 5
E12.0 - ELECTRICAL MECHANICAL EQUIPMENT LOCATION PLAN AREA 5 SECOND FLOOR
E13.0 - ELECTRICAL SPECIAL SYSTEM PLAN LEC BUILDING
E14.0 - ELECTRICAL SPECIAL SYSTEM PLAN ADC BUILDING
E15.0 - ELECTRICAL PLAN LEC BUILDING
E16.0 - ELECTRICAL MECHANICAL EQUIPMENT CONNECTION SCHEDULE
P1.0 - ROOF CONDENSATE PLAN AREA 1
P2.0 - ROOF CONDENSATE PLAN AREA 2
P3.0 - ROOF CONDENSATE PLAN AREA 3
P4.0 - ROOF CONDENSATE PLAN AREA 4
P5.0 - ROOF CONDENSATE PLAN AREA 5 SECOND FLOOR
P6.0 - ROOF CONDENSATE PLAN LEC BUILDING
P7.0 - PLUMBING PLAN ADC BUILDING
P8.0 - ROOF CONDENSATE PLAN DETAILS

VICINITY MAP N. T. S.
701 El Cibolo Road
Edinburg, TX.



EDINBURG, TEXAS

☆ HIDALGO COUNTY OFFICIALS ☆

RAMON GARCIA ☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆ COUNTY JUDGE
A.C. CUELLAR, JR. ☆☆☆☆☆☆☆☆☆☆ COMMISSIONER PCT. No. 1
HECTOR "TITO" PALACIOS ☆☆☆☆ COMMISSIONER PCT. No. 2
JOE M. FLORES ☆☆☆☆☆☆☆☆☆☆☆☆ COMMISSIONER PCT. No. 3
JOSEPH PALACIOS ☆☆☆☆☆☆☆☆ COMMISSIONER PCT. No. 4

☆ HIDALGO COUNTY SHERIFF ☆

LUPE TREVINO ☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆☆ COUNTY SHERIFF

ARCHITECT

SAM GARCIA ARCHITECT
1335 E. Jasmine Ave.
McAllen, TX 78501
(956) 212-4930
info@samgarciaarchitect.com

STRUCTURAL ENGINEERING

CHANIN ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

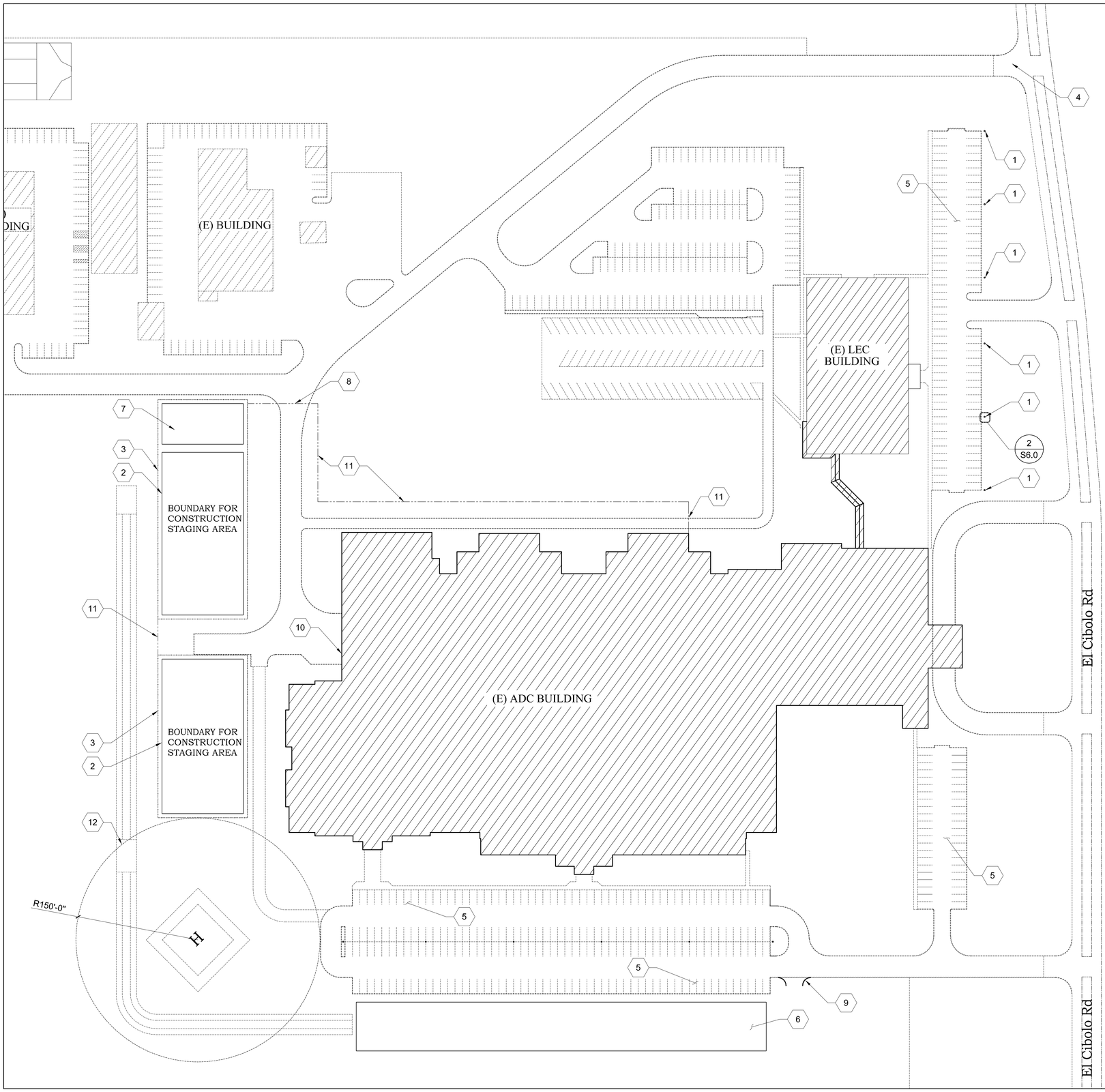
M.E.P. ENGINEERING

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

CONSTRUCTION PROJECT MANAGER

Prodigy
Construction Management llc
1335 E. Jasmine Ave.
McAllen, TX 78501
ph: 956-800-1122 fax: 956-664-1832

CS



KEY NOTES:

1. EXISTING PIER AND LIGHTPOLE TO BE REMOVED AND REPLACED SEE M.E.P. DRAWINGS AND SEE DETAIL 2/S6.0 ANY PAVING DAMAGED DURING THIS PORTION OF WORK SHALL BE FIXED AT CONTRACTORS EXPENSE.
2. CONSTRUCTION STAGING AREA
3. 6' HIGH CHAIN LINK FENCE AROUND STAGING AREA AND TEMPORARY PARKING.
4. SECURE ACCESS POINT. GENERAL CONTRACTOR TO PROVIDE DATA BACKGROUND CHECKS ON ANY INDIVIDUALS THAT WILL BE COMING THROUGH FOR PRE-CLEARANCE.
5. ADC AND LEC PARKING AREAS ARE PROHIBITED, FOR CONSTRUCTION PARKING.
6. BOUNDARY AREA FOR TEMPORARY CONSTRUCTION PARKING.
7. BOUNDARY AREA FOR TEMPORARY SPECIALTY VEHICLES PARKING.
8. CHECK POINT LOCATION BY OWNER.
9. PREPARE AREA FOR VEHICULAR ACCESS AND PATCH AT END OF PROJECT CONSTRUCTION.
10. SECURE ACCESS POINT FOR INTERIOR CONSTRUCTION.
11. ORANGE SAFTEY/BARRIER FENCE. CONSTRUCTION WORKERS MAY NOT BE OUTSIDE OF BARRIER FENCE.
12. HELICOPTER CLEARANCE MINUMMUM 150 FT. RADIUS CLEARANCE

N
NORTH

SITE PLAN

SCALE: N.T.S.

CHANIN
ENGINEERING LLC
1400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9401 FAX: (956) 687-3211
www.chanineng.com
TBPE FIRM REG. NUMBER F-9369

SEAL:

STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED
PROFESSIONAL ENGINEER
11-15-13

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: LR
CHECKED BY:MC
REVISION:
DRAWING NO:
S1.0

GENERAL NOTES

GENERAL

1. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR THE EARTH BANKS, FORMS, SCAFFOLDING, PLANNING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES, GIN POLES, ETC. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

3. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. EXACT WEIGHTS AND LOCATIONS OF MECHANICAL EQUIPMENT SHALL BE COORDINATED BY CONTRACTOR. IF THE FINAL LOCATION VARIES FROM THAT SHOWN ON THE PLANS, CONTRACTOR TO NOTIFY ARCHITECT AND ENGINEER FOR APPROVAL BEFORE INSTALLATION.

4. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.

5. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND SHALL BE RESPONSIBLE FOR CONDITIONS OF ALL WORK AND MATERIALS.

6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS AND ELEVATIONS SHALL REPORT ANY DISCREPANCIES IN WRITING TO THE ARCHITECT. ANY CONFLICT BETWEEN THE DRAWING AND SPECIFICATIONS OF THE VARIOUS TRADES INVOLVED SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER.

7. DETAILS SHOWN ON DRAWINGS APPLY AT SIMILAR CONDITIONS.

8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL STANDARDS AND TO ALL APPLICABLE PROVISIONS OF THE GOVERNING BUILDING CODE.

9. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED IN WRITING WHEN WORK COMMENCES.

10. CONTRACTOR SUBSTITUTIONS: ANY MATERIALS OR PRODUCTS THAT ARE SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIALS OR PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS WILL ONLY BE CONSIDERED IF THE FOLLOWING CRITERIA ARE SATISFIED.
    A) A COST SAVING TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST
    B) THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO) AND THE ICBO REPORT IS SUBMITTED WITH THE REQUEST.

STRUCTURAL OBSERVATION

THE PROFESSIONAL ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE SHALL CONDUCT ALL STRUCTURAL OBSERVATIONS. STRUCTURAL OBSERVATIONS SHALL BE FOR THE PURPOSE OF ASCERTAINING GENERAL COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. HOWEVER, SUCH OBSERVATION VISITS SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OBLIGATIONS AND RESPONSIBILITIES TO THE CONSTRUCTION DOCUMENTS.

1. ITEMS THAT REQUIRE A STRUCTURAL OBSERVATION ARE AS FOLLOWS:
    A. PLACEMENT OF NEW ROOFING SYSTEM
    B. STRUCTURAL STEEL FRAMING
    C. STEEL REINFORCING IN LIGHT POLE FOUNDATIONS

2. NOTIFY ENGINEER 24 HOURS IN ADVANCE WHEN A STRUCTURAL OBSERVATION IS REQUIRED.

SHOP DRAWINGS & SUBMITTALS

1. SUBMITTAL THAT WILL BE REQUIRED FOR APPROVAL INCLUDE:
    A. CONCRETE MIX DESIGN
    B. CURING COMPOUND FOR CONCRETE
    C. REINFORCING STEEL
    D. STRUCTURAL STEEL
    E. NON SHRINK GROUT
    F. ROOFING COMPONENTS
    G. MECHANICAL CURBS AND ATTACHMENTS

2. ALLOW (2) WEEKS MINIMUM FOR REVIEW OF SHOP DRAWINGS.

3. PRIOR TO ISSUING THE SUBMITTALS TO THE ENGINEER, THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSION WITH ARCHITECTURAL PLANS.

4. REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR FOR ANY ERRORS IN DIMENSIONS OR MATERIAL INDICATED ON THE SHOP DRAWINGS.

DESIGN CRITERIA

1. DESIGN LOADS, STRUCTURAL ANALYSIS AND PREPARATIONS OF STRUCTURAL MEMBERS ARE BASED ON THE FOLLOWING CRITERIA:

    CODE: ..... IBC 2012

2. VERTICAL LOADS
    A. DEAD LOAD (ROOF): ..... 25 PSF
    B. LIVE LOAD ROOF (REDUCIBLE): ..... 20 PSF
    C. UPLIFT LOAD ..... SEE ROOF UPLIFT PLAN
    D. MECHANICAL LOAD:
    THE GENERAL CONTRACTOR SHALL SUBMIT ACTUAL WEIGHTS AND LOCATIONS OF EQUIPMENT TO BE USED IN THE PROJECT TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOADS USED IN THE DESIGN AT LEAST TWO WEEKS PRIOR TO INSTALLATION.

3. LATERAL LOADS
    A. WIND SPEED (VULT)..... 140 MPH
    B. WIND SPEED (VASD)..... 120 MPH
    B. EXPOSURE CATEGORY: C
    C. IMPORTANCE FACTOR: 1.00
    D. BUILDING CATEGORY: IV
    E. SEISMIC DESIGN CATEGORY: ..... A
    F. SITE CLASS: ..... E

CONCRETE

1. ALL CONCRETE WORK SHALL BE EXECUTED IN ACCORDANCE WITH ACI 318 AND ACI 301 LATEST EDITION.

2. CEMENT SHALL CONFORM TO ASTM C150 TYPE I AGGREGATE SHALL CONFORM TO ASTM C33.

3. CONCRETE SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH AS FOLLOWS:

MEMBER TYPE	STRENGTH	SLUMP	MAX AGG.
PIERS	3000 PSI	5"	1.5 IN.
FOOTING	3000 PSI	5"	1.5 IN.

4. CURE CONCRETE IN ACCORDANCE WITH ACI 308.1

5. CONDUIT AND PLUMBING LINES SHALL BE PLACED BELOW SLAB REINFORCING AND SHALL BE NO BIGGER THAN 1 INCH.

6. FLYASH MAY BE USED TO REPLACE A PORTION OF THE PORTLAND CEMENT. THE RATIO OF FLYASH TO THE TOTAL OF THE FLYASH AND CEMENT IN A MIX SHALL NOT EXCEED 20%. FLYASH SHALL CONFORM TO ASTM C618, TYPE C OR F.

7. ALL FLOORS SHALL BE CONSTRUCTED WITH A MINIMUM FLATNESS FF=35 AND A MINIMUM LEVELNESS OF FL=25

8. TESTING OF CONCRETE SHALL BE DONE AS FOLLOWS:
    1) SETS SHALL CONSIST OF 3 CYLINDERS
    ONE TESTED AT 7 DAYS
    TWO TESTED AT 28 DAYS
    2) ONE SET SHALL BE TAKEN FOR EACH 150 CY AND FOR EVERY 5000 SF OF SURFACE AREA AND AT LEAST ONCE PER DAY OF POURING
    3) A MINIMUM OF 3 SETS SHALL BE TAKEN FOR EACH CLASS OF CONCRETE

9. NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOBSITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE CONCRETE SUPPLIER TO ENSURE A PUMPABLE AND WORKABLE MIX WITHOUT THE ADDITION OF WATER AT THE JOBSITE. THE USE OF PLASTICIZERS, RETARDANTS AND OTHER ADDITIVES SHALL BE AT THE OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER. FOLLOW THE RECOMMENDATIONS OF THE MANUFACTURER FOR THE PROPER USE OF ADDITIVES. THE USE OF CALCIUM CHLORIDE OR OTHER CHLORIDE BEARING SALTS SHALL NOT BE PERMITTED.

10. PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRINKLE FREE CEMENT ON THE SLAB SURFACE. FINISHING OF SLAB SURFACES SHALL COMPLY WITH THE RECOMMENDATIONS OF ACI 302.1 AND 304.

11. UNLESS SPECIFIED, CONCRETE MUST REACH THE FOLLOWING PERCENTAGES OF ITS 28-DAY COMPRESSIVE STRENGTH (F'c), BEFORE FORMS MAY BE REMOVED.

    WALL, COLUMNS, & BEAM SIDES.....40%
    JOIST PANS & BEAM BOTTOMS (IF RESHORED).....70%
    SHORING FOR FLOOR SYSTEMS (IF NOT RESHORED).....85%

12. NO CONCRETE SHALL BE PLACED OUTSIDE OF THESE SPECIFICATIONS WITHOUT THE OWNER'S PRIOR APPROVAL. ANY ITEMS NOT IN COMPLIANCE WITH THE OUTLINED SPECIFICATION SHALL BE REPORTED TO THE OWNER AND STRUCTURAL ENGINEER WITHIN 24 HOURS.

13. CONSTRUCTION VEHICLE LOADS SHALL NOT BE PERMITTED ON ELEVATED SLABS AT ANY TIME.

STEEL REINFORCING

1. ALL REINFORCEMENT SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.

2. REINFORCING STEEL SHALL BE DESIGNED, DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL (SP-66) AND CSRI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE, (ACI #315) LATEST EDITIONS.

3. BARS SCHEDULED OR DETAILED "CONT" SHALL BE SPLICED AT POINTS OF MINIMUM STRESS AND WITH A MINIMUM LAP AS FOLLOWS:
    A. HORIZONTAL BARS w/ MORE THAN 12" OF CONCRETE COVER
        #6 BARS AND SMALLER - 46 BAR DIAMETERS
        #7 BARS AND BIGGER - 57 BAR DIAMETERS
    B. OTHER BARS
        #6 BARS AND SMALLER - 36 BAR DIAMETERS
        #7 BARS AND BIGGER - 44 BAR DIAMETERS

4. CORNER REINFORCING BARS SHALL BE USED AT ALL CORNERS AND INTERSECTIONS.

5. EXTEND THE SLAB REINFORCING STEEL PERPENDICULAR TO EXTERIOR GRADE BEAM TO THE TOP OUT SIDE REINFORCING BAR OF BEAM.

6. SPACE REINFORCING BARS WITH MINIMUM CLEAR SPACING IN ACCORDANCE WITH ACI 318 OF ONE BAR DIAMETER, BUT NOT LESS THAN 1 INCH. FOR COMPRESSION MEMBERS, SPACE AT A MINIMUM OF 1.5 INCHES OR 1.5 BAR DIAMETERS, WHICHEVER IS GREATER.

7. WHERE REINFORCING BARS ARE PLACED IN MULTIPLE LAYERS, PLACE UPPER BARS DIRECTLY ABOVE LOWER BARS.

8. MAINTAIN CONCRETE COVER AROUND REINFORCEMENT IN ACCORDANCE WITH ACI 318 AND AS FOLLOWS:
    A. FOOTING AND CONCRETE CAST AGAINST EARTH - 3 INCHES
    B. EXPOSED TO EARTH OR WEATHER
        #6 BARS AND BIGGER - 2 INCHES
        #5 BARS AND SMALLER - 1.5 INCHES
    C. BEAMS AND COLUMNS - 1.5 INCHES
    D. SLABS AND WALLS - 1 INCH

9. REPAIR ANY DAMAGE TO VAPOR RETARDER PER MANUFACTURER SPECIFICATIONS.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE TO AISC SPECIFICATIONS.

2. MATERIALS USED SHALL BE AS FOLLOWS=
    A. STRUCTURAL W-SHAPES - ASTM A992 GRADE 50
    B. STRUCTURAL M-SHAPES AND S-SHAPES - ASTM A36
    C. STRUCTURAL T-SHAPES - CUT FROM W-SHAPES
    D. CHANNELS AND ANGLES - ASTM A36
    E. ROUND HOLLOW STRUCTURAL SECTIONS - ASTM A500 GRADE B
    F. SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS - ASTM A500 GRADE B
    G. STRUCTURAL PLATES - ASTM A36
    H. STRUCTURAL BARS - ASTM A36
    I. HIGH STRENGTH BOLTS - ASTM A325
    J. ELECTRODES - SERIES E70

3. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY SPECIFICATIONS.

4. CONNECTIONS NOT DETAILED AND OR SCHEDULED ON STRUCTURAL DRAWINGS SHALL BE DETAILED BY FABRICATOR AND MARKED FOR ENGINEERS APPROVAL. CONNECTIONS TO BE DESIGNED TO AISC SPECIFICATIONS AND SHALL BE CAPABLE OF SUPPORTING 55% OF THE MAXIMUM UNIFORM LOAD CAPACITY FOR THE SPAN SPECIFIED, SHOWN IN THE TABLES OF UNIFORM CONSTANTS OF THE AISC MANUAL OF STEEL CONSTRUCTION.

5. REFER TO ARCHITECTURAL PLANS FOR ANY MISCELLANEOUS STEEL. MISCELLANEOUS STEEL AND CONNECTIONS SHALL BE DESIGNED BY STEEL FABRICATOR.

6. HOT DIP GALVANIZE, IN ACCORDANCE WITH ASTM A123 AND ASTM A153, STRUCTURAL STEEL AND FASTENERS PERMANENTLY EXPOSED TO THE WEATHER.

7. STEEL SUPPORTING OR CONNECTED TO HVAC AND OTHER EQUIPMENT AS SHOWN ON THE DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY CONTRACTOR SHALL COORDINATE EXACT LOCATION AND SIZE BEFORE COMMENCING WORK.

8. STRUCTURAL STEEL SHALL BE PAINTED WITH ONE COAT OF RUST INHIBITIVE PAINT.

9. STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED IN WHOLE OR IN PART FOR SHOP DRAWING SUBMITTALS.

10. ALL WELDED CONNECTION SHALL BE MADE WITH A 1/4" FILLET WELD U.N.O.

11. PROVIDE 1/2" GAP AT ANY PENETRATIONS THROUGH CMU WALL AND INFILL WITH ELASTOMERIC MATERIAL.

12. STEEL FABRICATOR SHALL BE CERTIFIED BY ONE OF THE FOLLOWING: AISC/ IBC/ IAS-ICC

METAL ROOF DECK

1. SHEET STEEL: ASTM A653 GRADE 33 STRUCTURAL QUALITY WITH G90 GALVANIZED COATING CONFORMING TO ASTM A525

2. DECK PROFILE - F
    PROFILE DEPTH - 1.5 IN.
    GAGE - 22

3. METAL DECK ATTACHMENT SHALL BE:
    AT SUPPORTS: #12 TEK SCREWS AT A 36/7 PATTERN
    AT SIDELAPS: #10 TEK SCREWS, 7 PER SPAN

4. WELDING OF METAL DECKING SHALL NOT BE ALLOWED

5. ALL METAL DECK PANELS SHALL SPAN ACROSS A MINIMUM OF FOUR JOISTS OR BEAMS

6. DECK ENDS SHALL BE LAPPED OVER SUPPORTS

CONTRACTOR NOTE

THE STRUCTURAL SYSTEM FOR THIS PROJECT SHALL NOT BE CONSTRUCTED BY USING THE STRUCTURAL DRAWINGS ALONE. THESE DRAWINGS WERE DEVELOPED FROM DATA DERIVED PRIMARILY FROM THE ARCHITECTURAL DRAWINGS AND SECONDARILY FROM MEP, CIVIL AND OTHER DISCIPLINES' DOCUMENTS. IT IS INTENDED THAT CONSTRUCTION PROCEED BY UTILIZING ALL OF THE INFORMATION CONTAINED IN THE ENTIRE SET OF CONSTRUCTION DOCUMENTS TAKEN AS A WHOLE; FAILURE TO DO SO WILL RESULT IN ERRORS WHICH SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

© COPYRIGHT 2013 - ALL RIGHTS RESERVED

These drawings, as instruments of professional service, are the property of Chanin Engineering LLC for use solely with respect to this Project and shall not be reproduced for other purposes.

The Professional Engineer whose seal appears on the structural construction documents is the project Structural Engineer-of-Record (SER) who bears legal responsibility for the performance of the structural framing relating to the public health, safety and welfare. No other party, whether or not a Professional Engineer, may complete, correct, revise, delete or add to these construction documents or perform inspections of the work without the written permission of the SER.

CHANIN
ENGINEERING LLC
4040 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-4418 FAX: (956) 687-3211
www.chanlengineering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: LR
CHECKED BY:MC
REVISION:

DRAWING NO:
S2.0

GENERAL NOTES

TABLE 1704.3
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[a]	IBC REFERENCE
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	——	X	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360, SECTION A3.3	——
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	——	X	——	——
2. INSPECTION OF HIGH-STRENGTH BOLTING:				
a. BEARING-TYPE CONNECTIONS.	——	X	AISC 360, SECTION M2.5	1704.3.3
b. SLIP-CRITICAL CONNECTIONS.	X	X		
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	——	——	ASTM A 6 OR ASTM A 568	1708.4
b. MANUFACTURERS' CERTIFIED MILL TEST REPORTS.	——	——	ASTM A 6 OR ASTM A568	
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	——	——	AISC 360, SECTION A3.5	——
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	——	——	——	——
5. INSPECTION OF WELDING: a. STRUCTURAL STEEL:	——	——		
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X	——	AWS D1.1	1704.3.1
2) MULTIPASS FILLET WELDS.	X	——		
3) SINGLE-PASS FILLET WELDS > 5/16"	X	——		
4) SINGLE-PASS FILLET WELDS ≤ 5/16"	——	X		
5) FLOOR AND ROOF DECK WELDS.	——	X	AWS D1.3	——
b. REINFORCING STEEL:	——	——	AWS D1.4 ACI 318: 3.5.2	——
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	——	X		
2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.	X	——		
3) SHEAR REINFORCEMENT.	X	——		
4) OTHER REINFORCING STEEL.	——	X		
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS: a. DETAILS SUCH AS BRACING AND STIFFENING. b. MEMBER LOCATIONS. c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	—— —— ——	X —— ——	——	1704.3.2

TABLE 1704.4
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[a]	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	——	X	ACI 318: 3.5, 7.1-7.7	1913.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5b.	——	——	AWS D1.4 ACI 318: 3.5.2	——
3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	X	——	——	1911.5
4. VERIFYING USE OF REQUIRED DESIGN MIX.	——	X	ACI 318: Ch. 4, 5.2-5.4	1904.2.2, 1913.2, 1913.3
5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	——	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1913.10
6. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	——	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	——	X	ACI 318: 5.11-5.13	1913.9
8. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X X	——	ACI 318: 18.20 ACI 318: 18.18.4	——
9. ERECTION OF PRECAST CONCRETE MEMBERS.	——	X	ACI 318: Ch.16	——
10. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	——	X	ACI 318: 6.2	——
11. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	——	X	ACI 318: 6.1.1	——

STRUCTURAL TESTS AND SPECIAL INSPECTION

1. THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THIS SECTION.

2. THE FOLLOWING TERMS AND PHRASES SHALL HAVE THE MEANINGS SHOWN BELOW AS IT PERTAINS TO THIS SECTION,
   A. APPROVED AGENCY- AN ESTABLISHED AND RECOGNIZED AGENCY REGULARLY ENGAGED IN CONDUCTING AND FURNISHING SPECIAL INSPECTION SERVICES.
   B. APPROVED FABRICATOR - AN ESTABLISHED AND QUALIFIED FIRM APPROVED BY BUILDING OFFICIAL. SPECIAL INSPECTIONS ARE NOT REQUIRED WHEN WORK IS PERFORMED ON THE PREMISES OF AN APPROVED FABRICATOR.
   C. SPECIAL INSPECTION, CONTINUOUS- THE FULL TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION.
   D. SPECIAL INSPECTION, PERIODIC - THE PART TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION.

3. SPECIAL INSPECTORS SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED THEY SHALL BE BROUGHT TO THE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

4. THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION.

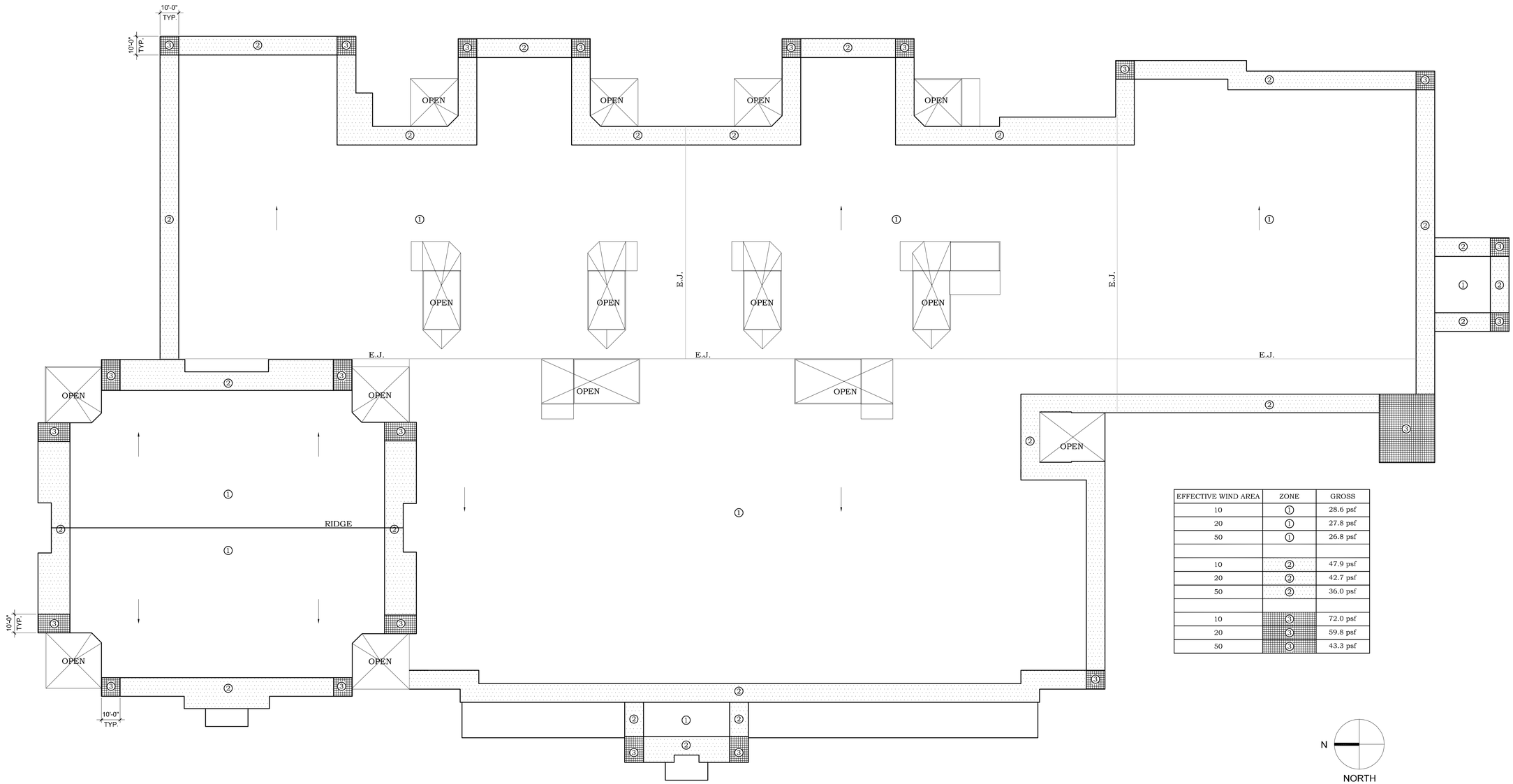
CHANIN
ENGINEERING LLC
4400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:
STATE OF TEXAS
MIGUEL CHANIN
93127
PROFESSIONAL LICENSED ENGINEER
11-15-13

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: LR
CHECKED BY:MC
REVISION:

DRAWING NO:
S2.1



EFFECTIVE WIND AREA	ZONE	GROSS
10	1	28.6 psf
20	1	27.8 psf
50	1	26.8 psf
10	2	47.9 psf
20	2	42.7 psf
50	2	36.0 psf
10	3	72.0 psf
20	3	59.8 psf
50	3	43.3 psf

NOTE:
SEE ARCHITECTURAL ROOFING SHEETS FOR FASTENER PATTERN REQUIRED TO RESIST UPLIFT LOADS SHOWN

ADULT DETENTION CENTER ROOF UPLIFT PLAN

SCALE: NTS

CHANIN
ENGINEERING LLC
4400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

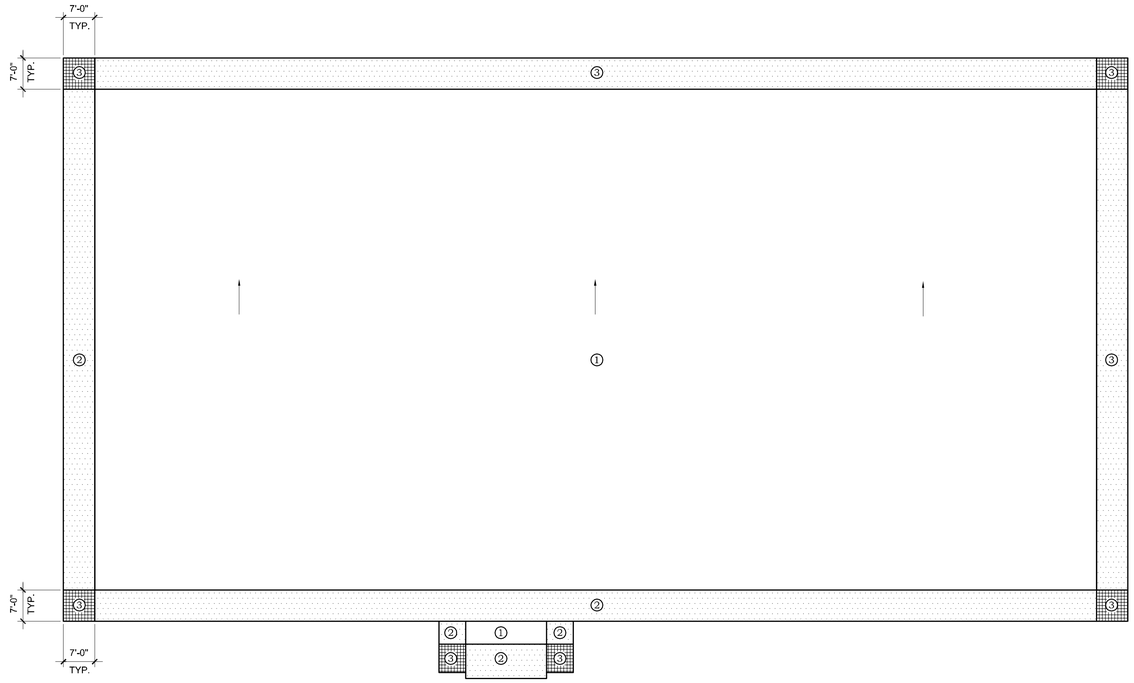
SEAL:

STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED
PROFESSIONAL ENGINEER
11-15-13

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: LR
CHECKED BY:MC
REVISION:

DRAWING NO:
S3.0



EFFECTIVE WIND AREA	ZONE	GROSS
10	①	28.6 psf
20	①	27.8 psf
50	①	26.8 psf
10	②	47.9 psf
20	②	42.7 psf
50	②	36.0 psf
10	③	72.0 psf
20	③	59.8 psf
50	③	43.3 psf

N

NORTH

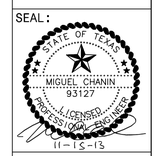
NOTE:
SEE ARCHITECTURAL ROOFING SHEETS FOR FASTENER PATTERN REQUIRED TO RESIST UPLIFT LOADS SHOWN.

LAW ENFORCEMENT CENTER ROOF UPLIFT PLAN

SCALE: NTS

CHANIN
ENGINEERING LLC
4400 Nolana, Ste. M2
McAllen, Texas 78504
PH: (956) 687-4421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

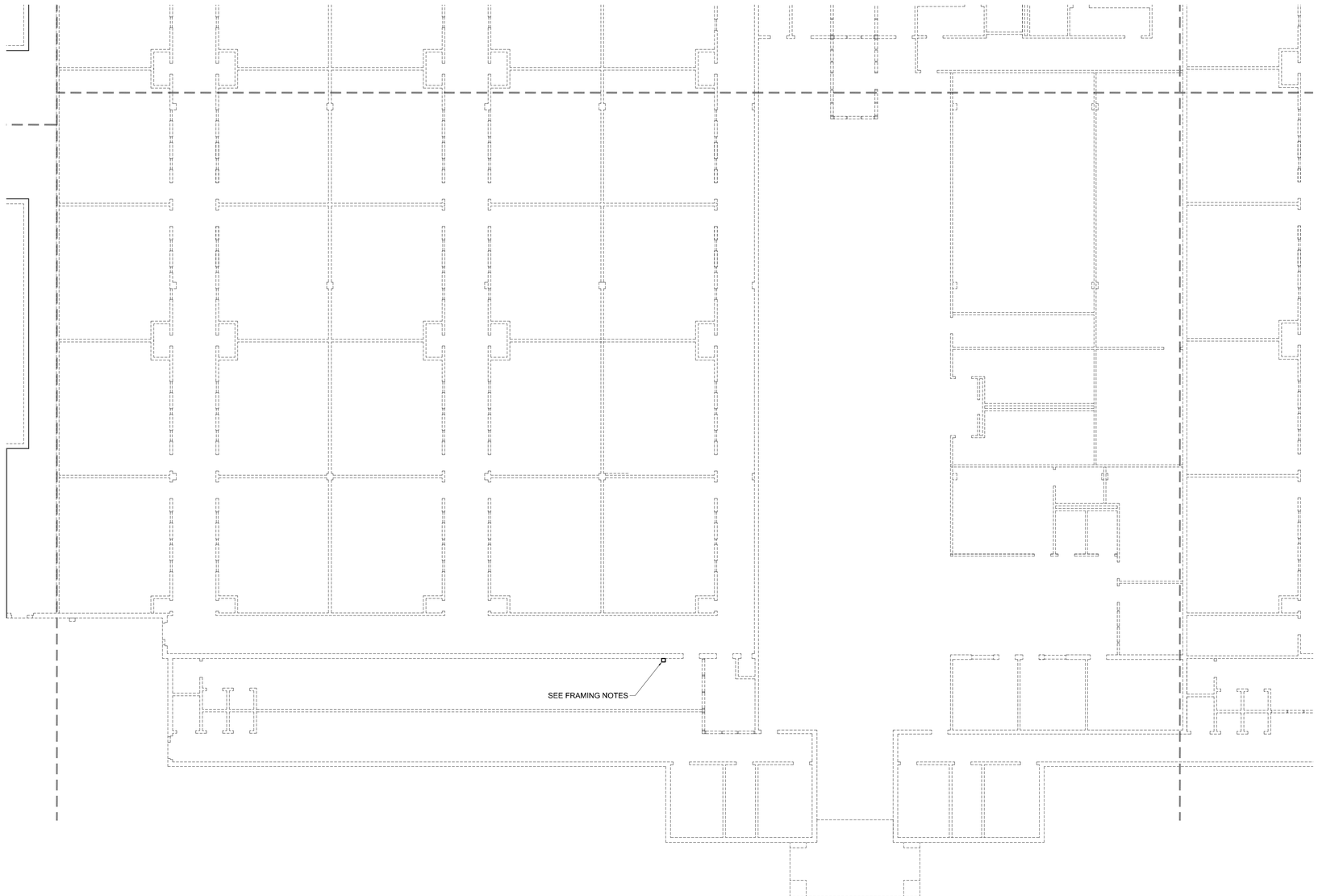
SEAL:



PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: LR
CHECKED BY:MC
REVISION:

DRAWING NO:
S3.1

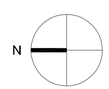


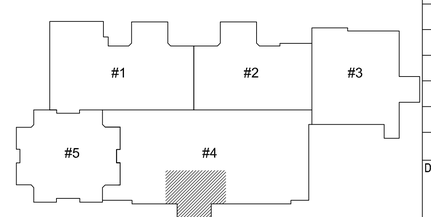
ADULT DETENTION CENTER PARTIAL FLOOR PLAN

SCALE: 1/8" = 1'-0"

FRAMING NOTES:

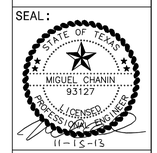
1. CONTRACTOR TO CREATE 2'-0" x 2'-0" OPENING IN (E) CEILING FOR STRUCTURAL ENGINEERING OBSERVATION OF EXISTING TILT-UP WALL CONNECTION. A 3'-6" x 3'-6" x 3'-0" CONCRETE FOOTING w/ #5 AT 12" O.C. T.B. E.W., TO BE ADDED BASED ON OBSERVATION OF EXISTING TILT-UP WALL CONDITION.
2. HSS 6x6x1/4 COLUMN TO BE ADDED BASED ON EXISTING CONDITIONS AND STRUCTURAL ENGINEERING RECOMMENDATIONS.
3. CONTRACTOR TO REPAIR/REFINISH AREAS DISTURBED BY WORK AND LEAVE IN SAME CONDITION AS PRIOR TO CONSTRUCTION.
4. TIMING OF WORK IN THIS AREA SHALL BE COORDINATED w/ ADC ADMINISTRATION.
5. PROVIDE $25,000 ALLOWANCE FOR WORK IN THIS AREA.





CHANIN
ENGINEERING LLC
1400 Nolana, Suite M2
McAllen, Texas 78504
PH: (956) 687-9401 FAX: (956) 687-3211
www.chanlineering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:



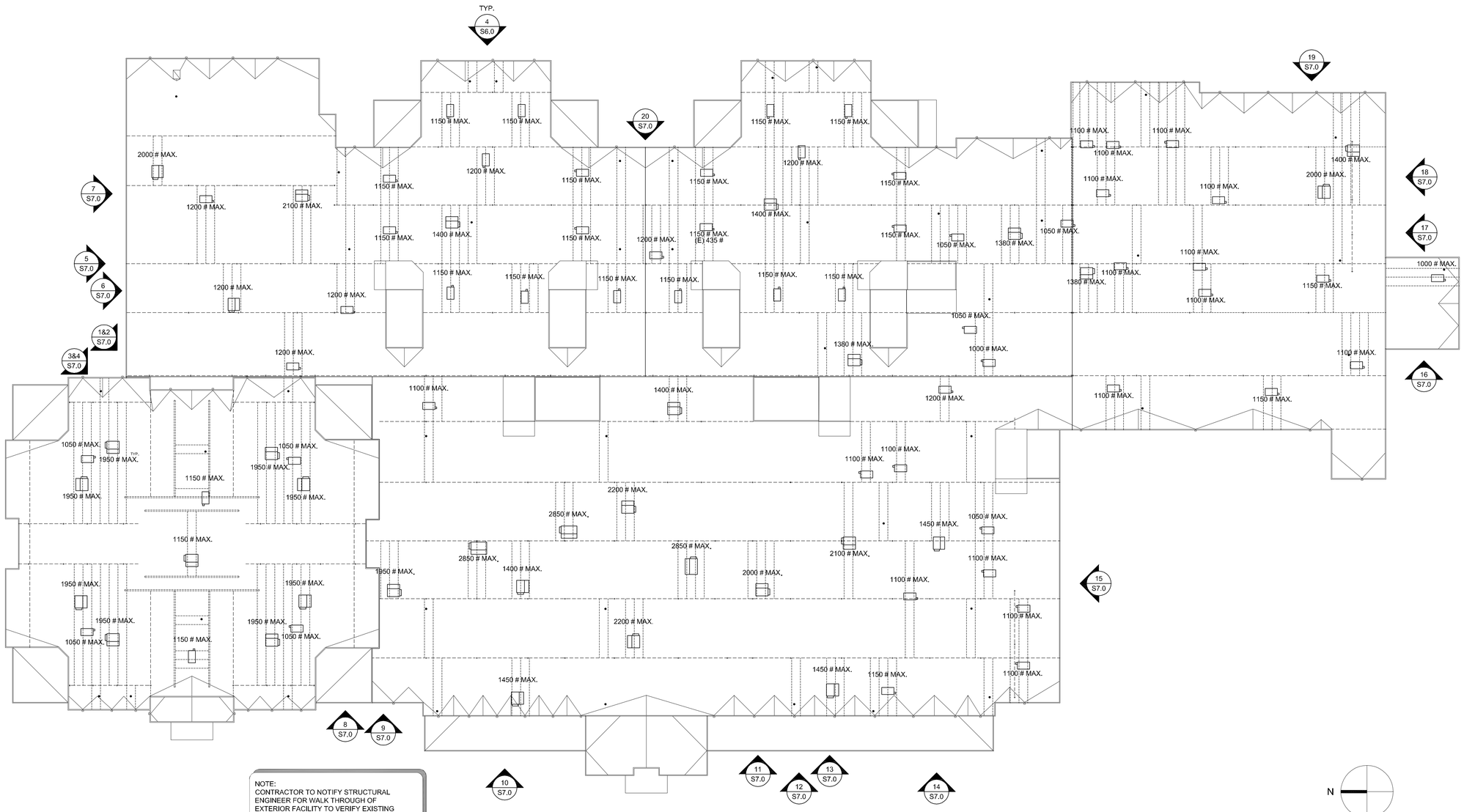
PROJECT:

HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: LR
CHECKED BY:MC
REVISION:

DRAWING NO:

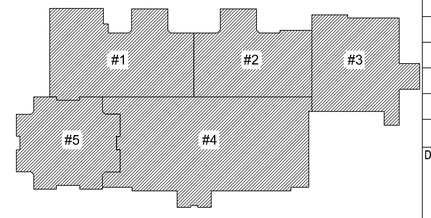
S4.0



NOTE:
CONTRACTOR TO NOTIFY STRUCTURAL ENGINEER FOR WALK THROUGH OF EXTERIOR FACILITY TO VERIFY EXISTING CONDITION OF PANELS. PANEL REPAIR DETAIL WILL APPLY AT LOCATIONS SPECIFIED BY STRUCTURAL ENGINEER. PROVIDE $5,000 ALLOWANCE FOR SPECIFIED WORK. SEE DETAIL 6/S6.0 FOR ADDITIONAL INFORMATION.

ADULT DETENTION CENTER OVERALL ROOF PLAN

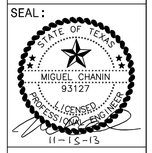
SCALE: 1"= 30'-0"



N
NORTH

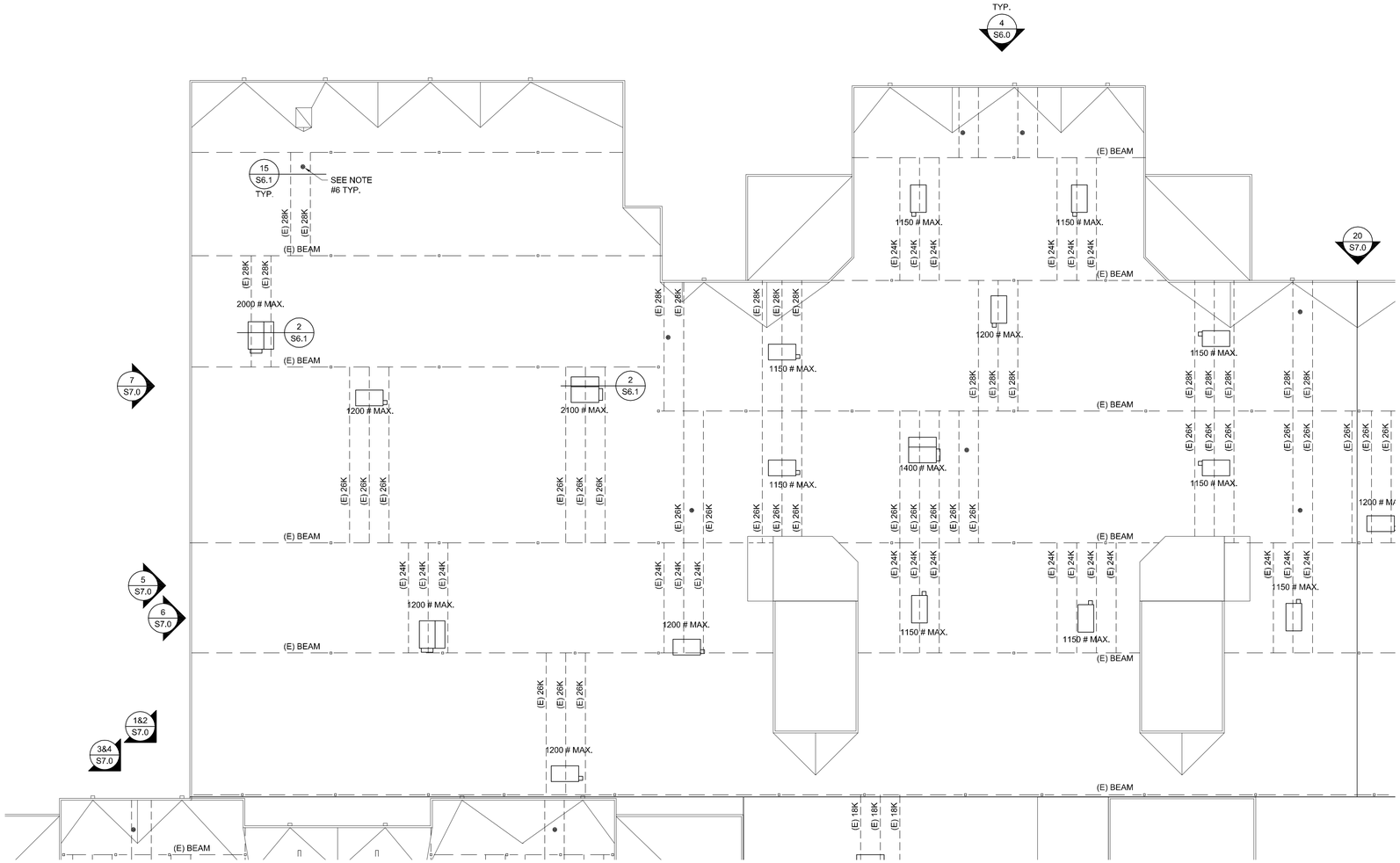
CHANIN
ENGINEERING LLC
4400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chanenginering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:



PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

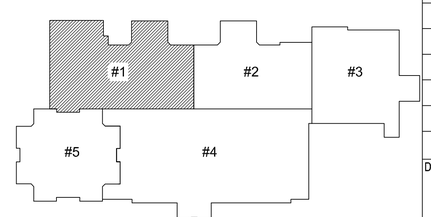
JOB NO. 13159
DATE: 11/15/13
DRAWN BY: LR
CHECKED BY:MC
REVISION:
DRAWING NO:
S5.0



NOTES:

1. MECHANICAL LOADING INDICATED ON PLANS ARE THE MAXIMUM ALLOWABLE LOADING FOR EXISTING STRUCTURAL CONDITIONS.
2. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS OF ALL RTU'S
3. REFER TO ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL DIMENSIONS.
4. EXACT JOIST LOCATIONS ARE NOT SHOWN IN PLANS. EXACT JOIST LOCATIONS ARE TO BE FIELD VERIFED.
5. ▨ INDICATES AREA THAT SHALL NOT BE USED AS STAGING AREA.
6. ROOF CONDENSATE DRAIN. REFER TO 15/S6.1 FOR ADDITIONAL INFORMATION. VERIFY ANY/ALL LOCATIONS WITH MEP AND ROOFING DRAWINGS.
7. (E) _ _ K JOIST SHOWN ARE THE AFFECTED JOIST, REFER TO DETAILS 2&4/S6.1 FOR ADDITIONAL INFORMATION.

N
NORTH



ADULT DETENTION CENTER PARTIAL ROOF PLAN

SCALE: 1/16" = 1'-0"

CHANIN
ENGINEERING LLC
4400 Nolana, Ste N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

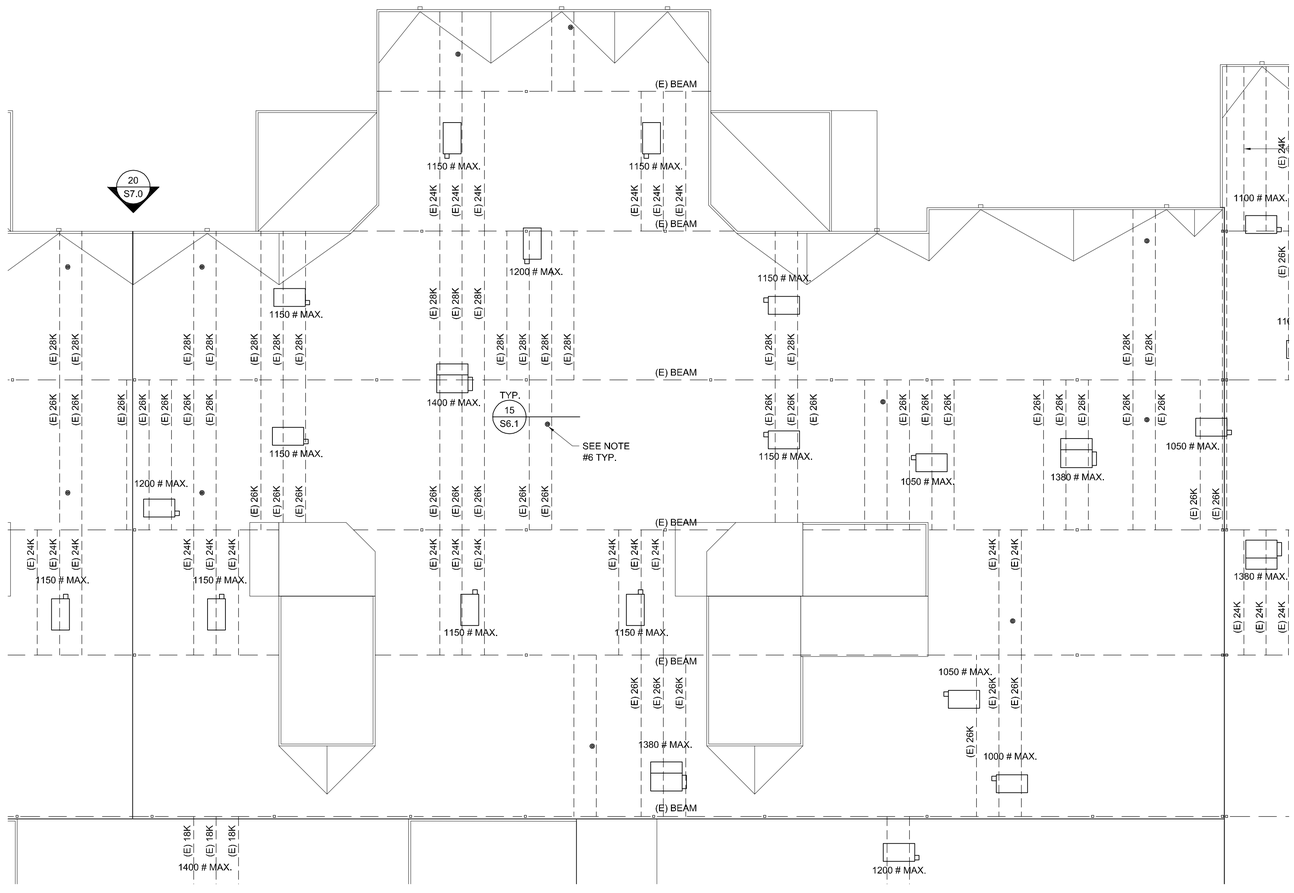
SEAL :

STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED
PROFESSIONAL ENGINEER
11-15-13

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: LR
CHECKED BY:MC
REVISION:

DRAWING NO:
S5.1



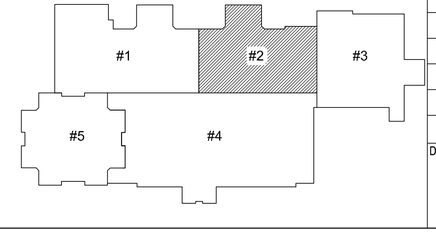
ADULT DETENTION CENTER PARTIAL ROOF PLAN

SCALE: 1/16" = 1'-0"

NOTES:

1. MECHANICAL LOADING INDICATED ON PLANS ARE THE MAXIMUM ALLOWABLE LOADING FOR EXISTING STRUCTURAL CONDITIONS.
2. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS OF ALL RTU'S
3. REFER TO ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL DIMENSIONS.
4. EXACT JOIST LOCATIONS ARE NOT SHOWN IN PLANS. EXACT JOIST LOCATIONS ARE TO BE FIELD VERIFED.
5. ▨ INDICATES AREA THAT SHALL NOT BE USED AS STAGING AREA.
6. ROOF CONDENSATE DRAIN. REFER TO 15/S6.1 FOR ADDITIONAL INFORMATION. VERIFY ANY/ALL LOCATIONS WITH MEP AND ROOFING DRAWINGS.
7. (E) _ _ K JOIST SHOWN ARE THE AFFECTED JOIST, REFER TO DETAILS 2&4/S6.1 FOR ADDITIONAL INFORMATION.

N
NORTH



CHANIN
ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chanin-engineering.com
TBPE FIRM REG. NUMBER F-9369

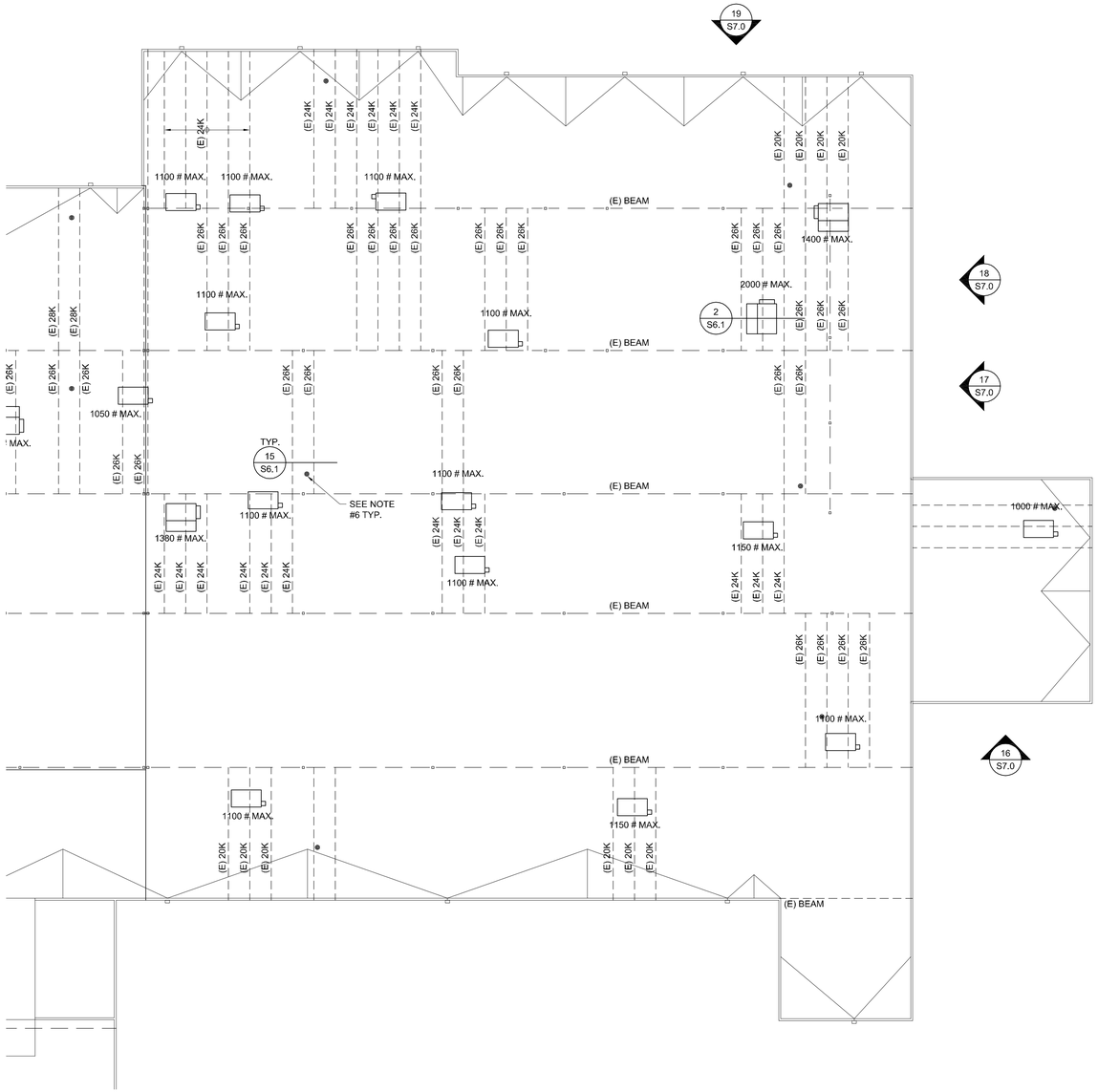
SEAL:

STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED
PROFESSIONAL ENGINEER
11-15-13

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: LR
CHECKED BY:MC
REVISION:

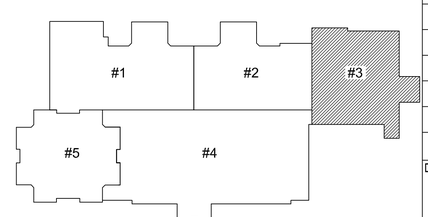
DRAWING NO:
S5.2



NOTES:

1. MECHANICAL LOADING INDICATED ON PLANS ARE THE MAXIMUM ALLOWABLE LOADING FOR EXISTING STRUCTURAL CONDITIONS.
2. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS OF ALL RTU'S
3. REFER TO ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL DIMENSIONS.
4. EXACT JOIST LOCATIONS ARE NOT SHOWN IN PLANS. EXACT JOIST LOCATIONS ARE TO BE FIELD VERIFED.
5. ▨ INDICATES AREA THAT SHALL NOT BE USED AS STAGING AREA.
6. ROOF CONDENSATE DRAIN. REFER TO 15/S6.1 FOR ADDITIONAL INFORMATION. VERIFY ANY/ALL LOCATIONS WITH MEP AND ROOFING DRAWINGS.
7. (E) _ _ K JOIST SHOWN ARE THE AFFECTED JOIST, REFER TO DETAILS 2&4/S6.1 FOR ADDITIONAL INFORMATION.

N
NORTH



ADULT DETENTION CENTER PARTIAL ROOF PLAN

SCALE: 1/16" = 1'-0"

CHANIN
ENGINEERING LLC
4400 Nolana, Ste N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

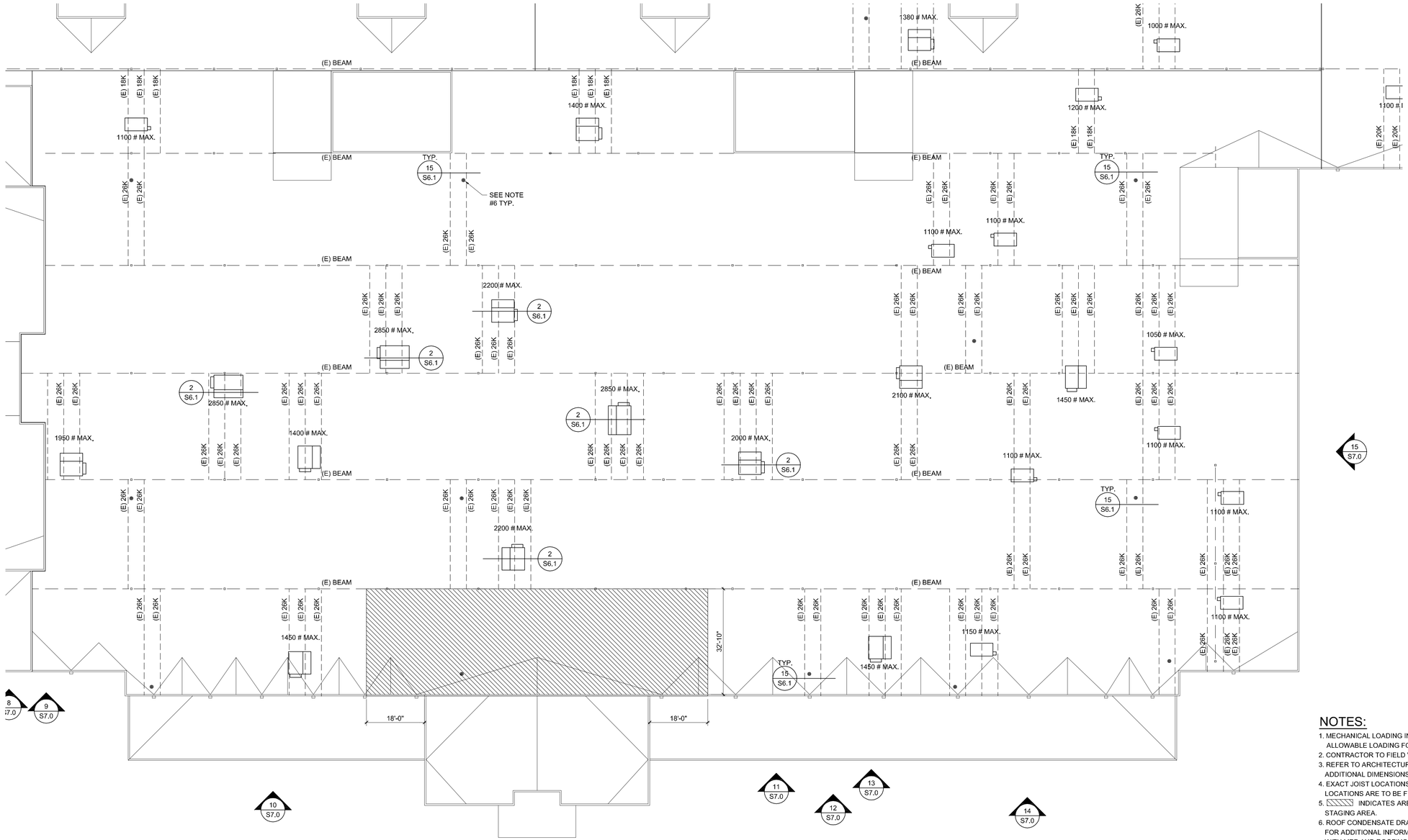
SEAL:

STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED PROFESSIONAL ENGINEER
11-15-13

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: LR
CHECKED BY:MC
REVISION:

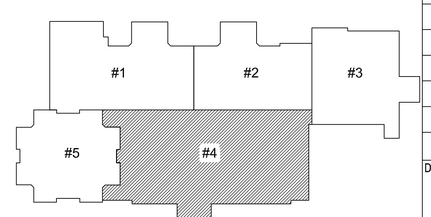
DRAWING NO:
S5.3



NOTES:

1. MECHANICAL LOADING INDICATED ON PLANS ARE THE MAXIMUM ALLOWABLE LOADING FOR EXISTING STRUCTURAL CONDITIONS.
2. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS OF ALL RTU'S
3. REFER TO ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL DIMENSIONS.
4. EXACT JOIST LOCATIONS ARE NOT SHOWN IN PLANS. EXACT JOIST LOCATIONS ARE TO BE FIELD VERIFED.
5. ▨ INDICATES AREA THAT SHALL NOT BE USED AS STAGING AREA.
6. ROOF CONDENSATE DRAIN. REFER TO 15/S6.1 FOR ADDITIONAL INFORMATION. VERIFY ANY/ALL LOCATIONS WITH MEP AND ROOFING DRAWINGS.
7. (E) ___ K JOIST SHOWN ARE THE AFFECTED JOIST, REFER TO DETAILS 2&4/S6.1 FOR ADDITIONAL INFORMATION.

N
NORTH



ADULT DETENTION CENTER PARTIAL ROOF PLAN

SCALE: 1/16" = 1'-0"

CHANIN
ENGINEERING LLC
4000 Nolana, Suite M2
McAllen, Texas 78504
PH: (956) 687-4421 FAX: (956) 687-3211
www.chanlineering.com
TBPE FIRM REG. NUMBER F-9369

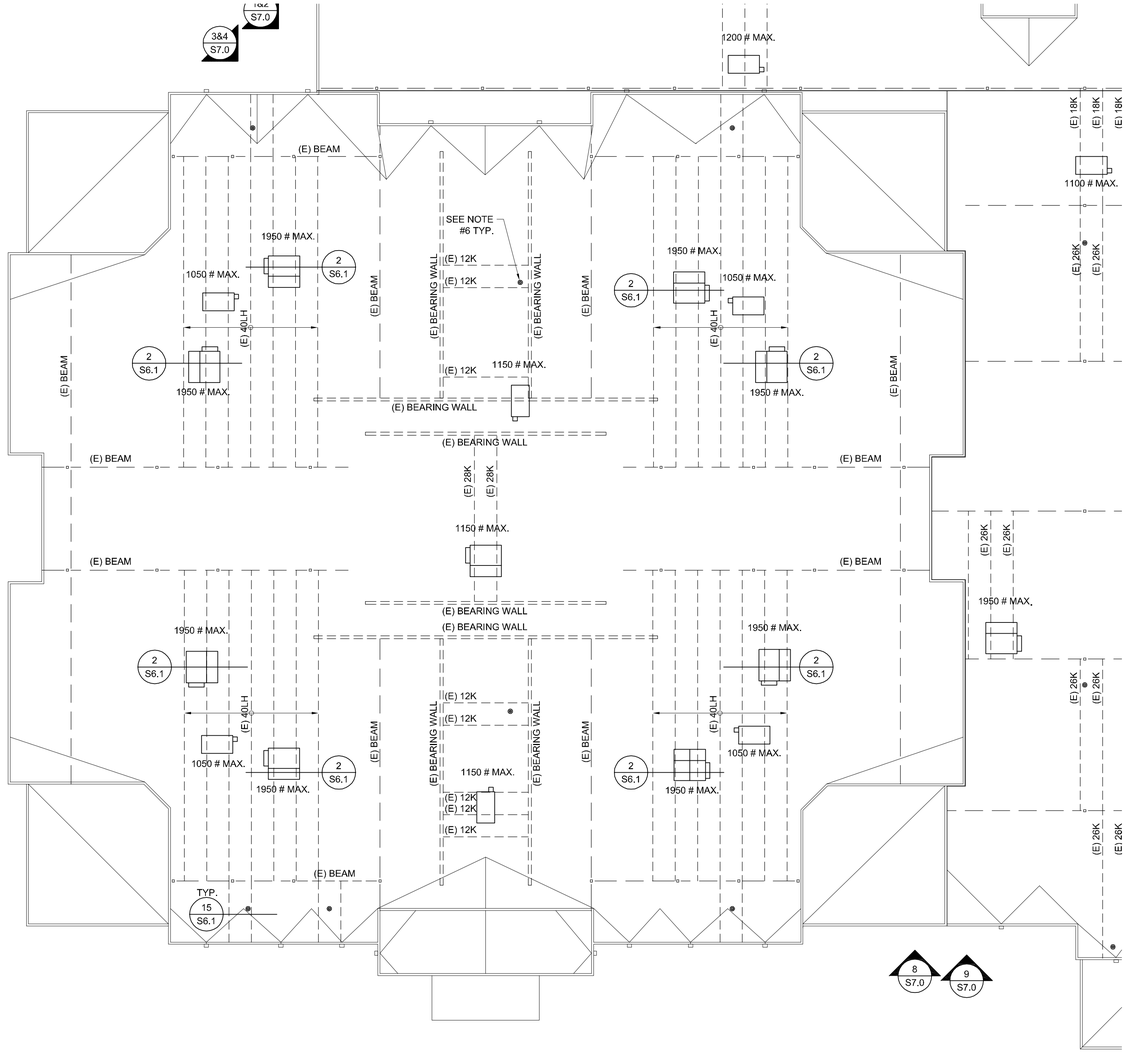
SEAL:

STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED
PROFESSIONAL ENGINEER
11-15-13

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: LR
CHECKED BY:MC
REVISION:

DRAWING NO:
S5.4



ADULT DETENTION CENTER PARTIAL ROOF PLAN

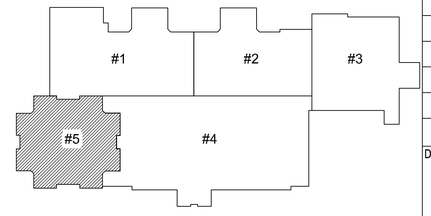
SCALE: 1/16" = 1'-0"

NOTES:

1. MECHANICAL LOADING INDICATED ON PLANS ARE THE MAXIMUM ALLOWABLE LOADING FOR EXISTING STRUCTURAL CONDITIONS.
2. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS OF ALL RTU'S
3. REFER TO ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL DIMENSIONS.
4. EXACT JOIST LOCATIONS ARE NOT SHOWN IN PLANS. EXACT JOIST LOCATIONS ARE TO BE FIELD VERIFED.
5. ▨ INDICATES AREA THAT SHALL NOT BE USED AS STAGING AREA.
6. ROOF CONDENSATE DRAIN. REFER TO 15/S6.1 FOR ADDITIONAL INFORMATION. VERIFY ANY/ALL LOCATIONS WITH MEP AND ROOFING DRAWINGS.
7. (E) _ _ K JOIST SHOWN ARE THE AFFECTED JOIST, REFER TO DETAILS 2&4/S6.1 FOR ADDITIONAL INFORMATION.

N

NORTH



CHANIN
ENGINEERING LLC
400 N. Nolana, Ste. M2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:

STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED
PROFESSIONAL ENGINEER
11-15-13

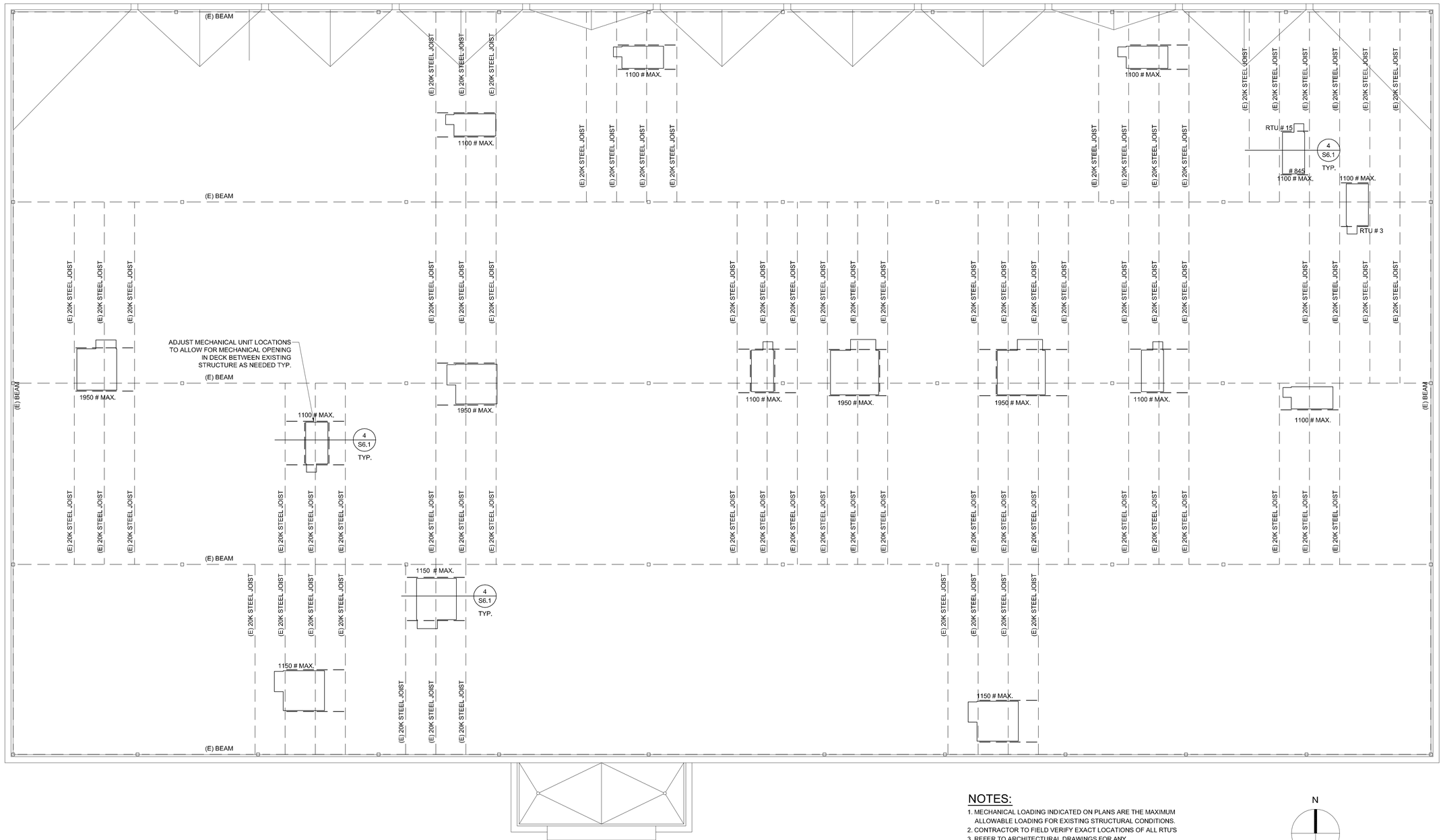
PROJECT:

HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: LR
CHECKED BY:MC
REVISION:

DRAWING NO:

S5.5



NOTES:

1. MECHANICAL LOADING INDICATED ON PLANS ARE THE MAXIMUM ALLOWABLE LOADING FOR EXISTING STRUCTURAL CONDITIONS.
2. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS OF ALL RTU'S
3. REFER TO ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL DIMENSIONS.
4. EXACT JOIST LOCATIONS ARE NOT SHOWN IN PLANS. EXACT JOIST LOCATIONS ARE TO BE FIELD VERIFED.
5. ▨ INDICATES AREA THAT SHALL NOT BE USED AS STAGING AREA.
6. ROOF CONDENSATE DRAIN. REFER TO 15/S6.1 FOR ADDITIONAL INFORMATION. VERIFY ANY/ALL LOCATIONS WITH MEP AND ROOFING DRAWINGS.
7. (E) _ _ K JOIST SHOWN ARE THE AFFECTED JOIST, REFER TO DETAILS 2&4/S6.1 FOR ADDITIONAL INFORMATION.

N

NORTH

LAW ENFORCEMENT CENTER OVERALL ROOF PLAN

SCALE: 1/8" = 1'-0"

CHANIN
ENGINEERING LLC
4000 Nolana, Ste. N2
McAllen, Texas 78504
PH: (956) 687-4418 FAX: (956) 687-3211
www.chanin-engineering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:

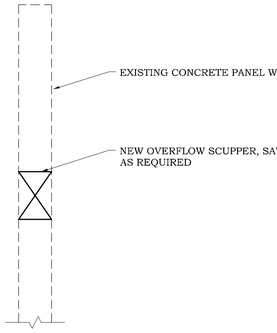
STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED
PROFESSIONAL ENGINEER
11-15-13

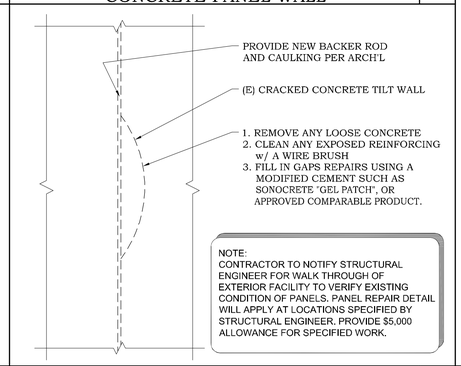
PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

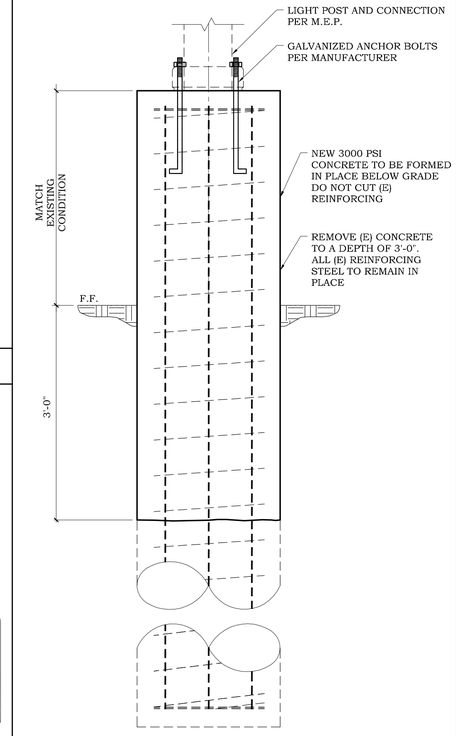
JOB NO. 13159
DATE: 11/15/13
DRAWN BY: LR
CHECKED BY:MC
REVISION:

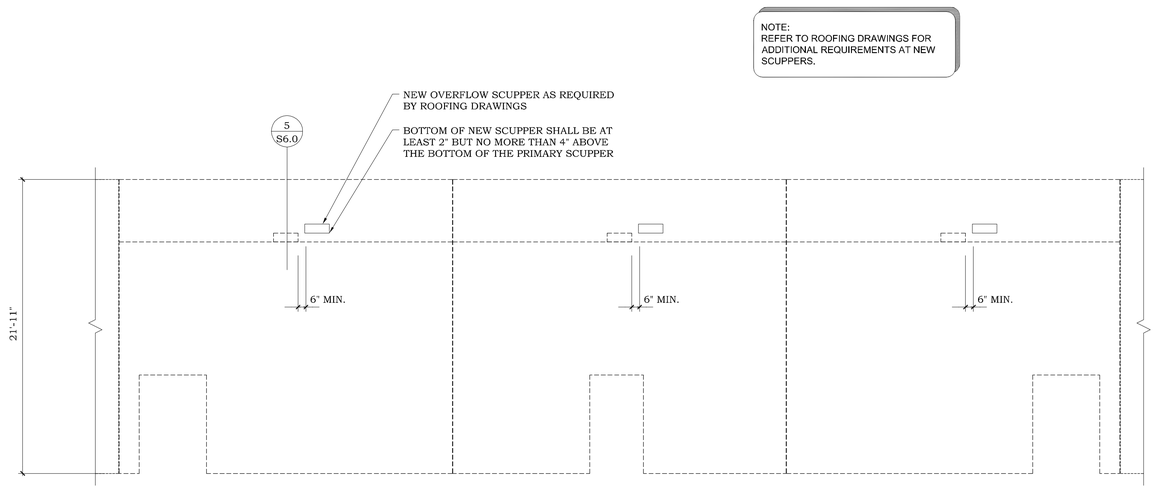
DRAWING NO:
S5.6

NOT USED	17	NOT USED	13	NOT USED	9	NEW SCUPPER TO EXISTING CONCRETE PANEL WALL	5	LIGHT POLE DETAIL	2
NOT USED	18	NOT USED	14	NOT USED	10	TILT-UP PANEL	6		
NOT USED	19	NOT USED	15						
NOT USED	20	NOT USED	16			NEW SCUPPER AT TILT-UP PANEL ELEVATION	4		



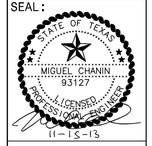






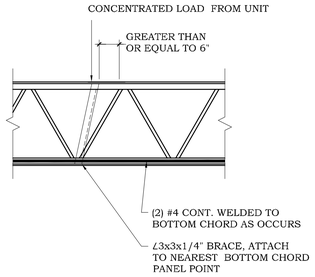
CHANIN
ENGINEERING LLC
4200 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9411 FAX: (956) 687-3211
www.chanlineering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:

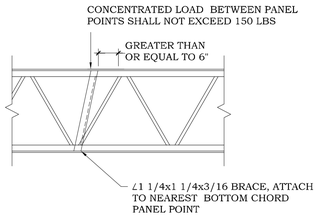


PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

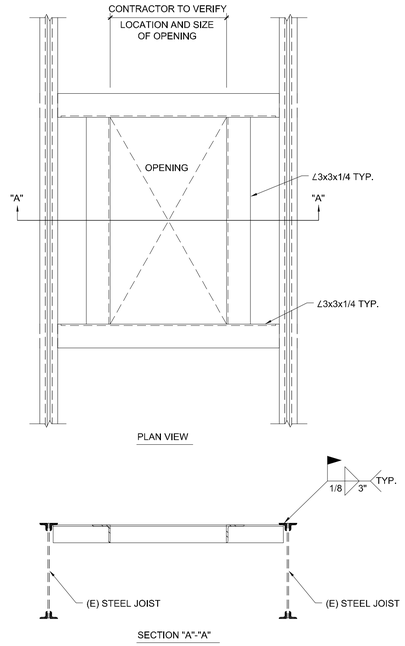
JOB NO. 13159
DATE: 11/15/13
DRAWN BY: LR
CHECKED BY:MC
REVISION:
DRAWING NO:
S6.0



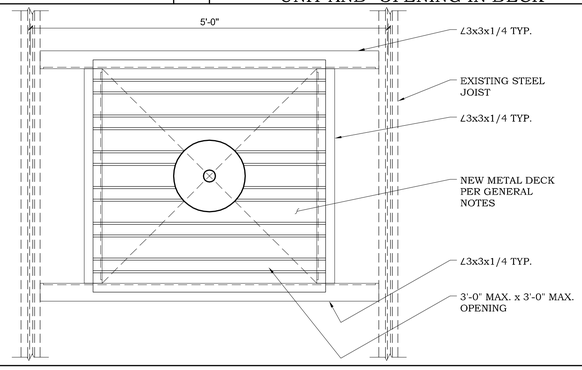
JOIST BRACING AT CONCENTRATED LOAD | 17



JOIST BRACING AT CONCENTRATED LOAD | 18



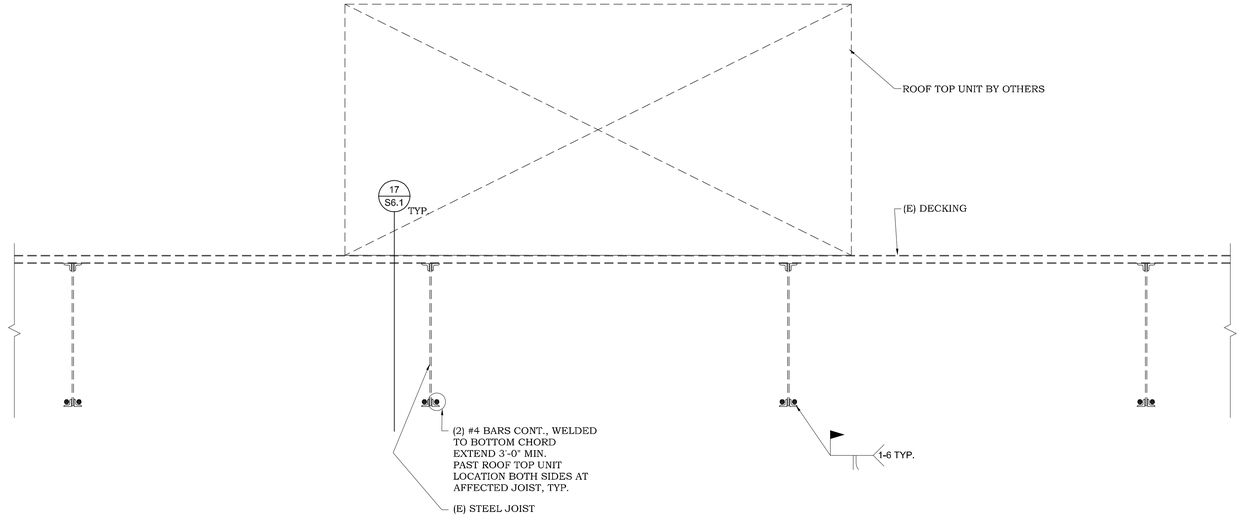
TYP. SUPPORT FOR MECHANICAL UNIT AND OPENING IN DECK | 14



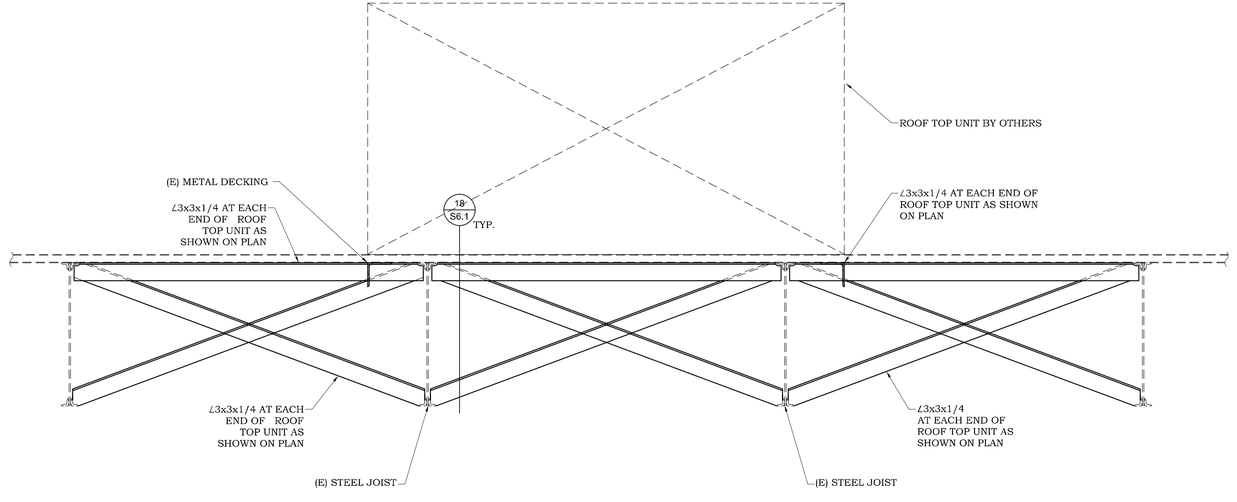
TYP. SUPPORT FOR CONDENSATE ROOF DRAIN AND OPENING IN DECK | 15

NOT USED | 20

NOT USED | 16



ADDITIONAL REINFORCING AT (E) STEEL JOIST | 2



SUPPORT FOR MECHANICAL UNIT | 4

CHANIN
ENGINEERING LLC
4400 Nolana, Ste. N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:

STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED PROFESSIONAL ENGINEER
11-15-13

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: LR
CHECKED BY:MC
REVISION:

DRAWING NO:
S6.1

PICTURE 17 | 17

PICTURE 13 | 13

PICTURE 9 | 9

PICTURE 5 | 5

PICTURE 1 | 1

PICTURE 18 | 18

PICTURE 14 | 14

PICTURE 10 | 10

PICTURE 6 | 6

PICTURE 2 | 2

PICTURE 19 | 19

PICTURE 15 | 15

PICTURE 11 | 11

PICTURE 7 | 7

PICTURE 3 | 3

PICTURE 20 | 20

PICTURE 16 | 16

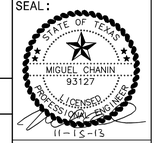
PICTURE 12 | 12

PICTURE 8 | 8

PICTURE 4 | 4

CHANIN
ENGINEERING LLC
400 Nolana, Ste M2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:



PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: LR
CHECKED BY:MC
REVISION:

DRAWING NO:
S7.0

PROJECT DESCRIPTION

RE-ROOFING, HVAC RENOVATION, FIRE ALARM RENOVATION, WEATHER PROOFING, AND LIMITED INTERIOR REPAIRS FOR THE HIDALGO COUNTY SHERIFF'S OFFICE ADULT DETENTION CENTER AND LAW ENFORCEMENT CENTER, LOCATED IN EDINBURG, TEXAS. WORK WILL PRIMARILY OCCUR AT EXTERIOR OF BUILDINGS AND IS INTENDED TO ALLEVIATE CURRENT AIR AND MOISTURE PENETRATION PROBLEMS ASSOCIATED WITH THE FACILITY. BOTH FACILITIES SHALL REMAIN IN USE DURING CONSTRUCTION.

USE/OCCUPANCY CLASSIFICATIONS

ADULT DETENTION CENTER: INSTITUTIONAL GROUP I-3

LAW ENFORCEMENT CENTER: BUSINESS GROUP B

GENERAL NOTES

1. THE CONTRACTOR SHALL PROTECT AREA AND NEW OR EXISTING MATERIALS AND FINISHES FROM DAMAGE, WHICH MAY OCCUR FROM CONSTRUCTION, TRANSPORT, DUST, WATER, ETC. ANS SHALL PROVIDE AND MAINTAIN TEMPORARY BARRICADES, CLOSURE WALLS, ETC., AS REQUIRED, TO PROTECT THE PUBLIC/ADJACENT AREAS DURING THE PERIOD OF CONSTRUCTION.

2. DAMAGE TO NEW AND EXISTING MATERIALS, FINISHES, STRUCTURES AND EQUIPMENT SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT THE EXPENSE OF THE GENERAL CONTRACTOR.

3. MATERIALS SPECIFIED BY THEIR BRAND NAMES ARE TO ESTABLISH STANDARD OF QUALITY AND PERFORMANCE. ANY REQUEST FOR SUBSTITUTION SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW FOR EQUAL QUALITY AND PERFORMANCE AND SHALL NOT BE PURCHASED OR INSTALLED WITHOUT HIS WRITTEN APPROVAL.

4. WORK LISTED, SHOWN OR IMPLIED ON ANY CONSTRUCTION DOCUMENTS SHALL BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR, EXCEPT WHERE OTHERWISE NOTED. THE GENERAL CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK WITH THAT OF OTHER CONTRACTORS OR VENDORS TO ASSURE THAT ALL SCHEDULES ARE MET AND THAT ALL WORK IS DONE IN CONFORMANCE TO MANUFACTURER'S REQUIREMENTS.

5. THE CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETE SET OF CONSTRUCTION DOCUMENTS ON THE JOB SITE DURNING ALL PHASES OF CONSTRUCTION FOR USE OF ALL TRADES AND SHALL PROVIDE ALL SUBCONTRACTORS WITH CURRENT CONSTRUCTION DOCUMENTS AS REQUIRED.

6. THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A REGULAR BASIS AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING TO PREVENT ANY DIRT, DEBRIS, OR DUST FROM AFFECTING, IN ANY WAY, FINISHED AREAS IN OR OUTSIDE JOBSITE. THE BUILDING REFUSE FACILITIES SHALL NOT BE USED FOR THIS PURPOSE.

7. CONTRACTOR SHALL COORDINATE ALL WORK WITH MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER SUB-TRADES AND REPORT TO ARCHITECT ANY DISCREPANCIES FOR CORRECTION OR ADJUSTMENT. NO ALLOWANCE WILL BE MADE FOR INCREASED COST INCURRED DUE TO LACK OF PROPER COORDINATION.

8. THE CONTRACTOR, OR SUBCONTRACTORS, SHALL SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, AND LICENSES REQUIRED FOR PROPER COMPLETION OF THE WORK. THE CONTRACTOR SHALL REQUEST ALL INSPECTIONS REQUIRED BY LOCAL GOVERNMENTAL AGENCIES AND COORDINATE HIS WORK WITH SUCH.

9. THE GENERAL CONTRACTOR SHALL SUBMIT ONE (1) COPY OF ALL MANUFACTURER'S WARRANTIES AND OPERATIONS/MAINTENANCE INSTRUCTIONS TO THE OWNER.

10. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING THE WORK. SHOULD THE CONTRACTOR FIND, AFTER THE VISIT TO THE SITE OR DURING CONSTRUCTION, ANY DISCREPANCIES, OMMISSIONS, AMBIGUITIES, OR CONFLICTS IN OR AMONG THE DRAWINGS, OR BE IN DOUBT AS TO THEIR MEANING, HE/SHE SHOULD IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING BEFORE PROCEEDING.

11. ALL WOOD BLOCKING TO BE FIRE TREATED.

12. GROUNDS/BLOCKING MAY NOT BE WHOLLY SHOWN ON DRAWINGS AND GOOD CONSTRUCTION PRACTICE SHALL GOVERN/DETERMINE SAID USE WHEN A QUESTION ARISES.

13. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY LESS THAN 8 INCHES FROM THE GROUND SHALL BE PRESSURE TREATED OR REDWOOD.

14. ISOLATE DISSIMILAR METALS SO THEY ARE NOT IN CONTACT WITH EACH OTHER TO PREVENT/AVOID ELECTROLYTIC REACTION.

15. CONTRACTOR SHALL COMPLY WITH CURRENT APPLICABLE LOCAL ORDINANCES FOR UTILITY SERVICES.

16. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES. WHERE ENCOUNTERED, CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS FOR SUPPORT, SHORE-UP, REROUTE OR UTILITY DISCONNECTIONS AS REQUIRED BY APPLICABLE LOCAL OR PRIVATE UTILITY COMPANIES.

17. THE CONTRACTOR SHALL VERIFY ALL ELECTRICAL AND PLUMBING ROUGH-IN LOCATIONS FOR ANY SPECIAL EQUIPMENT WITH THE SUPPLIER OF SUCH EQUIPMENT.

18. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THEIR SEPARATE CONTRACTORS AT BUILDING PENETRATIONS SUCH AS WINDOWS, DOORS, VENTS, LOUVERS, ETC.

19. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION AND REQUIRED CLEARANCES OF THE EQUIPMENT, NOT STRUCTURAL MEMBER SHALL BE OMITTED, NOTCHED OUT, BLOCKED OUT, OR RELOCATED WITHOUT PRIOR APPROVAL BY THE ARCHITECT OR ENGINEER.

20. ALL PRODUCTS AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS/SPECIFICATIONS UNLESS SPECIFIED OTHERWISE.

21. MATERIALS, EQUIPMENT, AND CRAFTSMANSHIP OF ALL TRADES SHALL CONFORM TO RECOGNIZED ASTM OF QUALITY APPROPRIATE TO GRADE OF SAID MATERIALS, EQUIPMENT, AND CRAFTSMANSHIP.

22. MATERIALS AND EQUIPMENT SHALL BE NEW, SOUND, OF HIGH QUALITY, AND SUITABLE FOR APPLICATIONS SPECIFIED.

23. MATERIALS SHALL BE POSITIONED IN AN ORDERLY MANNER AND SHALL BE ALIGNED WITH THE BUILDING STRUCTURE. VERTICAL MEMBERS/SURFACES SHALL BE PLUMB. HORIZONTAL MEMBERS/SURFACES SHALL BE LEVEL AND ALL SURFACES TRUE TO PLANES SPECIFIED. CRAFTSMANSHIP SHALL BE NEAT, CLEAN, AND TRUE TO LINE AND DIMENSION. FINISH MATERIALS SHALL BE FREE OF TOOL MARKS, FLAWS AND BLEMISHES, JOINERY AND CONNECTIONS SHALL BE ACCURATE, CLOSE/TIGHT FITTING AND WELL CRAFTED. TOLERANCES RECOGNIZED BY NATIONAL TRADE ASSOCIATIONS WILL BE THE MINIMUM ACCEPTABLE STANDARD FOR RESPECTIVE TRADE WORK.

24. CEILING PLANE SHALL BE LEVEL AND TRUE AND IN ALIGNMENT WITH ALL LIGHTING, SPRINKLER, HVAC, AND OTHER ELEMENTS INCORPORATED THEREIN.

GENERAL NOTES (CONT'D)

25. MECHANICAL, HVAC, AND PLUMBING ELEMENTS SHALL AT NO TIME COME IN CONTACT WITH CEILING CONSTRUCTION EXCEPT AS NECESSARY PENETRATIONS MAY REQUIRE.

26. MATERIALS, EQUIPMENT, AND/OR CONSTRUCTIVE SERVICES NOT INDICATED IN DRAWINGS OR SPECIFIED HEREIN, BUT REQUIRED FOR SUCCESSFUL AND EFFICIENT COMPLETION OF THE INSTALLATION SHALL BE CONSIDERED IMPLIED IN THE DOCUMENTS. CONTENTS AND SAID MATERIAL, EQUIPMENT, AND/OR CONSTRUCTIVE SERVICES SHALL BE FURNISHED AND INSTALLED AT NO ADDITIONAL COST TO THE OWNER.

27. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS OR LEVEL OF CRAFTSMANSHIP, SUCH STANDARDS SHALL BE MAINTAINED PER THE LATEST ADDITION AND/OR ADDENDUM.

28. ANY OMISSIONS OR CONFLICTS WITHIN THE DRAWINGS, NOTES, OR DETAILS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH WORK.

29. WHERE SPECIFIC INSTRUCTIONS REQUIRE THAT A PARTICULAR PRODUCT OR MATERIAL BE INSTALLED BY MANUFACTURER OR PER MANUFACTURER'S INSTRUCTIONS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ANY SUBCONTRACTORS ARE APPROVED APPLICATORS AND THAT INSTALLERS FOLLOW THE MANUFACTURER'S INSTRUCTIONS.

30. DETAILS SHOWN SHALL BE INCORPORATED INTO CONSTRUCTION AT ALL APPROPRIATE LOCATIONS WHETHER SPECIFICALLY CALLED OUT/IDENTIFIED OR NOT.

31. TYPICAL DETAILS SHALL APPLY IN GENERAL CONSTRUCTION THROUGHOUT, UNLESS DETAILED OTHERWISE ON DRAWINGS.

32. SHOP DRAWINGS: CONTRACTOR SHALL FURNISH SHOP DRAWINGS FOR ALL SHOP FABRICATED ITEMS AND WHERE CUSTOMARILY REQUIRED. SUBMIT FOUR (4) SETS OF SHOP DRAWINGS FOR REVIEW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE SHOP DRAWINGS FOR ACCURACY, COORDINATION WITH OTHER TRADES, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS BEFORE BEING SUBMITTED FOR APPROVAL. ARCHITECT'S OR ENGINEER'S APPROVAL OF SHOP DRAWINGS SHALL CONSTITUTE REVIEW AND APPROVAL OF THE GENERAL ARRANGEMENT OF COMPONENTS TO COMPLY WITH THE GENERAL INTENT OF THE CONSTRUCTION DOCUMENTS, EVEN IF SUCH ITEMS ARE NOT SHOWN ON THE SHOP DRAWINGS. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND CONDITIONS TO INSURE A PROPER FIT UNDER FIELD CONDITIONS AND SHALL MAKE ADJUSTMENTS AS REQUIRED TO MAKE PARTS ALIGN. ALL REVISIONS TO SHOP DRAWINGS AFTER THE FIRST SUBMISSION MUST BE PROPERLY IDENTIFIED ON SUBSEQUENT SUBMISSIONS.

33. NO WORK IS TO COMMENCE UNTIL PLANS HAVE BEEN APPROVED BY THE DEPARTMENT OF BUILDINGS AND PERMIT TO BUILD HAS BEEN OBTAINED BY THE GENERAL CONTRACTOR.

34. PRIOR TO THE START OF CONSTRUCTION, THE GENERAL CONTRACTOR SHALL COORDINATE SCHEDULING OF MEETING WITH HIS PROJECT PERSONNEL, THE OWNER, CONSTRUCTION MANAGER, STRUCTURAL ENGINEER, MEP ENGINEER, ARCHITECT AND OTHERS FOR REVIEW OF PROJECT SCOPE, DESIGN, INTENT, CONSTRUCTION QUALITY EXPECTED, AND FINAL DISCUSSION OF DRAWINGS/DETAILS/QUESTIONS.

35. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE CODES OF THE LOCAL JURISDICTION.

36. THE GENERAL CONTRACTOR AND ALL VENDORS/SUBCONTRACTORS ARE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS, QUANTITIES, ETC. OF THEIR RESPECTIVE WORK.

37. DO NOT SCALE DRAWINGS. WHERE DIMENSIONS BETWEEN SMALL SCALE AND DETAIL DRAWINGS DIFFER, DETAIL DIMENSIONS SHALL GOVERN. FIELD VERIFY ALL DIMENSIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES.

38. THE OWNER MAY PERMIT THE CONTRACTOR TO STORE SOME MATERIALS ON THE SITE IN AN AREA APPROVED BY THE OWNER – PROVIDED THAT THE CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR ANY AND ALL STORED MATERIALS.

39. GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, AIA DOCUMENT A-201, THE LATEST EDITION, SHALL BE MADE A PART OF THESE DRAWINGS.

40. THE GENERAL CONTRACTOR SHALL CARRY WORKMEN'S COMPENSATION AND LIABILITY INSURANCE TO COVER ALL CONSTRUCTION OPERATIONS TO BE PERFORMED.

41. DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE REMAIN THE PROPERTY OF ARCHITECT AND OTHER DESIGN PROFESSIONALS AND ARE PROTECTED UNDER COMMON LAW COPYRIGHT PROVISIONS. THEY ARE NOT TO BE REUSED EXCEPT BY WRITTEN AGREEMENT AND WITH THE AGREED COMPENSATION TO THE ARCHITECT AND OTHER DESIGN PROFESSIONALS. IF REUSED, WITHOUT PERMISSION, THE ARCHITECT AND OTHER DESIGN PROFESSIONALS SHALL BE INDEMNIFIED AND HELD HARMLESS FROM ALL LIABILITY, LEGAL EXPOSURE, CLAIMS, DAMAGES, LOSSES & EXPENSES. DRAWINGS SHALL NOT BE USED FOR ISSUANCE OF A BUILDING PERMIT UNLESS SIGNED AND SEALED BY THE ARCHITECT AND OTHER DESIGN PROFESSIONALS. DRAWINGS SHALL NOT BE USED FOR MULTIPLE OR PROTOTYPE DEVELOPMENT WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT AND OTHER DESIGN PROFESSIONALS.

42. THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL COMPLETION/RECEIPT OF FINAL PAYMENT. SHOULD DEFECTS DEVELOP WITHIN THE GUARANTEE PERIOD DUE TO FAULTS IN MATERIALS AND/OR LABOR, THE CONTRACTOR SHALL MAKE REPAIRS AND COMPLETE ALL NECESSARY WORKS AS SOON AS POSSIBLE. SPECIFIC MATERIAL AND/OR MATERIAL ASSEMBLIES SUPPLIED BY INDEPENDENT MANUFACTURERS SHALL BE GUARANTEED AS FOLLOWS: (1) IF MANUFACTURER'S / FABRICATOR'S GUARANTEES / WARRANTIES EXCEED THE ONE YEAR STIPULATED PERIOD OF GUARANTEE / WARRANTY, THE SUCH GUARANTEES / WARRANTIES SHALL BE BINDING FOR THE DURATION STIPULATED IN EXCESS OF THE ONE YEAR STIPULATED PERIOD. (2) IF MANUFACTURER'S / FABRICATOR'S GUARANTEES / WARRANTIES ARE LESS THAN THE ONE YEAR STIPULATED PERIOD OF GUARANTEE / WARRANTY, THEN THE CONTRACTOR AND ASSOCIATED SUB-CONTRACTORS SHALL ASSUME THE GUARANTEES / WARRANTIES FOR MATERILS AND MATERIAL ASSEMBLIES TO THE ONE YEAR STIPULATED PERIOD.

43. THE CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH CONTRACT DOCUMENTS. THE CONTRACTOR WILL INFORM THE ARCHITECT OF ANY PROPOSED SUBSTITUTIONS IN WRITING AND WILL NOT PROCEED WITH THE PROPOSED SUBSTITUTIONS WITHOUT CONSENT FROM THE ARCHITECT.

CHANIN ENGINEERING LLC
400 Nolana, Suite 7
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:

REGISTERED ARCHITECT
SAMUEL RAYMOND GARCIA
#7333
STATE OF TEXAS

11-15-13

SAM GARCIA ARCHITECT
1325 E. Jasmine Ave.
McAllen, Texas 78501
PH: (956) 212-4930
www.samgarciaarchitect.com

PROJECT:

HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159

DATE: 11/15/13

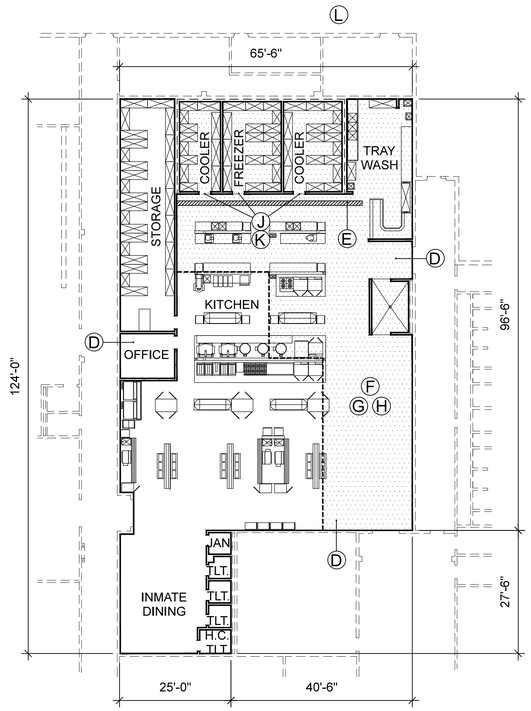
DRAWN BY: SRG

CHECKED BY:MC

REVISION:

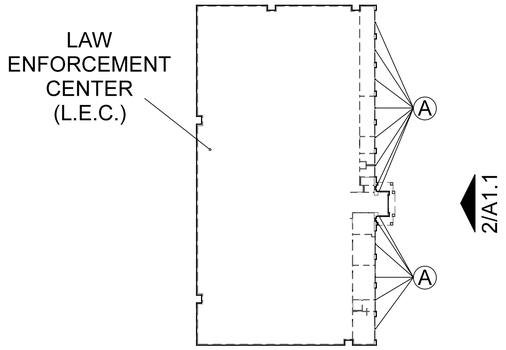
DRAWING NO:

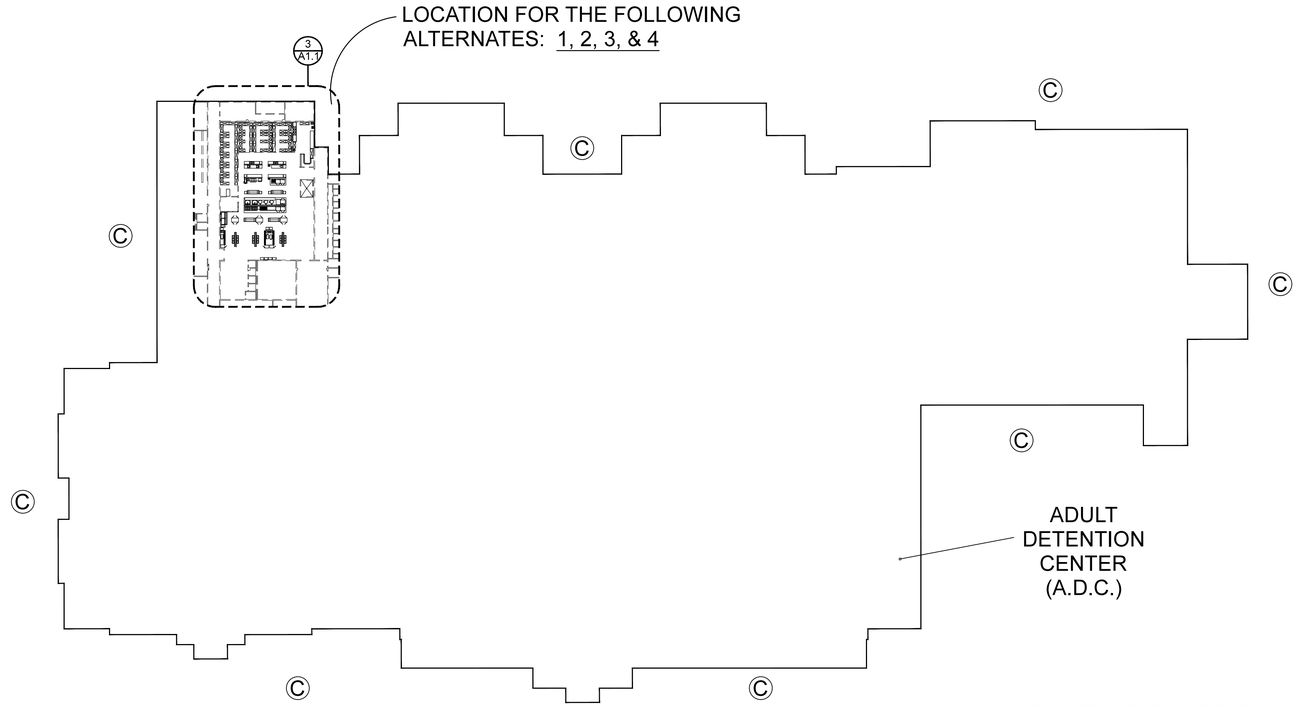
A1.0



N ← KITCHEN 3

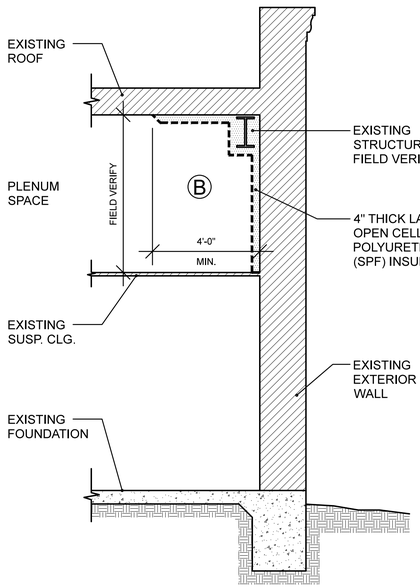
1/16" = 1'-0"





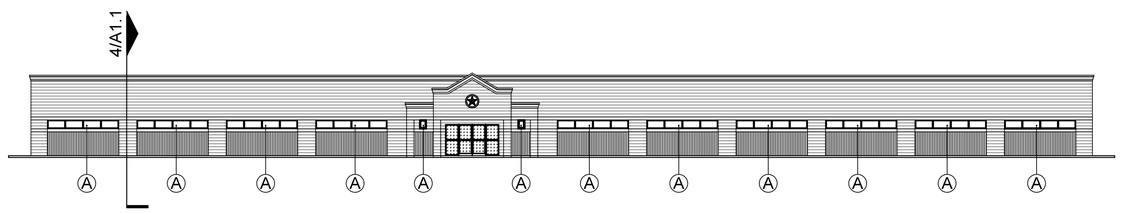
N ← EXISTING FLOOR PLAN 1

1" = 50'-0"



L.E.C. PLENUM INSULATION 4

3/8" = 1'-0"



LAW ENFORCEMENT CENTER (L.E.C.) SOUTH ELEVATION 2

1/16" = 1'-0"

GENERAL NOTES

1. GENERAL CONTRACTOR SHALL ENSURE THAT ALL WORK IS PERFORMED IN CONFORMANCE W/ ALL REQUIREMENTS SET FORTH BY HIDALGO COUNTY LAW ENFORCEMENT OFFICIALS TO ENSURE UNINTERRUPTED OPERATION OF THE ADULT DETENTION CENTER.

2. **INTERIOR RENOVATION WORK AT ADULT DETENTION CENTER SHALL ONLY OCCUR DURING DESIGNATED HOURS: 7:00 P.M. - 2:00 A.M. (M-F).**

3. INTERIOR RENOVATION WORK AT LAW ENFORCEMENT CENTER SHALL ONLY OCCUR DURING NORMAL BUSINESS HOURS: 8:00 A.M. - 5:00 P.M. (M-F).

4. GENERAL CONTRACTOR SHALL MAKE PROVISIONS TO ENSURE THAT TRADES DO NOT LEAVE EQUIPMENT AND/OR PARTIALLY COMPLETED PORTIONS OF WORK EACH AND EVERY TIME THEY LEAVE THE JOBSITE.

5. GENERAL CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.

KEY NOTES

BASE BID

(A) LAW ENFORCEMENT CENTER: ALL EXTERIOR WINDOWS ON SOUTH FACADE SHALL BE RE-SEALED. REMOVE AND REPLACE BACKER ROD, SEALANT, AND CAULKING ALONG WINDOW PERIMETER TO PROVIDE WEATHER-TIGHT SEAL.

(B) LAW ENFORCEMENT CENTER: PROVIDE 4" THICK LAYER OF OPEN CELL SPRAY POLYURETHANE FOAM (SPF) INSULATION AT UNDERSIDE OF ROOF DECK AS PER DETAIL 4/A1.1

(C) ADULT DETENTION CENTER: RE-SEAL ALL VERTICAL WALL JOINTS AT EXTERIOR WALLS BY REMOVING EXISTING SEALANT & BACKER ROD & REPLACING W/ NEW ON BOTH THE OUTER AND INNER SURFACES. RE: 6/A2.1

ALTERNATE 1

(D) REMOVE, REPLACE, AND SEAL EXISTING QUARRY TILE IN SELECTED AREA OF KITCHEN FACILITY. WORK SHALL BE STAGED IN SUCH A MANNER TO ENSURE THAT FOOD PREPARATION SERVICES REMAIN AVAILABLE EACH SUBSEQUENT DAY. CONTRACTOR SHALL COORDINATE STAGING WITH OWNER AND PREPARE A "PLAN OF ACTION" PRIOR TO COMMENCING WORK.

*** APPROXIMATELY 3,400 SQ. FT. OF QUARRY TILE**

(E) PROVIDE TRENCH DRAIN ADJACENT TO WALK-IN FREEZER AND COOLERS. RE:MEP.

ALTERNATE 2

(F) REMOVE AND REPLACE SUSPENDED CEILING GRID AND ACOUSTIC CEILING TILE IN MAIN KITCHEN AREA.

(G) REPLACE ALL 2x4 FLUORESCENT LIGHT ASSEMBLIES IN MAIN KITCHEN AREA, RE: MEP.

*** PROVIDE UNIT PRICES FOR EACH TO SERVE AS REFERENCE IN THE EVENT THAT ADDITIONAL FIXTURES NEED TO BE REPLACED.**

(H) REPLACE ALL 2x2 HVAC AIR DIFFUSERS IN MAIN KITCHEN AREA, RE: MEP.

*** PROVIDE UNIT PRICES FOR EACH TO SERVE AS REFERENCE IN THE EVENT THAT ADDITIONAL DIFFUSERS NEED TO BE REPLACED.**

ALTERNATE 3

(J) REPLACE DOORS, HINGES, STRIKES, AND ASSOCIATED HARDWARE ON EXISTING "AMERICAN PANEL" COOLERS (2) AND FREEZER (1).

(K) REPLACE RE-HEAT WIRING AT THRESHOLDS OF EXISTING COOLERS (2) AND FREEZER (1).

*** $6,000.00 ALLOWANCE FOR ALTERNATE 3.**

ALTERNATE 4

(L) REPLACE SINGLE "EXTERIOR COOLER/FREEZER CONDENSING UNIT WITH TWO (2) CONDENSING UNITS. UNIT 1 SHALL SERVE FREEZER; UNIT 2 SHALL SERVE COOLERS.

" EXISTING CONDENSING UNIT IS A "KAIRAK INNOVATIONS INC. - MODEL NO. MAE2-3E2"

*** $19,000.00 ALLOWANCE FOR ALTERNATE 4.**

CHANIN ENGINEERING LLC
400 Dallas, Suite 102
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:

REGISTERED ARCHITECT
SAMUEL RAYMOND GARCIA
STATE OF TEXAS
#7333

11-15-13

SAM GARCIA ARCHITECT
1335 E. Jasmine Ave.
McAllen, Texas 78501
PH: (956) 212-4930
www.samgarciaarchitect.com

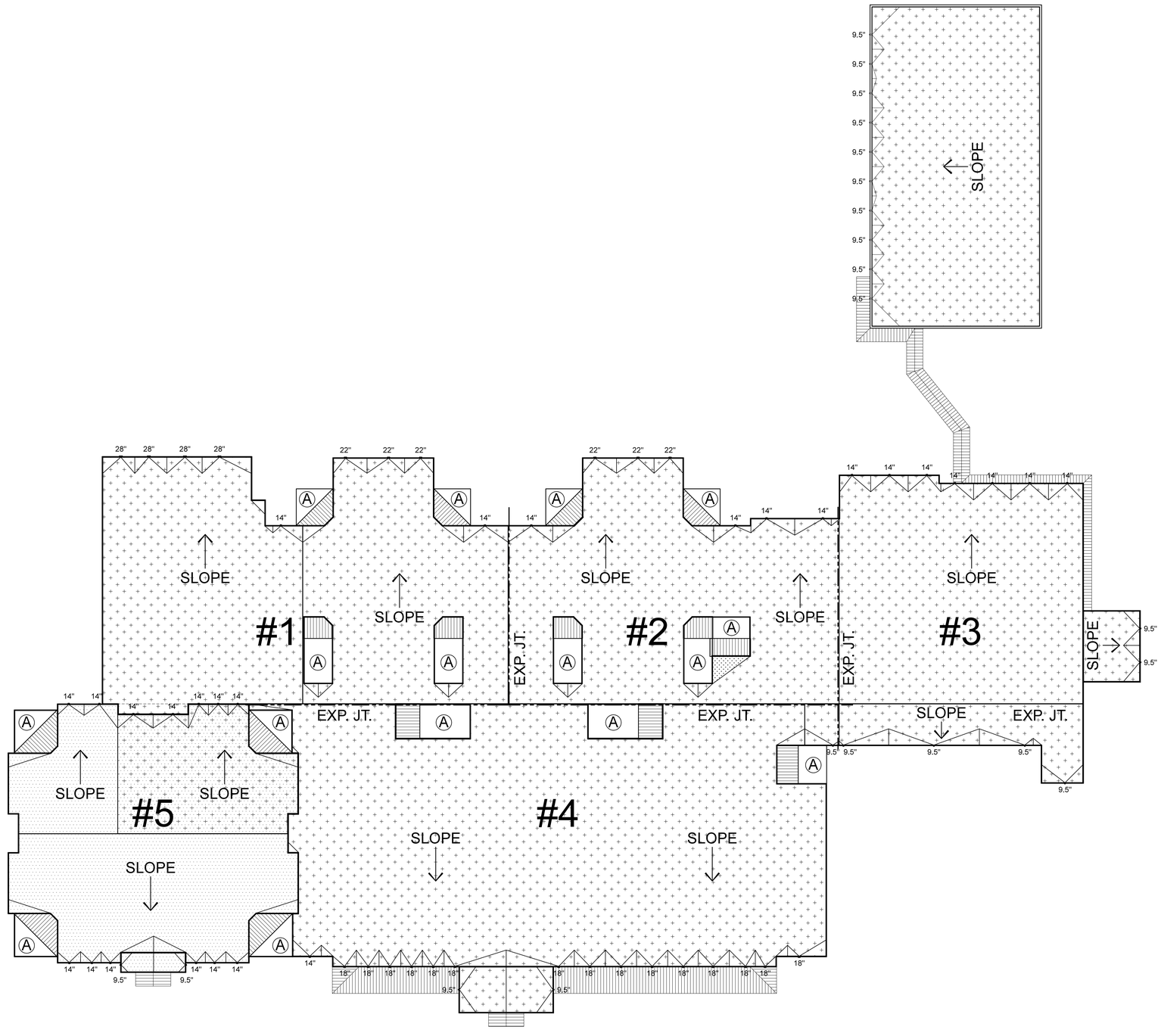
PROJECT:

HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: SRG
CHECKED BY:MC
REVISION:

DRAWING NO:

A1.1



GENERAL NOTES

1. GENERAL CONTRACTOR SHALL ENSURE THAT ALL WORK IS PERFORMED IN CONFORMANCE W/ ALL REQUIREMENTS SET FORTH BY HIDALGO COUNTY LAW ENFORCEMENT OFFICIALS TO ENSURE UNINTERRUPTED OPERATION OF THE ADULT DETENTION CENTER.

2. GENERAL CONTRACTOR SHALL MAKE PROVISIONS TO ENSURE THAT TRADES DO NOT LEAVE UNATTENDED EQUIPMENT AND/OR MATERIAL, TAKING SPECIAL PRECAUTION TO ENSURE THAT **ABSOLUTELY NOTHING** ENTERS INTO THE SECURE FACILITY THROUGH THE OPEN-AIR EXERCISE YARDS. SEE KEY NOTE A.

3. **ADD ONE SAME SIZE EMERGENCY OVERFLOW SCUPPER FOR EACH EXISTING DRAINAGE SCUPPER AS SHOWN.**

KEY NOTE

Ⓐ **ALL OPEN-AIR EXERCISE YARDS SHALL BE SECURELY COVERED W/ TEMPORARY PRIVACY FABRIC MESH COVERING FOR THE DURATION OF CONSTRUCTION, (MUST ALLOW FOR SOME LIGHT PENETRATION TO YARD BELOW).**

LEGEND

PRIMARY ROOF LEVEL

SECONDARY ROOF LEVEL, THAT DRAINS TO PRIMARY LEVEL. ENLARGE PASS-THROUGH SCUPPERS

SECONDARY ROOF LEVEL

N ←

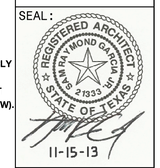
ROOF ZONES

1" = 40'-0"

1

CHANIN ENGINEERING LLC
400 Nolana, Suite G
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:



SAM GARCIA ARCHITECT
1335 E. Jasmine Ave.
McAllen, Texas 78501
PH: (956) 212-4930
www.samgarciaarchitect.com

PROJECT:

HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159

DATE: 11/15/13

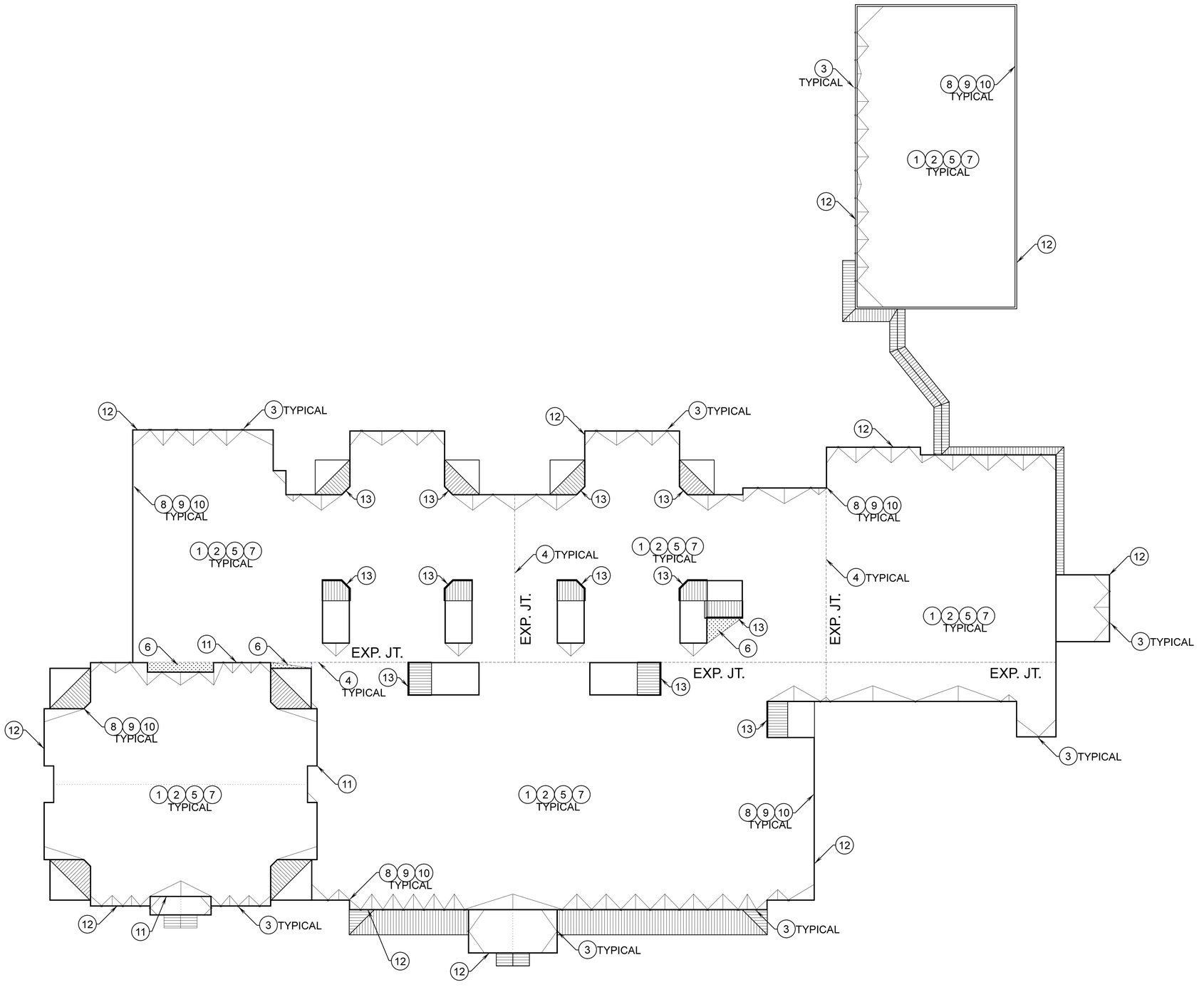
DRAWN BY: SRG

CHECKED BY:MC

REVISION:

DRAWING NO:

A1.2



ROOF MODIFICATIONS

1" = 40'-0"

1

GENERAL NOTES

1. AT NEW ROOF CURB LOCATIONS, PROVIDE CRICKETS AT HIGH SIDE TO ENSURE POSITIVE DRAINAGE.

2. PROVIDE CONDENSATE ROOF DRAIN ASSEMBLIES, RE: MEP FOR QUANTITY AND LOCATIONS.

3. RE-SEAL ALL VERTICAL WALL JOINTS AT EXTERIOR WALLS BY REMOVING EXISTING SEALANT & BACKER ROD & REPLACING W/ NEW ON BOTH THE OUTER AND INNER SURFACES. RE: 6/A2.1

KEY NOTES

(1) PERFORM THERMOCORE ® INFRARED SCAN OF ALL ROOF AREAS. IDENTIFY AND MARK ALL WET OR DAMP MATERIALS AND REPLACE AS SPECIFIED.

(2) RAISE ALL EXISTING MECHANICAL CURB HEIGHTS AS REQUIRED TO MEET MINIMUM HEIGHT REQUIREMENTS (8" MINIMUM CLEAR HEIGHT ABOVE ROOF SURFACE) AND PROVIDE APPROPRIATE COUNTERFLASHING AS NEEDED. CO-ORDINATE WITH MECHANICAL CONTRACTOR TO ENSURE NEW CURBS ARE OF THE PROPER HEIGHT. RE: MEP DRAWINGS & SPECS. FOR ADDITIONAL DETAILS

(3) INSTALL ONE ADDITIONAL THRU-WALL OVERFLOW SCUPPER FOR EACH EXISTING PRIMARY SCUPPER TO COMPLY WITH DRAINAGE REQUIREMENTS AS PER CODE. PROVIDE PRE-FINISHED ESCUTCHEON PLATES AROUND THE NEW OVERFLOW SCUPPERS ON THE EXTERIOR WALL FACE.

NOTE: THE BOTTOM OF NEW OVERFLOW SCUPPERS MUST BE AT LEAST 2' BUT NO MORE THAN 4" ABOVE THE BOTTOM OF THE PRIMARY DRAINAGE SCUPPERS.

(4) PROVIDE ADDITIONAL WOOD BLOCKING AT EXPANSION JOINTS AS REQUIRED TO INSTALL RAISED EXPANSION JOINT CURBS.

(5) SPUD AND REMOVE ALL GRAVEL SURFACING FROM ROOF. REPAIR ROOF MEMBRANE DAMAGE AS REQUIRED TO MAINTAIN A WATERTIGHT ROOF SYSTEM DURING THE ROOF RE-COVER PROCESS. STOCKPILE GRAVEL ON PREMISES AS PER OWNER'S DIRECTION, TO BE DETERMINED AT PRE-CONSTRUCTION MEETING.

(6) INSTALL ADDITIONAL CRICKET INSULATION AS NEEDED TO ENSURE POSITIVE DRAINAGE.

(7) INSTALL ROOF RE-COVER SYSTEM AS SPECIFIED.

(8) REMOVE ALL EXISTING BASE FLASHINGS AT WALLS AND CURBS AND INSTALL NEW BASE FLASHING AS SPECIFIED.

(9) REMOVE ALL SHEET METAL FLASHINGS AND INSTALL NEW SHEET METAL FLASHING AT ALL BASE FLASHING AND ROOF PENETRATIONS.

(10) INSTALL NEW THREE COURSE MEMBRANE WATERPROOFING AT PERIMETER PARAPET WALLS. WRAP OVER TOP OF PARAPET AND DOWN OVER NEW COUNTERFLASHING.

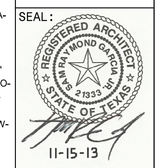
(11) INSTALL NEW ELASTOMERIC WALL COATING ON PROPERLY PREPARED AND PRIMED PREVIOUSLY COATED WALLS ABOVE THE ROOF MEMBRANE. COLOR TO MATCH EXISTING.

(12) REMOVE EXISTING SHEET METAL COPING AND INSTALL NEW PRE-FINISHED SHEET METAL COPING CAP, FLASHING, AND TRIM.

(13) INSTALL NEW PRE-FINISHED GUTTERS AND DOWNSPOUTS AT EAVES OF SLOPED METAL ROOFING ABOVE LOW-SLOPE ROOF MEMBRANE. PROVIDE ONE ADDITIONAL PLY OF CAP SHEET TO SERVE AS SPLASH PAD UNDER EACH NEW DOWNSPOUT.

CHANIN ENGINEERING LLC
400 Jasmine Ave, Suite 102
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:



SAM GARCIA ARCHITECT
1335 E. Jasmine Ave.
McAllen, Texas 78501
PH: (956) 212-4930
www.samgarciaarchitect.com

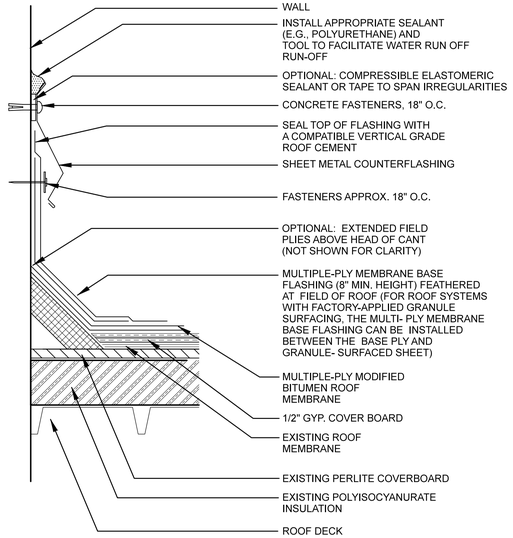
PROJECT:

HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: SRG
CHECKED BY:MC
REVISION:

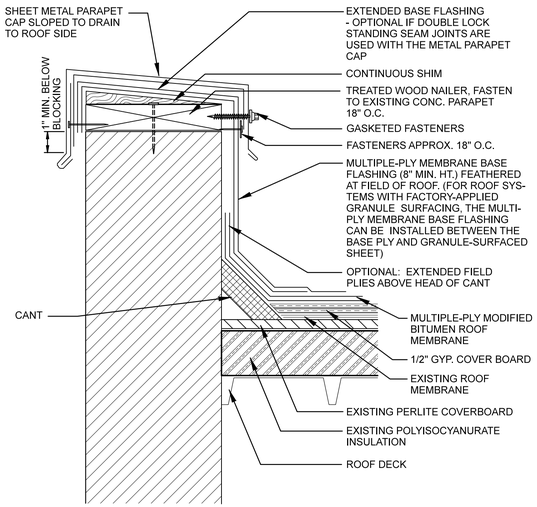
DRAWING NO:

A1.3



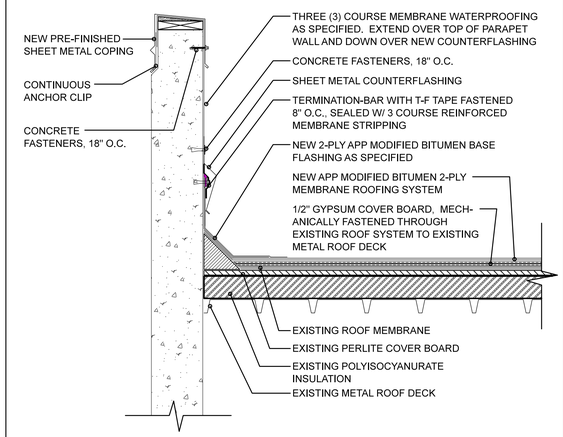
SURFACE MOUNT COUNTER-FLASHING FOR CONCRETE WALLS

N.T.S. 9



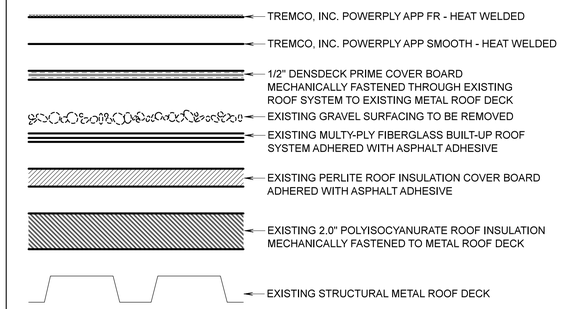
COPING & BASE FLASHING

N.T.S. 7



PARAPET WALL DETAIL

1 1/2" = 1'-0" 4

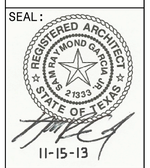


PROPOSED ROOF CONSTRUCTION

3" = 1'-0" 1

CHANIN
ENGINEERING LLC
400 Dallas, Suite 103
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:



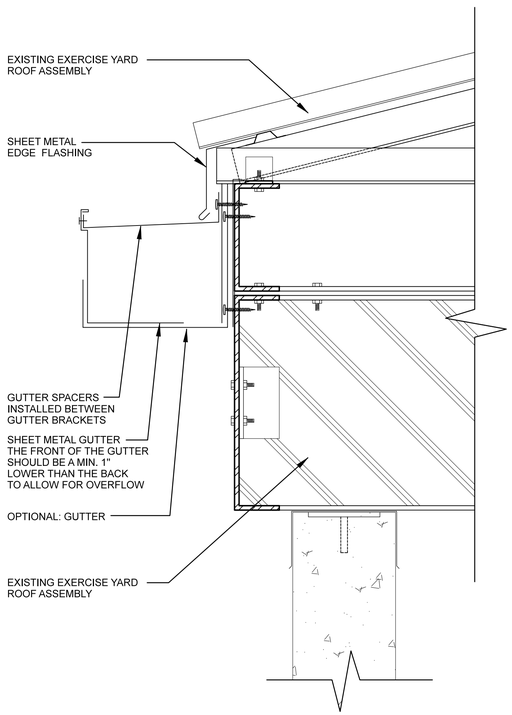
SAM GARCIA ARCHITECT
1325 E. Jasmine Ave.
McAllen, Texas 78501
PH: (956) 212-4930
www.samgarciaarchitect.com

PROJECT:

HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

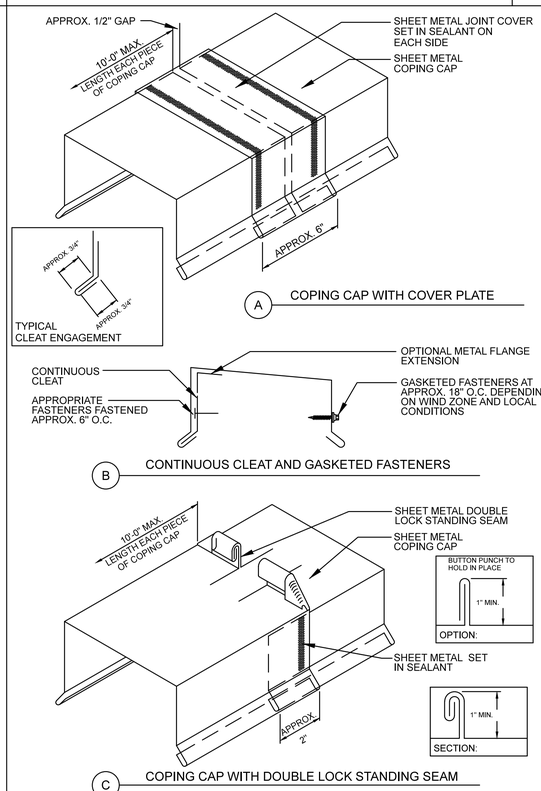
JOB NO.	13159
DATE:	11/15/13
DRAWN BY:	SRG
CHECKED BY:	MC
REVISION:	

DRAWING NO: A2.1



GUTTER DETAIL

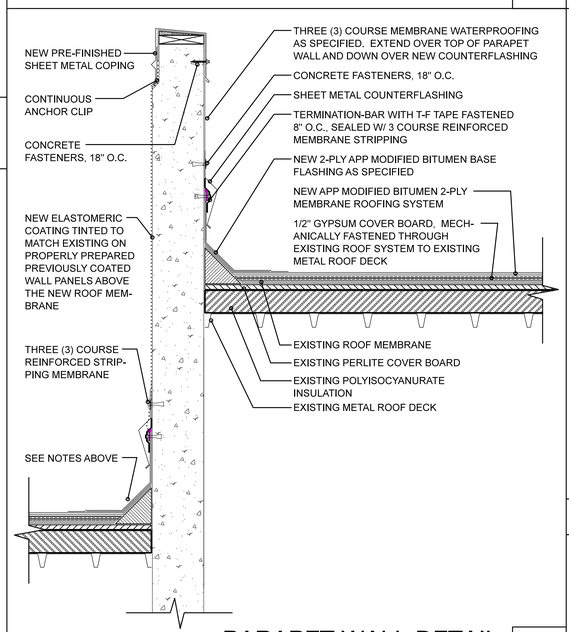
N.T.S. 10



NOTES:
1. CONTINUOUS CLEAT NOT SHOWN FOR CLARITY.
2. COPING JOINERY IS SIMILAR ON BOTH SIDES.
3. REMOVAL OF UNDERLYING METAL HEM MAY HELP FACILITATE PROPER NESTING.

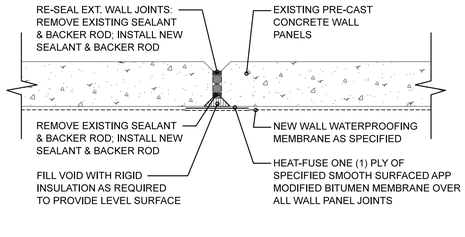
COPING CAP

N.T.S. 8



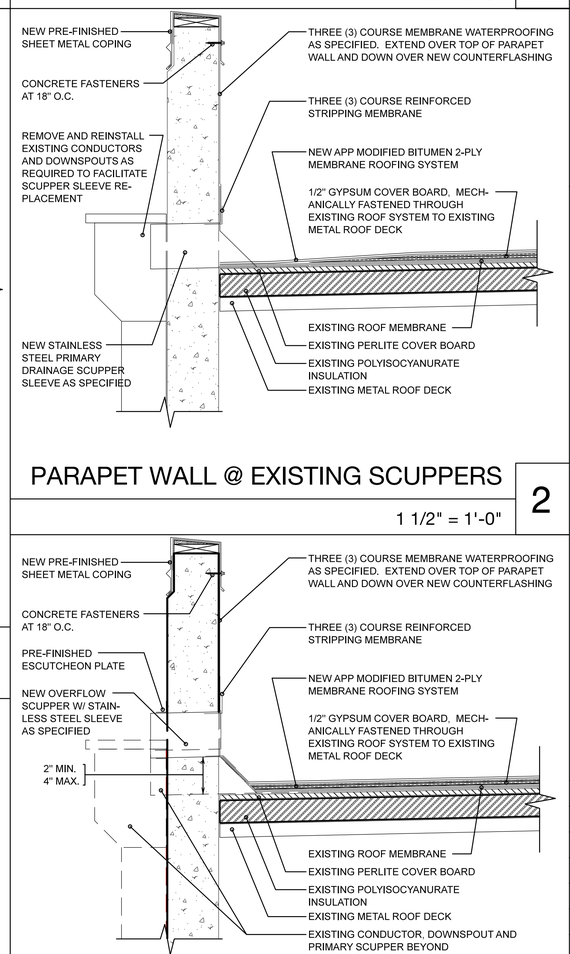
PARAPET WALL DETAIL

1 1/2" = 1'-0" 5



PLAN VIEW PRECAST PANEL JOINT TREATEMENT

1 1/2" = 1'-0" 6

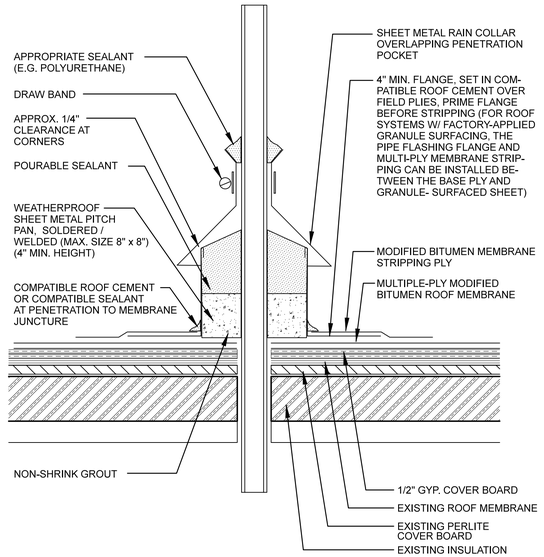


PARAPET WALL @ EXISTING SCUPPERS

1 1/2" = 1'-0" 2

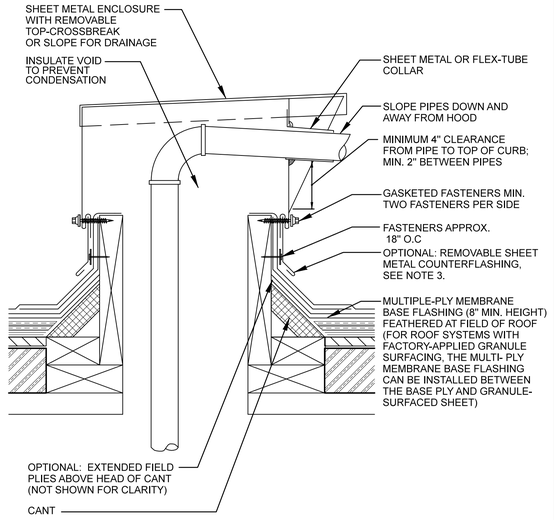
PARAPET WALL DETAIL @ NEW OVERFLOW SCUPPERS

1 1/2" = 1'-0" 3



PENETRATION POCKET

N.T.S. 7

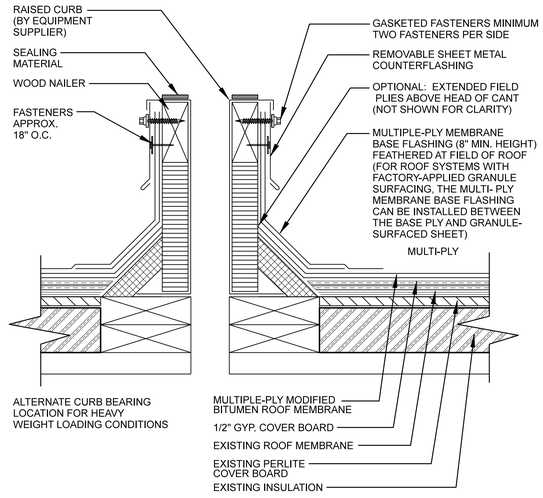


NOTES:

1. THIS DETAIL ILLUSTRATES ANOTHER METHOD OF ELIMINATING PITCH POCKETS AND AN OPTIONAL METHOD OF GROUPING PIPING THAT MUST PENETRATE THE ROOF.
2. MANY MANUFACTURERS OFFER PREFABRICATED BOOTS AND OTHER MATERIALS FOR THIS PURPOSE. SPECIFICS ON THESE PROPRIETARY DESIGNS VARY GREATLY, AND INDIVIDUAL MANUFACTURERS' SPECIFICATIONS SHOULD BE CONSULTED FOR THEIR USE.
3. WHERE THE SHEET METAL ENCLOSURE OVERLAPS THE BASE FLASHING AT LEAST 3". THE REMOVABLE SHEET METAL COUNTERFLASHING IS NOT REQUIRED.

SHEET METAL ENCLOSURE FOR PIPING THROUGH ROOF DECK

N.T.S. 5

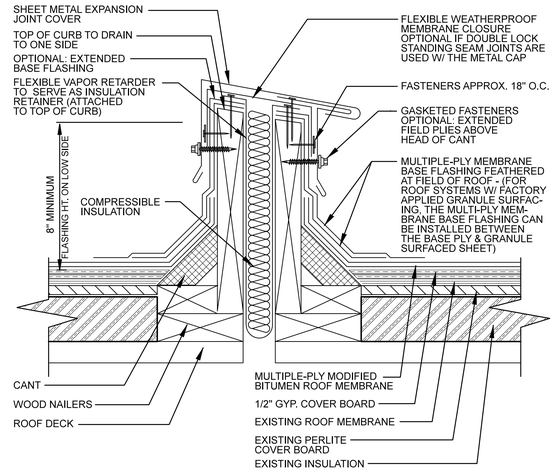


NOTES:

1. THE CURBS, TOP WOOD NAILER, AND SEAL STRIP ARE TO BE SUPPLIED BY THE CURB MANUFACTURER.
2. WHEN POSSIBLE, THE MECHANICAL UNITS SHOULD NOT BE SET UNTIL THE ROOF MEMBRANE AND FLASHING HAVE BEEN INSTALLED.

RAISED CURB DETAIL FOR ROOFTOP AHUs & DUCTS (PREFAB METAL CURB)

N.T.S. 3

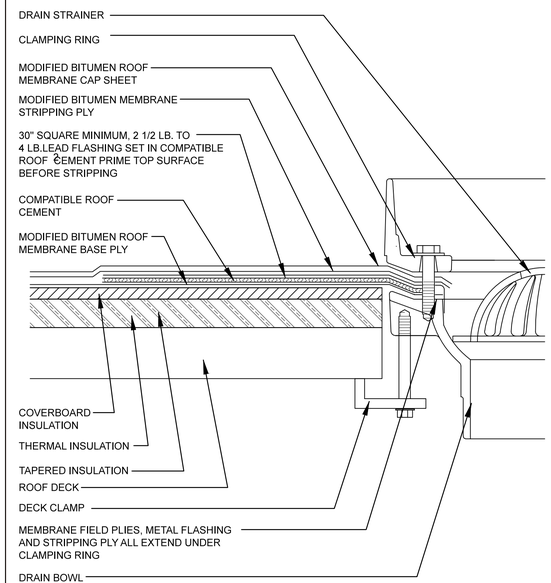


NOTES:

1. THIS DETAIL ALLOWS FOR BUILDING MOVEMENT IN MULTIPLE DIRECTIONS.
2. FLASHING REQUIREMENTS TYPICAL FOR BOTH SIDES OF EXPANSION JOINT.

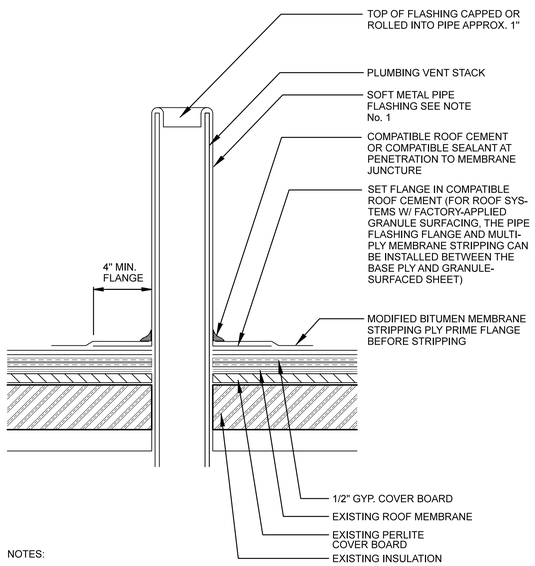
EXPANSION JOINT W/ METAL COVER

N.T.S. 1



MECHANICAL DRAIN FLASHING

N.T.S. 8

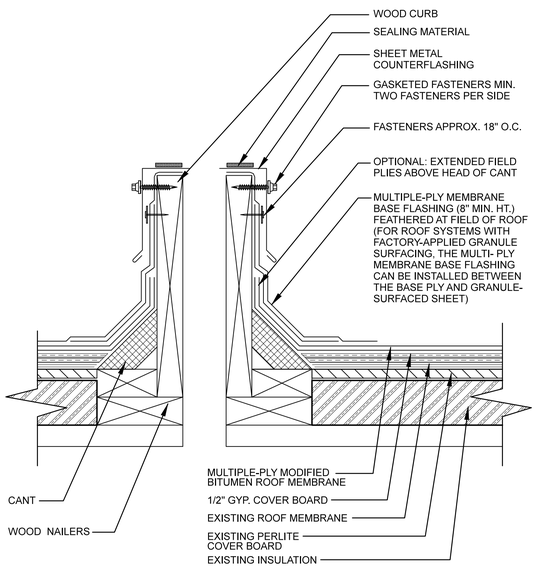


NOTES:

1. SOFT METAL PIPE FLASHING: SHEET LEAD; MINIMUM OF 2 1/2 LB. PER SQUARE FOOT - PRECAUTIONS SHOULD BE TAKEN NOT TO DAMAGE THE SHEET LEAD WHEN USING HEAT-WELDED APPLICATION.
2. IF USING COPPER FLASHING OVER AN IRON OR STEEL PIPE, INSERT A SEPARATOR SHEET (E.G., ASPHALT- SATURATED ROOFING FELT), WRAPPED AROUND PIPE, TO SEPARATE THE COPPER FLASHING FROM DIRECT CONTACT WITH PIPE, TO REDUCE GALVANIC ACTION.
3. VENT STACKS AND OTHER PIPES SHOULD HAVE A MINIMUM OF 12 INCHES OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.

PLUMBING VENT

N.T.S. 6



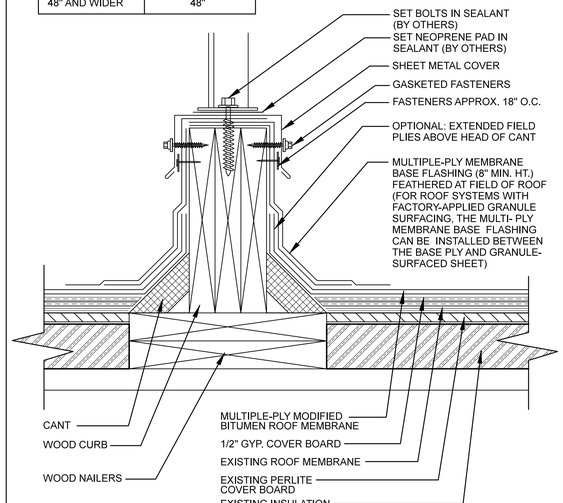
NOTES:

1. WHEN POSSIBLE, THE MECHANICAL UNITS SHOULD NOT BE SET UNTIL THE ROOF MEMBRANE AND FLASHING HAVE BEEN INSTALLED.

RAISED CURB DETAIL FOR ROOFTOP AHUs & DUCTS (SITE-BUILT WOOD CURB)

N.T.S. 4

WIDTH OF EQUIPMENT	HEIGHT OF LEGS
UP TO 24"	24"
24" TO 48"	36"
48" AND WIDER	48"



EQUIPMENT SUPPORT CURB

N.T.S. 2

CHANIN ENGINEERING LLC
400 Dallas, Suite 19
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:

REGISTERED ARCHITECT SAM RAYMOND GARCIA 17333 STATE OF TEXAS

11-15-13

SAM GARCIA ARCHITECT
1325 E. Jasmine Ave.
McAllen, Texas 78501
PH: (956) 212-4930
www.samgarciaarchitect.com

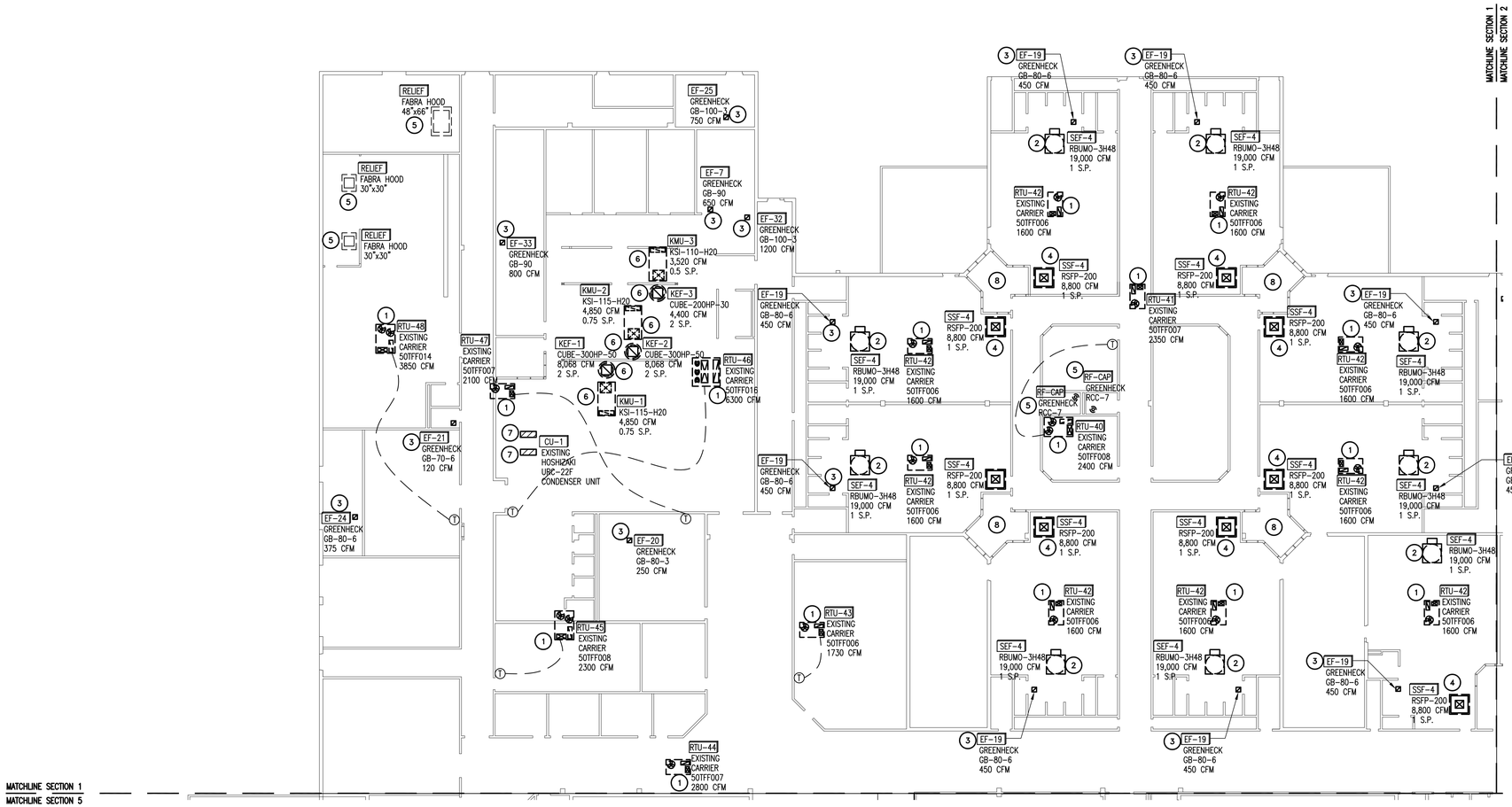
PROJECT:

HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: SRG
CHECKED BY:MC
REVISION:

DRAWING NO:

A2.2



M.E.P. GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

GENERAL NOTES:

A. REFER TO SCHEDULE SHEET FOR ADDITIONAL GENERAL NOTES.

B. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ACCESS CLEARANCES FOR ALL MECHANICAL EQUIPMENT.

C. MECHANICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL HVAC SYSTEMS WITH THE OWNER PRIOR TO THE DISRUPTION OF HVAC SERVICE TO THE FACILITY.

D. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ANY ADDITIONAL DUCTWORK REQUIRED TO ACCOMODATE NEW ROOF MOUNTED UNITS.

E. MECHANICAL CONTRACTOR SHALL REPLACE EXISTING THERMOSTATS/SENSORS WITH NEW, RE-USE EXISTING CONTROL WIRING.

F. ROOF CURBS SHALL BE GALVANIZED STEEL WITH MITERED AND WELDED CORNERS FURNISHED WITH WOOD NAILER AND 1-1/2-INCH THICK RIGID FIBERGLASS INSULATION ADHERED TO INSIDE WALL. SIZE AS REQUIRED TO SUIT ROOF OPENING AND EQUIPMENT BASE. SECURE ALL EQUIPMENT TO ROOF CURBS WITH CADMIUM PLATED HARDWARE.

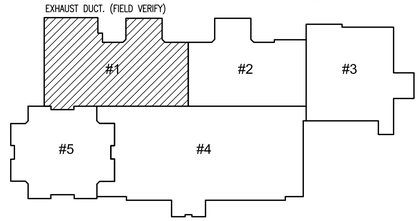
G. NEW ROOFTOP UNITS SHALL BE BALANCED TO THE AIR VOLUMES SHOWN ON THE ROOFTOP UNIT SCHEDULE. REFER TO SPECIFICATIONS.

H. EXISTING EQUIPMENT MODELS SHOWN ARE FROM GREENHECK.

I. REFER TO PLUMBING PLAN FOR NEW ROOF TOP UNIT FOOT PRINT.

KEY NOTES:

1. EXISTING ROOF TOP UNIT TO BE REMOVED AND REPLACED WITH NEW. REFER TO MECHANICAL SCHEDULES FOR UNIT PERFORMANCE. EXISTING ASSOCIATED DUCTWORK, CONTROLS WIRING, AND POWER SHALL REMAIN FOR RE-USE. FURNISH UNIT WITH NEW CURB ADAPTER.
2. EXISTING SMOKE EXHAUST TO BE REMOVED AND REUSED AND SHALL BE PROVIDE WITH NEW ROOF CURB AND MOTORIZED SMOKE DAMPER EQUAL TO A GREENHECK MODEL "SMD-201", INTERLOCK DAMPER WITH FIRE ALARM SYSTEM SUCH THAT THE DAMPER OPENS WHEN FAN IS ENERGIZED. ROOF CURB HEIGHT SHALL BE MINIMUM 8-INCHES ABOVE FINISHED ROOF LEVEL, (MINIMUM 14-INCH ROOF CURB). COORDINATE SIZE OF ROOF CURB WITH ROOFING CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
3. EXISTING GENERAL EXHAUST FAN TO BE REMOVED AND REUSED AND SHALL BE PROVIDE WITH NEW 14-INCH ROOF CURB. ROOF CURB HEIGHT SHALL BE A MINIMUM OF 8-INCHES ABOVE FINISHED ROOF LEVEL, (MINIMUM 14-INCH ROOF CURB). COORDINATE SIZE OF ROOF CURB WITH ROOFING CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
4. EXISTING SMOKE SUPPLY FAN TO BE REMOVED AND REUSED AND SHALL BE PROVIDE WITH NEW ROOF CURB AND MOTORIZED DAMPER EQUAL TO A GREENHECK MODEL VCD-20. EXISTING DAMPERS SHALL BE REMOVED AND RETURNED TO THE OWNER. INTERLOCK DAMPER WITH FIRE ALARM SYSTEM SUCH THAT THE DAMPER OPENS WHEN FAN IS ENERGIZED.
5. EXISTING ROOF HOOD TO BE REMOVED AND REUSED AND SHALL BE PROVIDE WITH NEW 14-INCH ROOF CURB. ROOF CURB HEIGHT SHALL BE A MINIMUM OF 8-INCHES ABOVE FINISHED ROOF LEVEL, (MINIMUM 14-INCH ROOF CURB). COORDINATE SIZE OF ROOF CURB WITH ROOFING CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
6. EXISTING KITCHEN FAN TO BE REMOVED AND REUSED AND SHALL BE PROVIDE WITH NEW 14-INCH ROOF CURB. ROOF CURB HEIGHT SHALL BE A MINIMUM OF 8-INCHES ABOVE FINISHED ROOF LEVEL, (MINIMUM 14-INCH ROOF CURB). COORDINATE SIZE OF ROOF CURB WITH ROOFING CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
7. REMOVE EXISTING SUPPORTS SERVING EXISTING REFRIGERATION CONDENSERS. PROVIDE NEW ROOF EQUIPMENT SUPPORTS EQUAL TO A GREENHECK MODEL "CESR" (GALVANIZED STEEL WITH 6-INCH WIDTH AND 14-INCH HEIGHT). FURNISH AND INSTALL NEW UNISTRUT SYSTEM SPANNING FROM EACH SUPPORT AND MOUNT CONDENSERS. EXTEND EXISTING REFRIGERANT LINES AS REQUIRED TO ACCOMODATE NEW LOCATION. FURNISH AND INSTALL NEW INSULATION AND JACKET ONTO EXTERIOR PORTION OF REFRIGERANT LINES.
8. THERMOSTATS SERVING HOUSING UNITS ARE LOCATED IN GUARD OFFICE. ASSOCIATED REMOTE TEMPERATURE SENSORS ARE LOCATED IN ASSOCIATED EXHAUST DUCT. (FIELD VERIFY)



NORTH

A MECHANICAL PLAN
SCALE: 1/16" = 1'-0" AREA #1

CHANIN
ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-3421 FAX: (956) 687-3211
TBPE FIRM REG. NUMBER F-9369

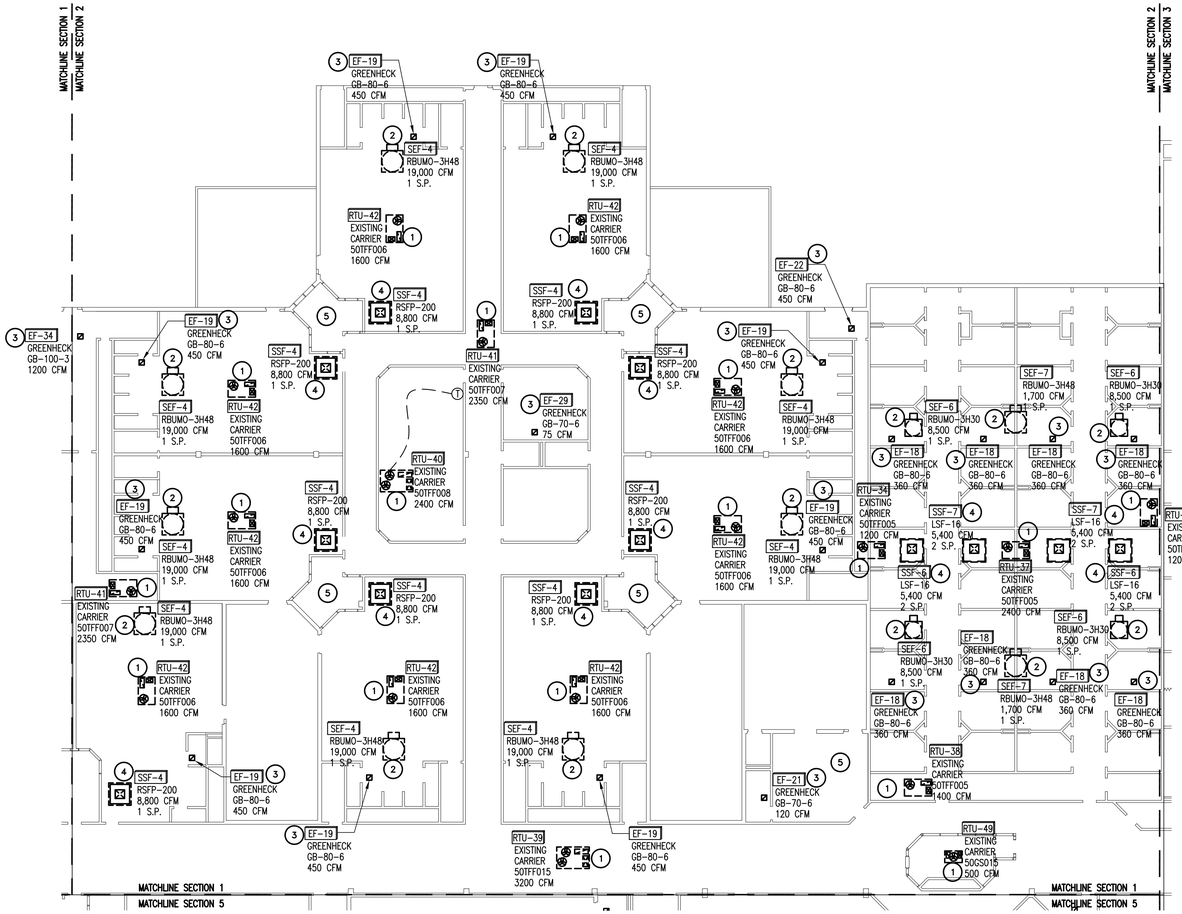
SEAL:
STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED
PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: L.S.
CHECKED BY:J.P.
REVISION:

DRAWING NO:
M1.0



NORTH

A MECHANICAL PLAN

SCALE: 1/16" = 1'-0" AREA #2

M.E.P. GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

GENERAL NOTES:

A. REFER TO SCHEDULE SHEET FOR ADDITIONAL GENERAL NOTES.

B. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ACCESS CLEARANCES FOR ALL MECHANICAL EQUIPMENT.

C. MECHANICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL HVAC SYSTEMS WITH THE OWNER PRIOR TO THE DISRUPTION OF HVAC SERVICE TO THE FACILITY.

D. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ANY ADDITIONAL DUCTWORK REQUIRED TO ACCOMODATE NEW ROOF MOUNTED UNITS.

E. MECHANICAL CONTRACTOR SHALL REPLACE EXISTING THERMOSTATS/SENSORS WITH NEW, RE-USE EXISTING CONTROL WIRING.

F. ROOF CURBS SHALL BE GALVANIZED STEEL WITH MITERED AND WELDED CORNERS FURNISHED WITH WOOD NAILER AND 1-1/2-INCH THICK RIGID FIBERGLASS INSULATION ADHERED TO INSIDE WALL. SIZE AS REQUIRED TO SUIT ROOF OPENING AND EQUIPMENT BASE. SECURE ALL EQUIPMENT TO ROOF CURBS WITH CADMIUM PLATED HARDWARE.

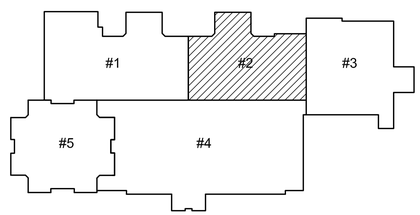
G. NEW ROOFTOP UNITS SHALL BE BALANCED TO THE AIR VOLUMES SHOWN ON THE ROOFTOP UNIT SCHEDULE. REFER TO SPECIFICATIONS.

H. EXISTING EQUIPMENT MODELS SHOWN ARE FROM GREENHECK.

I. REFER TO PLUMBING PLAN FOR NEW ROOF TOP UNIT FOOT PRINT.

KEY NOTES:

1. EXISTING ROOF TOP UNIT TO BE REMOVED AND REPLACED WITH NEW. REFER TO MECHANICAL SCHEDULES FOR UNIT PERFORMANCE. EXISTING ASSOCIATED DUCTWORK, CONTROLS WIRING, AND POWER SHALL REMAIN FOR RE-USE. FURNISH UNIT WITH NEW CURB ADAPTER.
2. EXISTING SMOKE EXHAUST FAN SHALL BE PROVIDED WITH NEW ROOF CURB AND MOTORIZED SMOKE DAMPER EQUAL TO A GREENHECK MODEL "SMD-201". INTERLOCK DAMPER WITH FIRE ALARM SYSTEM SUCH THAT THE DAMPER OPENS WHEN FAN IS ENERGIZED. ROOF CURB HEIGHT SHALL BE MINIMUM 8-INCHES ABOVE FINISHED ROOF LEVEL, (MINIMUM 14-INCH ROOF CURB). COORDINATE SIZE OF ROOF CURB WITH ROOFING CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
3. EXISTING GENERAL EXHAUST FAN TO BE REMOVED AND REUSED AND SHALL BE PROVIDE WITH NEW 14-INCH ROOF CURB. ROOF CURB HEIGHT SHALL BE A MINIMUM OF 8-INCHES ABOVE FINISHED ROOF LEVEL, (MINIMUM 14-INCH ROOF CURB). COORDINATE SIZE OF ROOF CURB WITH ROOFING CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
4. EXISTING SMOKE SUPPLY FAN TO BE REMOVED AND REUSED AND SHALL BE PROVIDE WITH NEW ROOF CURB AND MOTORIZED DAMPER EQUAL TO A GREENHECK MODEL VCD-20. EXISTING DAMPERS SHALL BE REMOVED AND RETURNED TO THE OWNER. INTERLOCK DAMPER WITH FIRE ALARM SYSTEM SUCH THAT THE DAMPER OPENS WHEN FAN IS ENERGIZED.
5. THERMOSTATS SERVING HOUSING UNITS ARE LOCATED IN GUARD OFFICE. ASSOCIATED REMOTE TEMPERATURE SENSORS ARE LOCATED IN ASSOCIATED EXHAUST DUCT. (FIELD VERIFY)



CHANIN ENGINEERING LLC
400 Nolana, Suite N24
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
TBPE FIRM REG. NUMBER F-9369

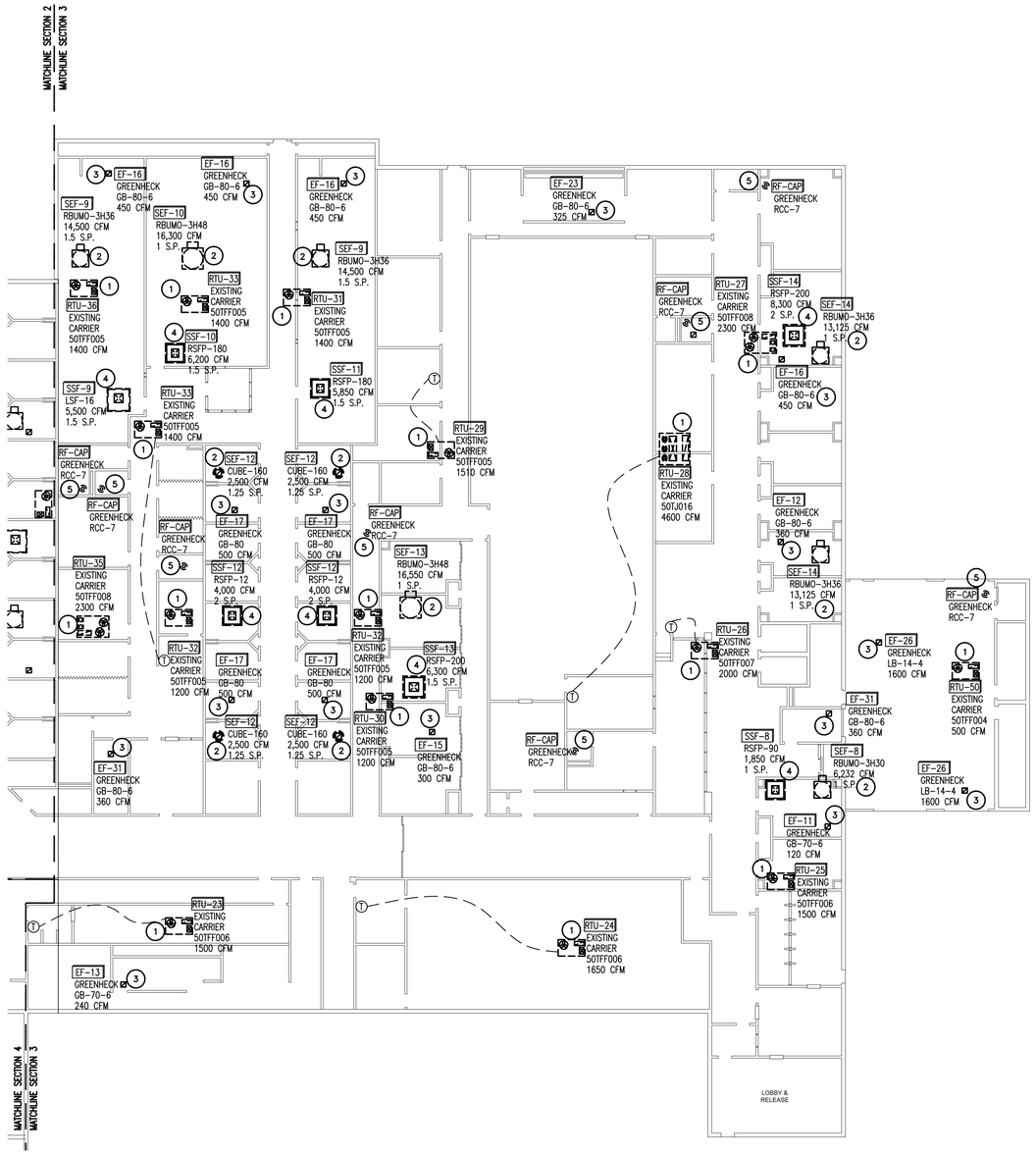
SEAL:

STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: L.S.
CHECKED BY:J.P.
REVISION:
DRAWING NO: M2.0



NORTH

A MECHANICAL PLAN

SCALE: 1/16" = 1'-0" AREA #3

M.E.P. GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

GENERAL NOTES:

A. REFER TO SCHEDULE SHEET FOR ADDITIONAL GENERAL NOTES.

B. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ACCESS CLEARANCES FOR ALL MECHANICAL EQUIPMENT.

C. MECHANICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL HVAC SYSTEMS WITH THE OWNER PRIOR TO THE DISRUPTION OF HVAC SERVICE TO THE FACILITY.

D. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ANY ADDITIONAL DUCTWORK REQUIRED TO ACCOMODATE NEW ROOF MOUNTED UNITS.

E. MECHANICAL CONTRACTOR SHALL REPLACE EXISTING THERMOSTATS/SENSORS WITH NEW, RE-USE EXISTING CONTROL WIRING.

F. ROOF CURBS SHALL BE GALVANIZED STEEL WITH MITERED AND WELDED CORNERS FURNISHED WITH WOOD NAILER AND 1-1/2-INCH THICK RIGID FIBERGLASS INSULATION ADHERED TO INSIDE WALL. SIZE AS REQUIRED TO SUIT ROOF OPENING AND EQUIPMENT BASE. SECURE ALL EQUIPMENT TO ROOF CURBS WITH CADMIUM PLATED HARDWARE.

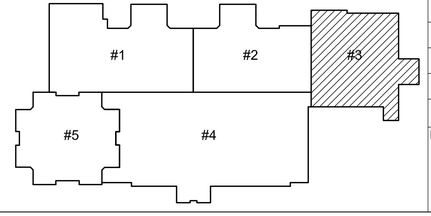
G. NEW ROOFTOP UNITS SHALL BE BALANCED TO THE AIR VOLUMES SHOWN ON THE ROOFTOP UNIT SCHEDULE. REFER TO SPECIFICATIONS.

H. EXISTING EQUIPMENT MODELS SHOWN ARE FROM GREENHECK.

I. REFER TO PLUMBING PLAN FOR NEW ROOF TOP UNIT FOOT PRINT.

KEY NOTES:

1. EXISTING ROOF TOP UNIT TO BE REMOVED AND REPLACED WITH NEW. REFER TO MECHANICAL SCHEDULES FOR UNIT PERFORMANCE. EXISTING ASSOCIATED DUCTWORK, CONTROLS WIRING, AND POWER SHALL REMAIN FOR RE-USE. FURNISH UNIT WITH NEW CURB ADAPTER.
2. EXISTING SMOKE EXHAUST FAN SHALL BE PROVIDED WITH NEW ROOF CURB AND MOTORIZED SMOKE DAMPER EQUAL TO A GREENHECK MODEL "SMD-201". INTERLOCK DAMPER WITH FIRE ALARM SYSTEM SUCH THAT THE DAMPER OPENS WHEN FAN IS ENERGIZED. ROOF CURB HEIGHT SHALL BE MINIMUM 8-INCHES ABOVE FINISHED ROOF LEVEL, (MINIMUM 14-INCH ROOF CURB). COORDINATE SIZE OF ROOF CURB WITH ROOFING CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
3. EXISTING GENERAL EXHAUST FAN TO BE REMOVED AND REUSED AND SHALL BE PROVIDE WITH NEW 14-INCH ROOF CURB. ROOF CURB HEIGHT SHALL BE A MINIMUM OF 8-INCHES ABOVE FINISHED ROOF LEVEL, (MINIMUM 14-INCH ROOF CURB). COORDINATE SIZE OF ROOF CURB WITH ROOFING CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
4. EXISTING SMOKE SUPPLY FAN TO BE REMOVED AND REUSED AND SHALL BE PROVIDE WITH NEW ROOF CURB AND MOTORIZED DAMPER EQUAL TO A GREENHECK MODEL VCD-20. EXISTING DAMPERS SHALL BE REMOVED AND RETURNED TO THE OWNER. INTERLOCK DAMPER WITH FIRE ALARM SYSTEM SUCH THAT THE DAMPER OPENS WHEN FAN IS ENERGIZED.
5. EXISTING ROOF HOOD TO BE REMOVED AND REUSED AND SHALL BE PROVIDE WITH NEW 14-INCH ROOF CURB. ROOF CURB HEIGHT SHALL BE A MINIMUM OF 8-INCHES ABOVE FINISHED ROOF LEVEL, (MINIMUM 14-INCH ROOF CURB). COORDINATE SIZE OF ROOF CURB WITH ROOFING CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
6. THERMOSTATS SERVING HOUSING UNITS ARE LOCATED IN GUARD OFFICE. ASSOCIATED REMOTE TEMPERATURE SENSORS ARE LOCATED IN ASSOCIATED EXHAUST DUCT. (FIELD VERIFY)



CHANIN ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-3421 FAX: (956) 687-3211
TBPE FIRM REG. NUMBER F-9369

SEAL:

STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED
PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:

HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159

DATE: 11/15/13

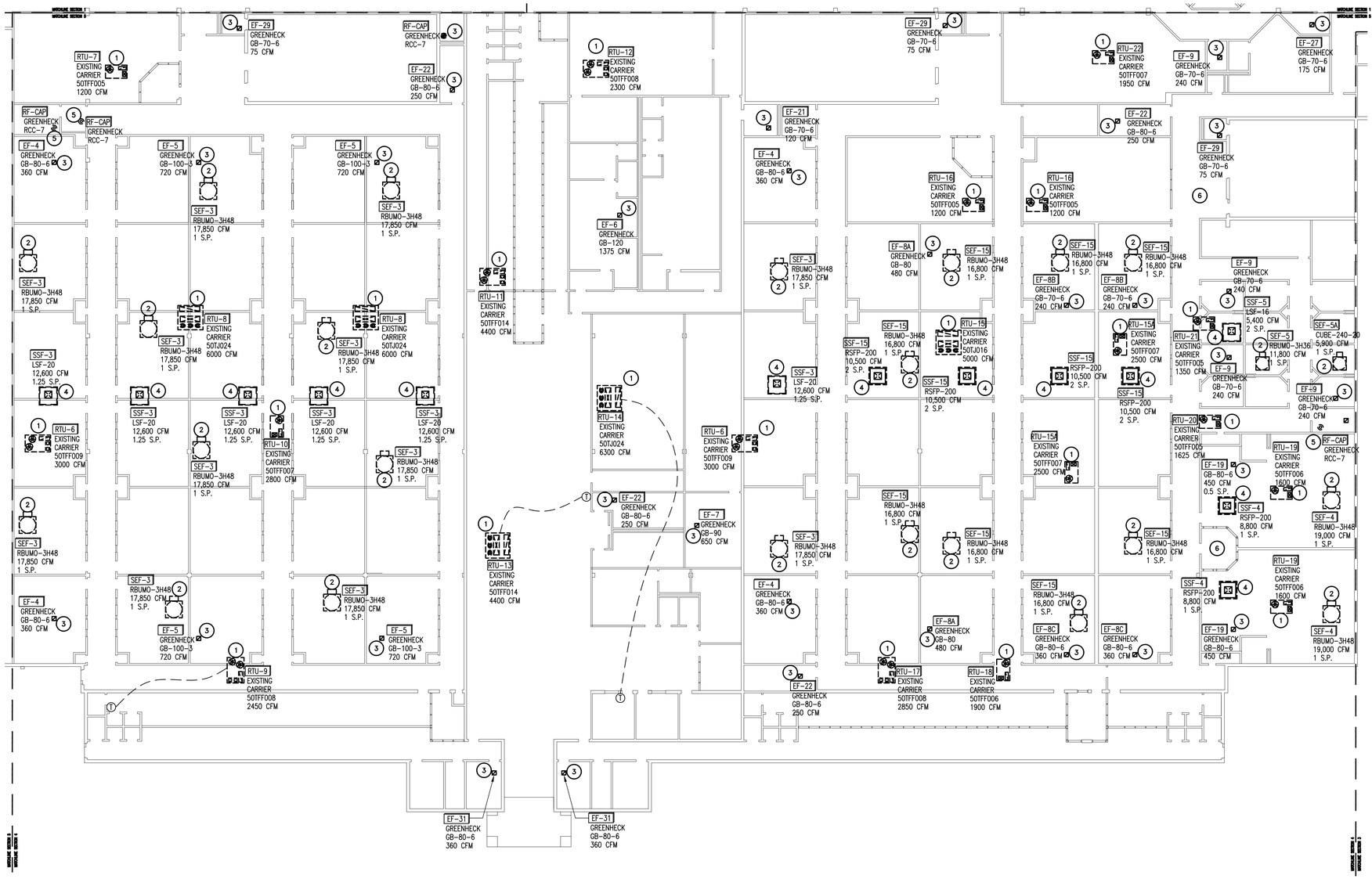
DRAWN BY: L.S.

CHECKED BY:J.P.

REVISION:

DRAWING NO:

M3.0



M.E.P. GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

GENERAL NOTES:

A. REFER TO SCHEDULE SHEET FOR ADDITIONAL GENERAL NOTES.

B. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ACCESS CLEARANCES FOR ALL MECHANICAL EQUIPMENT.

C. MECHANICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL HVAC SYSTEMS WITH THE OWNER PRIOR TO THE DISRUPTION OF HVAC SERVICE TO THE FACILITY.

D. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ANY ADDITIONAL DUCTWORK REQUIRED TO ACCOMODATE NEW ROOF MOUNTED UNITS.

E. MECHANICAL CONTRACTOR SHALL REPLACE EXISTING THERMOSTATS/SENSORS WITH NEW, RE-USE EXISTING CONTROL WIRING.

F. ROOF CURBS SHALL BE GALVANIZED STEEL WITH MITERED AND WELDED CORNERS FURNISHED WITH WOOD NAILER AND 1-1/2-INCH THICK RIGID FIBERGLASS INSULATION ADHERED TO INSIDE WALL. SIZE AS REQUIRED TO SUIT ROOF OPENING AND EQUIPMENT BASE. SECURE ALL EQUIPMENT TO ROOF CURBS WITH CADMIUM PLATED HARDWARE.

G. NEW ROOFTOP UNITS SHALL BE BALANCED TO THE AIR VOLUMES SHOWN ON THE ROOFTOP UNIT SCHEDULE. REFER TO SPECIFICATIONS.

H. EXISTING EQUIPMENT MODELS SHOWN ARE FROM GREENHECK.

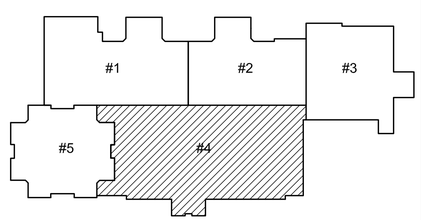
I. REFER TO PLUMBING PLAN FOR NEW ROOF TOP UNIT FOOT PRINT.

KEY NOTES:

1. EXISTING ROOF TOP UNIT TO BE REMOVED AND REPLACED WITH NEW. REFER TO MECHANICAL SCHEDULES FOR UNIT PERFORMANCE. EXISTING ASSOCIATED DUCTWORK, CONTROLS WIRING, AND POWER SHALL REMAIN FOR RE-USE. FURNISH UNIT WITH NEW CURB ADAPTER.
2. EXISTING SMOKE EXHAUST FAN SHALL BE PROVIDED WITH NEW ROOF CURB AND MOTORIZED SMOKE DAMPER EQUAL TO A GREENHECK MODEL "SMD-201". INTERLOCK DAMPER WITH FIRE ALARM SYSTEM SUCH THAT THE DAMPER OPENS WHEN FAN IS ENERGIZED. ROOF CURB HEIGHT SHALL BE MINIMUM 8-INCHES ABOVE FINISHED ROOF LEVEL, (MINIMUM 14-INCH ROOF CURB). COORDINATE SIZE OF ROOF CURB WITH ROOFING CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
3. EXISTING GENERAL EXHAUST FAN SHALL BE PROVIDED WITH NEW 14-INCH ROOF CURB. ROOF CURB HEIGHT SHALL BE A MINIMUM OF 8-INCHES ABOVE FINISHED ROOF LEVEL, (MINIMUM 14-INCH ROOF CURB). COORDINATE SIZE OF ROOF CURB WITH ROOFING CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
4. EXISTING SMOKE SUPPLY FAN SHALL BE PROVIDED WITH NEW ROOF CURB AND MOTORIZED DAMPER EQUAL TO A GREENHECK MODEL VCD-20. EXISTING DAMPERS SHALL BE REMOVED AND RETURNED TO THE OWNER. INTERLOCK DAMPER WITH FIRE ALARM SYSTEM SUCH THAT THE DAMPER OPENS WHEN FAN IS ENERGIZED.
5. EXISTING ROOF HOOD SHALL BE PROVIDED WITH NEW 14-INCH ROOF CURB. ROOF CURB HEIGHT SHALL BE A MINIMUM OF 8-INCHES ABOVE FINISHED ROOF LEVEL, (MINIMUM 14-INCH ROOF CURB). COORDINATE SIZE OF ROOF CURB WITH ROOFING CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
6. THERMOSTATS SERVING HOUSING UNITS ARE LOCATED IN GUARD OFFICE. ASSOCIATED REMOTE TEMPERATURE SENSORS ARE LOCATED IN ASSOCIATED EXHAUST DUCT. (FIELD VERIFY)

NORTH

A MECHANICAL PLAN
SCALE: 1/16" = 1'-0" AREA #4



CHANIN ENGINEERING LLC
400 Nolana, Suite N24
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
TBPE FIRM REG. NUMBER F-9369

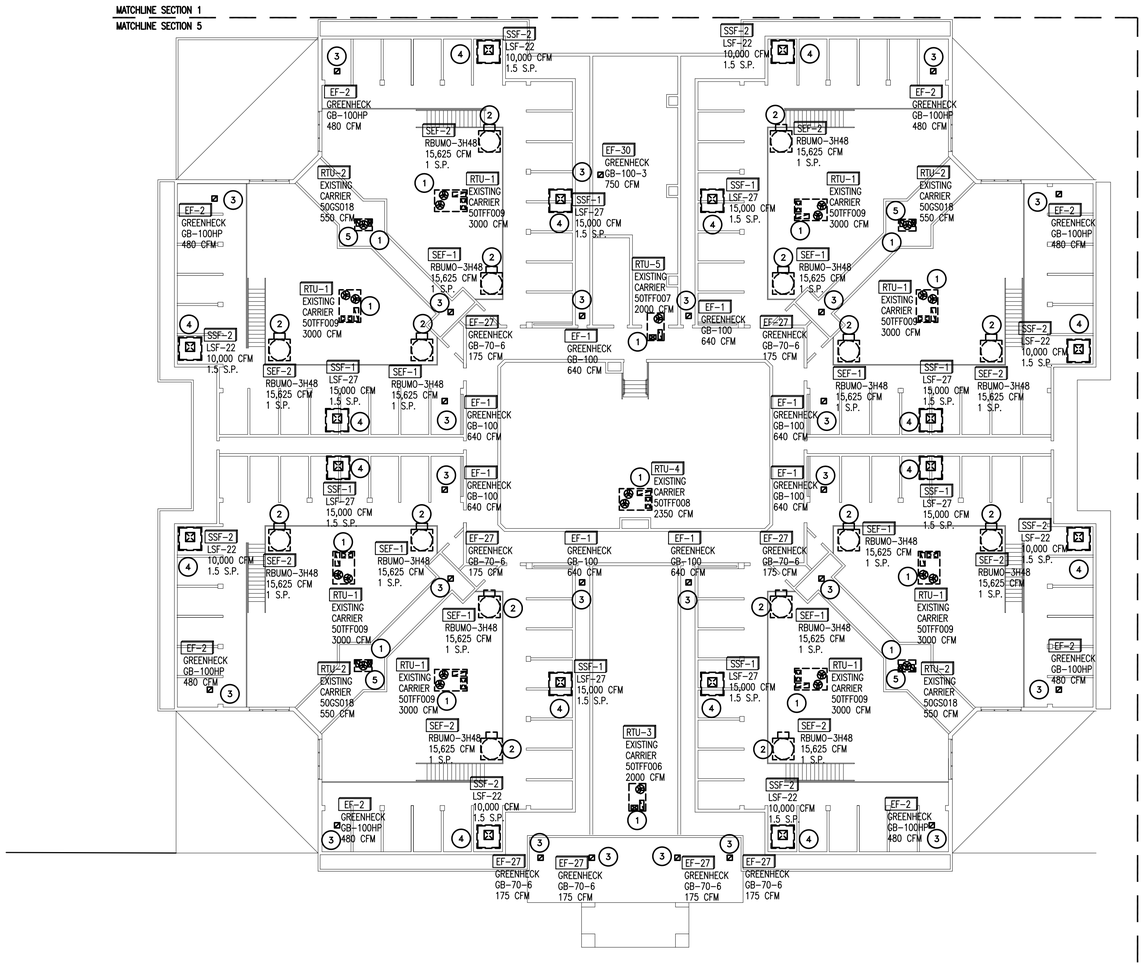
SEAL:
STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: L.S.
CHECKED BY:J.P.
REVISION:

DRAWING NO:
M4.0



NORTH

A 2nd FLOOR MECHANICAL PLAN

SCALE: 1/16" = 1'-0" AREA #5

M.E.P. GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

GENERAL NOTES:

A. REFER TO SCHEDULE SHEET FOR ADDITIONAL GENERAL NOTES.

B. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ACCESS CLEARANCES FOR ALL MECHANICAL EQUIPMENT.

C. MECHANICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL HVAC SYSTEMS WITH THE OWNER PRIOR TO THE DISRUPTION OF HVAC SERVICE TO THE FACILITY.

D. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ANY ADDITIONAL DUCTWORK REQUIRED TO ACCOMODATE NEW ROOF MOUNTED UNITS.

E. MECHANICAL CONTRACTOR SHALL REPLACE EXISTING THERMOSTATS/SENSORS WITH NEW, RE-USE EXISTING CONTROL WIRING.

F. ROOF CURBS SHALL BE GALVANIZED STEEL WITH MITERED AND WELDED CORNERS FURNISHED WITH WOOD NAILER AND 1-1/2-INCH THICK RIGID FIBERGLASS INSULATION ADHERED TO INSIDE WALL. SIZE AS REQUIRED TO SUIT ROOF OPENING AND EQUIPMENT BASE. SECURE ALL EQUIPMENT TO ROOF CURBS WITH CADMIUM PLATED HARDWARE.

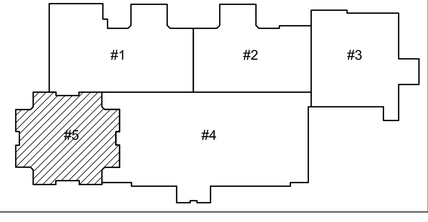
G. NEW ROOFTOP UNITS SHALL BE BALANCED TO THE AIR VOLUMES SHOWN ON THE ROOFTOP UNIT SCHEDULE. REFER TO SPECIFICATIONS.

H. EXISTING EQUIPMENT MODELS SHOWN ARE FROM GREENHECK.

I. REFER TO PLUMBING PLAN FOR NEW ROOF TOP UNIT FOOT PRINT.

KEY NOTES:

1. EXISTING ROOF TOP UNIT TO BE REMOVED AND REPLACED WITH NEW. REFER TO MECHANICAL SCHEDULES FOR UNIT PERFORMANCE. EXISTING ASSOCIATED DUCTWORK, CONTROLS WIRING, AND POWER SHALL REMAIN FOR RE-USE. FURNISH UNIT WITH NEW CURB ADAPTER.
2. EXISTING SMOKE EXHAUST FAN SHALL BE PROVIDED WITH NEW ROOF CURB AND MOTORIZED SMOKE DAMPER EQUAL TO A GREENHECK MODEL "SMD-201". INTERLOCK DAMPER WITH FIRE ALARM SYSTEM SUCH THAT THE DAMPER OPENS WHEN FAN IS ENERGIZED. ROOF CURB HEIGHT SHALL BE MINIMUM 8-INCHES ABOVE FINISHED ROOF LEVEL, (MINIMUM 14-INCH ROOF CURB). COORDINATE SIZE OF ROOF CURB WITH ROOFING CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
3. EXISTING GENERAL EXHAUST FAN SHALL BE PROVIDED WITH NEW 14-INCH ROOF CURB. ROOF CURB HEIGHT SHALL BE A MINIMUM OF 8-INCHES ABOVE FINISHED ROOF LEVEL, (MINIMUM 14-INCH ROOF CURB). COORDINATE SIZE OF ROOF CURB WITH ROOFING CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
4. EXISTING SMOKE SUPPLY FAN SHALL BE PROVIDED WITH NEW ROOF CURB AND MOTORIZED DAMPER EQUAL TO A GREENHECK MODEL VCD-20. EXISTING DAMPERS SHALL BE REMOVED AND RETURNED TO THE OWNER. INTERLOCK DAMPER WITH FIRE ALARM SYSTEM SUCH THAT THE DAMPER OPENS WHEN FAN IS ENERGIZED.
5. THERMOSTATS SERVING HOUSING UNITS ARE LOCATED IN GUARD OFFICE. ASSOCIATED REMOTE TEMPERATURE SENSORS ARE LOCATED IN ASSOCIATED EXHAUST DUCT. (FIELD VERIFY)



CHANIN ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
TBPE FIRM REG. NUMBER F-9369

SEAL:

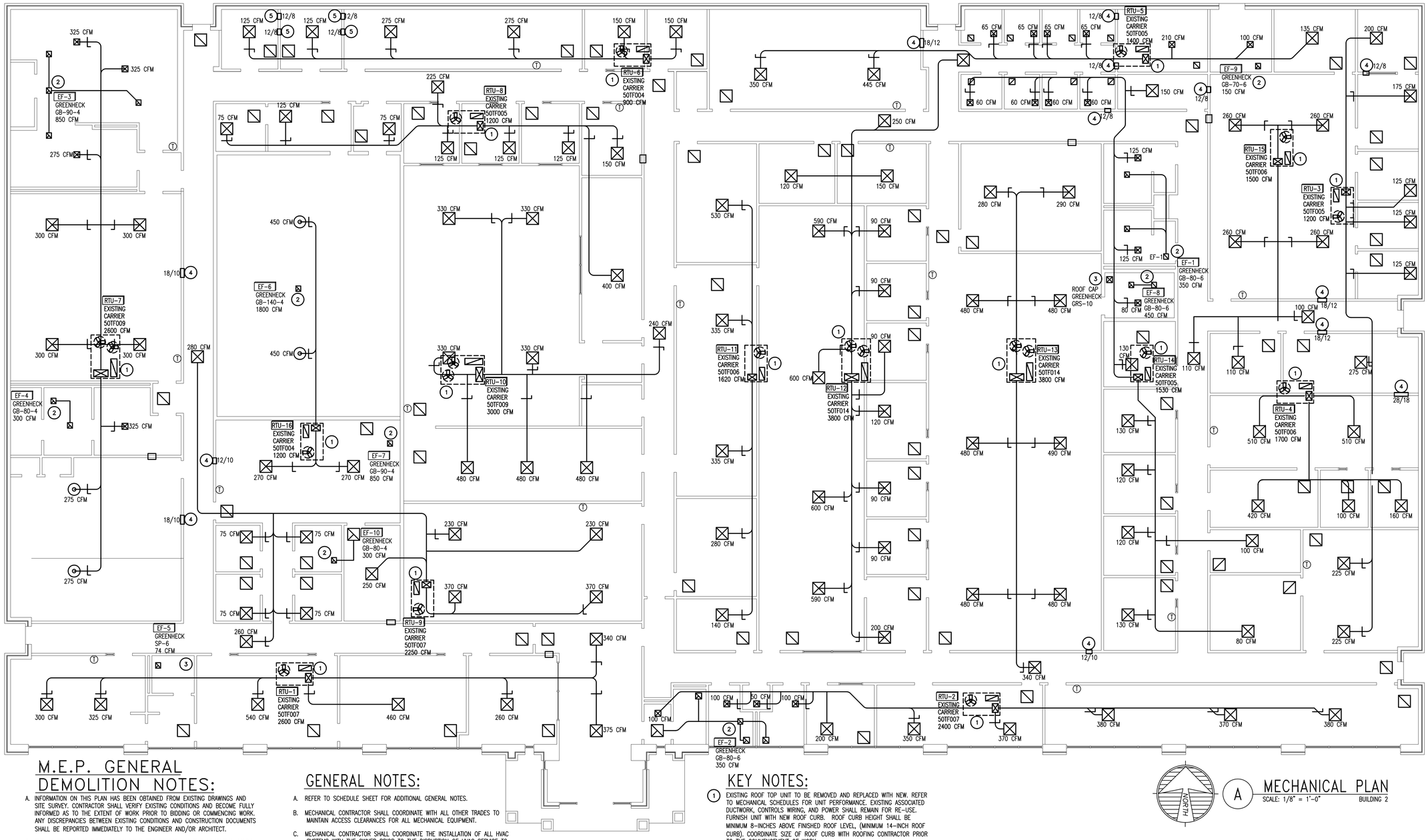
STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: L.S.
CHECKED BY:J.P.
REVISION:

DRAWING NO:
M5.0



A MECHANICAL PLAN
SCALE: 1/8" = 1'-0" BUILDING 2

M.E.P. GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

GENERAL NOTES:

A. REFER TO SCHEDULE SHEET FOR ADDITIONAL GENERAL NOTES.

B. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ACCESS CLEARANCES FOR ALL MECHANICAL EQUIPMENT.

C. MECHANICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL HVAC SYSTEMS WITH THE OWNER PRIOR TO THE DISRUPTION OF HVAC SERVICE TO THE FACILITY.

D. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ANY ADDITIONAL DUCTWORK REQUIRED TO ACCOMODATE NEW ROOF MOUNTED UNITS.

E. MECHANICAL CONTRACTOR SHALL REPLACE EXISTING THERMOSTATS/SENSORS WITH NEW, RE-USE EXISTING CONTROL WIRING.

F. ROOF CURBS SHALL BE GALVANIZED STEEL WITH MITERED AND WELDED CORNERS FURNISHED WITH WOOD NAILER AND 1-1/2-INCH THICK RIGID FIBERGLASS INSULATION ADHERED TO INSIDE WALL. SIZE AS REQUIRED TO SUIT ROOF OPENING AND EQUIPMENT BASE. SECURE ALL EQUIPMENT TO ROOF CURBS WITH CADMIUM PLATED HARDWARE.

G. NEW ROOFTOP UNITS AND ASSOCIATED EXISTING AIR DEVICES SHALL BE BALANCED TO THE AIR VOLUMES SHOWN. REFER TO SPECIFICATIONS.

H. EXISTING EQUIPMENT MODELS SHOWN ARE FROM GREENHECK.

I. REFER TO PLUMBING PLAN FOR NEW ROOF TOP UNIT FOOT PRINT.

KEY NOTES:

1. EXISTING ROOF TOP UNIT TO BE REMOVED AND REPLACED WITH NEW. REFER TO MECHANICAL SCHEDULES FOR UNIT PERFORMANCE. EXISTING ASSOCIATED DUCTWORK, CONTROLS WIRING, AND POWER SHALL REMAIN FOR RE-USE. FURNISH UNIT WITH NEW ROOF CURB. ROOF CURB HEIGHT SHALL BE MINIMUM 8-INCHES ABOVE FINISHED ROOF LEVEL, (MINIMUM 14-INCH ROOF CURB). COORDINATE SIZE OF ROOF CURB WITH ROOFING CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
2. EXISTING GENERAL EXHAUST FAN SHALL BE PROVIDED WITH NEW 14-INCH ROOF CURB. ROOF CURB HEIGHT SHALL BE A MINIMUM OF 8-INCHES ABOVE FINISHED ROOF LEVEL, (MINIMUM 14-INCH ROOF CURB). COORDINATE SIZE OF ROOF CURB WITH ROOFING CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
3. EXISTING ROOF HOOD SHALL BE PROVIDED WITH NEW 14-INCH ROOF CURB. ROOF CURB HEIGHT SHALL BE A MINIMUM OF 8-INCHES ABOVE FINISHED ROOF LEVEL, (MINIMUM 14-INCH ROOF CURB). COORDINATE SIZE OF ROOF CURB WITH ROOFING CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
4. PROVIDE AND INSTALL RETURN AIR OPENING ABOVE CEILING AND FURNISH WITH FIRE SMOKE DAMPER. TIE-IN TO EXISTING FIRE ALARM CONTROL.
5. PROVIDE AND INSTALL RETURN AIR OPENING ABOVE CEILING AND FURNISH WITH FIRE SMOKE DAMPER.

CHANIN ENGINEERING LLC
400 Nolana, Suite N24
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
TBPE FIRM REG. NUMBER F-9369

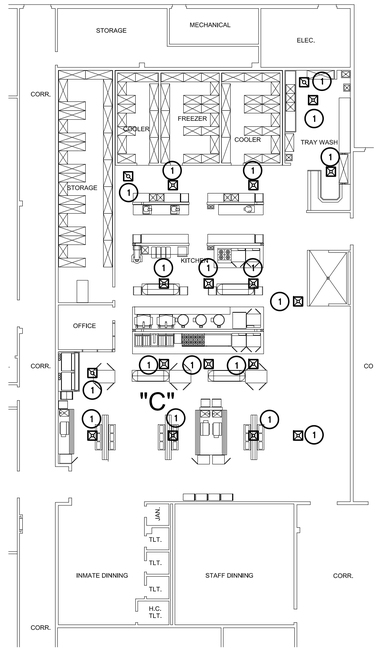
SEAL:
STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9746

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: L.S.
CHECKED BY:J.P.
REVISION:

DRAWING NO:
M6.0

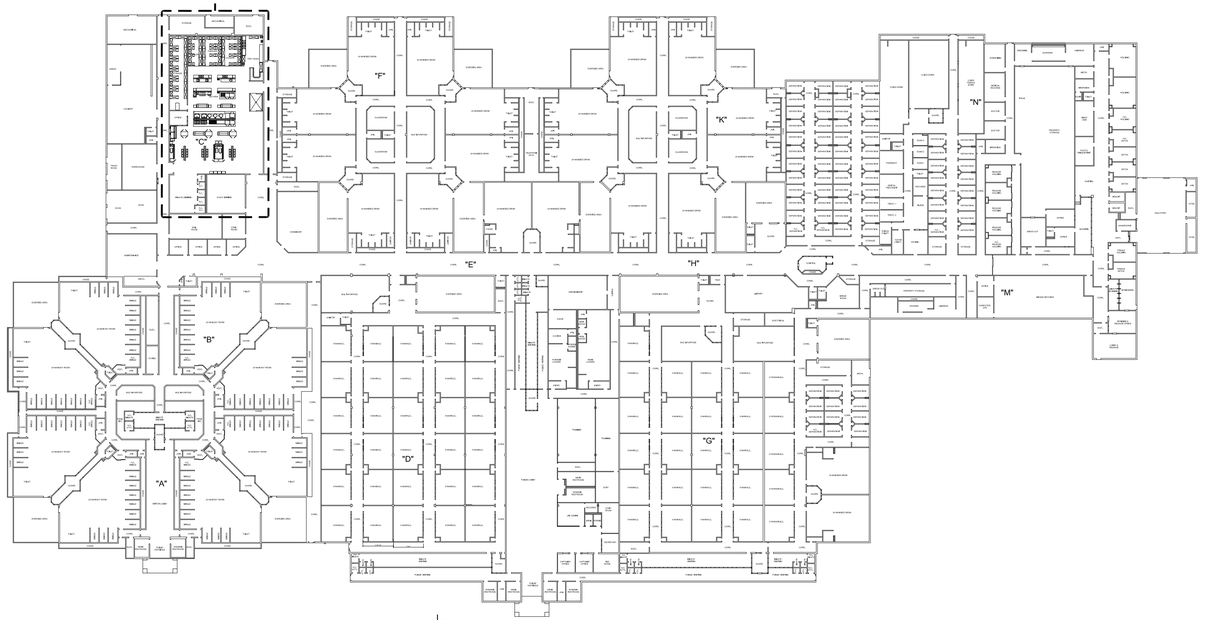


NORTH

B ENLARGED MECHANICAL PLAN

SCALE: 1/16" = 1'-0" ALTERNATE – KITCHEN A.D.C. BLDG

B
M7.0



NORTH

A MECHANICAL PLAN

SCALE: 1" = 50'-0" OVERALL A.D.C. BLDG

M.E.P. GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

GENERAL NOTES:

A. REFER TO SCHEDULE SHEET FOR ADDITIONAL GENERAL NOTES.

B. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ACCESS CLEARANCES FOR ALL MECHANICAL EQUIPMENT.

C. MECHANICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL HVAC SYSTEMS WITH THE OWNER PRIOR TO THE DISRUPTION OF HVAC SERVICE TO THE FACILITY.

D. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ANY ADDITIONAL DUCTWORK REQUIRED TO ACCOMODATE NEW ROOF MOUNTED UNITS.

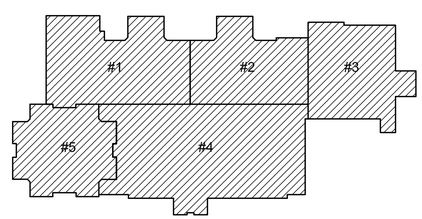
E. MECHANICAL CONTRACTOR SHALL REPLACE EXISTING THERMOSTATS/SENSORS WITH NEW, RE-USE EXISTING CONTROL WIRING.

F. ROOF CURBS SHALL BE GALVANIZED STEEL WITH MITERED AND WELDED CORNERS FURNISHED WITH WOOD NAILER AND 1-1/2-INCH THICK RIGID FIBERGLASS INSULATION ADHERED TO INSIDE WALL. SIZE AS REQUIRED TO SUIT ROOF OPENING AND EQUIPMENT BASE. SECURE ALL EQUIPMENT TO ROOF CURBS WITH CADMIUM PLATED HARDWARE.

G. NEW ROOFTOP UNITS SHALL BE BALANCED TO THE AIR VOLUMES SHOWN ON THE ROOFTOP UNIT SCHEDULE. REFER TO SPECIFICATIONS.

KEY NOTES:

(1) AS AN ALTERNATE, EXISTING SUPPLY AND RETURN AIR DEVICE SHALL BE REPLACED WITH NEW. SUPPLY AIR DEVICES SHALL BE EQUAL TO A TITUS MODEL PAS WITH LAY-IN BORDER AND 12-INCH DIAMETER NECKS. RETURN AIR DEVICES SHALL BE EQUAL TO A TITUS MODEL PAR WITH LAY-IN BORDER. PROVIDE UNIT PRICING FOR EACH AIR DEVICE (TO INCLUDE LABOR) AS OUTLINED IN ARCHITECTURAL SPECIFICATIONS.



CHANIN ENGINEERING LLC
400 Nolana, Suite N24
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
WWW.CHANINENGINEERING.COM
TBPE FIRM REG. NUMBER F-9369

SEAL:

STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED
PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:

HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: L.S.
CHECKED BY:J.P.
REVISION:

DRAWING NO:

M7.0

ROOF TOP UNIT SCHEDULE – ADULT DETENTION CENTER

ROOF TOP UNIT DESIGNATION	RTU-1	RTU-2	RTU-3	RTU-4	RTU-5	RTU-6	RTU-7	RTU-8	RTU-9	RTU-10
SUPPLY CFM	3000	550	2000	2350	2000	3000	1200	6000	2450	2800
OUTSIDE AIR CFM	1000	50	105	380	390	765	330	1485	380	30
EXTERNAL S.P. ("W.G.)	1.5	0.5	0.75	1.5	0.65	0.5	0.5	1.5	1.5	0.75
MOTOR HP.	3	1	2	2	2	2	1	5	2	3
TOTAL CAPACITY (MBH)	122.29	18.39	51.44	70.79	59.56	103.51	49.63	212.12	78.53	77.78
SENSIBLE CAPACITY (MBH)	91.43	14.53	46.99	60.62	51.33	84.84	35.71	171.99	62.29	64.43
ENTERING AIR (DB/WB)°F	82/67	77/64	76/63	79/65	79/65	81/66	81/67	81/66	78/65	75/63
LEAVING AIR (DB/WB)°F	54.3/53.52	52.97/52.43	55.57/54.55	57.17/55.61	56.34/55.35	54.95/54.45	53.83/53.16	55.15/54.38	55.41/54.49	54.43/53.65
CONDENSER AIR (DB)°F	98	98	98	98	98	98	98	98	98	98
HEATER CAPACITY (KW)	20	7.5	10	10	10	20	10	40	10	10
STAGES	2	1	1	1	1	2	1	4	1	1
VOLTAGE/PHASE	480/3ø	208/1ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø
MOCP	40	60	20	25	20	35	20	70	25	25
MANUFACTURER	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON
MODEL	RN-011	RQ-001	RQ-004	RQ-006	RQ-005	RN-009	RQ-004	RN-018	RN-007	RN-007
UNIT WEIGHT (LBS)	1651	771	883	899	898	1700	845	2567	1109	1126
EFFICIENCY EER (SEER)	12.1	15.6	17.4	12.4	17.45	13.8	17.4	12.4	12.6	12.6
REMARKS	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13

REMARKS
1. PROVIDE WITH NEW UNIVERSAL PROGRAMMABLE THERMOSTAT (2-STAGE) WITH AUTO CHANGEOVER AND REMOTE TEMPERATURE SENSOR.
2. PROVIDE WITH SINGLE POINT POWER, DISCONNECT, AND 120-VOLT RECEPTACLE.
3. PROVIDE WITH CURB ADAPTER.
4. PROVIDE WITH HINGED ACCESS DOORS.
5. PROVIDE WITH OUTSIDE AIR HOOD AND 2-POSITION MOTORIZED DAMPER.
6. PROVIDE WITH 6-ROW COIL, MODULATING HOT-GAS REHEAT, AND HUMIDITY CONTROL.
7. PROVIDE WITH CONDENSER COIL HAIL GUARDS.
8. PROVIDE WITH LOW AMBIENT CONTROL TO 35°F.
9. PROVIDE WITH FACTORY APPLIED FULLY DIPPED CONDENSER E-COATING WITH 6,000 HR SALT SPRAY RATING PER ASTM B117-90.
10. EXTERIOR PAINT FINISH SHALL BE CAPABLE WITHSTANDING AT LEAST 2,500 HOURS SALT SPRAY AND FOG ATMOSPHERE PER ASTM B 117-95.
11. PROVIDE UNIT WITH 2-INCH DOUBLE WALL CONSTRUCTION WITH R-13 FOAM INSULATION AND THERMAL BREAK. COMPRESSORS AND CONTROLS SHALL BE HOUSED INSIDE CLIMATE CONTROLLED CABINET.
12. REFER TO SPECIFICATIONS FOR COMPRESSOR REQUIREMENTS.
13. PROVIDE SEPERATE HUMIDITY SENSOR IN RETURN AIR DUCT AND TIE-IN TO DEHUMIDIFICATION CONTROLLER.

ROOF TOP UNIT SCHEDULE – ADULT DETENTION CENTER

ROOF TOP UNIT DESIGNATION	RTU-21	RTU-22	RTU-23	RTU-24	RTU-25	RTU-26	RTU-27	RTU-28	RTU-29	RTU-30
SUPPLY CFM	1350	1950	1500	1650	1500	2000	2300	4600	1510	1200
OUTSIDE AIR CFM	180	510	105	75	150	90	660	300	195	375
EXTERNAL S.P. ("W.G.)	2	1	1	1	1	1	1	1	0.5	0.5
MOTOR HP.	1	2	1	2	1	2	1	5	1	1
TOTAL CAPACITY (MBH)	36.31	70.17	49.41	49.80	49.41	51.44	95.50	127.23	49.44	49.61
SENSIBLE CAPACITY (MBH)	33.43	56.44	39.32	41.73	39.32	46.99	68.60	111.23	41.05	36.95
ENTERING AIR (DB/WB)°F	78/64	81/66	77/64	76/63	77/64	76/63	81/67	76/63	78/64	82/67
LEAVING AIR (DB/WB)°F	56.90/55.57	55.41/54.27	53.98/52.97	53.91/52.89	53.98/53.97	55.77/54.64	54.00/53.19	54.35/53.68	53.57/52.82	53.80/53.13
CONDENSER AIR (DB)°F	98	98	98	98	98	98	98	98	98	98
HEATER CAPACITY (KW)	10	10	10	10	10	10	10	30	10	10
STAGES	1	1	1	1	1	1	1	3	1	1
VOLTAGE/PHASE	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø
MOCP	20	25	20	20	20	20	30	60	20	20
MANUFACTURER	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON
MODEL	RQ-003	RQ-006	RQ-004	RQ-004	RQ-004	RQ-004	RN-008	RN-011	RQ-004	RQ-004
UNIT WEIGHT (LBS)	765	899	845	883	845	883	1138	1717	845	845
EFFICIENCY EER (SEER)	18.2	12.4	17.4	17.4	17.4	17.4	11.9	12.7	17.4	17.4
REMARKS	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13

REMARKS
1. PROVIDE WITH NEW UNIVERSAL PROGRAMMABLE THERMOSTAT (2-STAGE) WITH AUTO CHANGEOVER AND REMOTE TEMPERATURE SENSOR.
2. PROVIDE WITH SINGLE POINT POWER, DISCONNECT, AND 120-VOLT RECEPTACLE.
3. PROVIDE WITH CURB ADAPTER.
4. PROVIDE WITH HINGED ACCESS DOORS.
5. PROVIDE WITH OUTSIDE AIR HOOD AND 2-POSITION MOTORIZED DAMPER.
6. PROVIDE WITH 6-ROW COIL, MODULATING HOT-GAS REHEAT, AND HUMIDITY CONTROL.
7. PROVIDE WITH CONDENSER COIL HAIL GUARDS.
8. PROVIDE WITH LOW AMBIENT CONTROL TO 35°F.
9. PROVIDE WITH FACTORY APPLIED FULLY DIPPED CONDENSER E-COATING WITH 6,000 HR SALT SPRAY RATING PER ASTM B117-90.
10. EXTERIOR PAINT FINISH SHALL BE CAPABLE WITHSTANDING AT LEAST 2,500 HOURS SALT SPRAY AND FOG ATMOSPHERE PER ASTM B 117-95.
11. PROVIDE UNIT WITH 2-INCH DOUBLE WALL CONSTRUCTION WITH R-13 FOAM INSULATION AND THERMAL BREAK. COMPRESSORS AND CONTROLS SHALL BE HOUSED INSIDE CLIMATE CONTROLLED CABINET.
12. REFER TO SPECIFICATIONS FOR COMPRESSOR REQUIREMENTS.
13. PROVIDE SEPERATE HUMIDITY SENSOR IN RETURN AIR DUCT AND TIE-IN TO DEHUMIDIFICATION CONTROLLER.

ROOF TOP UNIT SCHEDULE – ADULT DETENTION CENTER

ROOF TOP UNIT DESIGNATION	RTU-11	RTU-12	RTU-13	RTU-14	RTU-15	RTU-15A	RTU-16	RTU-17	RTU-18	RTU-19	RTU-20
SUPPLY CFM	3600	2300	4400	6300	5000	2500	1200	2850	1900	1600	1625
OUTSIDE AIR CFM	1650	750	420	1125	1275	600	330	380	45	360	30
EXTERNAL S.P. ("W.G.)	0.5	0.75	1	1.5	2	1	0.5	1.5	0.75	1	0.5
MOTOR HP.	3	1	5	5	5	3	1	3	2	1	1
TOTAL CAPACITY (MBH)	183.54	95.65	128.43	210.57	187.89	95.81	49.63	94.86	50.96	52.10	49.26
SENSIBLE CAPACITY (MBH)	126.04	71.05	108.07	170.97	147.95	72.14	35.71	78.08	45.48	42.36	41.18
ENTERING AIR (DB/WB)°F	85/69	82/67	77/64	79/65	81/66	80/66	81/67	78/64	76/63	80/66	75/63
LEAVING AIR (DB/WB)°F	52.37/51.38	53.58/52.98	54.91/54.27	54.72/53.93	54.84/53.68	53.96/53.16	53.83/53.16	53.68/52.83	55.10/54.12	56.63/55.57	53.46/52.67
CONDENSER AIR (DB)°F	98	98	98	98	98	98	98	98	98	98	98
HEATER CAPACITY (KW)	20	10	20	40	30	10	10	10	10	10	10
STAGES	2	1	2	4	3	1	1	1	1	1	1
VOLTAGE/PHASE	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø
MOCP	45	30	40	70	60	30	20	35	20	20	20
MANUFACTURER	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON
MODEL	RN-015	RN-008	RN-011	RN-018	RN-015	RN-008	RQ-004	RN-008	RQ-004	RQ-004	RQ-004
UNIT WEIGHT (LBS)	1866	1145	1711	2567	1830	1166	845	1169	883	845	845
EFFICIENCY EER (SEER)	11.6	12.5	12.7	12.4	11.6	12.5	17.4	11.9	17.4	17.4	17.4
REMARKS	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13

REMARKS
1. PROVIDE WITH NEW UNIVERSAL PROGRAMMABLE THERMOSTAT (2-STAGE) WITH AUTO CHANGEOVER AND REMOTE TEMPERATURE SENSOR.
2. PROVIDE WITH SINGLE POINT POWER, DISCONNECT, AND 120-VOLT RECEPTACLE.
3. PROVIDE WITH CURB ADAPTER.
4. PROVIDE WITH HINGED ACCESS DOORS.
5. PROVIDE WITH OUTSIDE AIR HOOD AND 2-POSITION MOTORIZED DAMPER.
6. PROVIDE WITH 6-ROW COIL, MODULATING HOT-GAS REHEAT, AND HUMIDITY CONTROL.
7. PROVIDE WITH CONDENSER COIL HAIL GUARDS.
8. PROVIDE WITH LOW AMBIENT CONTROL TO 35°F.
9. PROVIDE WITH FACTORY APPLIED FULLY DIPPED CONDENSER E-COATING WITH 6,000 HR SALT SPRAY RATING PER ASTM B117-90.
10. EXTERIOR PAINT FINISH SHALL BE CAPABLE WITHSTANDING AT LEAST 2,500 HOURS SALT SPRAY AND FOG ATMOSPHERE PER ASTM B 117-95.
11. PROVIDE UNIT WITH 2-INCH DOUBLE WALL CONSTRUCTION WITH R-13 FOAM INSULATION AND THERMAL BREAK. COMPRESSORS AND CONTROLS SHALL BE HOUSED INSIDE CLIMATE CONTROLLED CABINET.
12. REFER TO SPECIFICATIONS FOR COMPRESSOR REQUIREMENTS.
13. PROVIDE SEPERATE HUMIDITY SENSOR IN RETURN AIR DUCT AND TIE-IN TO DEHUMIDIFICATION CONTROLLER.

ROOF TOP UNIT SCHEDULE – ADULT DETENTION CENTER

ROOF TOP UNIT DESIGNATION	RTU-31	RTU-32	RTU-33	RTU-34	RTU-35	RTU-36	RTU-37	RTU-38	RTU-39	RTU-40
SUPPLY CFM	1400	1200	1400	1200	2300	1400	2400	1400	3200	2400
OUTSIDE AIR CFM	180	240	180	180	420	180	375	30	120	525
EXTERNAL S.P. ("W.G.)	.75	2	.75	0.5	0.5	.75	2	.75	.75	0.5
MOTOR HP.	1	1	1	1	1	1	2	1	2	1
TOTAL CAPACITY (MBH)	51.33	48.27	51.33	36.27	73.02	51.33	73.73	35.93	73.76	94.78
SENSIBLE CAPACITY (MBH)	40.46	36.01	40.46	29.73	60.54	40.46	59.63	31.34	70.30	70.42
ENTERING AIR (DB/WB)°F	82/67	79/65	78/64	78/65	79/65	78/64	78/65	75/63	76/63	80/66
LEAVING AIR (DB/WB)°F	55.92/55.05	53.14/51.66	55.92/55.05	55.60/54.97	54.86/54.36	55.92/55.05	56.24/55.16	55.07/54.45	56.51/55.44	53.18/52.57
CONDENSER AIR (DB)°F	98	98	98	98	98	98	98	98	98	98
HEATER CAPACITY (KW)	10	10	10	10	10	10	10	10	20	10
STAGES	1	1	1	1	1	1	1	1	2	1
VOLTAGE/PHASE	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø
MOCP	20	20	20	20	25	20	25	20	35	30
MANUFACTURER	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON
MODEL	RQ-004	RQ-004	RQ-004	RQ-003	RN-007	RQ-004	RN-007	RQ-003	RN-007	RN-008
UNIT WEIGHT (LBS)	845	845	845	765	1106	845	1110	765	1111	1148
EFFICIENCY EER (SEER)	17.4	17.4	17.4	18.2	12.4	17.4	12.4	18.2	12.4	11.9
REMARKS	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13

REMARKS
1. PROVIDE WITH NEW UNIVERSAL PROGRAMMABLE THERMOSTAT (2-STAGE) WITH AUTO CHANGEOVER AND REMOTE TEMPERATURE SENSOR.
2. PROVIDE WITH SINGLE POINT POWER, DISCONNECT, AND 120-VOLT RECEPTACLE.
3. PROVIDE WITH CURB ADAPTER.
4. PROVIDE WITH HINGED ACCESS DOORS.
5. PROVIDE WITH OUTSIDE AIR HOOD AND 2-POSITION MOTORIZED DAMPER.
6. PROVIDE WITH 6-ROW COIL, MODULATING HOT-GAS REHEAT, AND HUMIDITY CONTROL.
7. PROVIDE WITH CONDENSER COIL HAIL GUARDS.
8. PROVIDE WITH LOW AMBIENT CONTROL TO 35°F.
9. PROVIDE WITH FACTORY APPLIED FULLY DIPPED CONDENSER E-COATING WITH 6,000 HR SALT SPRAY RATING PER ASTM B117-90.
10. EXTERIOR PAINT FINISH SHALL BE CAPABLE WITHSTANDING AT LEAST 2,500 HOURS SALT SPRAY AND FOG ATMOSPHERE PER ASTM B 117-95.
11. PROVIDE UNIT WITH 2-INCH DOUBLE WALL CONSTRUCTION WITH R-13 FOAM INSULATION AND THERMAL BREAK. COMPRESSORS AND CONTROLS SHALL BE HOUSED INSIDE CLIMATE CONTROLLED CABINET.
12. REFER TO SPECIFICATIONS FOR COMPRESSOR REQUIREMENTS.
13. PROVIDE SEPERATE HUMIDITY SENSOR IN RETURN AIR DUCT AND TIE-IN TO DEHUMIDIFICATION CONTROLLER.

CHANIN ENGINEERING LLC
400 Nolana, Suite N24
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
WWW.CHANINENGINEERING.COM
TBPE FIRM REG. NUMBER F-9369

SEAL:

STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: L.S.
CHECKED BY: J.P.
REVISION:

DRAWING NO:
M8.0

ROOF TOP UNIT SCHEDULE – ADULT DETENTION CENTER

ROOF TOP UNIT DESIGNATION	RTU-41	RTU-42	RTU-43	RTU-44	RTU-45	RTU-46	RTU-47	RTU-48	RTU-49	RTU-50
SUPPLY CFM	2350	1600	1730	2800	2300	6300	2100	3850	550	500
OUTSIDE AIR CFM	90	360	450	90	225	1200	525	379	50	30
EXTERNAL S.P. ("W.G.)	0.65	1	.65	0.5	0.5	1	0.5	0.5	0.5	0.5
MOTOR HP.	2	1	2	2	2	5	2	3	1	1
TOTAL CAPACITY (MBH)	59.53	58.42	68.22	70.47	70.01	192.91	71.15	105.16	18.39	24.1
SENSIBLE CAPACITY (MBH)	54.85	44.99	52.57	65.13	55.51	163.55	58.89	91.85	14.53	17.4
ENTERING AIR (DB/WB)'F	76/63	80/66	81/66	76/63	77/64	79/65	81/66	77/64	77/64	76/63
LEAVING AIR (DB/WB)'F	55.90/54.77	55.10/54.04	53.92/52.86	56.08/54.96	55.04/53.98	55.92/55.07	56.08/55.04	55.22/54.82	52.97/52.43	50.85/50.32
CONDENSER AIR (DB)'F	98	98	98	98	98	98	98	98	98	98
HEATER CAPACITY (KW)	10	10	10	10	10	40	10	20	7.5	5.0
STAGES	1	1	1	1	1	4	1	2	1	1
VOLTAGE/PHASE	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	208/1ø	460/3ø
MOCP	20	20	25	25	25	70	25	40	60	15
MANUFACTURER	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON
MODEL	RQ-005	RQ-005	RQ-006	RQ-006	RQ-006	RN-015	RQ-006	RN-009	RQ-001	RQ-002
UNIT WEIGHT (LBS)	898	860	899	899	899	1832	899	1744	717	717
EFFICIENCY EER (SEER)	17.45	17.45	12.4	12.4	12.4	11.3	12.4	13.8	15.6	15.6
REMARKS	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13

REMARKS
1. PROVIDE WITH NEW UNIVERSAL PROGRAMMABLE THERMOSTAT (2-STAGE) WITH AUTO CHANGEOVER AND REMOTE TEMPERATURE SENSOR.
2. PROVIDE WITH SINGLE POINT POWER, DISCONNECT, AND 120-VOLT RECEPTACLE.
3. PROVIDE WITH CURB ADAPTER.
4. PROVIDE WITH HINGED ACCESS DOORS.
5. PROVIDE WITH OUTSIDE AIR HOOD AND 2-POSITION MOTORIZED DAMPER.
6. PROVIDE WITH 6-ROW COIL, MODULATING HOT-GAS REHEAT, AND HUMIDITY CONTROL.
7. PROVIDE WITH CONDENSER COIL HAIL GUARDS.
8. PROVIDE WITH LOW AMBIENT CONTROL TO 35'F.
9. PROVIDE WITH FACTORY APPLIED FULLY DIPPED CONDENSER E-COATING WITH 6,000 HR SALT SPRAY RATING PER ASTM B117-90.
10. EXTERIOR PAINT FINISH SHALL BE CAPABLE WITHSTANDING AT LEAST 2,500 HOURS SALT SPRAY AND FOG ATMOSPHERE PER ASTM B 117-95.
11. PROVIDE UNIT WITH 2-INCH DOUBLE WALL CONSTRUCTION WITH R-13 FOAM INSULATION AND THERMAL BREAK. COMPRESSORS AND CONTROLS SHALL BE HOUSED INSIDE CLIMATE CONTROLLED CABINET.
12. REFER TO SPECIFICATIONS FOR COMPRESSOR REQUIREMENTS.
13. PROVIDE SEPERATE HUMIDITY SENSOR IN RETURN AIR DUCT AND TIE-IN TO DEHUMIDIFICATION CONTROLLER.

ROOF TOP UNIT SCHEDULE – LAW ENFORCEMENT CENTER

ROOF TOP UNIT DESIGNATION	RTU-1	RTU-2	RTU-3	RTU-4	RTU-5	RTU-6	RTU-7	RTU-8	RTU-9	RTU-10	RTU-11	RTU-12	RTU-13	RTU-14	RTU-15	RTU-16
SUPPLY CFM	2600	2400	1475	1700	1400	1100	3000	1425	2300	3000	1620	3800	3800	1530	1500	1440
OUTSIDE AIR CFM	300	275	200	170	200	100	750	200	225	750	200	950	950	300	225	225
EXTERNAL S.P. ("W.G.)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
MOTOR HP.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
TOTAL CAPACITY (MBH)	70.86	70.42	49.23	50.44	48.74	35.11	103.51	48.90	69.92	103.51	50.45	129.03	129.03	50.81	49.38	49.02
SENSIBLE CAPACITY (MBH)	64.78	61.79	40.49	42.20	39.27	28.37	84.84	39.67	57.76	84.84	42.88	106.54	106.54	41.43	40.89	39.92
ENTERING AIR (DB/WB)'F	78/64	78/64	78/64	77/64	78/64	77/64	81/66	78/64	77/64	81/66	78/64	81/66	81/66	79/65	78/64	78/64
LEAVING AIR (DB/WB)'F	54.7/54.5	53.9/53.7	52.3/52.1	53.8/53.6	51.8/51.6	52.9/52.7	54.4/54.2	52/51.8	53.6/53.4	54.4/54.2	53.3/53.1	54.4/54.4	54.4/54.4	53.6/53.4	52.5/52.3	52.1/51.9
CONDENSER AIR (DB)'F	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
HEATER CAPACITY (KW)	20	20	10	10	10	10	30	10	20	30	10.0	30.0	30.0	10.0	10.0	10.0
STAGES	2	2	1	1	1	1	2	1	2	2	1	2	2	1	1	1
VOLTAGE/PHASE	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø	480/3ø
MCA/MOCP	34/35	34/35	18/20	18/20	18/20	18/20	49/50	18/20	34/35	49/50	18/20	49/50	49/50	18/20	18/20	18/20
MANUFACTURER	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON	AAON
MODEL	RQ006-3V	RQ006-3V	RQ004-3V	RQ004-3V	RQ004-3V	RQ003-3V	RN009-30	RQ004-3V	RQ006-3V	RN009-30	RQ004-3V	RN011-30	RN011-30	RQ004-3V	RQ004-3V	RQ004-3V
UNIT WEIGHT (LBS)	899	899	845	845	845	845	1700	845	899	1700	845	1708	1708	845	845	845
EFFICIENCY EER (SEER)	9.8	10.2	10.2	11.8	12.1	11.9	12.7	12.0	10.3	12.7	12.0	11.9	11.9	12.3	12	12.0
REMARKS	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13	1 THRU 13

REMARKS
1. PROVIDE WITH NEW UNIVERSAL PROGRAMMABLE THERMOSTAT (2-STAGE) WITH AUTO CHANGEOVER AND REMOTE TEMPERATURE SENSOR.
2. PROVIDE WITH SINGLE POINT POWER, DISCONNECT, AND 120-VOLT RECEPTACLE.
3. PROVIDE WITH NEW MINIMUM 14-INCH ROOF CURB.
4. PROVIDE WITH HINGED ACCESS DOORS.
5. PROVIDE WITH OUTSIDE AIR HOOD AND 2-POSITION MOTORIZED DAMPER.
6. PROVIDE WITH 6-ROW COIL, MODULATING HOT-GAS REHEAT, AND HUMIDITY CONTROL.
7. PROVIDE WITH CONDENSER COIL HAIL GUARDS.
8. PROVIDE WITH LOW AMBIENT CONTROL TO 35'F.
9. PROVIDE WITH FACTORY APPLIED FULLY DIPPED CONDENSER E-COATING WITH 6,000 HR SALT SPRAY RATING PER ASTM B117-90.
10. EXTERIOR PAINT FINISH SHALL BE CAPABLE WITHSTANDING AT LEAST 2,500 HOURS SALT SPRAY AND FOG ATMOSPHERE PER ASTM B 117-95.
11. PROVIDE UNIT WITH 2-INCH DOUBLE WALL CONSTRUCTION WITH R-13 FOAM INSULATION AND THERMAL BREAK. COMPRESSORS AND CONTROLS SHALL BE HOUSED INSIDE CLIMATE CONTROLLED CABINET.
12. REFER TO SPECIFICATIONS FOR COMPRESSOR REQUIREMENTS.
13. PROVIDE SEPERATE HUMIDITY SENSOR IN RETURN AIR DUCT AND TIE-IN TO DEHUMIDIFICATION CONTROLLER.

CHANIN ENGINEERING LLC
400 Nolana, Suite N24
McAllen, Texas 78504
PH: (956) 687-4421 FAX: (956) 687-3211
www.chanin-engineering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:

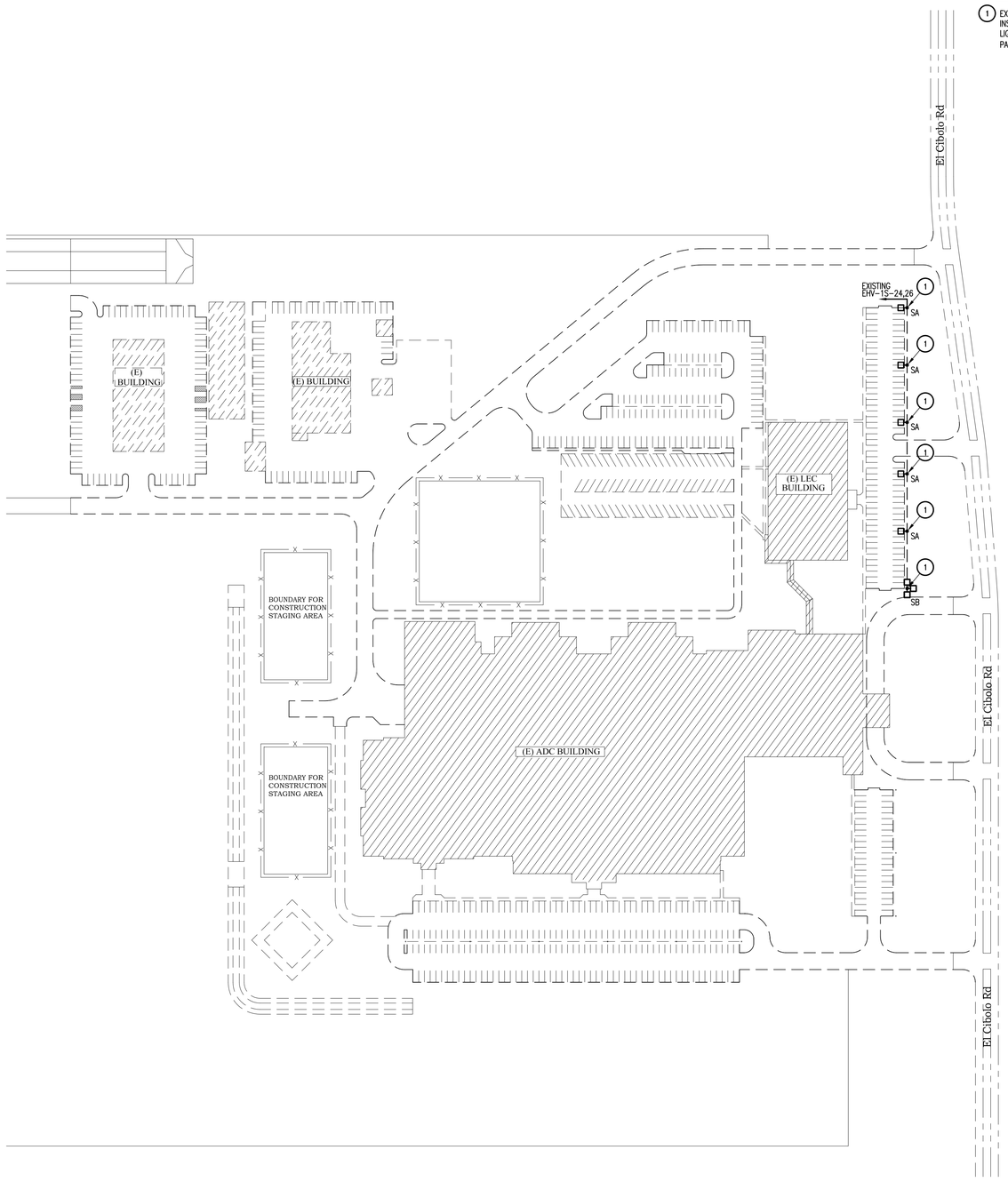
STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED
PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: L.S.
CHECKED BY:J.P.
REVISION:

DRAWING NO:
M9.0



KEY NOTES:

1. EXISTING LIGHT POLE FIXTURE TO BE REMOVED. FURNISH AND INSTALL NEW LIGHT POLE FIXTURE AND POLE BASE. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E16.0. THIS SHALL BE PART OF ALTERNATE #5.

GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE STRUCTURAL ENGINEER.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

F. SCHEDULE FOR ALL POWER OUTAGES SHALL BE APPROVED PRIOR TO DEMOLITION.

G. ON ANY WORK SHOWN ON M.E.P. DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS.

H. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.

I. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.

GENERAL NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING PLANS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPTANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL HAVE SOUND RETARDING /ABSORBING FIRE STOP MATERIAL.

C. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT VOLTAGES, AND AMPERAGE RATINGS OF OWNER/CONTRACTOR PROVIDED EQUIPMENT PRIOR TO COMMENCING WORK. THE ELECTRICAL CONTRACTOR SHALL REPORT ANY AND ALL DISCREPANCIES TO THE STRUCTURAL ENGINEER IMMEDIATELY. ALL NECESSARY ELECTRICAL SERVICE CHANGES SHALL BE MADE BEFORE ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS ARE INSTALLED. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO REMOVE AND INSTALL ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS INSTALLED PRIOR TO THIS VERIFICATION.

D. ELECTRICAL CONTRACTOR SHALL KEEP EXISTING FIRE ALARM IN ORERATION UNTIL NEW FIRE ALARM SYSTEM IS FULLY OPERATIONAL.

E. ALL INTERIOR WORK TO BE BETWEEN THE HOURS OF 7PM-2AM.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

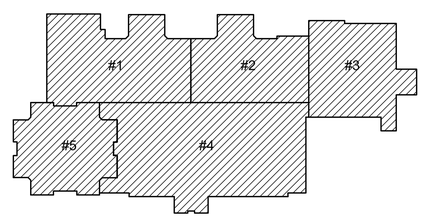
THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE STRUCTURAL ENGINEER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT STRUCTURAL ENGINEER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

NORTH

A ELECTRICAL SITE PLAN

SCALE: 1" = 100'-0" A.D.C. & L.E.C. BLDG



CHANIN ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:

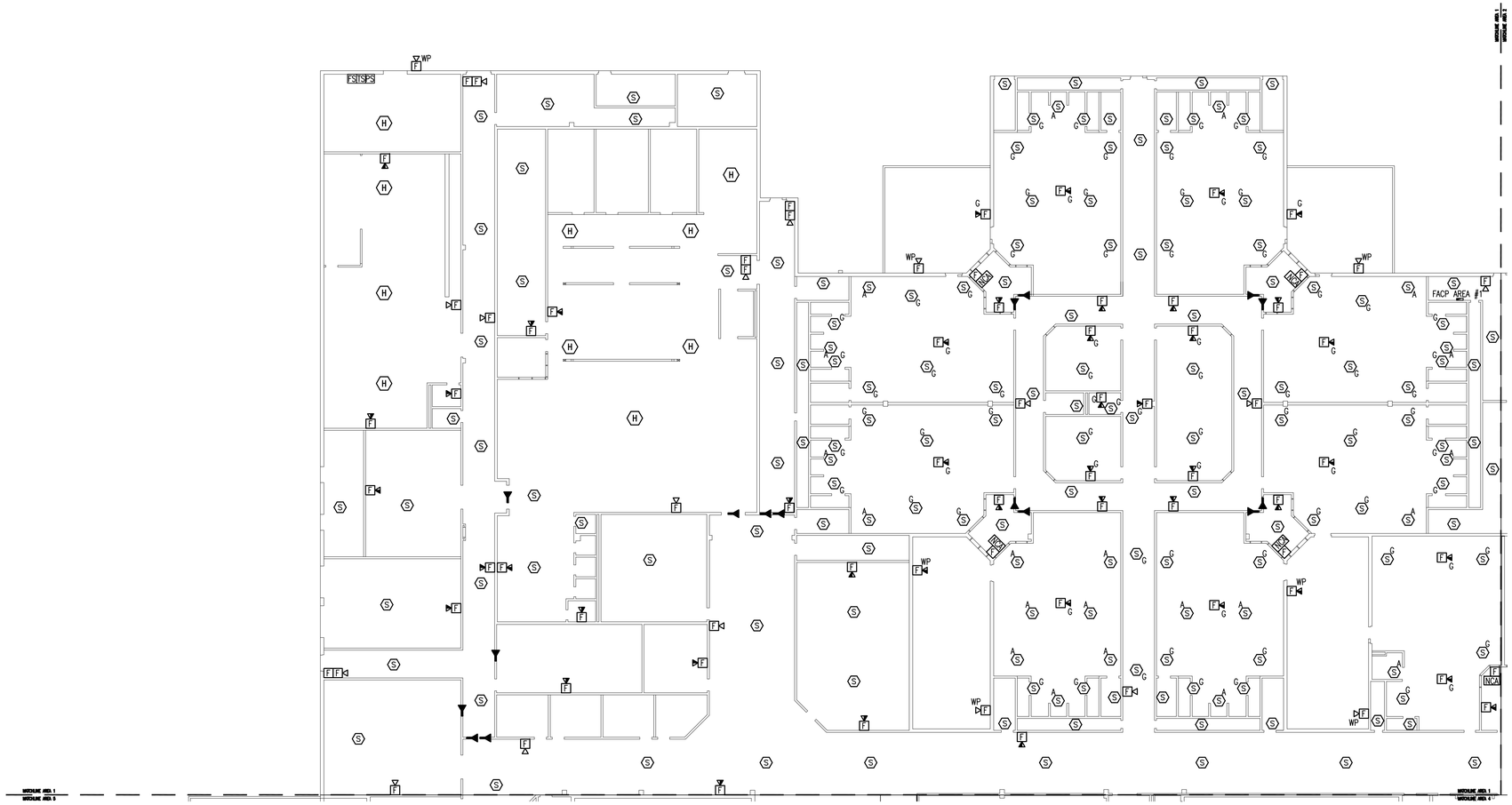
STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED
PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BENTSEN AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: M.G.
CHECKED BY:A.D.
REVISION:

DRAWING NO:
ES1.0



GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE STRUCTURAL ENGINEER.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

F. SCHEDULE FOR ALL POWER OUTAGES SHALL BE APPROVED PRIOR TO DEMOLITION.

G. ON ANY WORK SHOWN ON M.E.P. DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS.

H. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.

I. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.

GENERAL NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING PLANS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPTANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL HAVE SOUND RETARDING /ABSORBING FIRE STOP MATERIAL.

C. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT VOLTAGES, AND AMPERAGE RATINGS OF OWNER/CONTRACTOR PROVIDED EQUIPMENT PRIOR TO COMMENCING WORK. THE ELECTRICAL CONTRACTOR SHALL REPORT ANY AND ALL DISCREPANCIES TO THE STRUCTURAL ENGINEER IMMEDIATELY. ALL NECESSARY ELECTRICAL SERVICE CHANGES SHALL BE MADE BEFORE ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS ARE INSTALLED. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO REMOVE AND INSTALL ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS INSTALLED PRIOR TO THIS VERIFICATION.

D. ELECTRICAL CONTRACTOR SHALL KEEP EXISTING FIRE ALARM IN ORERATION UNTIL NEW FIRE ALARM SYSTEM IS FULLY OPERATIONAL.

E. ALL INTERIOR WORK TO BE BETWEEN THE HOURS OF 7PM-2AM.

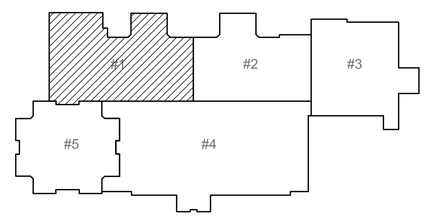
F. SMOKE DETECTORS SHALL BE COMPATIBLE WITH ENVIRONMENT IN WHICH INSTALLED.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE STRUCTURAL ENGINEER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH COVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT STRUCTURAL ENGINEER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.



NORTH

A ELECTRICAL SPECIAL SYSTEMS PLAN

SCALE: 1/16" = 1'-0" AREA #1 A.D.C. BLDG

CHANIN
ENGINEERING LLC
400 Nolana, Suite N24
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
TBPE FIRM REG. NUMBER F-9369

SEAL:

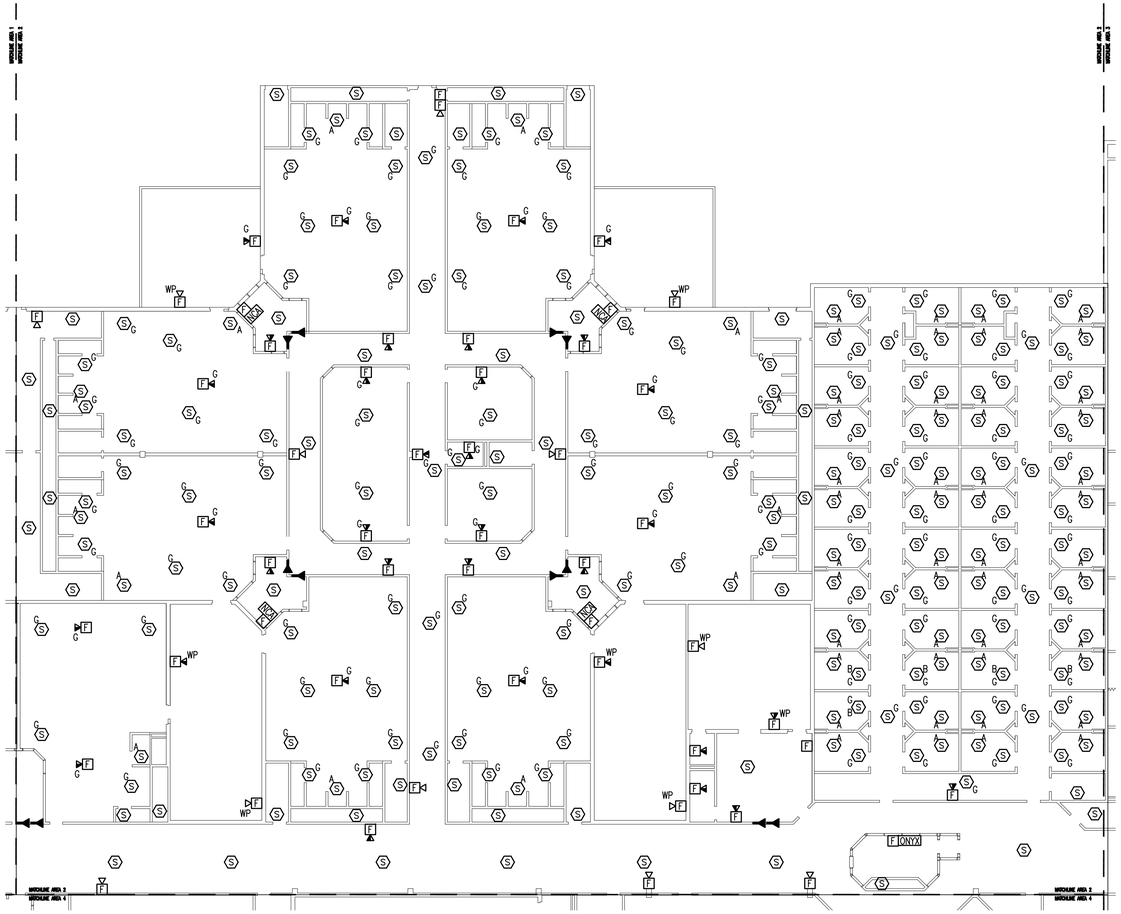
STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED
PROFESSIONAL ENGINEER
11.15.13

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: M.G.
CHECKED BY: A.D.
REVISION:

DRAWING NO:
E1.0



A ELECTRICAL SPECILA SYSTEMS PLAN
SCALE: 1/16" = 1'-0"
AREA #2 A.D.C. BLDG

NORTH

GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE STRUCTURAL ENGINEER.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

F. SCHEDULE FOR ALL POWER OUTAGES SHALL BE APPROVED PRIOR TO DEMOLITION.

G. ON ANY WORK SHOWN ON M.E.P. DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS.

H. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.

I. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.

GENERAL NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING PLANS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPTANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL HAVE SOUND RETARDING /ABSORBING FIRE STOP MATERIAL.

C. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT VOLTAGES, AND AMPERAGE RATINGS OF OWNER/CONTRACTOR PROVIDED EQUIPMENT PRIOR TO COMMENCING WORK. THE ELECTRICAL CONTRACTOR SHALL REPORT ANY AND ALL DISCREPANCIES TO THE STRUCTURAL ENGINEER IMMEDIATELY. ALL NECESSARY ELECTRICAL SERVICE CHANGES SHALL BE MADE BEFORE ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS ARE INSTALLED. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO REMOVE AND INSTALL ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS INSTALLED PRIOR TO THIS VERIFICATION.

D. ELECTRICAL CONTRACTOR SHALL KEEP EXISTING FIRE ALARM IN ORERATION UNTIL NEW FIRE ALARM SYSTEM IS FULLY OPERATIONAL.

E. ALL INTERIOR WORK TO BE BETWEEN THE HOURS OF 7PM-2AM.

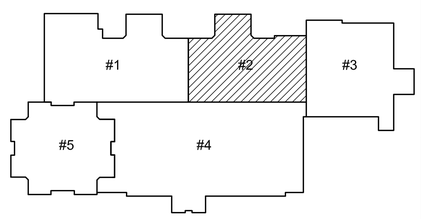
F. SMOKE DETECTORS SHALL BE COMPATIBLE WITH ENVIRONMENT IN WHICH INSTALLED.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE STRUCTURAL ENGINEER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT STRUCTURAL ENGINEER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.



CHANIN ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

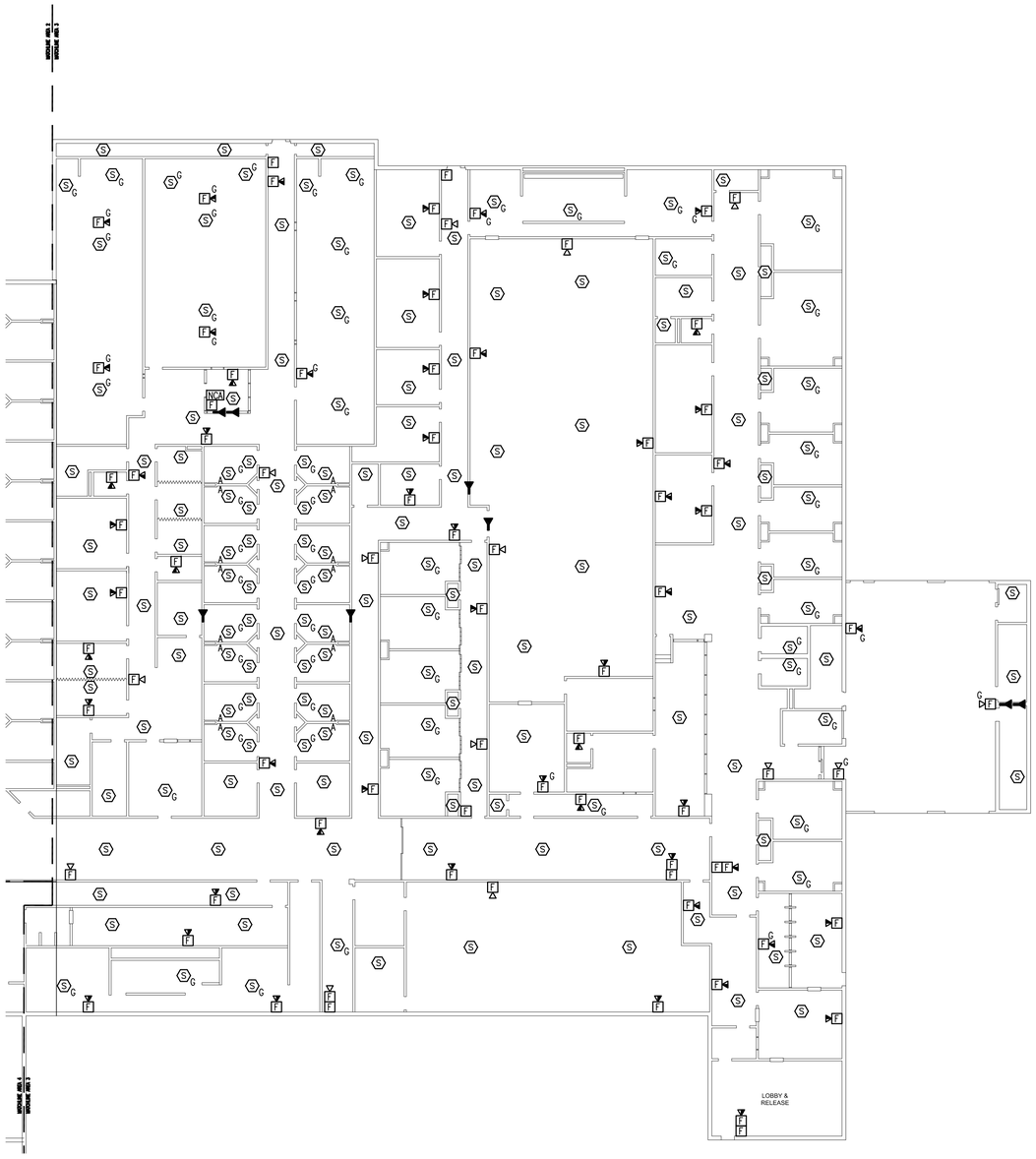
SEAL:
STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED
PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: M.G.
CHECKED BY:A.D.
REVISION:

DRAWING NO:
E2.0



GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE STRUCTURAL ENGINEER.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

F. SCHEDULE FOR ALL POWER OUTAGES SHALL BE APPROVED PRIOR TO DEMOLITION.

G. ON ANY WORK SHOWN ON M.E.P. DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS.

H. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.

I. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.

GENERAL NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING PLANS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPTANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL HAVE SOUND RETARDING /ABSORBING FIRE STOP MATERIAL.

C. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT VOLTAGES, AND AMPERAGE RATINGS OF OWNER/CONTRACTOR PROVIDED EQUIPMENT PRIOR TO COMMENCING WORK. THE ELECTRICAL CONTRACTOR SHALL REPORT ANY AND ALL DISCREPANCIES TO THE STRUCTURAL ENGINEER IMMEDIATELY. ALL NECESSARY ELECTRICAL SERVICE CHANGES SHALL BE MADE BEFORE ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS ARE INSTALLED. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO REMOVE AND INSTALL ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS INSTALLED PRIOR TO THIS VERIFICATION.

D. ELECTRICAL CONTRACTOR SHALL KEEP EXISTING FIRE ALARM IN ORERATION UNTIL NEW FIRE ALARM SYSTEM IS FULLY OPERATIONAL.

E. ALL INTERIOR WORK TO BE BETWEEN THE HOURS OF 7PM-2AM.

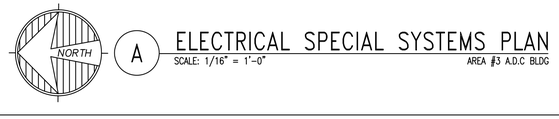
F. SMOKE DETECTORS SHALL BE COMPATIBLE WITH ENVIRONMENT IN WHICH INSTALLED.

FIELD VERIFY ALL CONDITIONS

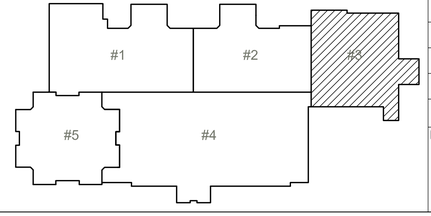
DESIGN DRAWINGS SCHEMATIC. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE STRUCTURAL ENGINEER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT STRUCTURAL ENGINEER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.



A ELECTRICAL SPECIAL SYSTEMS PLAN
SCALE: 1/16" = 1'-0"
AREA #3 A.D.C BLDG



CHANIN
ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
WWW.CHANINENGINEERING.COM
TBPE FIRM REG. NUMBER F-9369

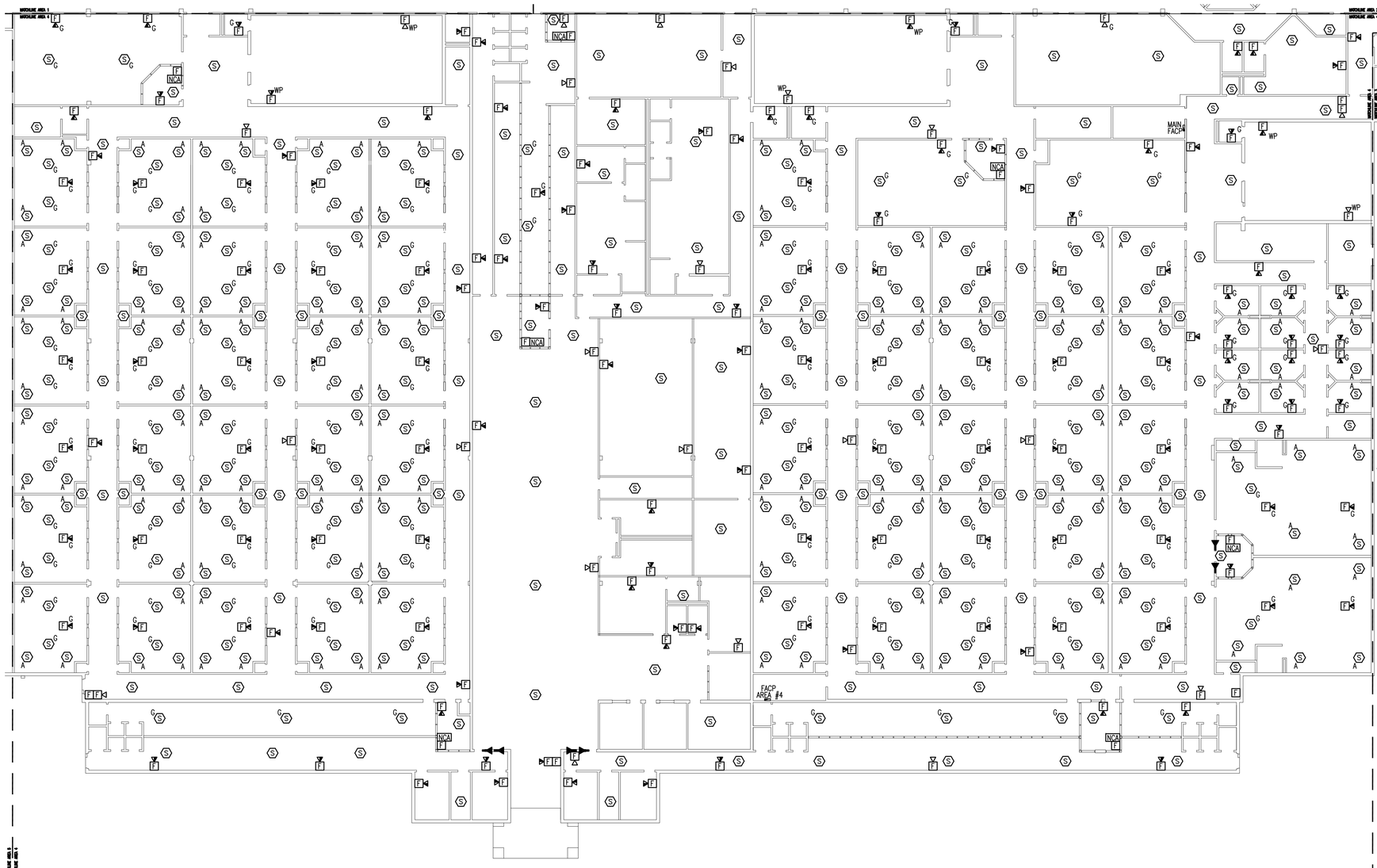
SEAL:
STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED
PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9746

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: M.G.
CHECKED BY: A.D.
REVISION:

DRAWING NO:
E3.0



GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE STRUCTURAL ENGINEER.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

F. SCHEDULE FOR ALL POWER OUTAGES SHALL BE APPROVED PRIOR TO DEMOLITION.

G. ON ANY WORK SHOWN ON M.E.P. DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS.

H. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.

I. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.

GENERAL NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING PLANS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPTANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL HAVE SOUND RETARDING /ABSORBING FIRE STOP MATERIAL.

C. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT VOLTAGES, AND AMPERAGE RATINGS OF OWNER/CONTRACTOR PROVIDED EQUIPMENT PRIOR TO COMMENCING WORK. THE ELECTRICAL CONTRACTOR SHALL REPORT ANY AND ALL DISCREPANCIES TO THE STRUCTURAL ENGINEER IMMEDIATELY. ALL NECESSARY ELECTRICAL SERVICE CHANGES SHALL BE MADE BEFORE ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS ARE INSTALLED. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO REMOVE AND INSTALL ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS INSTALLED PRIOR TO THIS VERIFICATION.

D. ELECTRICAL CONTRACTOR SHALL KEEP EXISTING FIRE ALARM IN ORERATION UNTIL NEW FIRE ALARM SYSTEM IS FULLY OPERATIONAL.

E. ALL INTERIOR WORK TO BE BETWEEN THE HOURS OF 7PM-2AM.

F. SMOKE DETECTORS SHALL BE COMPATIBLE WITH ENVIRONMENT IN WHICH INSTALLED.

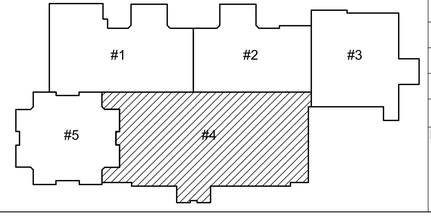
FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE STRUCTURAL ENGINEER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT STRUCTURAL ENGINEER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

A ELECTRICAL SPECIAL SYSTEMS PLAN
SCALE: 1/16" = 1'-0" AREA #4 A.D.C. BLDG



CHANIN ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9369
TBPE FIRM REG. NUMBER F-9369

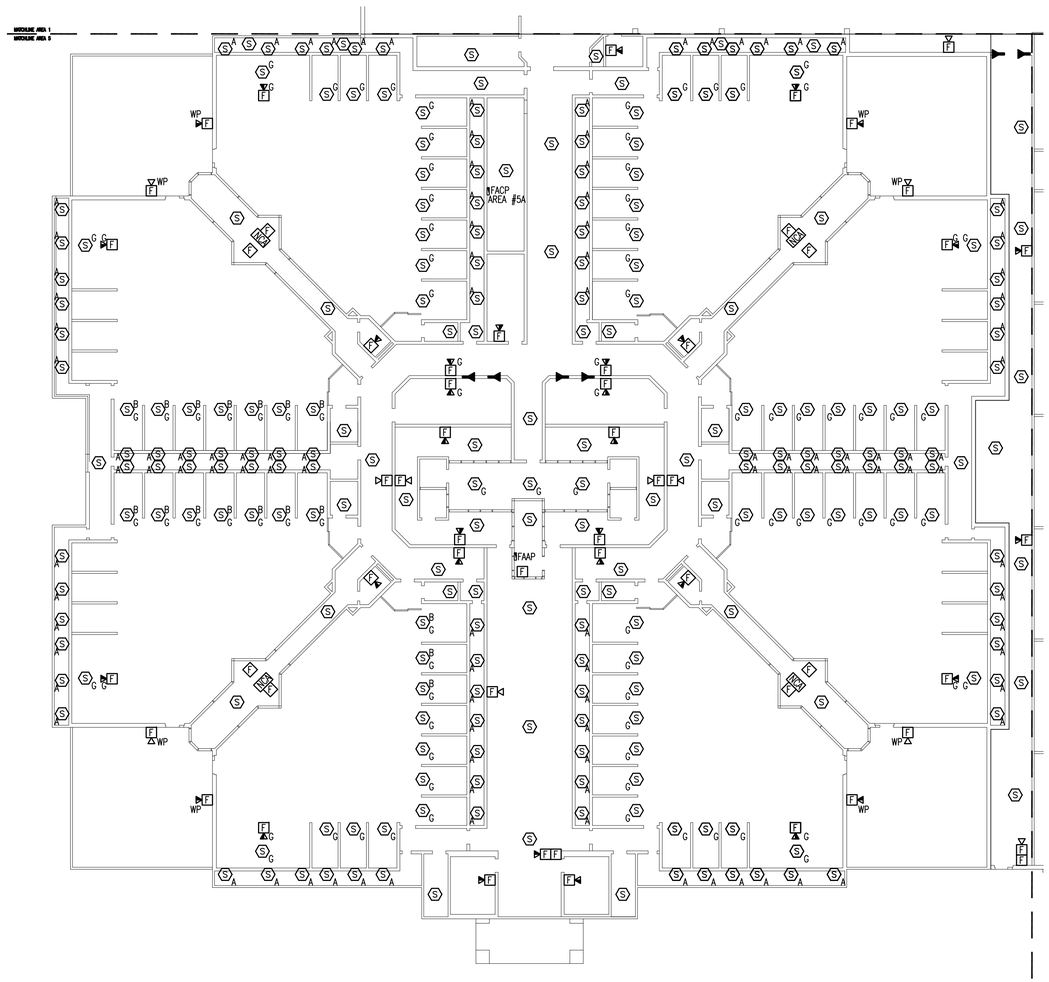
SEAL:
STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED
PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: M.G.
CHECKED BY:A.D.
REVISION:

DRAWING NO:
E4.0



NORTH

A ELECTRICAL SPECIAL SYSTEMS PLAN

SCALE: 1/16" = 1'-0"

AREA #5 - 1ST FLR A.D.C. BLDG

GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE STRUCTURAL ENGINEER.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

F. SCHEDULE FOR ALL POWER OUTAGES SHALL BE APPROVED PRIOR TO DEMOLITION.

G. ON ANY WORK SHOWN ON M.E.P. DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS.

H. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.

I. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.

GENERAL NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING PLANS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPTANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL HAVE SOUND RETARDING /ABSORBING FIRE STOP MATERIAL.

C. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT VOLTAGES, AND AMPERAGE RATINGS OF OWNER/CONTRACTOR PROVIDED EQUIPMENT PRIOR TO COMMENCING WORK. THE ELECTRICAL CONTRACTOR SHALL REPORT ANY AND ALL DISCREPANCIES TO THE STRUCTURAL ENGINEER IMMEDIATELY. ALL NECESSARY ELECTRICAL SERVICE CHANGES SHALL BE MADE BEFORE ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS ARE INSTALLED. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO REMOVE AND INSTALL ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS INSTALLED PRIOR TO THIS VERIFICATION.

D. ELECTRICAL CONTRACTOR SHALL KEEP EXISTING FIRE ALARM IN ORERATION UNTIL NEW FIRE ALARM SYSTEM IS FULLY OPERATIONAL.

E. ALL INTERIOR WORK TO BE BETWEEN THE HOURS OF 7PM-2AM.

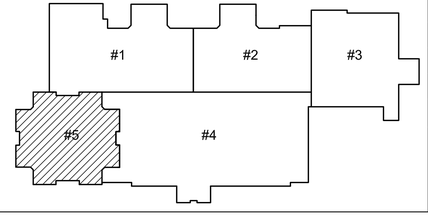
F. SMOKE DETECTORS SHALL BE COMPATIBLE WITH ENVIRONMENT IN WHICH INSTALLED.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE STRUCTURAL ENGINEER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT STRUCTURAL ENGINEER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.



CHANIN ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
WWW.CHANINENGINEERING.COM
TBPE FIRM REG. NUMBER F-9369

SEAL:

STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED
PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:

HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159

DATE: 11/15/13

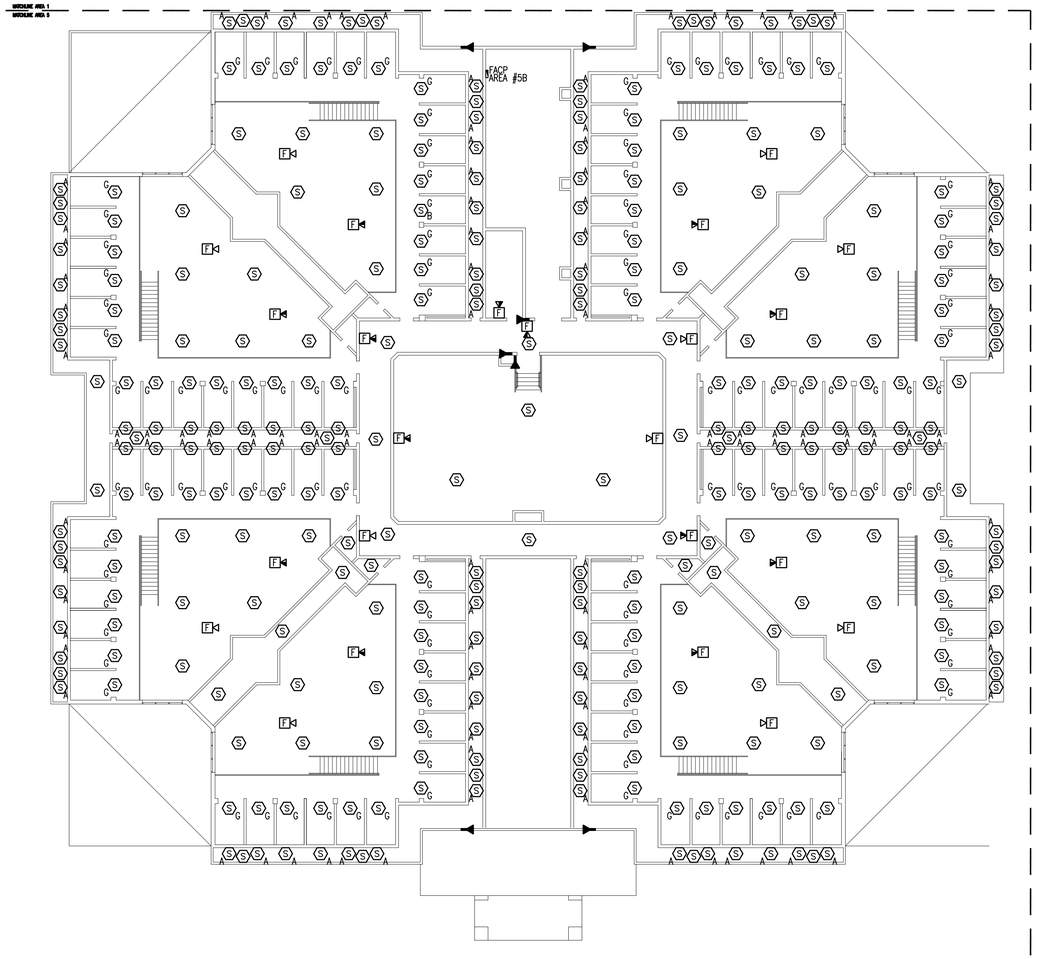
DRAWN BY: M.G.

CHECKED BY:A.D.

REVISION:

DRAWING NO:

E5.0



NORTH

A ELECTRICAL SPECIAL SYSTEMS PLAN
SCALE: 1/16" = 1'-0"
AREA #5 - 2ND FLR A.D.C. BLDG

GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE STRUCTURAL ENGINEER.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

F. SCHEDULE FOR ALL POWER OUTAGES SHALL BE APPROVED PRIOR TO DEMOLITION.

G. ON ANY WORK SHOWN ON M.E.P. DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS.

H. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.

I. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.

GENERAL NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING PLANS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPTANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL HAVE SOUND RETARDING /ABSORBING FIRE STOP MATERIAL.

C. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT VOLTAGES, AND AMPERAGE RATINGS OF OWNER/CONTRACTOR PROVIDED EQUIPMENT PRIOR TO COMMENCING WORK. THE ELECTRICAL CONTRACTOR SHALL REPORT ANY AND ALL DISCREPANCIES TO THE STRUCTURAL ENGINEER IMMEDIATELY. ALL NECESSARY ELECTRICAL SERVICE CHANGES SHALL BE MADE BEFORE ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS ARE INSTALLED. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO REMOVE AND INSTALL ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS INSTALLED PRIOR TO THIS VERIFICATION.

D. ELECTRICAL CONTRACTOR SHALL KEEP EXISTING FIRE ALARM IN ORERATION UNTIL NEW FIRE ALARM SYSTEM IS FULLY OPERATIONAL.

E. ALL INTERIOR WORK TO BE BETWEEN THE HOURS OF 7PM-2AM.

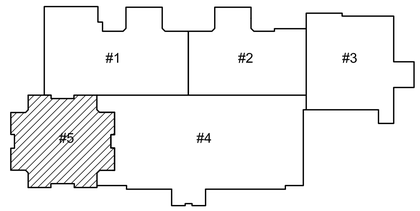
F. SMOKE DETECTORS SHALL BE COMPATIBLE WITH ENVIRONMENT IN WHICH INSTALLED.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE STRUCTURAL ENGINEER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT STRUCTURAL ENGINEER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.



CHANIN ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
WWW.CHANINENGINEERING.COM
TBPE FIRM REG. NUMBER F-9369

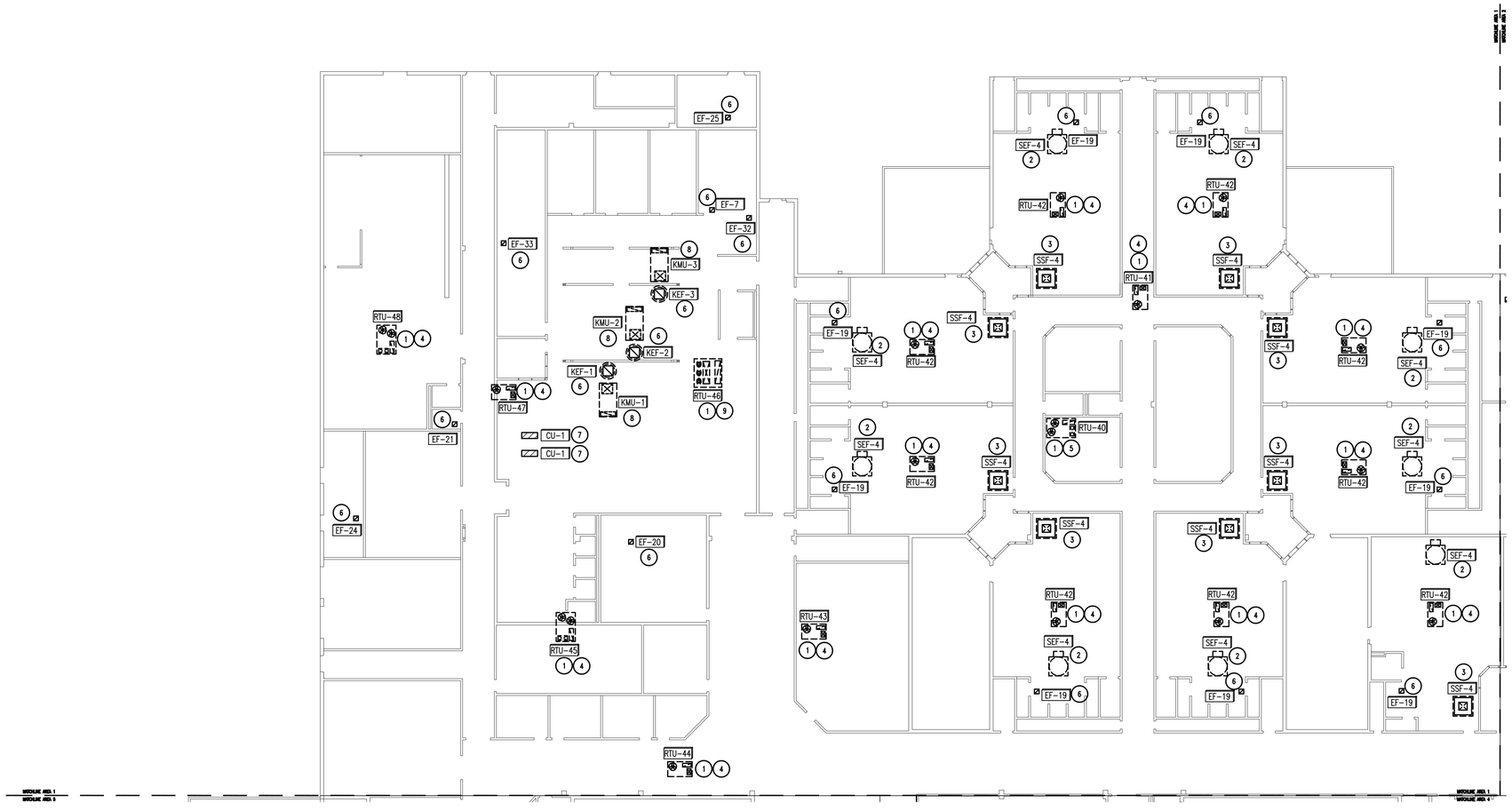
SEAL:
STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED
PROFESSIONAL ENGINEER
11.15.2013

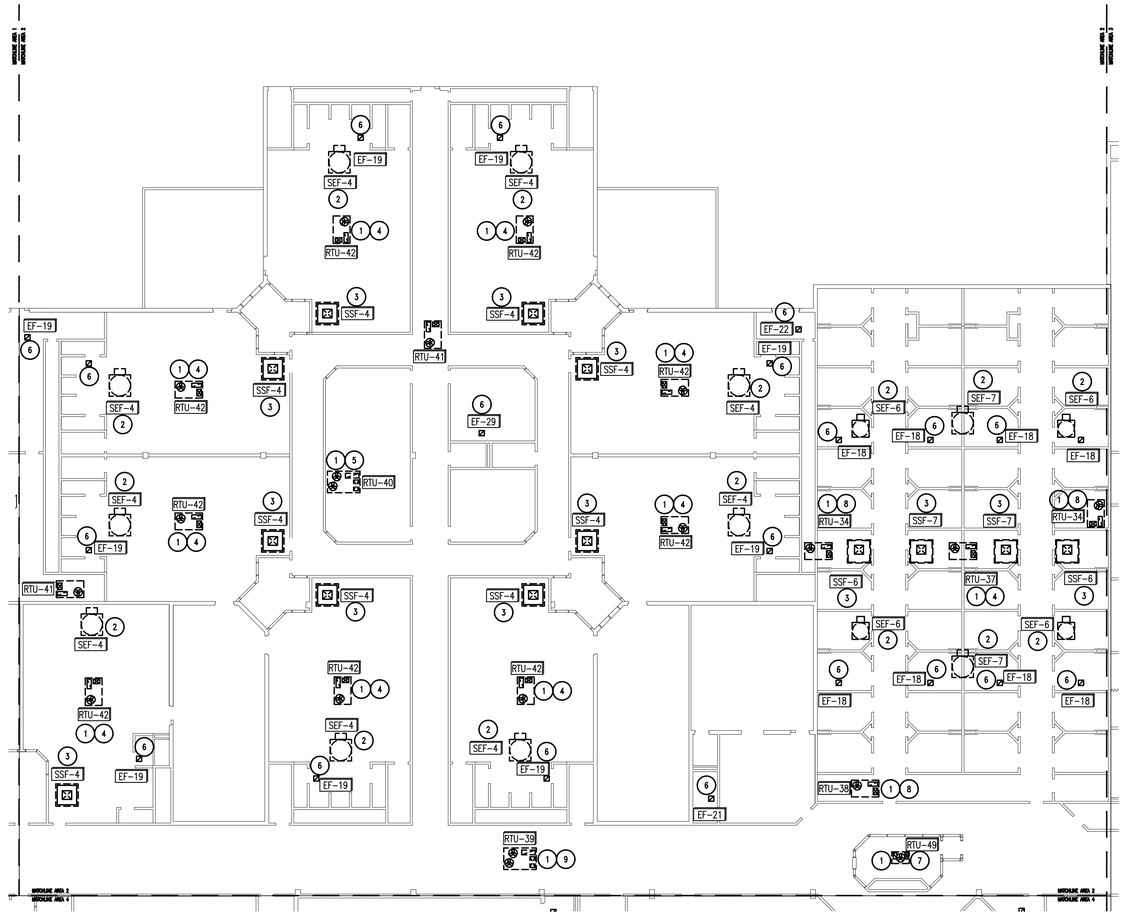
MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: M.G.
CHECKED BY:A.D.
REVISION:

DRAWING NO:
E6.0


EF-25
EF-7
EF-32
EF-33
KMU-3
KEF-3
KMU-2
KEF-2
KEF-1
KMU-1
RTU-48
RTU-47
CU-1
CU-1
EF-21
EF-24
EF-20
RTU-45
RTU-44
RTU-43
SEF-4
EF-19
RTU-42
SSF-4
RTU-41
RTU-40
EF-19
SEF-4
RTU-42
SSF-4
RTU-42
SEF-4
EF-19
SSF-4
RTU-42
SSF-4
RTU-42
SEF-4
EF-19
RTU-42
SEF-4
EF-19
RTU-42
SEF-4
EF-19
SSF-4
SEF-4
EF-19
SSF-4
SEF-4
EF-19
SSF-4



KEY NOTES:

1. FURNISH AND INSTALL FIRE ALARM DUCT SMOKE DETECTOR AT SUPPLY AND RETURN AIR STREAM OF ROOF TOP UNITS.
2. SMOKE EXHAUST FAN SHALL BE INTERLOCKED WITH FIRE ALARM SYSTEM SUCH THAT DAMPER OPENS WHEN FAN IS ENERGIZED.
3. SMOKE SUPPLY FAN SHALL BE INTERLOCKED WITH FIRE ALARM SYSTEM SUCH THAT DAMPER OPENS WHEN FAN IS ENERGIZED.
4. ELECTRICAL CONTRACTOR SHALL EXTEND EXISTING ELECTRICAL SERVICE TO NEW ROOF TOP UNIT. EXISTING CIRCUIT TO REMAIN FOR RE-USE.
5. ELECTRICAL CONTRACTOR SHALL EXTEND EXISTING ELECTRICAL SERVICE TO NEW ROOF TOP UNIT. EXISTING CIRCUIT TO REMAIN FOR RE-USE. FURNISH AND INSTALL NEW 30 AMP, 3POLE CIRCUIT BREAKER AT EXISTING PANEL TO MATCH NEW NAME PLATE RATING OF ROOF TOP UNIT. MATCH AIC RATING.
6. ELECTRICAL CONTRACTOR SHALL EXTEND EXISTING ELECTRICAL SERVICE TO EXISTING EXHAUST FAN. EXISTING CIRCUIT TO REMAIN FOR RE-USE.
7. ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING (WIRE) FEEDER TO ROOF TOP UNIT. EXISTING CIRCUIT TO REMAIN FOR RE-USE. FURNISH AND INSTALL NEW 60 AMP, 2 POLE CIRCUIT BREAKER AT EXISTING PANEL TO MATCH NEW NAME PLATE RATING OF ROOF TOP UNIT. MATCH AIC RATING. ROUTE 2#4, #8G, 1"C.
8. ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING (WIRE) FEEDER TO ROOF TOP UNIT. EXISTING CIRCUIT TO REMAIN FOR RE-USE. FURNISH AND INSTALL NEW 20 AMP, 3 POLE CIRCUIT BREAKER AT EXISTING PANEL TO MATCH NEW NAME PLATE RATING OF ROOF TOP UNIT. MATCH AIC RATING. ROUTE 3#12, #12G, 1/2"C.
9. ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING (WIRE) FEEDER TO ROOF TOP UNIT. EXISTING CIRCUIT TO REMAIN FOR RE-USE. FURNISH AND INSTALL NEW 35 AMP, 3 POLE CIRCUIT BREAKER AT EXISTING PANEL TO MATCH NEW NAME PLATE RATING OF ROOF TOP UNIT. MATCH AIC RATING. ROUTE 3#8, #10G, 3/4"C.

GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE STRUCTURAL ENGINEER.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

F. SCHEDULE FOR ALL POWER OUTAGES SHALL BE APPROVED PRIOR TO DEMOLITION.

G. ON ANY WORK SHOWN ON M.E.P. DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS.

H. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.

I. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.

GENERAL NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING PLANS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPTANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL HAVE SOUND RETARDING /ABSORBING FIRE STOP MATERIAL.

C. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT VOLTAGES, AND AMPERAGE RATINGS OF OWNER/CONTRACTOR PROVIDED EQUIPMENT PRIOR TO COMMENCING WORK. THE ELECTRICAL CONTRACTOR SHALL REPORT ANY AND ALL DISCREPANCIES TO THE STRUCTURAL ENGINEER IMMEDIATELY. ALL NECESSARY ELECTRICAL SERVICE CHANGES SHALL BE MADE BEFORE ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS ARE INSTALLED. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO REMOVE AND INSTALL ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS INSTALLED PRIOR TO THIS VERIFICATION.

D. ELECTRICAL CONTRACTOR SHALL KEEP EXISTING FIRE ALARM IN ORERATION UNTIL NEW FIRE ALARM SYSTEM IS FULLY OPERATIONAL.

E. ALL INTERIOR WORK TO BE BETWEEN THE HOURS OF 7PM-2AM.

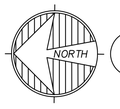
F. SMOKE DETECTORS SHALL BE COMPATIBLE WITH ENVIRONMENT IN WHICH INSTALLED.

FIELD VERIFY ALL CONDITIONS

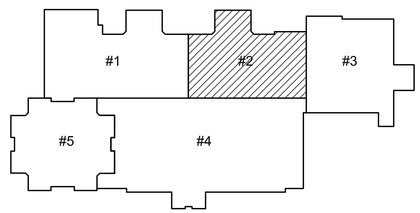
DESIGN DRAWINGS SCHEMATIC. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE STRUCTURAL ENGINEER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT STRUCTURAL ENGINEER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.



A ELECTRICAL – MECHANICAL EQUIPMENT LOCATION PLAN
SCALE: 1/16" = 1'-0"
AREA #2 A.D.C. BLDG



CHANIN ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-5421 FAX: (956) 687-3211
TBPE FIRM REG. NUMBER F-9369

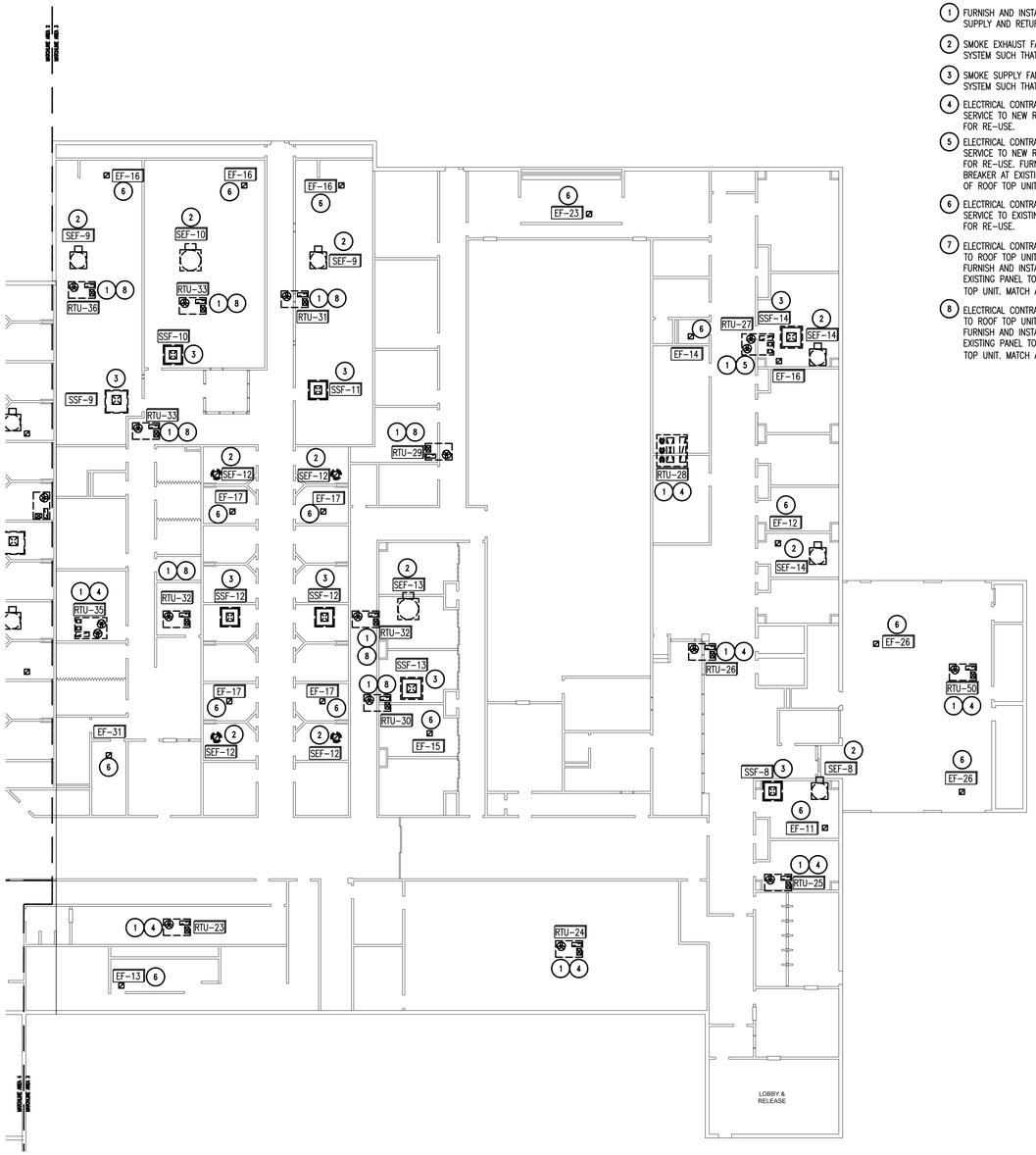
SEAL:
STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED
PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: M.G.
CHECKED BY:A.D.
REVISION:

DRAWING NO:
E8.0



KEY NOTES:

1. FURNISH AND INSTALL FIRE ALARM DUCT SMOKE DETECTOR AT SUPPLY AND RETURN AIR STREAM OF ROOF TOP UNITS.
2. SMOKE EXHAUST FAN SHALL BE INTERLOCKED WITH FIRE ALARM SYSTEM SUCH THAT DAMPER OPENS WHEN FAN IS ENERGIZED.
3. SMOKE SUPPLY FAN SHALL BE INTERLOCKED WITH FIRE ALARM SYSTEM SUCH THAT DAMPER OPENS WHEN FAN IS ENERGIZED.
4. ELECTRICAL CONTRACTOR SHALL EXTEND EXISTING ELECTRICAL SERVICE TO NEW ROOF TOP UNIT. EXISTING CIRCUIT TO REMAIN FOR RE-USE.
5. ELECTRICAL CONTRACTOR SHALL EXTEND EXISTING ELECTRICAL SERVICE TO NEW ROOF TOP UNIT. EXISTING CIRCUIT TO REMAIN FOR RE-USE. FURNISH AND INSTALL NEW 30 AMP, 3POLE CIRCUIT BREAKER AT EXISTING PANEL TO MATCH NEW NAME PLATE RATING OF ROOF TOP UNIT. MATCH AIC RATING.
6. ELECTRICAL CONTRACTOR SHALL EXTEND EXISTING ELECTRICAL SERVICE TO EXISTING EXHAUST FAN. EXISTING CIRCUIT TO REMAIN FOR RE-USE.
7. ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING (WIRE) FEEDER TO ROOF TOP UNIT. EXISTING CIRCUIT TO REMAIN FOR RE-USE. FURNISH AND INSTALL NEW 60 AMP, 2 POLE CIRCUIT BREAKER AT EXISTING PANEL TO MATCH NEW NAME PLATE RATING OF ROOF TOP UNIT. MATCH AIC RATING. ROUTE 2#4, #8G, 1"C.
8. ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING (WIRE) FEEDER TO ROOF TOP UNIT. EXISTING CIRCUIT TO REMAIN FOR RE-USE. FURNISH AND INSTALL NEW 20 AMP, 3 POLE CIRCUIT BREAKER AT EXISTING PANEL TO MATCH NEW NAME PLATE RATING OF ROOF TOP UNIT. MATCH AIC RATING. ROUTE 3#12, #12G, 1/2"C.

GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE STRUCTURAL ENGINEER.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

F. SCHEDULE FOR ALL POWER OUTAGES SHALL BE APPROVED PRIOR TO DEMOLITION.

G. ON ANY WORK SHOWN ON M.E.P. DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS.

H. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.

I. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.

GENERAL NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING PLANS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPTANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL HAVE SOUND RETARDING /ABSORBING FIRE STOP MATERIAL.

C. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT VOLTAGES, AND AMPERAGE RATINGS OF OWNER/CONTRACTOR PROVIDED EQUIPMENT PRIOR TO COMMENCING WORK. THE ELECTRICAL CONTRACTOR SHALL REPORT ANY AND ALL DISCREPANCIES TO THE STRUCTURAL ENGINEER IMMEDIATELY. ALL NECESSARY ELECTRICAL SERVICE CHANGES SHALL BE MADE BEFORE ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS ARE INSTALLED. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO REMOVE AND INSTALL ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS INSTALLED PRIOR TO THIS VERIFICATION.

D. ELECTRICAL CONTRACTOR SHALL KEEP EXISTING FIRE ALARM IN ORERATION UNTIL NEW FIRE ALARM SYSTEM IS FULLY OPERATIONAL.

E. ALL INTERIOR WORK TO BE BETWEEN THE HOURS OF 7PM-2AM.

F. SMOKE DETECTORS SHALL BE COMPATIBLE WITH ENVIRONMENT IN WHICH INSTALLED.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE STRUCTURAL ENGINEER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

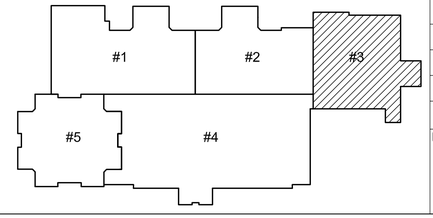
BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT STRUCTURAL ENGINEER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

NORTH

A ELECTRICAL - MECHANICAL EQUIPMENT LOCATION PLAN

SCALE: 1/16" = 1'-0"

AREA #3 A.D.C. BLDG



CHANIN ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-5421 FAX: (956) 687-3211
TBPE FIRM REG. NUMBER F-9369

SEAL:

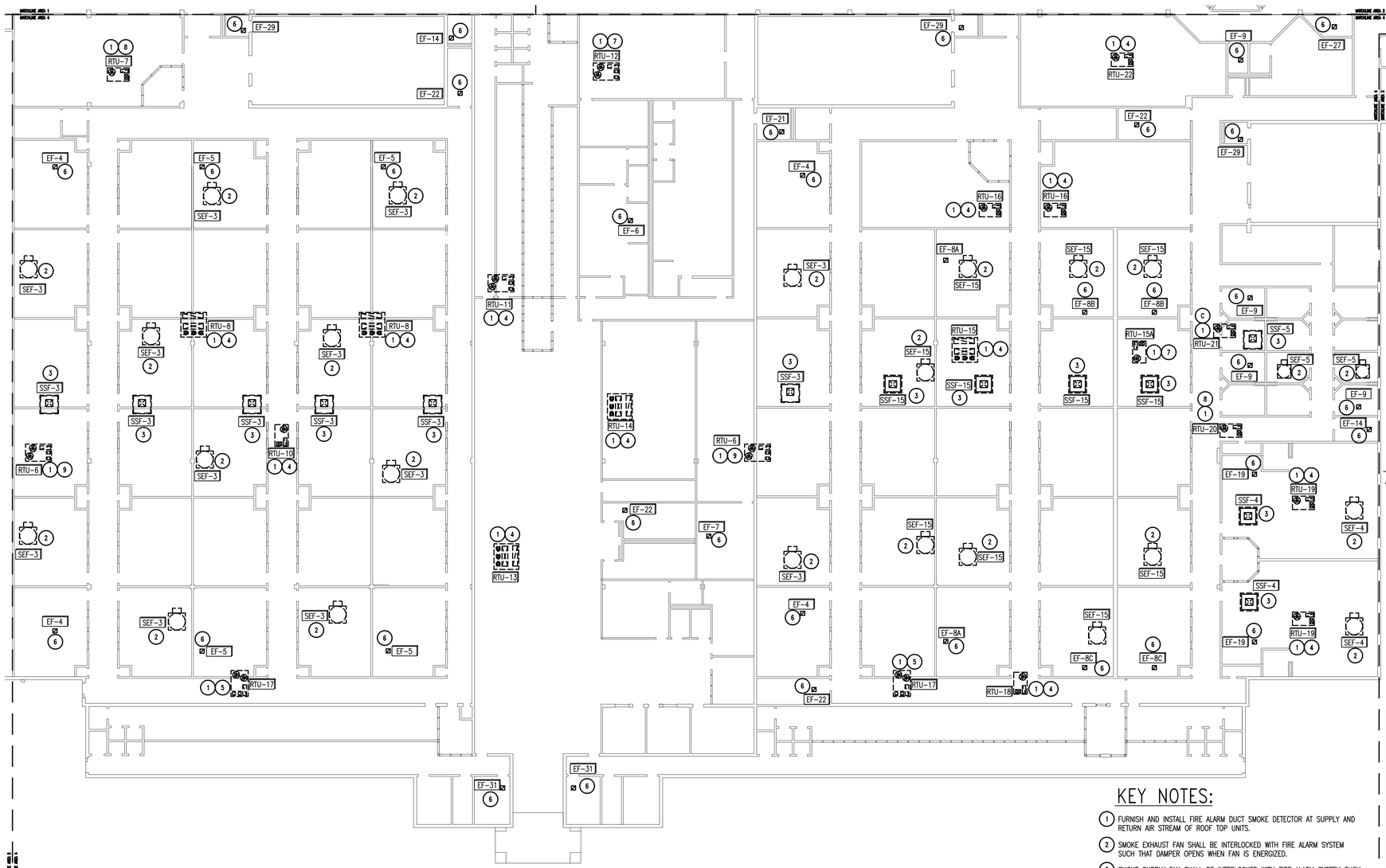
STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED
PROFESSIONAL ENGINEER
11.15.13

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: M.G.
CHECKED BY:A.D.
REVISION:

DRAWING NO:
E9.0



A ELECTRICAL – MECHANICAL EQUIPMENT LOCATION PLAN

SCALE: 1/16" = 1'-0"

AREA #4 A.D.C. BLDG

GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE STRUCTURAL ENGINEER.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

F. SCHEDULE FOR ALL POWER OUTAGES SHALL BE APPROVED PRIOR TO DEMOLITION.

G. ON ANY WORK SHOWN ON M.E.P. DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS.

H. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.

I. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.

GENERAL NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING PLANS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPTANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL HAVE SOUND RETARDING /ABSORBING FIRE STOP MATERIAL.

C. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT VOLTAGES, AND AMPERAGE RATINGS OF OWNER/CONTRACTOR PROVIDED EQUIPMENT PRIOR TO COMMENCING WORK. THE ELECTRICAL CONTRACTOR SHALL REPORT ANY AND ALL DISCREPANCIES TO THE STRUCTURAL ENGINEER IMMEDIATELY. ALL NECESSARY ELECTRICAL SERVICE CHANGES SHALL BE MADE BEFORE ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS ARE INSTALLED. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO REMOVE AND INSTALL ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS INSTALLED PRIOR TO THIS VERIFICATION.

D. ELECTRICAL CONTRACTOR SHALL KEEP EXISTING FIRE ALARM IN ORERATION UNTIL NEW FIRE ALARM SYSTEM IS FULLY OPERATIONAL.

E. ALL INTERIOR WORK TO BE BETWEEN THE HOURS OF 7PM-2AM.

F. SMOKE DETECTORS SHALL BE COMPATIBLE WITH ENVIRONMENT IN WHICH INSTALLED.

FIELD VERIFY ALL CONDITIONS

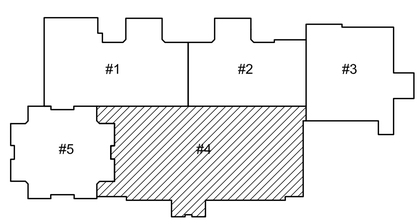
DESIGN DRAWINGS SCHEMATIC. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE STRUCTURAL ENGINEER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT STRUCTURAL ENGINEER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

KEY NOTES:

1. FURNISH AND INSTALL FIRE ALARM DUCT SMOKE DETECTOR AT SUPPLY AND RETURN AIR STREAM OF ROOF TOP UNITS.
2. SMOKE EXHAUST FAN SHALL BE INTERLOCKED WITH FIRE ALARM SYSTEM SUCH THAT DAMPER OPENS WHEN FAN IS ENERGIZED.
3. SMOKE SUPPLY FAN SHALL BE INTERLOCKED WITH FIRE ALARM SYSTEM SUCH THAT DAMPER OPENS WHEN FAN IS ENERGIZED.
4. ELECTRICAL CONTRACTOR SHALL EXTEND EXISTING ELECTRICAL SERVICE TO NEW ROOF TOP UNIT. EXISTING CIRCUIT TO REMAIN FOR RE-USE.
5. ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING (WIRE) FEEDER TO ROOF TOP UNIT. EXISTING CIRCUIT TO REMAIN FOR RE-USE. FURNISH AND INSTALL NEW 35 AMP, 2 POLE CIRCUIT BREAKER AT EXISTING PANEL TO MATCH NEW NAME PLATE RATING OF ROOF TOP UNIT. MATCH AIC RATING. ROUTE 2#8, #10G, 3/4"C.
6. ELECTRICAL CONTRACTOR SHALL EXTEND EXISTING ELECTRICAL SERVICE TO EXISTING EXHAUST FAN. EXISTING CIRCUIT TO REMAIN FOR RE-USE.
7. ELECTRICAL CONTRACTOR SHALL EXTEND EXISTING ELECTRICAL SERVICE TO NEW ROOF TOP UNIT. EXISTING CIRCUIT TO REMAIN FOR RE-USE. FURNISH AND INSTALL NEW 30 AMP, 3POLE CIRCUIT BREAKER AT EXISTING PANEL TO MATCH NEW NAME PLATE RATING OF ROOF TOP UNIT. MATCH AIC RATING.
8. ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING (WIRE) FEEDER TO ROOF TOP UNIT. EXISTING CIRCUIT TO REMAIN FOR RE-USE. FURNISH AND INSTALL NEW 20 AMP, 3 POLE CIRCUIT BREAKER AT EXISTING PANEL TO MATCH NEW NAME PLATE RATING OF ROOF TOP UNIT. MATCH AIC RATING. ROUTE 3#12, #12G, 1/2"C.
9. ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING (WIRE) FEEDER TO ROOF TOP UNIT. EXISTING CIRCUIT TO REMAIN FOR RE-USE. FURNISH AND INSTALL NEW 35 AMP, 3 POLE CIRCUIT BREAKER AT EXISTING PANEL TO MATCH NEW NAME PLATE RATING OF ROOF TOP UNIT. MATCH AIC RATING. ROUTE 3#8, #1 0G, 3/4"C.



CHANIN ENGINEERING LLC
400 Nolana, Suite N24
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
TBPE FIRM REG. NUMBER F-9369

SEAL:

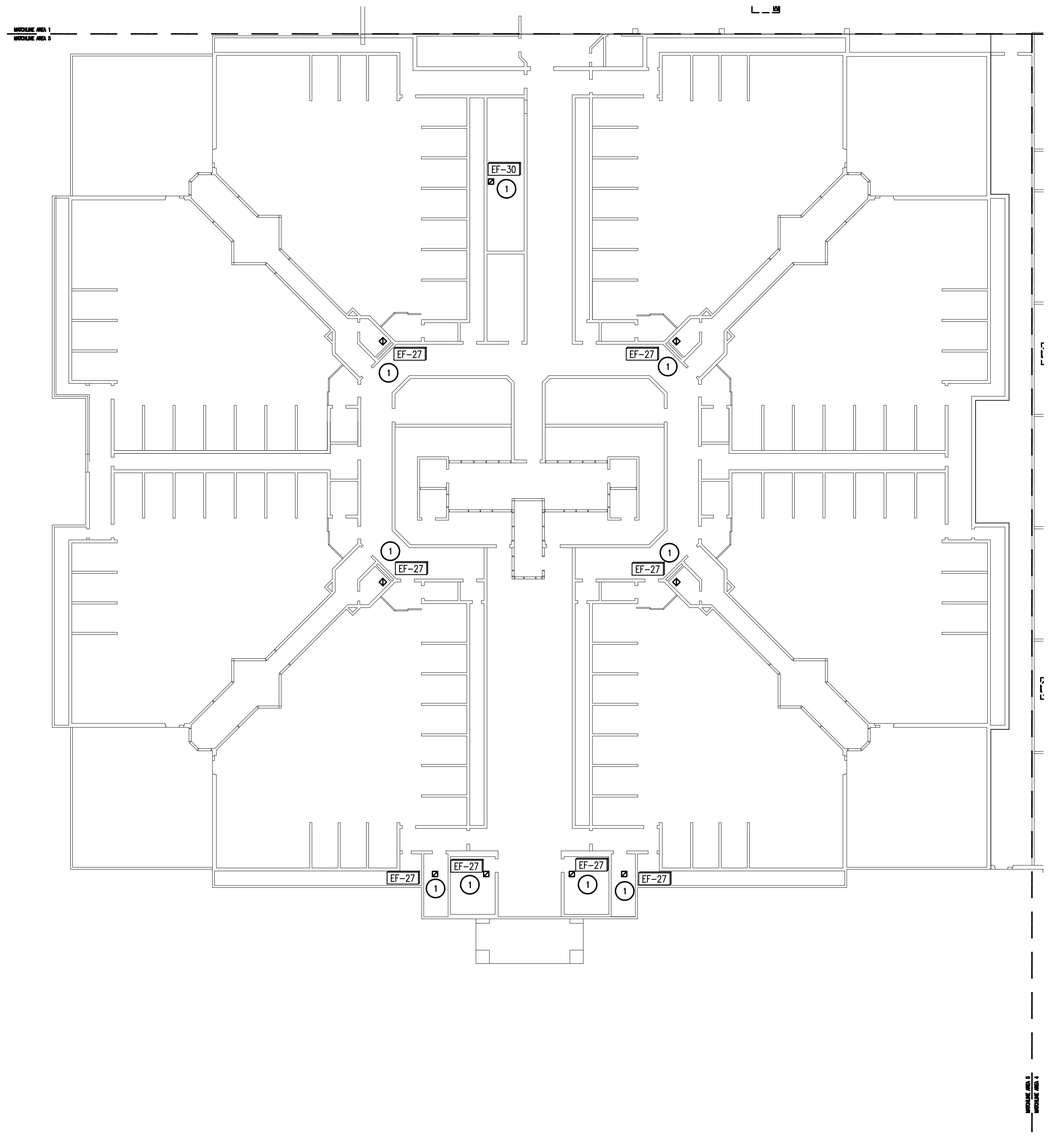
STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED PROFESSIONAL ENGINEER
11.15.13

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: M.G.
CHECKED BY:A.D.
REVISION:

DRAWING NO:
E10.0



KEY NOTES:

1. ELECTRICAL CONTRACTOR SHALL EXTEND EXISTING ELECTRICAL SERVICE TO EXISTING EXHAUST FAN. EXISTING CIRCUIT TO REMAIN FOR RE-USE.

GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE STRUCTURAL ENGINEER.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

F. SCHEDULE FOR ALL POWER OUTAGES SHALL BE APPROVED PRIOR TO DEMOLITION.

G. ON ANY WORK SHOWN ON M.E.P. DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS.

H. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.

I. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.

GENERAL NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING PLANS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPTANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL HAVE SOUND RETARDING /ABSORBING FIRE STOP MATERIAL.

C. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT VOLTAGES, AND AMPERAGE RATINGS OF OWNER/CONTRACTOR PROVIDED EQUIPMENT PRIOR TO COMMENCING WORK. THE ELECTRICAL CONTRACTOR SHALL REPORT ANY AND ALL DISCREPANCIES TO THE STRUCTURAL ENGINEER IMMEDIATELY. ALL NECESSARY ELECTRICAL SERVICE CHANGES SHALL BE MADE BEFORE ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS ARE INSTALLED. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO REMOVE AND INSTALL ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS INSTALLED PRIOR TO THIS VERIFICATION.

D. ELECTRICAL CONTRACTOR SHALL KEEP EXISTING FIRE ALARM IN ORERATION UNTIL NEW FIRE ALARM SYSTEM IS FULLY OPERATIONAL.

E. ALL INTERIOR WORK TO BE BETWEEN THE HOURS OF 7PM-2AM.

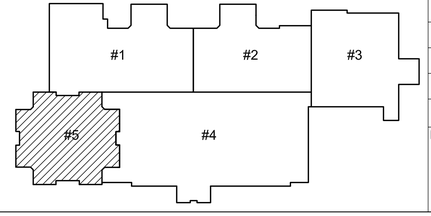
F. SMOKE DETECTORS SHALL BE COMPATIBLE WITH ENVIRONMENT IN WHICH INSTALLED.

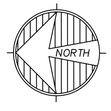
FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE STRUCTURAL ENGINEER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT STRUCTURAL ENGINEER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.





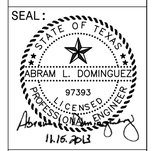
A ELECTRICAL - MECHANICAL EQUIPMENT LOCATION PLAN

SCALE: 1/16" = 1'-0"

AREA #5 - 1ST FLR A.D.C. BLDG

CHANIN ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
WWW.CHANINENGINEERING.COM
TBPE FIRM REG. NUMBER F-9369

SEAL:



MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:

HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159

DATE: 11/15/13

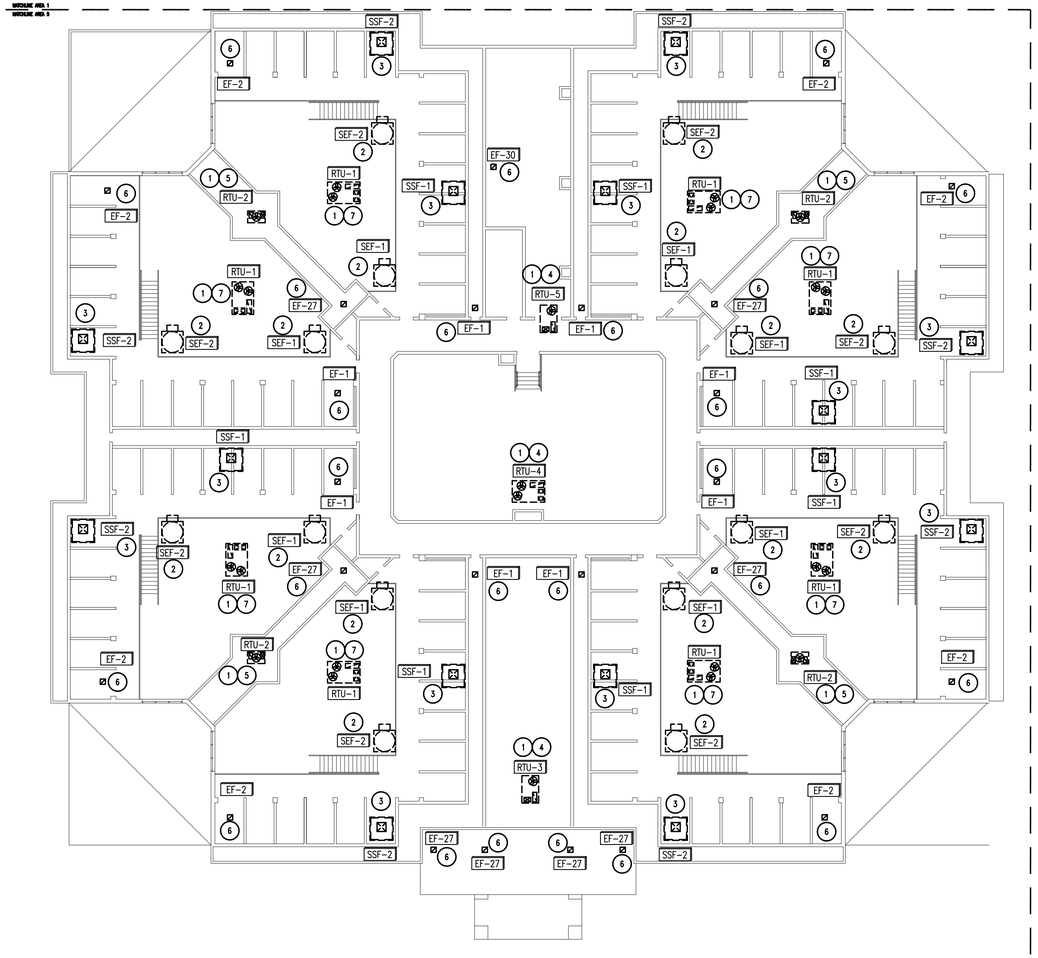
DRAWN BY: M.G.

CHECKED BY:A.D.

REVISION:

DRAWING NO:

E11.0



NORTH

A ELECTRICAL – MECHANICAL EQUIPMENT LOCATION PLAN

SCALE: 1/16" = 1'-0"

AREA #5 – 2ND FLR A.D.C. BLDG

KEY NOTES:

1. FURNISH AND INSTALL FIRE ALARM DUCT SMOKE DETECTOR AT SUPPLY AND RETURN AIR STREAM OF ROOF TOP UNITS.
2. SMOKE EXHAUST FAN SHALL BE INTERLOCKED WITH FIRE ALARM SYSTEM SUCH THAT DAMPER OPENS WHEN FAN IS ENERGIZED.
3. SMOKE SUPPLY FAN SHALL BE INTERLOCKED WITH FIRE ALARM SYSTEM SUCH THAT DAMPER OPENS WHEN FAN IS ENERGIZED.
4. ELECTRICAL CONTRACTOR SHALL EXTEND EXISTING ELECTRICAL SERVICE TO NEW ROOF TOP UNIT. EXISTING CIRCUIT TO REMAIN FOR RE-USE.
5. ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING (WIRE) FEEDER TO ROOF TOP UNIT. EXISTING CIRCUIT TO REMAIN FOR RE-USE. FURNISH AND INSTALL NEW 60 AMP, 2 POLE CIRCUIT BREAKER AT EXISTING PANEL TO MATCH NEW NAME PLATE RATING OF ROOF TOP UNIT. MATCH AIC RATING. ROUTE 2#4, #8G, 1"C.
6. ELECTRICAL CONTRACTOR SHALL EXTEND EXISTING ELECTRICAL SERVICE TO EXISTING EXHAUST FAN. EXISTING CIRCUIT TO REMAIN FOR RE-USE.
7. ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING (WIRE) FEEDER TO ROOF TOP UNIT. EXISTING CIRCUIT TO REMAIN FOR RE-USE. FURNISH AND INSTALL NEW 40 AMP, 3 POLE CIRCUIT BREAKER AT EXISTING PANEL TO MATCH NEW NAME PLATE RATING OF ROOF TOP UNIT. MATCH AIC RATING. ROUTE 3#8, #10G, 3/4"C.

GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE STRUCTURAL ENGINEER.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

F. SCHEDULE FOR ALL POWER OUTAGES SHALL BE APPROVED PRIOR TO DEMOLITION.

G. ON ANY WORK SHOWN ON M.E.P. DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS.

H. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.

I. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.

GENERAL NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING PLANS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPTANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL HAVE SOUND RETARDING /ABSORBING FIRE STOP MATERIAL.

C. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT VOLTAGES, AND AMPERAGE RATINGS OF OWNER/CONTRACTOR PROVIDED EQUIPMENT PRIOR TO COMMENCING WORK. THE ELECTRICAL CONTRACTOR SHALL REPORT ANY AND ALL DISCREPANCIES TO THE STRUCTURAL ENGINEER IMMEDIATELY. ALL NECESSARY ELECTRICAL SERVICE CHANGES SHALL BE MADE BEFORE ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS ARE INSTALLED. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO REMOVE AND INSTALL ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS INSTALLED PRIOR TO THIS VERIFICATION.

D. ELECTRICAL CONTRACTOR SHALL KEEP EXISTING FIRE ALARM IN ORERATION UNTIL NEW FIRE ALARM SYSTEM IS FULLY OPERATIONAL.

E. ALL INTERIOR WORK TO BE BETWEEN THE HOURS OF 7PM-2AM.

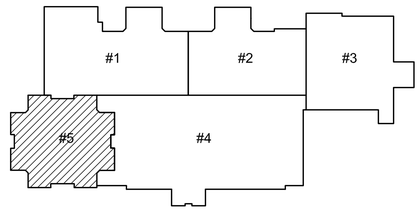
F. SMOKE DETECTORS SHALL BE COMPATIBLE WITH ENVIRONMENT IN WHICH INSTALLED.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE STRUCTURAL ENGINEER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT STRUCTURAL ENGINEER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.



CHANIN ENGINEERING LLC
400 Nolana, Suite N4
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
TBPE FIRM REG. NUMBER F-9369

SEAL:

STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED
PROFESSIONAL ENGINEER
11.15.13

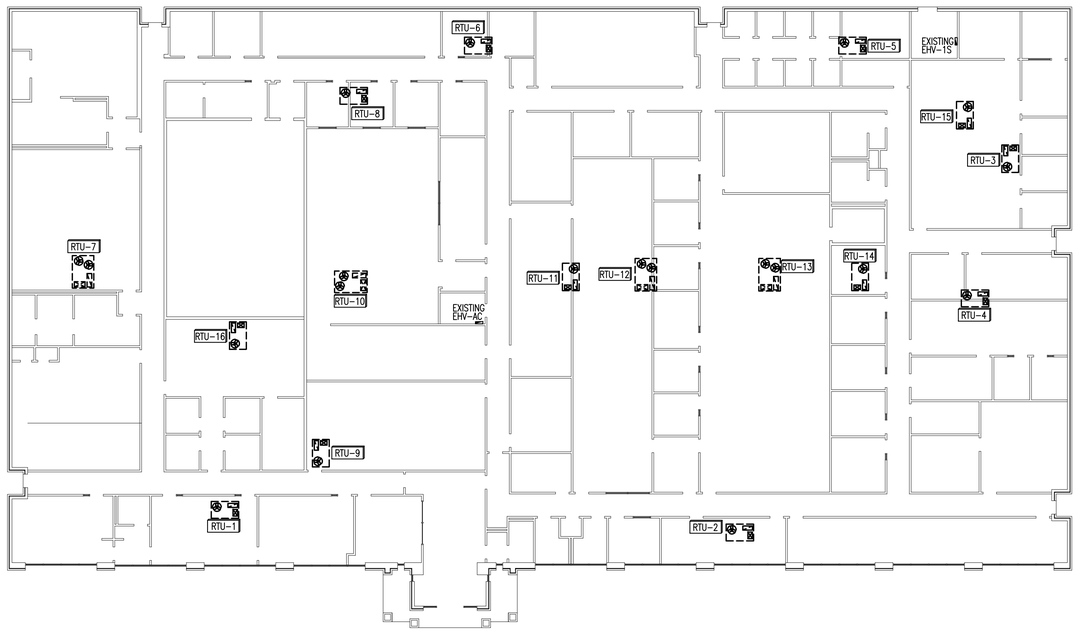
MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:

HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: M.G.
CHECKED BY:A.D.
REVISION:
DRAWING NO:

E12.0



NORTH

A ELECTRICAL – MECHANICAL EQUIPMENT LOCATION PLAN

SCALE: 1/16" = 1'-0" L.E.C. BLDG

GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE STRUCTURAL ENGINEER.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

F. SCHEDULE FOR ALL POWER OUTAGES SHALL BE APPROVED PRIOR TO DEMOLITION.

G. ON ANY WORK SHOWN ON M.E.P. DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS.

H. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.

I. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.

GENERAL NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING PLANS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPTANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL HAVE SOUND RETARDING /ABSORBING FIRE STOP MATERIAL.

C. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT VOLTAGES, AND AMPERAGE RATINGS OF OWNER/CONTRACTOR PROVIDED EQUIPMENT PRIOR TO COMMENCING WORK. THE ELECTRICAL CONTRACTOR SHALL REPORT ANY AND ALL DISCREPANCIES TO THE STRUCTURAL ENGINEER IMMEDIATELY. ALL NECESSARY ELECTRICAL SERVICE CHANGES SHALL BE MADE BEFORE ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS ARE INSTALLED. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO REMOVE AND INSTALL ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS INSTALLED PRIOR TO THIS VERIFICATION.

D. ELECTRICAL CONTRACTOR SHALL KEEP EXISTING FIRE ALARM IN ORERATION UNTIL NEW FIRE ALARM SYSTEM IS FULLY OPERATIONAL.

E. ALL INTERIOR WORK TO BE BETWEEN THE HOURS OF 7PM-2AM.

F. SMOKE DETECTORS SHALL BE COMPATIBLE WITH ENVIRONMENT IN WHICH INSTALLED.

G. FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE. REFER TO DETAIL C /SHEET E16.0.

H. REFER TO SHEET M6.0 FOR FIRE SMOKE DAMPERS. TIE INTO FIRE ALARM SYSTEM.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE STRUCTURAL ENGINEER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT STRUCTURAL ENGINEER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

CHANIN ENGINEERING LLC
400 Nolana, Suite N24
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
WWW.CHANINENGINEERING.COM
TBPE FIRM REG. NUMBER F-9369

SEAL:

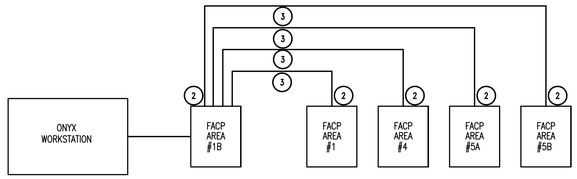
STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

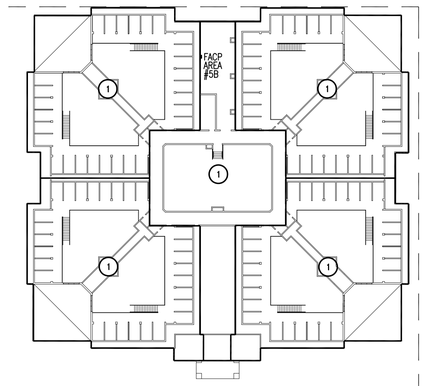
PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: M.G.
CHECKED BY:A.D.
REVISION:

DRAWING NO:
E13.0

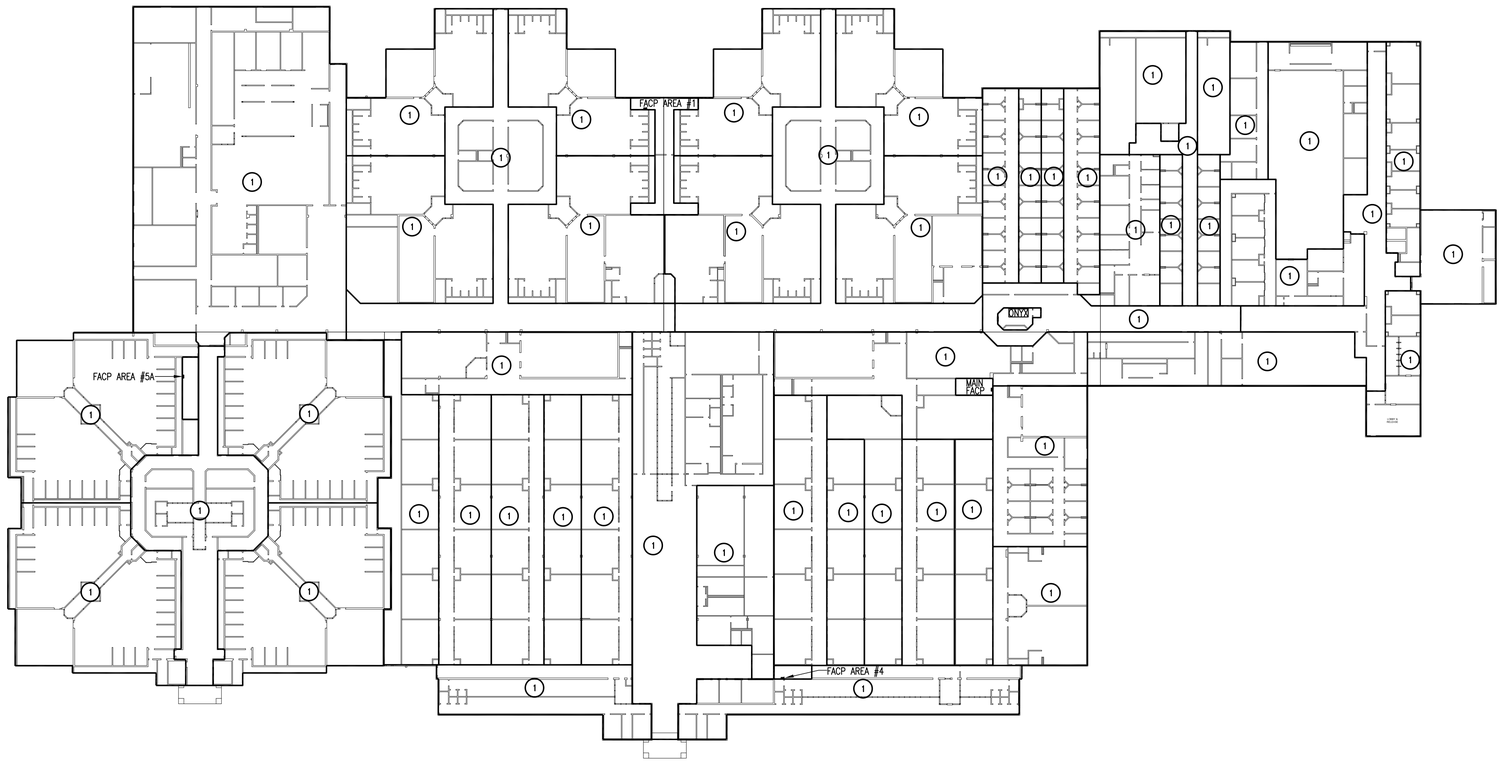


C ELECTRICAL FIRE ALARM DIAGRAM
SCALE: NTS



NORTH

B ELECTRICAL SPECIAL SYSTEMS PLAN
SCALE: 1" = 40'-0" OVERALL AREA A.D.C. BLDG



NORTH

A ELECTRICAL SPECIAL SYSTEMS PLAN
SCALE: 1" = 40'-0" OVERALL AREA A.D.C BLGD

KEY NOTES:

1. FURNISH AND INSTALL NOTIFIER 150-X FAULT ISOLATOR MODULE FOR HIGHLIGHTED AREA. A MAXIMUM OF 25 DEVICES IN-BETWEEN ISOLATORS.
2. FURNISH AND INSTALL NOTIFIER NCM-F FIBER OPTIC NETWORK CONTROL MODULE.
3. FURNISH AND INSTALL 6 STRAND ARMORED- INNER/OUTER RATED FIBER BETWEEN FIRE ALARM CONTROL PANELS.

GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE STRUCTURAL ENGINEER.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

F. SCHEDULE FOR ALL POWER OUTAGES SHALL BE APPROVED PRIOR TO DEMOLITION.

G. ON ANY WORK SHOWN ON M.E.P. DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS.

H. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.

I. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.

GENERAL NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING PLANS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPTANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL HAVE SOUND RETARDING /ABSORBING FIRE STOP MATERIAL.

C. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT VOLTAGES, AND AMPERAGE RATINGS OF OWNER/CONTRACTOR PROVIDED EQUIPMENT PRIOR TO COMMENCING WORK. THE ELECTRICAL CONTRACTOR SHALL REPORT ANY AND ALL DISCREPANCIES TO THE STRUCTURAL ENGINEER IMMEDIATELY. ALL NECESSARY ELECTRICAL SERVICE CHANGES SHALL BE MADE BEFORE ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS ARE INSTALLED. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO REMOVE AND INSTALL ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS INSTALLED PRIOR TO THIS VERIFICATION.

D. ELECTRICAL CONTRACTOR SHALL KEEP EXISTING FIRE ALARM IN ORERATION UNTIL NEW FIRE ALARM SYSTEM IS FULLY OPERATIONAL.

E. ALL INTERIOR WORK TO BE BETWEEN THE HOURS OF 7PM-2AM.

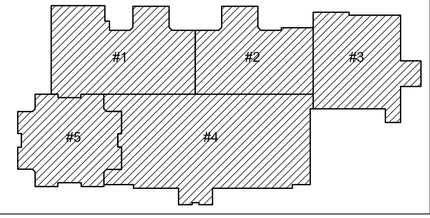
F. SMOKE DETECTORS SHALL BE COMPATIBLE WITH ENVIRONMENT IN WHICH INSTALLED.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE STRUCTURAL ENGINEER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT STRUCTURAL ENGINEER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.



CHANIN ENGINEERING LLC
400 Nolana, Suite N24
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
TBPE FIRM REG. NUMBER F-9369

SEAL:

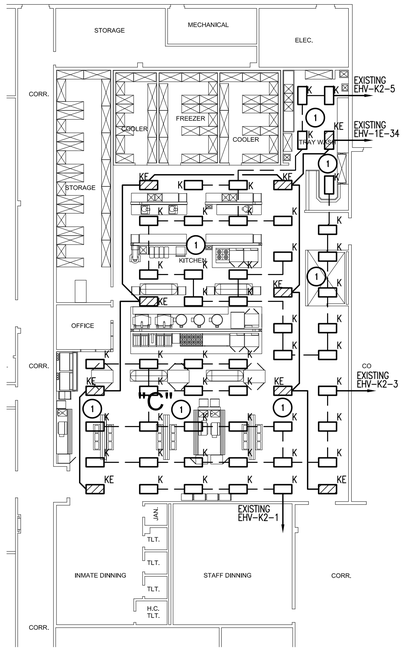
STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED
PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: M.G.
CHECKED BY:A.D.
REVISION:

DRAWING NO:
E14.0

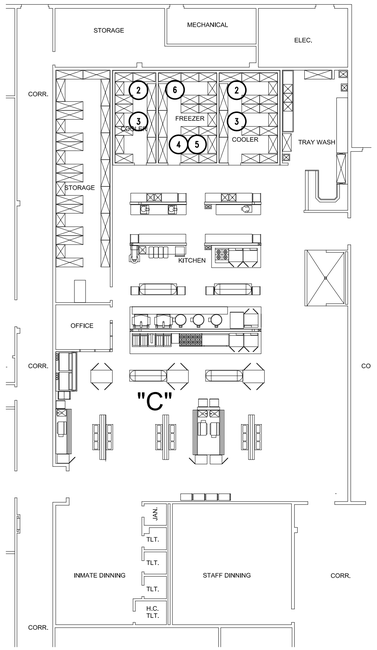


NORTH

B ENLARGED ELECTRICAL LIGHTING PLAN

SCALE: 1/16" = 1'-0"

ALTERNATE – KITCHEN A.D.C. BLDG



NORTH

C ENLARGED ELECTRICAL POWER PLAN

SCALE: 1/16" = 1'-0"

ALTERNATE – KITCHEN A.D.C. BLDG

KEY NOTES:

1. EXISTING KITCHEN LIGHT FIXTURES TO BE REMOVE. FURNISH AND INSTALL NEW LIGHT FIXTURES, REFER TO ELECTRICAL LIGHTING FIXTURE SCHDULE ON SHEET E16.0.

   EXISTING REMOTE COOLER FOR COOLER TO BE REMOVE. FURNISH AND INSTALL NEW REMOTE CONDENSER FOR COOLER. COORDINATE EXACT LOCATION AND BREAKER/DISCONNECT/WIRING SIZE WITH EQUIPMENT INSTALLER.

3. EXISTING EVAPORATOR COIL AND LIGHTING FOR COOLER TO BE REMOVE. FURNISH AND INSTALL NEW EVAPORATOR COIL AND LIGHTING FOR COOLER. COORDINATE EXACT LOCATION AND BREAKER/WIRING SIZE WITH EQUIPMENT INSTALLER.

4. EXISTING 120V CONNECTION FOR WALK-IN LIGHTS AND DOOR HEATER FOR FREEZER TO BE REMOVED. FURNISH AND INSTALL NEW 120V CONNECTION FOR WALK-IN LIGHTS AND DOOR HEATER FOR FREEZER VERIFY CONNECTION AND SIZE WITH EQUIPMENT INSTALLER.

5. EXISTING EVAPORATOR COIL FOR FREEZER TO BE REMOVE. FURNISH AND INSTALL NEW EVAPORATOR COIL FOR FREEZER COORDINATE EXACT LOCATION AND BREAKER/WIRING SIZE WITH EQUIPMENT INSTALLER.

6. EXISTING REMOTE CONDENSER FOR FREEZER TO BE REMOVE. FURNISH AND INSTALL NEW REMOTE CONDENSER FOR FREEZER COORDINATE EXACT LOCATION AND BREAKER/DISCONNECT/WIRING SIZE WITH EQUIPMENT INSTALLER.

GENERAL DEMOLITION NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND BECOME FULLY INFORMED AS TO THE EXTENT OF WORK PRIOR TO BIDDING OR COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE STRUCTURAL ENGINEER.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

F. SCHEDULE FOR ALL POWER OUTAGES SHALL BE APPROVED PRIOR TO DEMOLITION.

G. ON ANY WORK SHOWN ON M.E.P. DRAWINGS WHICH REQUIRES DEMOLITION OF BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS.

H. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.

I. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO DEMOLITION IS MANDATORY.

GENERAL NOTES:

A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING PLANS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPTANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL HAVE SOUND RETARDING /ABSORBING FIRE STOP MATERIAL.

C. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT VOLTAGES, AND AMPERAGE RATINGS OF OWNER/CONTRACTOR PROVIDED EQUIPMENT PRIOR TO COMMENCING WORK. THE ELECTRICAL CONTRACTOR SHALL REPORT ANY AND ALL DISCREPANCIES TO THE STRUCTURAL ENGINEER IMMEDIATELY. ALL NECESSARY ELECTRICAL SERVICE CHANGES SHALL BE MADE BEFORE ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS ARE INSTALLED. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO REMOVE AND INSTALL ANY ELECTRICAL EQUIPMENT, DEVICES, CONDUIT AND CONDUCTORS INSTALLED PRIOR TO THIS VERIFICATION.

D. ELECTRICAL CONTRACTOR SHALL KEEP EXISTING FIRE ALARM IN ORERATION UNTIL NEW FIRE ALARM SYSTEM IS FULLY OPERATIONAL.

E. ALL INTERIOR WORK TO BE BETWEEN THE HOURS OF 7PM-2AM.

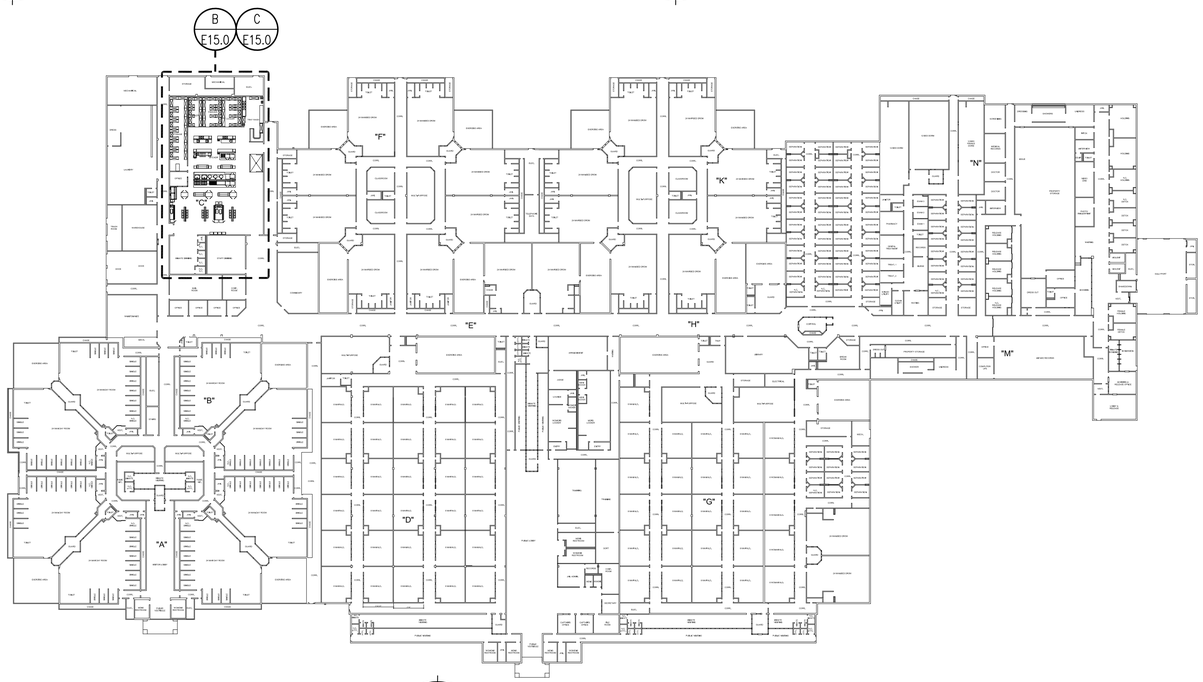
F. SMOKE DETECTORS SHALL BE COMPATIBLE WITH ENVIRONMENT IN WHICH INSTALLED.

FIELD VERIFY ALL CONDITIONS

DESIGN DRAWINGS SCHEMATIC. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FEILD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECCESSARY FOR FEILD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE STRUCTURAL ENGINEER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

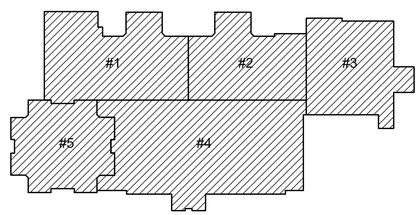
BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT STRUCTURAL ENGINEER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.



NORTH

A ELECTRICAL PLAN

SCALE: 1" = 50'-0" OVERALL A.D.C. BLDG



CHANIN ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
TBPE FIRM REG. NUMBER F-9369

SEAL:

STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED
PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:

HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: M.G.
CHECKED BY:A.D.
REVISION:
DRAWING NO:
E15.0

ELECTRICAL LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
F	FIRE ALARM PULL STATION	48" AFF
F	FIRE ALARM AUDIBLE/VISUAL SIGNAL	80" AFF
F	FIRE ALARM AUDIBLE SIGNAL	80" AFF
F	FIRE ALARM VISUAL SIGNAL	80" AFF
S	SPEAKER VOICE EVAC SYSTEM	80" AFF
S H S	FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED	80" AFF
H H	HEAT DETECTOR CEILING OR WALL MOUNTED	–
D	DUCT SMOKE DETECTOR	–
FACP	FIRE ALARM CONTROL PANEL – NOTIFIER NF52–3030	–
NCA	FIRE ALARM NETWORK CONTROL ANNUNCIATOR – NOTIFIER NCA–2	–
FS	FIRE ALARM SPRINKLER FLOW SWITCH	–
TS	FIRE ALARM SPRINKLER TAMPER SWITCH	–
PS	FIRE ALARM SPRINKLER PRESSURE SWITCH	–
	FIRE SMOKE DAMPER ACTUATED BY FIRE ALARM CONTROL PANEL	–
S G	FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED WITH GUARD	–
S A	FIRE ALARM SMOKE DETECTOR ABOVE CIELING	–
F G	FIRE ALARM AUDIBLE/VISUAL SIGNAL WITH GUARD	–
F G	FIRE ALARM VISUAL SIGNAL WITH GUARD	–
ONYX	ONYX WORKSTATION – NOTIFIER SERIES UNINET 2000	–
	2'x4' FLUORESCENT LIGHT FIXTURE	SEE FIX. SCH.
	2'x4' FLUORESCENT LIGHT FIXTURE ON BATTERY PACK	SEE FIX. SCH.

UG	UNDERGROUND	UNO(U.N.O.)	UNLESS NOTED OTHERWISE
ABS	ABOVE BACK SPLASH	BFC	GROUND FAULT INTERRUPTER
AFF	ABOVE FINISHED FLOOR	GFI	BELOW FINISHED CEILING
WP	WEATHERPROOF	CB	CIRCUIT BREAKER
C	CONDUIT	EX	EXISTING

NOTES:
1. 48" AFF INDICATES TO TOP OF DEVICE;
   15" AFF INDICATES TO BOTTOM OF DEVICE;
   ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

A ELECTRICAL LEGEND
SCALE: NTS

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & MODEL #	LAMPS/TEMP/VA	VOLTAGE	REMARKS
K	2' X 4' LAY–IN TROFFER WITH NOMINAL 0.125" THICK INVERTED PATTERN 12 ACRYLIC LENS AND GASKETING BETWEEN LENS/DOOR, DOOR/FRAME	LITHONIA #2SPG332A12125VMVOLTGEB10ISABC COOPER #2GC–332A125INV–UNV–EB82–G3–U OR EQUAL BY HUBBLE	3–F32T8 3500K 88	120/277	1
KE	2' X 4' LAY–IN TROFFER WITH NOMINAL 0.125" THICK INVERTED PATTERN 12 ACRYLIC LENS AND GASKETING BETWEEN LENS/DOOR, DOOR/FRAME	LITHONIA #2SPG332A12125VMVOLTGEB10ISABC COOPER #2GC–332A125INV–UNV–EL–FBP240HU–EB82–G3–U OR EQUAL BY HUBBLE	3–F32T8 3500K 88	120/277	1
SA	SINGLE HEAD ARM MOUNTED AREA LIGHT WITH FLAT LENS WITH TYPE III DISTRIBUTION MOUNTED ON 30' POLE, 24" PEDESTAL DARK BRONZE, MATCH EXISTING FIXTURE	STONCO #MCL3400MAX WITH KW #SSP30–5.0–7–DB–DM10–BC FIELD VERIFY EXISTING VOLTAGE	1–400MH 470	FIELD VERIFY	
SB	THREE HEAD ARM MOUNTED AREA LIGHT WITH FLAT LENS WITH TYPE III DISTRIBUTION MOUNTED ON 30' POLE, 24" PEDESTAL DARK BRONZE, MATCH EXISTING FIXTURE	STONCO #MCL3400MAX WITH KW #SSP30–5.0–7–DB–DM10–BC FIELD VERIFY EXISTING VOLTAGE	3–400MH 1410	FIELD VERIFY	

B ELECTRICAL LIGHTING FIXTURE SCHEDULE
SCALE: NTS A.D.C. & L.E.C. BLDG

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

MECHANICAL EQUIPMENT				DISCONNECTING MEANS AND/OR BRANCH CIRCUIT SIZE
UNIT DESIGNATION	CIRCUIT DESIGNATION	LOCATION	NOTES	
RTU–1	EHV–AC–1,3,5	ROOF	1,2	3#8, #10G, 3/4"C
RTU–2	EHV–AC–2,4,6	ROOF	1,2	3#8, #10G, 3/4"C
RTU–3	EHV–AC–7,9,11	ROOF	1,2	3#12, #12G, 3/4"C
RTU–4	EHV–AC–38,40,42	ROOF	1,2	3#12, #12G, 3/4"C
RTU–5	EHV–AC–13,15,17	ROOF	1,2	3#12, #12G, 3/4"C
RTU–6	EHV–AC–8,10,12	ROOF	1,2	3#12, #12G, 3/4"C
RTU–7	EHV–AC–19,21,23	ROOF	1,2	3#6, #10G, 3/4"C
RTU–8	EHV–AC–14,16,18	ROOF	1,2	3#12, #12G, 3/4"C
RTU–9	EHV–AC–25,27,29	ROOF	1,2	3#8, #10G, 3/4"C
RTU–10	EHV–1S–37,39,41	ROOF	1,2	3#6, #10G, 3/4"C
RTU–11	EHV–AC–31,33,35	ROOF	1,2	3#12, #12G, 3/4"C
RTU–12	EHV–AC–20,22,24	ROOF	1,2	3#6, #10G, 3/4"C
RTU–13	EHV–AC–387,39,41	ROOF	1,2	3#6, #10G, 3/4"C
RTU–14	EHV–AC–26,28,30	ROOF	1,2	3#12, #12G, 3/4"C
RTU–15	EHV–AC–32,34,36	ROOF	1,2	3#12, #12G, 3/4"C
RTU–16	EHV–1S–38,40,42	ROOF	1,2	3#12, #12G, 3/4"C

GENERAL NOTES:
A. ALL DISCONNECTS AND COMBINATION STARTERS ARE NEMA 1 ENCLOSED, UNO.
B. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIV. 15 AND FURNISH AND INSTALL POWER FOR CONTROLS.

NOTES:
1. FURNISH AND INSTALL DUCT SMOKE DETECTOR AT SUPPLY & RETURN DUCT. FURNISH AND INSTALL RELAY FOR SHUT DOWN CONTROL.

C ELECTRICAL – MECHANICAL EQUIPMENT CONNECTION SCHEDULE
SCALE: NTS L.E.C. BLDG

EXISTING PANELBOARD EHV–AC

VOLTAGE: 480Y/277 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
400 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN – 400 A; NEUTRAL – 100%; EQUIPMENT GROUND — Isc = 22,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
		7538	RTU–1	35/3*	1	A	2	35/3*	RTU–2			7538
		7538	*	–	3	B	4	–	*			7538
		7538	*	–	5	C	6	–	*			7538
		3991	RTU–3	20/3*	7	A	8	20/3*	RTU–6			3991
		3991	*	–	9	B	10	–	*			3991
		3991	*	–	11	C	12	–	*			3991
		3991	RTU–5	20/3*	13	A	14	20/3*	RTU–8			3991
		3991	*	–	15	B	16	–	*			3991
		3991	*	–	17	C	18	–	*			3991
		10863	RTU–7	50/3*	19	A	20	50/3*	RTU–12			10863
		10863	*	–	21	B	22	–	*			10863
		10863	*	–	23	C	24	–	*			10863
		7538	RTU–9	35/3*	25	A	26	20/3*	RTU–14			3991
		7538	*	–	27	B	28	–	*			3991
		7538	*	–	29	C	30	–	*			3991
		3991	RTU–11	20/3*	31	A	32	20/3*	RTU–15			3991
		3991	*	–	33	B	34	–	*			3991
		3991	*	–	35	C	36	–	*			3991
		10863	RTU–13	50/3*	37	A	38	20/3*	RTU–4			3991
		10863	*	–	39	B	40	–	*			3991
		10863	*	–	41	C	42	–	*			3991

*=FURNISH AND INSTALL CIRCUIT BREAKER AS INDICATED. MATCH AIC RATING.

VA:L (LIGHTING)			CONNECTED		DEMAND
VA:R (RECEPTACLES)			CONNECTED		DEMAND
VA:O (OTHER)		261393	CONNECTED	261393	DEMAND
VA: TOTAL		261393	CONNECTED	261393	DEMAND
AMPS: TOTAL		314	CONNECTED	314	DEMAND

L	R	O		TOTAL			
		87131	VA CONNECTED TO A PHASE	87131	VA =	315	AMPS CONNECTED TO A PHASE @ 277 VOLTS
		87131	VA CONNECTED TO B PHASE	87131	VA =	315	AMPS CONNECTED TO B PHASE @ 277 VOLTS
		87131	VA CONNECTED TO C PHASE	87131	VA =	315	AMPS CONNECTED TO C PHASE @ 277 VOLTS
		261393	TOTAL	261393	VA		

EXISTING PANELBOARD EHV–1S

VOLTAGE: 480Y/277 VOLT 3 PHASE 4 WIRE — LOCATION: ROOM
225 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN – 225 A; NEUTRAL – 100%; EQUIPMENT GROUND — Isc = 14,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
2439			EXISTING LIGHTING	20/1	1	A	2	20/1	EXISTING LIGHTING	2554		
2514			EXISTING LIGHTING	20/1	3	B	4	20/1	EXISTING LIGHTING	2466		
2439			EXISTING LIGHTING	20/1	5	C	6	20/1	EXISTING LIGHTING	2522		
1936			EXISTING LIGHTING	20/1	7	A	8	20/1	EXISTING LIGHTING	1381		
1464			EXISTING LIGHTING	20/1	9	B	10	20/1	EXISTING LIGHTING	1293		
1346			EXISTING LIGHTING	20/1	11	C	12	20/1	EXISTING LIGHTING	1293		
1605			EXISTING LIGHTING	20/1	13	A	14	20/1	EXISTING LIGHTING	1584		
1522			EXISTING LIGHTING	20/1	15	B	16	20/1	EXISTING LIGHTING	1202		
1522			EXISTING LIGHTING	20/1	17	C	18	20/1	EXISTING LIGHTING	1430		
1672			EXISTING LIGHTING	20/1	19	A	20	20/1	EXISTING EXTERIOR LIGHTING	2600		
			SPARE	20/1	21	B	22	20/1	EXISTING EXTERIOR LIGHTING	2340		
			SPARE	20/1	23	C	24	20/1	EXISTING EXTERIOR LIGHTING	2100		
			SPARE	20/1	25	A	26	20/1	EXISTING EXTERIOR LIGHTING	2050		
			SPARE	20/1	27	B	28	20/1	EXISTING EXTERIOR LIGHTING	1600		
			SPARE	20/1	29	C	30	20/1	EXISTING EXTERIOR LIGHTING	1000		
			SPARE	20/1	31	A	32	30/3	EXISTING WH			4982
			SPARE	20/1	33	B	34	–	*			4982
			SPARE	20/1	35	C	36	–	*			4982
		10863	RTU–10	50/3*	37	A	38	20/3*	RTU–16			3991
		10863	*	–	39	B	40	–	*			3991
		10863	*	–	41	C	42	–	*			3991

*=FURNISH AND INSTALL CIRCUIT BREAKER AS INDICATED. MATCH AIC RATING.

VA:L (LIGHTING)		45874	CONNECTED	57343	DEMAND
VA:R (RECEPTACLES)			CONNECTED		DEMAND
VA:O (OTHER)		59508	CONNECTED	59508	DEMAND
VA: TOTAL		105382	CONNECTED	116851	DEMAND
AMPS: TOTAL		127	CONNECTED	141	DEMAND

L	R	O		TOTAL			
17821		19836	VA CONNECTED TO A PHASE	37657	VA =	136	AMPS CONNECTED TO A PHASE @ 277 VOLTS
14401		19836	VA CONNECTED TO B PHASE	34237	VA =	124	AMPS CONNECTED TO B PHASE @ 277 VOLTS
13652		19836	VA CONNECTED TO C PHASE	33488	VA =	121	AMPS CONNECTED TO C PHASE @ 277 VOLTS
45874		59508	TOTAL	105382	VA		

D ELECTRICAL PANEL SCHEDULES
SCALE: NTS L.E.C. BLDG

CHANIN ENGINEERING LLC
400 Nolana, Suite N24
McAllen, Texas 78504
PH: (956) 687-5421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

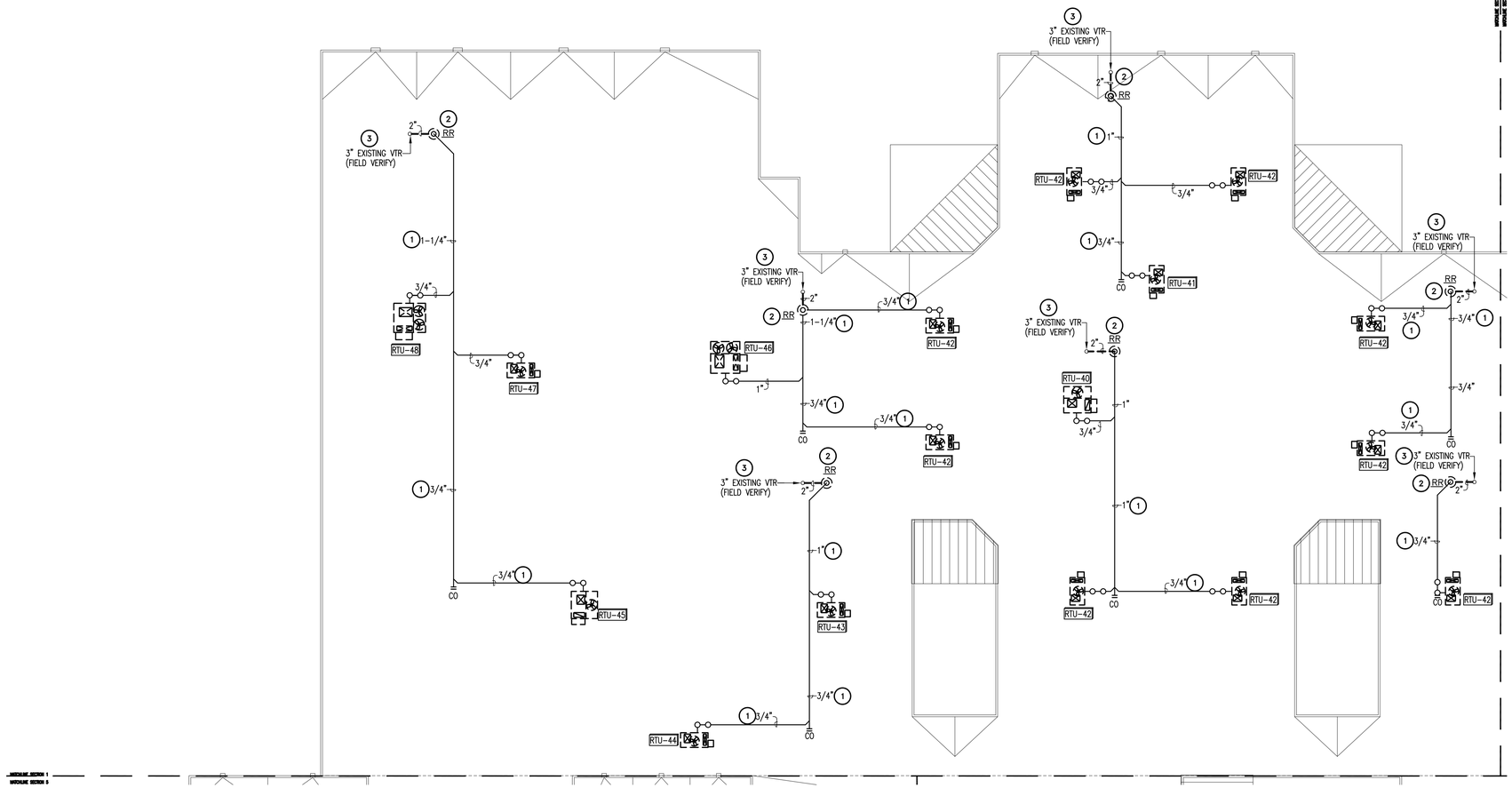
SEAL:
STATE OF TEXAS
ABRAM L. DOMINGUEZ
97393
LICENSED
PROFESSIONAL ENGINEER
11.15.13

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: M.G.
CHECKED BY:A.D.
REVISION:

DRAWING NO:
E16.0



GENERAL NOTES:

(A) INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.

(B) PLUMBING CONTRACTOR SHALL ADHERE TO ALL CITY CODES, STATE CODES AND LOCAL CODES THAT HAVE AUTHORITY OVER THIS PROJECT.

(C) PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY INSTALLATION OF PIPING AND DUCTWORK PRIOR TO BEGINNING OF CONSTRUCTION

(D) EACH ROOF TOP UNIT SHALL BE PROVIDED WITH A FIELD FABRICATED P-TRAP. REFER TO DETAIL.

(E) COPPER CONDENSATE DRAIN LINES SHALL BE ROUTED ON THE ROOF AND FURNISHED WITH INSULATION AND ALUMINUM JACKET.

(F) PLUMBING CONTRACTOR SHALL OFFSET CONDENSATE DRAIN LINES AS REQUIRED TO AVOID CONFLICTS WITH EXISTING ROOF MOUNTED EQUIPMENTS.

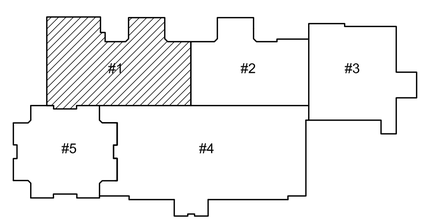
KEY NOTES: ○

1. INSULATE COPPER CONDENSATE DRAIN LINE AND PROVIDE PIPE SUPPORTS MAXIMUM 10'-0" O.C. SPACING. ROUTE AND TERMINATE AT NEAREST ROOF RECEPTOR. PIPE SUPPORTS SHALL BE EQUAL TO MIRO INDUSTRIES MODEL "3-RAH-7".
2. COORDINATE ROOF RECEPTOR DRAIN LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR FOR FINAL EQUIPMENT LOCATIONS PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT. ROOF RECEPTER BODY, TRAP, AND BRANCH CONNECTION TO VENT SHALL BE CAST IRON (OR PLENUM RATED) AND SHALL BE INSULATED.
3. PLUMBING CONTRACTOR SHALL VERIFY POINT OF CONNECTION TO BUILDING UTILITIES PRIOR TO BID TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

NORTH

A ROOF CONDENSATE PLAN
SCALE: 1/16" = 1'-0"



CHANIN ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

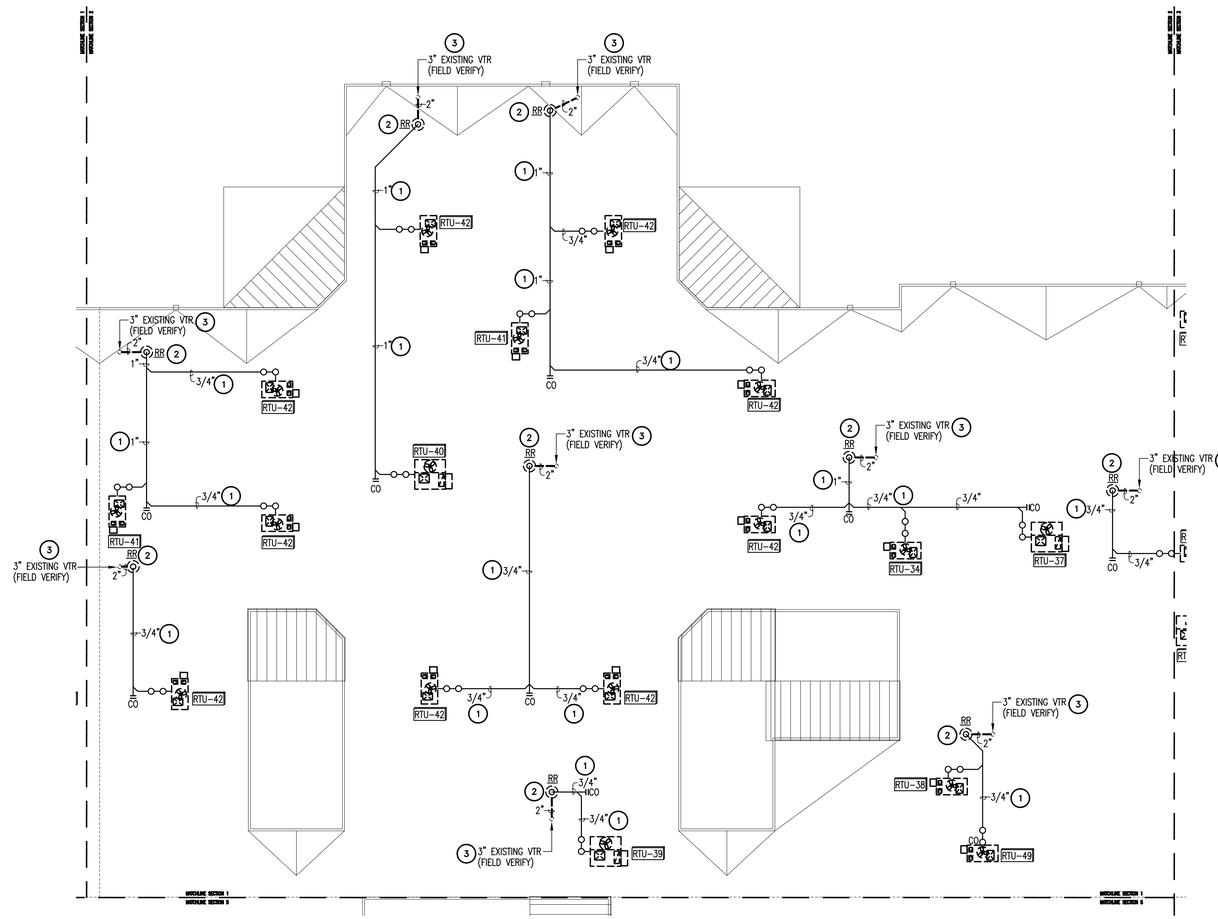
SEAL:
STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: L.S.
CHECKED BY:J.P.
REVISION:

DRAWING NO:
P1.0



GENERAL NOTES:

(A) INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.

(B) PLUMBING CONTRACTOR SHALL ADHERE TO ALL CITY CODES, STATE CODES AND LOCAL CODES THAT HAVE AUTHORITY OVER THIS PROJECT.

(C) PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY INSTALLATION OF PIPING AND DUCTWORK PRIOR TO BEGINNING OF CONSTRUCTION

(D) EACH ROOF TOP UNIT SHALL BE PROVIDED WITH A FIELD FABRICATED P-TRAP. REFER TO DETAIL.

(E) COPPER CONDENSATE DRAIN LINES SHALL BE ROUTED ON THE ROOF AND FURNISHED WITH INSULATION AND ALUMINUM JACKET.

(F) PLUMBING CONTRACTOR SHALL OFFSET CONDENSATE DRAIN LINES AS REQUIRED TO AVOID CONFLICTS WITH EXISTING ROOF MOUNTED EQUIPMENTS.

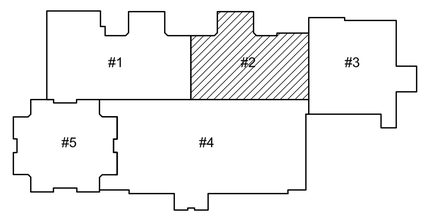
KEY NOTES: ○

1. INSULATE COPPER CONDENSATE DRAIN LINE AND PROVIDE PIPE SUPPORTS MAXIMUM 10'-0" O.C. SPACING. ROUTE AND TERMINATE AT NEAREST ROOF RECEPTOR. PIPE SUPPORTS SHALL BE EQUAL TO MIRO INDUSTRIES MODEL "3-RAH-7".
2. COORDINATE ROOF RECEPTOR DRAIN LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR FOR FINAL EQUIPMENT LOCATIONS PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT. ROOF RECEPTER BODY, TRAP, AND BRANCH CONNECTION TO VENT SHALL BE CAST IRON (OR PLENUM RATED) AND SHALL BE INSULATED.
3. PLUMBING CONTRACTOR SHALL VERIFY POINT OF CONNECTION TO BUILDING UTILITIES PRIOR TO BID TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

NORTH

A ROOF CONDENSATE PLAN
SCALE: 1/16" = 1'-0"



CHANIN ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

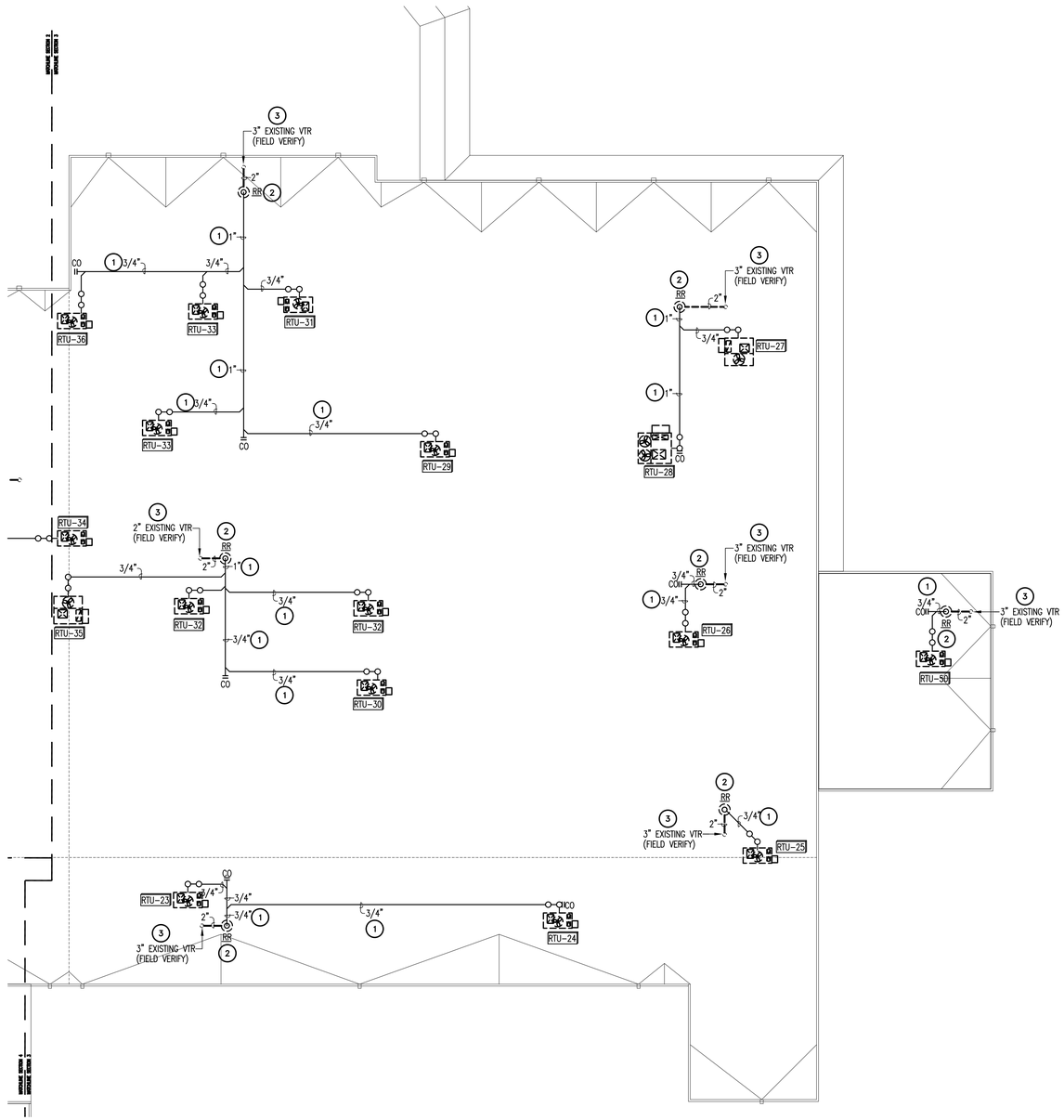
SEAL:
STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: L.S.
CHECKED BY:J.P.
REVISION:
DRAWING NO:

P2.0



GENERAL NOTES:

(A) INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.

(B) PLUMBING CONTRACTOR SHALL ADHERE TO ALL CITY CODES, STATE CODES AND LOCAL CODES THAT HAVE AUTHORITY OVER THIS PROJECT.

(C) PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY INSTALLATION OF PIPING AND DUCTWORK PRIOR TO BEGINNING OF CONSTRUCTION

(D) EACH ROOF TOP UNIT SHALL BE PROVIDED WITH A FIELD FABRICATED P-TRAP. REFER TO DETAIL.

(E) COPPER CONDENSATE DRAIN LINES SHALL BE ROUTED ON THE ROOF AND FURNISHED WITH INSULATION AND ALUMINUM JACKET.

(F) PLUMBING CONTRACTOR SHALL OFFSET CONDENSATE DRAIN LINES AS REQUIRED TO AVOID CONFLICTS WITH EXISTING ROOF MOUNTED EQUIPMENTS.

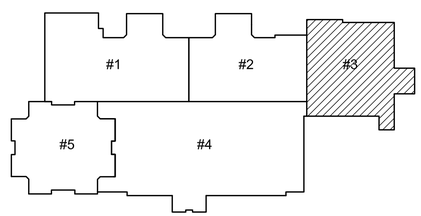
KEY NOTES: ○

1. INSULATE COPPER CONDENSATE DRAIN LINE AND PROVIDE PIPE SUPPORTS MAXIMUM 10'-0" O.C. SPACING. ROUTE AND TERMINATE AT NEAREST ROOF RECEPTOR. PIPE SUPPORTS SHALL BE EQUAL TO MIRO INDUSTRIES MODEL "3-RAH-7".
2. COORDINATE ROOF RECEPTOR DRAIN LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR FOR FINAL EQUIPMENT LOCATIONS PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT. ROOF RECEPTER BODY, TRAP, AND BRANCH CONNECTION TO VENT SHALL BE CAST IRON (OR PLENUM RATED) AND SHALL BE INSULATED.
3. PLUMBING CONTRACTOR SHALL VERIFY POINT OF CONNECTION TO BUILDING UTILITIES PRIOR TO BID TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

NORTH

A ROOF CONDENSATE PLAN
SCALE: 1/16" = 1'-0"



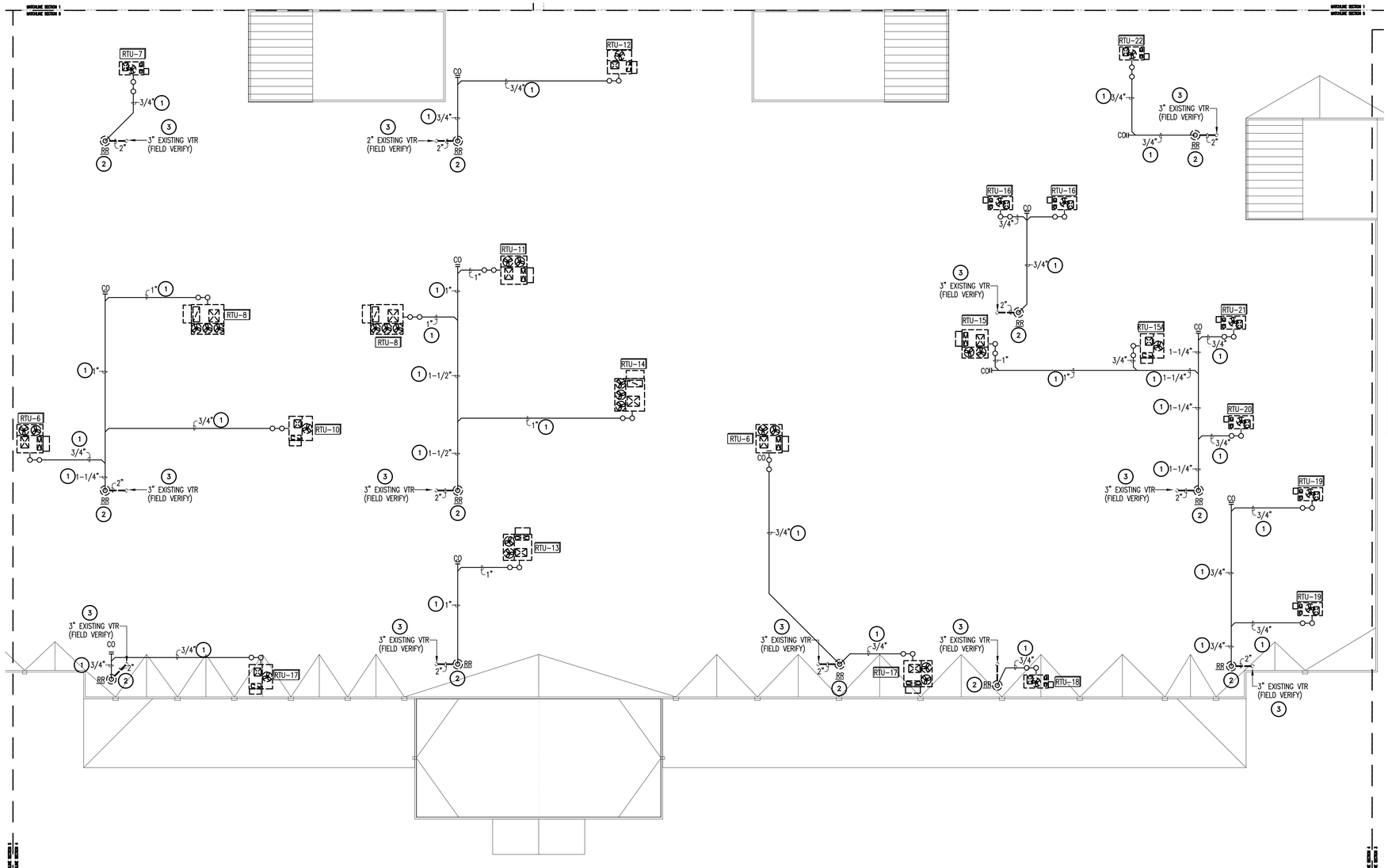
CHANIN ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:
STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED PROFESSIONAL ENGINEER
11.15.2013

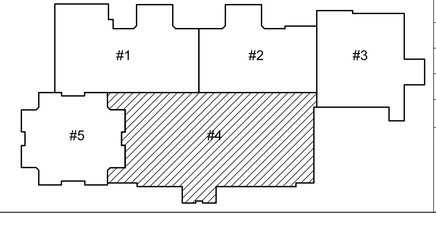
MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: L.S.
CHECKED BY:J.P.
REVISION:
DRAWING NO:
P3.0



A ROOF CONDENSATE PLAN
SCALE: 1/16" = 1'-0"



GENERAL NOTES:

(A) INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.

(B) PLUMBING CONTRACTOR SHALL ADHERE TO ALL CITY CODES, STATE CODES AND LOCAL CODES THAT HAVE AUTHORITY OVER THIS PROJECT.

(C) PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY INSTALLATION OF PIPING AND DUCTWORK PRIOR TO BEGINNING OF CONSTRUCTION

(D) EACH ROOF TOP UNIT SHALL BE PROVIDED WITH A FIELD FABRICATED P-TRAP. REFER TO DETAIL.

(E) COPPER CONDENSATE DRAIN LINES SHALL BE ROUTED ON THE ROOF AND FURNISHED WITH INSULATION AND ALUMINUM JACKET.

(F) PLUMBING CONTRACTOR SHALL OFFSET CONDENSATE DRAIN LINES AS REQUIRED TO AVOID CONFLICTS WITH EXISTING ROOF MOUNTED EQUIPMENTS.

KEY NOTES:

1. INSULATE COPPER CONDENSATE DRAIN LINE AND PROVIDE PIPE SUPPORTS MAXIMUM 10'-0" O.C. SPACING. ROUTE AND TERMINATE AT NEAREST ROOF RECEPTOR. PIPE SUPPORTS SHALL BE EQUAL TO MIRO INDUSTRIES MODEL "3-RAH-7".
2. COORDINATE ROOF RECEPTOR DRAIN LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR FOR FINAL EQUIPMENT LOCATIONS PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT. ROOF RECEPTER BODY, TRAP, AND BRANCH CONNECTION TO VENT SHALL BE CAST IRON (OR PLENUM RATED) AND SHALL BE INSULATED.
3. PLUMBING CONTRACTOR SHALL VERIFY POINT OF CONNECTION TO BUILDING UTILITIES PRIOR TO BID TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

CHANIN ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

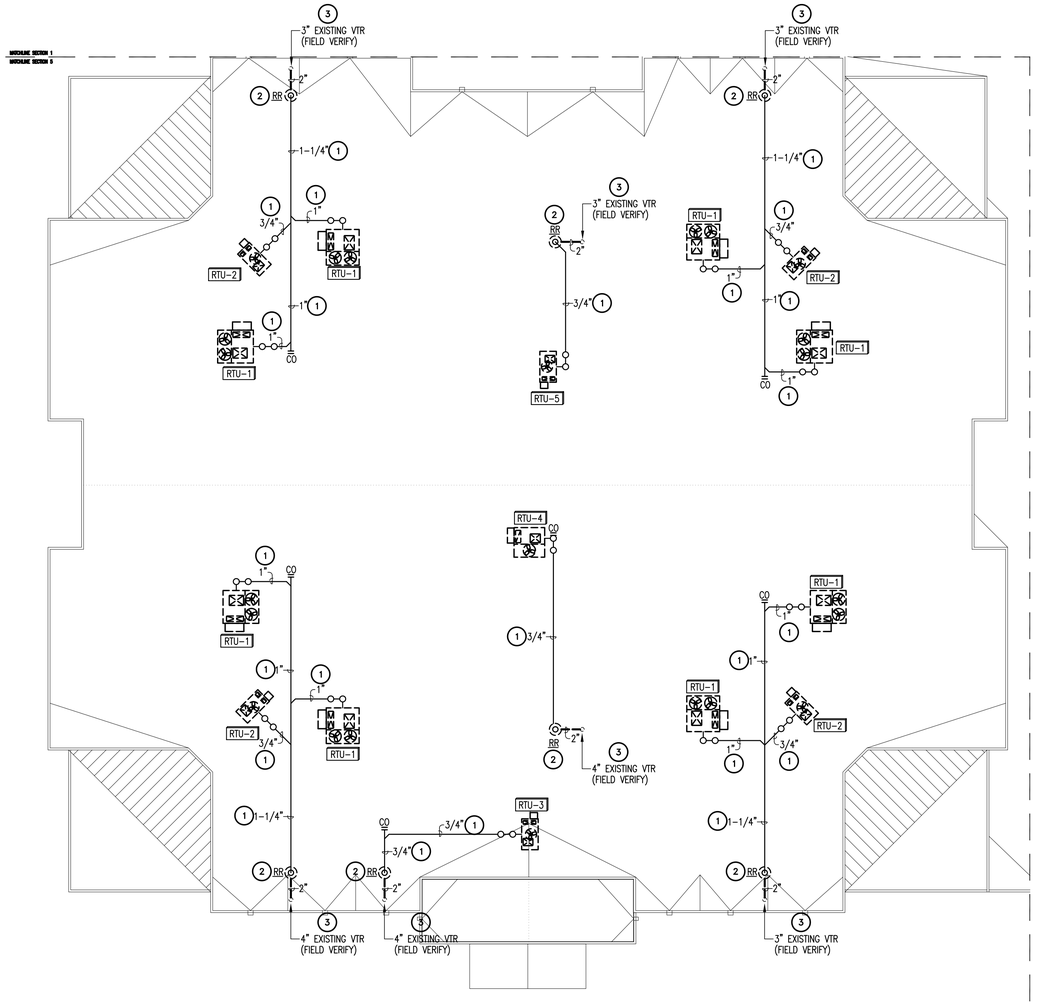
SEAL:
STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: L.S.
CHECKED BY:J.P.
REVISION:
DRAWING NO:

P4.0



A ROOF CONDENSATE PLAN
SCALE: 1/16" = 1'-0"

GENERAL NOTES:

(A) INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.

(B) PLUMBING CONTRACTOR SHALL ADHERE TO ALL CITY CODES, STATE CODES AND LOCAL CODES THAT HAVE AUTHORITY OVER THIS PROJECT.

(C) PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY INSTALLATION OF PIPING AND DUCTWORK PRIOR TO BEGINNING OF CONSTRUCTION

(D) EACH ROOF TOP UNIT SHALL BE PROVIDED WITH A FIELD FABRICATED P-TRAP. REFER TO DETAIL.

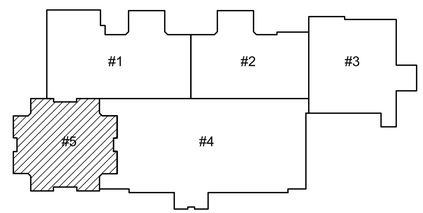
(E) COPPER CONDENSATE DRAIN LINES SHALL BE ROUTED ON THE ROOF AND FURNISHED WITH INSULATION AND ALUMINUM JACKET.

(F) PLUMBING CONTRACTOR SHALL OFFSET CONDENSATE DRAIN LINES AS REQUIRED TO AVOID CONFLICTS WITH EXISTING ROOF MOUNTED EQUIPMENTS.

KEY NOTES: ○

1. INSULATE COPPER CONDENSATE DRAIN LINE AND PROVIDE PIPE SUPPORTS MAXIMUM 10'-0" O.C. SPACING. ROUTE AND TERMINATE AT NEAREST ROOF RECEPTOR. PIPE SUPPORTS SHALL BE EQUAL TO MIRO INDUSTRIES MODEL "3-RAH-7".
2. COORDINATE ROOF RECEPTOR DRAIN LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR FOR FINAL EQUIPMENT LOCATIONS PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT. ROOF RECEPTER BODY, TRAP, AND BRANCH CONNECTION TO VENT SHALL BE CAST IRON (OR PLENUM RATED) AND SHALL BE INSULATED.
3. PLUMBING CONTRACTOR SHALL VERIFY POINT OF CONNECTION TO BUILDING UTILITIES PRIOR TO BID TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.



CHANIN ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chanincngineering.com
TBPE FIRM REG. NUMBER F-9369

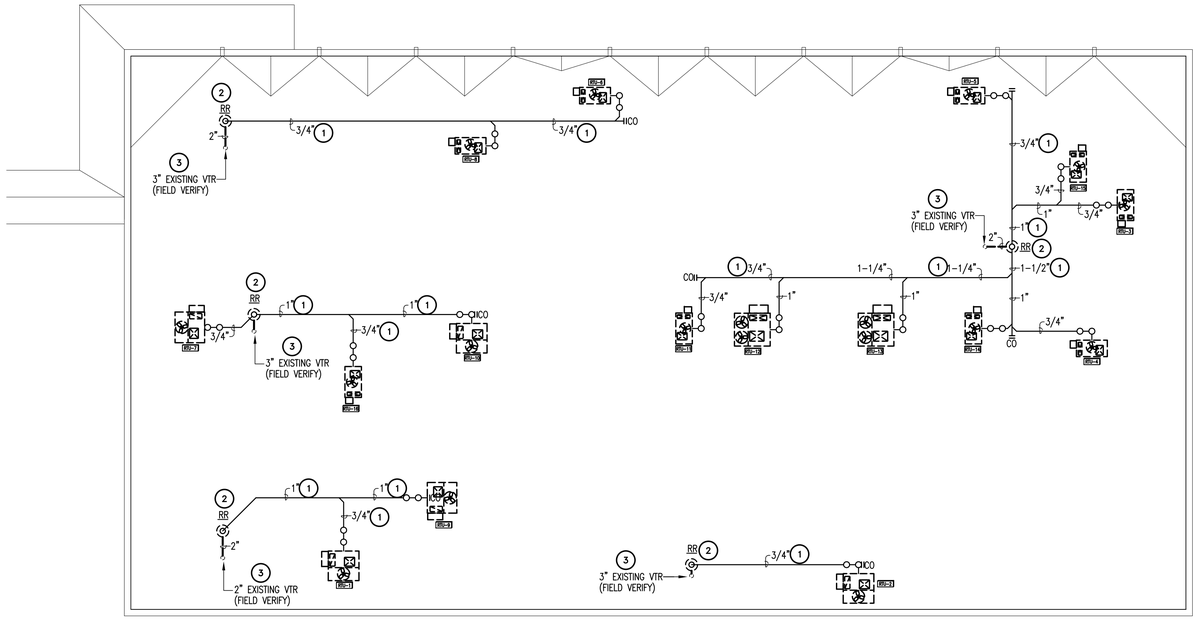
SEAL:
STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BENUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: L.S.
CHECKED BY:J.P.
REVISION:

DRAWING NO:
P5.0



GENERAL NOTES:

(A) INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.

(B) PLUMBING CONTRACTOR SHALL ADHERE TO ALL CITY CODES, STATE CODES AND LOCAL CODES THAT HAVE AUTHORITY OVER THIS PROJECT.

(C) PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY INSTALLATION OF PIPING AND DUCTWORK PRIOR TO BEGINNING OF CONSTRUCTION

(D) EACH ROOF TOP UNIT SHALL BE PROVIDED WITH A FIELD FABRICATED P-TRAP. REFER TO DETAIL.

(E) COPPER CONDENSATE DRAIN LINES SHALL BE ROUTED ON THE ROOF AND FURNISHED WITH INSULATION AND ALUMINUM JACKET.

(F) PLUMBING CONTRACTOR SHALL OFFSET CONDENSATE DRAIN LINES AS REQUIRED TO AVOID CONFLICTS WITH EXISTING ROOF MOUNTED EQUIPMENTS.

KEY NOTES: ○

1. INSULATE COPPER CONDENSATE DRAIN LINE AND PROVIDE PIPE SUPPORTS MAXIMUM 10'-0" O.C. SPACING. ROUTE AND TERMINATE AT NEAREST ROOF RECEPTOR. PIPE SUPPORTS SHALL BE EQUAL TO MIRO INDUSTRIES MODEL "3-RAH-7".
2. COORDINATE ROOF RECEPTOR DRAIN LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR FOR FINAL EQUIPMENT LOCATIONS PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT. ROOF RECEPTER BODY, TRAP, AND BRANCH CONNECTION TO VENT SHALL BE CAST IRON (OR PLENUM RATED) AND SHALL BE INSULATED.
3. PLUMBING CONTRACTOR SHALL VERIFY POINT OF CONNECTION TO BUILDING UTILITIES PRIOR TO BID TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

NORTH

A PLUMBING - ROOF CONDENSATE PLAN

SCALE: 1/16" = 1'-0"

CHANIN ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:

STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

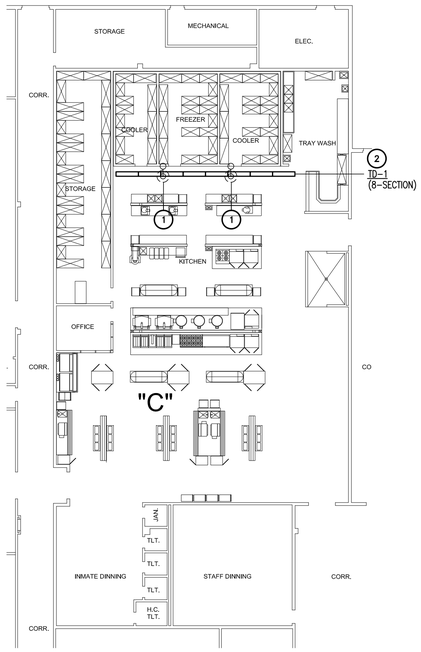
PROJECT:

HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: L.S.
CHECKED BY:J.P.
REVISION:

DRAWING NO:

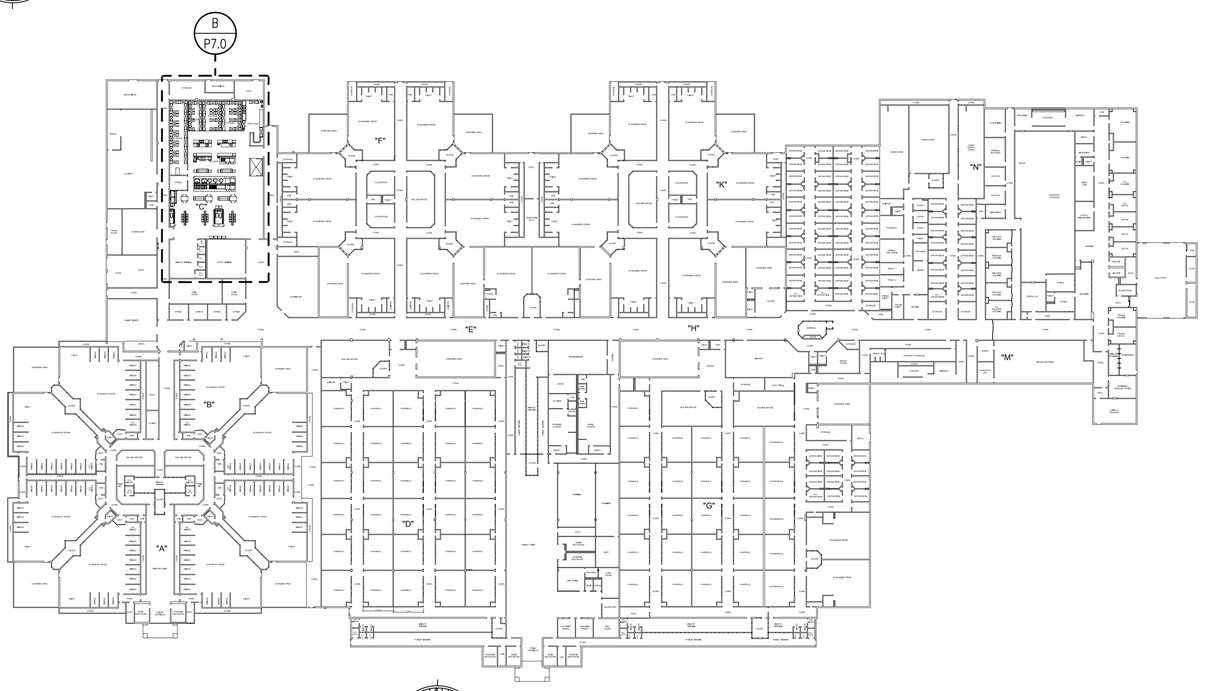
P6.0



NORTH

B ENLARGED PLUMBING PLAN

SCALE: 1/16" = 1'-0" ALTERNATE – KITCHEN A.D.C. BLDG



NORTH

A PLUMBING PLAN

SCALE: 1" = 50'-0" OVERALL A.D.C. BLDG

GENERAL DEMOLITION NOTES:

A. INFORMATION ON THE PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR ARCHITECT.

B. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE DEMOLITION WORK UNDER THIS SECTION OF THE PROJECT IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE CODES, HE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET CODE REQUIREMENTS AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE. APPLICABLE CODES AND STANDARDS ON DEMOLITION WORK SHALL INCLUDE THOSE PUBLISHED BY OSHA AND EPA. AN ASBESTOS SURVEY SHALL BE KEPT ON SITE AT ALL TIMES PER TEXAS DEPARTMENT OF HEALTH REQUIREMENTS.

C. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL BUILDING DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT APPROVED PATCHING MATERIALS.

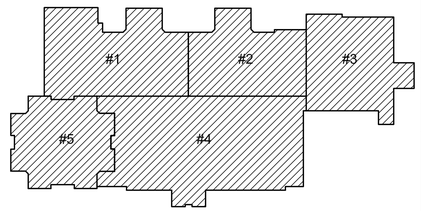
D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION WITH STRUCTURAL ENGINEER BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS. PATCH AND SEAL OPENINGS WITH 8000 PSI CEMENT GROUT. INSTALL DECORATIVE TRIM (EQUIPMENT FLANGES, FRAMING, OR ESCUTCHEONS) AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH THE OTHER TRADES.

E. CONTRACTOR SHALL REMOVE AND RETURN ANY AND ALL EXISTING EQUIPMENT/MATERIALS TO OWNER. OWNER SHALL HAVE FULL RIGHT OF OWNERSHIP UNLESS SPECIFIED OTHERWISE. IF THE OWNER WAIVES THIS OPTION, ANY EQUIPMENT, MATERIAL, ETC SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PLUMBING DEMOLITION KEY NOTES:

1. AS AN ALTERNATE, REMOVE EXISTING FLOOR DRAIN; EXISTING SEWER/VENT SERVICE SHALL REMAIN FOR RE-USE. REFER TO ARCHITECTURAL SPECIFICATIONS FOR ALTERNATES.
2. UNDER THE SAME ALTERNATE, RECONNECT NEW PLUMBING FIXTURE TO EXISTING SEWER/VENT SERVICE. REFER TO ARCHITECTURAL SPECIFICATIONS FOR ALTERNATES.

PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.



CHANIN
ENGINEERING LLC
400 Nolana, Suite N24
McAllen, Texas 78504
PH: (956) 687-4421 FAX: (956) 687-3211
WWW.CHANINENGINEERING.COM
TBPE FIRM REG. NUMBER F-9369

SEAL:

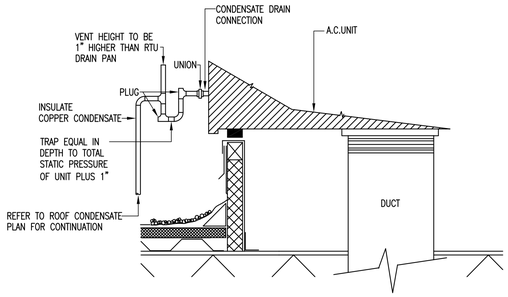
STATE OF TEXAS
LUIS JAVIER PENA
97260
LICENSED PROFESSIONAL ENGINEER
11.15.2013

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:

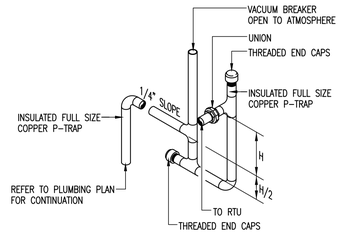
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Texas
Edinburg,

JOB NO. 13159
DATE: 11/15/13
DRAWN BY: L.S.
CHECKED BY:J.P.
REVISION:
DRAWING NO:
P7.0



A ROOF TOP UNIT CONDENSATE CONNECTION DETAIL

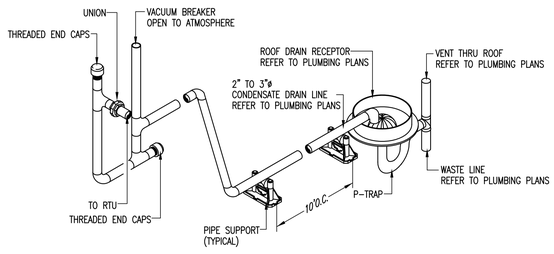
SCALE: N.T.S.



NOTE:
(1) H= FAN INLET PRESSURE (IN. W.C.) + 1-IN.
(2) CONDENSATE LINE SHALL BE INSULATED AND FURNISHED WITH ALUMINUM JACKET, (REFER TO SPECS.).

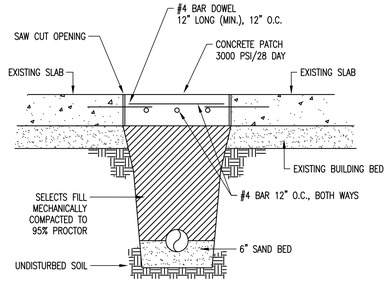
B RTU CONDENSATE P-TRAP DETAIL

SCALE: N.T.S.



C ROOF DRAIN RECEPTOR DETAIL

SCALE: N.T.S.



D SAW CUT DETAIL

SCALE: N.T.S.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE TYPE	CONNECTION SIZE				DESCRIPTION
		SEWER	VENT	CW	HW	
RR	ROOF RECEPTOR	2"	3" 2"	–	–	CAST IRON COATED, C.I. INTERNAL DOME STRAINER, SMALL SUMP WITH ROOF FLANGE, AND BOTTOM OUTLET, EQUAL TO JOSAM MODEL NO. "25540-3-Y" ROOF DRAIN COMPLETE WITH PILLOW BLOCK PIPE STAND MODEL NO. "3-R-4".
TD-1	TRENCH DRAIN	4"	2"	–	–	ZURN MODEL "Z-895-RFS" STAINLESS STEEL TRENCH DRAINAGE SYSTEM WITH CRATE LOCKDOWN ASSEMBLY, REINFORCED SLOTTED STAINLESS STEEL GRATE.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—•—	DOMESTIC COLD WATER LINE		BALL VALVE		UNION	CW	COLD WATER
—••—	DOMESTIC HOT WATER LINE		BALANCING VALVE		BRANCH – TOP CONNECTION	DN	DOWN
—•••—	DOMESTIC HOT WATER RETURN LINE		CHECK VALVE		PIPE RISER	F.F.E.	FINISH FLOOR ELEVATION
—TW—	DOMESTIC TEMPERED WATER LINE		GATE VALVE		PIPE DROP	FU	FIXTURE UNITS
— —	SANITARY SEWER VENT LINE	FCO	FLOOR CLEANOUT		THERMOMETER	GW	GREASE WASTE
	SANITARY WASTE LINE	YCO	YARD CLEANOUT		DIRECTION OF FLOW	I.E.	INVERT ELEVATION
—CD—	CONDENSATE LINE		FLOOR SINK	CV	CALIBRATING VALVE	HW	HOT WATER
—GW—	GREASE WASTE LINE		FLOOR DRAIN	WCO	WALL CLEANOUT	SS	SANITARY SEWER
—GAS—	GAS LINE		ROOF DRAIN	P-1	PLUMBING RISER DESIGNATION	TP	TRAP PRIMER
—AIR—	AIR LINE		POINT OF CONNECTION	02 P-3.1	PLUMBING DETAIL REFERENCE	TYP	TYPICAL
—AW—	ACID WASTE LINE		WALL HYDRANT	ABV. CLG.	ABOVE CEILING	UND. LAV.	UNDER LAVATORY
—RD—	ROOF DRAIN LINE		HOSE BIBB	B.F.F.	BELOW FINISH FLOOR	V	VENT
—OD—	OVERFLOW DRAIN LINE	WHA	WATER HAMMER ARRESTOR	CO	CLEAN OUT	VTR	VENT THRU ROOF

NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT

CHANIN ENGINEERING LLC
400 Nolana, Suite N2
McAllen, Texas 78504
PH: (956) 687-9421 FAX: (956) 687-3211
www.chaninengineering.com
TBPE FIRM REG. NUMBER F-9369

SEAL:

MEP SOLUTIONS ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX. 78501 (956) 664-2727
TEXAS BOARD OF PROFESSIONAL ENGINEERS REGISTRATION # F-9748

PROJECT:
HIDALGO COUNTY
ADULT DETENTION CENTER and LAW ENFORCEMENT
FACILITY REPAIRS and/or REPLACEMENT
Edinburg, Texas

JOB NO. 13159
DATE: 11/15/13
DRAWN BY:
CHECKED BY:
REVISION:

DRAWING NO:
P8.0

AI-41816 **Closed Session 18. C.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted By: Monica Badillo, EXECUTIVE OFFICE

Department: EXECUTIVE OFFICE

Information

CAPTION

C-6392-13-I; San Juanita Saldana, et al v. Hidalgo County and Hidalgo County Elections Administrator

BACKGROUND

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/14/2013 04:09 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Monica Badillo Started On: 11/13/2013

Final Approval Date: 11/15/2013

AI-41860 **Closed Session 18. D.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted By: Monica Badillo, EXECUTIVE OFFICE

Department: EXECUTIVE OFFICE

Information

CAPTION

Subrogation Claim against Juan Jose Prado and Erasmo Luna.

BACKGROUND

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/15/2013 03:37 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Monica Badillo Started On: 11/15/2013 03:22 PM

Final Approval Date: 11/15/2013

AI-41779 **Closed Session 18. E.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: Valde Guerra **Submitted By:** Aida Alvarez, SAFETY DIVISION

Department: SAFETY DIVISION

Information

CAPTION

Claim of Alfredo Elicerio

BACKGROUND

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/13/2013 03:27 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Aida Alvarez Started On: 11/13/2013 08:55 AM

Final Approval Date: 11/15/2013

AI-41817 **Open Session 19. C.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted By: Monica Badillo, EXECUTIVE OFFICE

Department: EXECUTIVE OFFICE

Information

CAPTION

C-6392-13-I; San Juanita Saldana, et al v. Hidalgo County and Hidalgo County Elections Administrator

BACKGROUND

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/14/2013 04:09 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Monica Badillo Started On: 11/13/2013

Final Approval Date: 11/15/2013

AI-41861 **Open Session 19. D.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted By: Monica Badillo, EXECUTIVE OFFICE

Department: EXECUTIVE OFFICE

Information

CAPTION

Subrogation Claim against Juan Jose Prado and Erasmo Luna.

BACKGROUND

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/15/2013 03:37 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Monica Badillo Started On: 11/15/2013 03:22 PM

Final Approval Date: 11/15/2013

AI-41780 **Open Session 19. E.**

CC REGULAR

Meeting Date: 11/19/2013

Submitted For: Valde Guerra **Submitted By:** Aida Alvarez, SAFETY DIVISION

Department: SAFETY DIVISION

Information

CAPTION

Claim of Alfredo Elicerio

BACKGROUND

Form Review

Inbox	Reviewed By	Date
Budget & Management	Obdett Calzada	11/13/2013 03:27 PM
Purchasing Department	Monica Badillo	11/15/2013 05:49 PM

Form Started By: Aida Alvarez Started On: 11/13/2013 08:56 AM

Final Approval Date: 11/15/2013