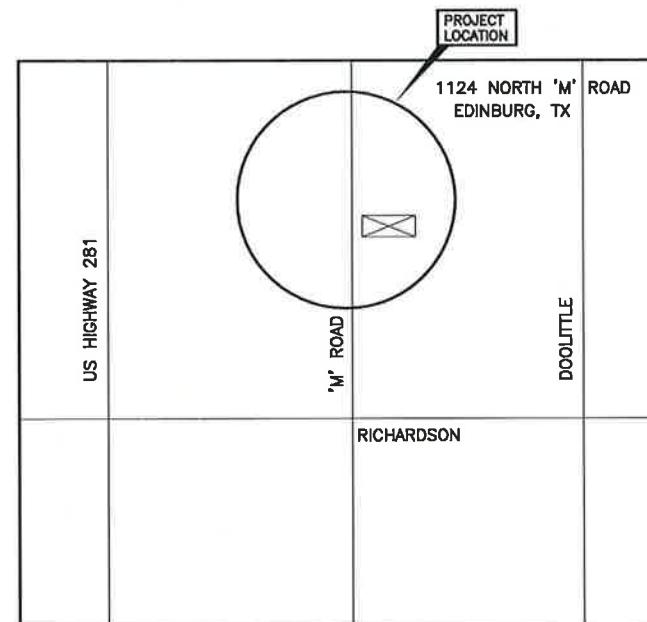


HIDALGO COUNTY WIC PROGRAM

EDINBURG, TEXAS

RESTITUTION CENTER RENOVATION



LOCATION MAP
NTS

Hidalgo County Judge

Ramon Garcia

Hidalgo County Precinct No. 4 Commissioner

Joseph Palacios

- G1.0 COVER SHEET
- G1.1 GENERAL NOTES

ARCHITECTURAL PLANS

- A1.0 OVERALL FLOOR PLAN
- A1.1 ENLARGED FLOOR PLAN
- A1.2 REFLECTED CEILING PLAN
- A2.1 DETAIL PLANS
- A3.1 DOOR SCHEDULE/DOOR DETAILS

MEP

- M1.1 MECHANICAL FLOOR PLAN
- M1.2 ENLARGED MECHANICAL ROOM FLOOR PLAN
- M2.1 GENERAL NOTES & LEGEND
- M3.1 MECHANICAL DETAILS & SCHEDULES

- ES1.1 ELECTRICAL SITE PLAN
- E1.1 ELECTRICAL LIGHTING FLOOR PLAN
- E2.1 ELECTRICAL POWER FLOOR PLAN
- E3.1 ELECTRICAL SPECIAL SYSTEM FLOOR PLAN
- E4.1 ELECTRICAL LEGEND & SCHEDULE
- E5.1 RISER DIAGRAM
- E6.1 ELECTRICAL SCHEDULES
- E7.1 ELECTRICAL DETAILS

- PD1.1 PLUMBING DEMOLITION FLOOR PLAN
- P1.1 PLUMBING FLOOR PLAN
- P2.1 PLUMBING LEGEND AND SCHEDULES
- P3.1 PLUMBING DETAILS

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JULY 2013

REVISIONS			
No	DATE	DESCRIPTION	APP
	JUNE 2013	ISSUED FOR REVIEW ONLY	



PROJECT No:
4525-04

DRAWING No: **G-1.0**

SHEET No:

Jul 15, 2013 2:14pm steve.mcgrath\Drawings\Architectural\Sheets 2013\Court Approval\A 0.1 General Notes.dwg
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GENERAL NOTES:

1. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" (A.I.A. DOC. A201, 1997 EDITION) GOVERN THE WORK, UNLESS NOTED OTHERWISE, THE MOST STRINGENT REQUIREMENTS SHALL PREVAIL.
2. IF DISCREPANCIES APPEAR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE HIGHER QUALITY, QUANTITY, AND PRICE SHALL PREVAIL.
3. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BECOME FAMILIAR WITH THE PROJECT AND THE ON-SITE / OFF-SITE CONDITIONS PRIOR TO BIDDING OR COMMENCING WORK.
4. BRING IMMEDIATELY TO THE ARCHITECT'S ATTENTION ANY ERRORS, OMISSIONS OR DISCREPANCIES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO CORRECT ANY DEFECTIVE WORK CAUSED BY PROCEEDING WITH WORK WHEN CLARIFICATIONS FROM ARCHITECT WERE NOT SOUGHT.
5. EXAMINE SPECIFIED PRODUCTS AND SUBMIT WRITTEN EXCEPTIONS, OBJECTIONS OR SUBSTITUTIONS WITH ANALYSIS AND RECOMMENDATIONS PRIOR TO SUBMITTING BID COSTS OR COMMENCING WORK.
6. THE RESPONSIBILITY FOR ADEQUACY OF PROPOSED SUBSTITUTIONS FALLS ON THE GENERAL CONTRACTOR. SHOULD A SUBSTITUTION PRODUCT FAIL TO PERFORM WHERE THE ORIGINALLY SPECIFIED PRODUCT WOULD HAVE PERFORMED, THE GENERAL CONTRACTOR SHALL PERFORM ALL NECESSARY WORK TO REINCORPORATE THE ORIGINAL PRODUCT AT NO ADDITIONAL COST.
7. WHERE COMPLEX ASSEMBLY INVOLVING TWO OR MORE TRADES IS CALLED FOR ON THE DRAWINGS, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING THE PROPOSED INTERACTION OF ALL RELATED COMPONENTS FOR ARCHITECT'S REVIEW. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER TESTING, OPERATING AND PERFORMANCE OF THE ENTIRE COMPOSITE SYSTEM.
8. ALL MATERIAL AND WORKMANSHIP SHALL BE GUARANTEED AGAINST DEFECTS FOR A PERIOD OF AT LEAST ONE (1) YEAR FROM APPROVAL FOR FINAL PAYMENT, UNLESS STIPULATED OTHERWISE.
9. WHEREVER MATERIALS ARE STORED AT THE JOBSITE, THEY SHOULD BE PROTECTED FROM DAMAGE, VANDALISM, FIRE, AND INCLEMENT WEATHER. THE GENERAL CONTRACTOR SHALL PRODUCE EVIDENCE OF INSURANCE FOR MATERIALS STORED PRIOR TO PAYMENT BY THE OWNER.
10. THE WORD "PROVIDE" SHALL MEAN "FURNISH AND INSTALL COMPLETE AND READY TO USE."
11. PROVIDE ALL REQUIRED UTILITY / STRUCTURAL COMPONENTS AND/OR CONNECTIONS FOR THE FUNCTIONAL USE OF ALL CONTRACTOR SUPPLIED EQUIPMENT OR APPLIANCES, REGARDLESS OF ANY OMISSIONS OR INCONSISTENCIES ENCOUNTERED IN THE CONSTRUCTION DOCUMENTS.
12. "TYPICAL" MEANS "IDENTICAL FOR ALL SIMILAR CONDITIONS UNLESS NOTED OTHERWISE."
13. "SIMILAR" MEANS "COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED; VERIFY DIMENSIONS, ORIENTATION OR SYMMETRY ON RELATED DRAWINGS."
14. DO NOT SCALE DRAWINGS.
15. DO NOT ADJUST DIMENSIONS WITHOUT APPROVAL FROM THE ARCHITECT.
16. GRAPHIC REPRESENTATIONS THAT ARE NOT NOTED SHALL BE REFERENCED TO SIMILAR OR IDENTICAL CONDITIONS THAT ARE CLEARLY NOTED.
17. FOR SIDEWALKS, RAMPS, DRIVEWAYS, PARKING, AND ANY OTHER FLATWORK ADJACENT TO THE BUILDING, REFER TO THE ARCHITECTURAL AND CIVIL PLANS.
18. COORDINATE WITH THE CONSTRUCTION DOCUMENTS THE PARTITION TYPES AND THEIR THICKNESS FOR INTERNAL INCLUSIONS, SUCH AS PLUMBING AND FOR CORRECT INSTALLATION OF EQUIPMENT, PANELS, FIRE EXTINGUISHERS, ETC.
19. INSTALL DRYWALL WORK IN ACCORDANCE WITH THE CURRENT VERSION OF U.S.G. "GYPSUM CONSTRUCTION HANDBOOK, A.S.I.M. A1 645, A.S.I.M. A1 754, AND A.S.I.M. A1 840." THE MOST STRINGENT REQUIREMENTS SHALL PREVAIL.
20. PROVIDE ALL ITEMS AND LABOR REQUIRED FOR A COMPLETE INSTALLATION OF A SYSTEM OR ASSEMBLY, INCLUDING BUT NOT LIMITED TO, REQUIRED STRUCTURE BRACING, ACCESS PANELS, JUNCTIONS BOXES OR ITEMS CALLED FOR IN MANUFACTURER'S LITERATURE.
21. ALL PENETRATIONS THROUGH FIRE-RATED WALLS SHOULD BE PROVIDED IN ACCORDANCE WITH IBC 2003.
22. REFER TO CIVIL ENGINEERING DRAWINGS FOR ACTUAL FINISH FLOOR ELEVATIONS.
23. ALL EXIT DOORS TO HAVE A DROP NO GREATER THAN 1/2". A TAPERED / SLOPE SLAB CONNECTING EXTERIOR DOORS TO EXTERIOR SIDEWALKS SHALL BE NO GREATER THAN 1:48.
24. ALL APPLICABLE MATERIALS AND ASSEMBLIES SHALL CONFORM TO THE REQUIREMENTS OF THE TEXAS DEPARTMENT OF INSURANCE (TDI).
25. CONTRACTOR SHALL ASSIST ARCHITECT / ENGINEER IN COLLECTION OF DATA REQUIRED FOR THE TEXAS DEPARTMENT OF INSURANCE (TDI) CERTIFICATION.

CONSTRUCTION GUIDELINES:

1. APPLICABLE CODES
 - INTERNATIONAL BUILDING CODES 2006
 - INTERNATIONAL ENERGY CONSERVATION COMMISSION 2000
 - INTERNATIONAL FIRE CODE 2000
 - INTERNATIONAL MECHANICAL CODE 2000
 2. OCCUPANCY CLASSIFICATION

GROUP B - BUSINESS (SEC 304.1)		
MIXED OCCUPANCY PROVIDED	NO	
AREA SEPARATION REQUIRED	NO	
 3. CONSTRUCTION TYPE (SEC 602.2, TABLE 601 AND 602)

TYPE II-B
 4. GENERAL BUILDING LIMITATIONS
 1. ALLOWABLE HEIGHT AND BUILDING AREAS:
NOTE: CALCULATIONS ARE BASED ON SEC 503, 504, 505, AND TABLE 503.

	<u>ALLOWED</u>	<u>PROVIDED</u>
BUILDING HEIGHT:	55'-0"	20'-0"
NUMBER OF STORIES:	2	1
BUILDING AREA:	14,500	4,665
 - 2 AREA MODIFICATION

	<u>REQUIRED</u>	<u>PROVIDED</u>
NUMBER OF FIRE AREAS:	1	1
AUTOMATIC SPRINKLER SYSTEM:	NO	NO
5. FIRE PROTECTION REQUIREMENTS

	<u>WALLS</u>	<u>OPENINGS</u>
EXTERIOR WALLS (TABLE 602)	0 HR	0 HR
FIRE WALLS AT AREA SEPARATION (TABLES 302.3, 705.4 WITH NOTE "a" AND TABLE 714.2)	N/A	N/A
FIRE BARRIERS AT INCIDENTAL USE AREAS (TABLE 302.1 WITH NOTE "a")	N/A	N/A
FIRE PARTITIONS AT EXIT ACCESS CORRIDORS (SEC 709.3, 709.4, 709.5, AND TABLE 7114.2 WITH NOTE "a")	N/A	N/A
6. MEANS OF EGRESS
 1. OCCUPANT LOAD CALCULATIONS (TABLE 1004.1.2)

A. BUSINESS AREA	4,373 SF @ 100 SF/OCC=	44 OCC
B. EDUCATIONAL AREAS	9,386 SF @ 20 SF/OCC=	470 OCC
C. EDUCATIONAL (SHOP & VOC)	19,533 SF @ 50 SF/OCC=	391 OCC
D. STOR, MECH, ELECT, OTHER	8,859 SF @ 300 SF/OCC=	30 OCC
TOTAL=		935 OCC
 2. EGRESS WIDTH PER OCCUPANTS SERVE (TABLE 1005.1)

32 OCC @ 0.2 IN/OCC=	6.4	REQUIRED
2 X 3 = 6'-0"	72 IN	PROVIDED
 3. TRAVEL DISTANCE (SEC 1015.1 AND TABLE 1015.1)

MAXIMUM DISTANCE:	250 FT	ALLOWED
	45 FT	PROVIDED
MAXIMUM DEAD-END CORRIDOR:	50 FT	ALLOWED
	0 FT	PROVIDED

DESIGNED BY:
 DRAWN BY:
 CHECKED BY:
 APPROVED BY:
 DATE: JUNE 2013

REVISIONS			
NO	DATE	APP	

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Hidalgo County Precinct No 4
Restitution Center Remodel
 Edinburg Texas

General Notes & Code Review

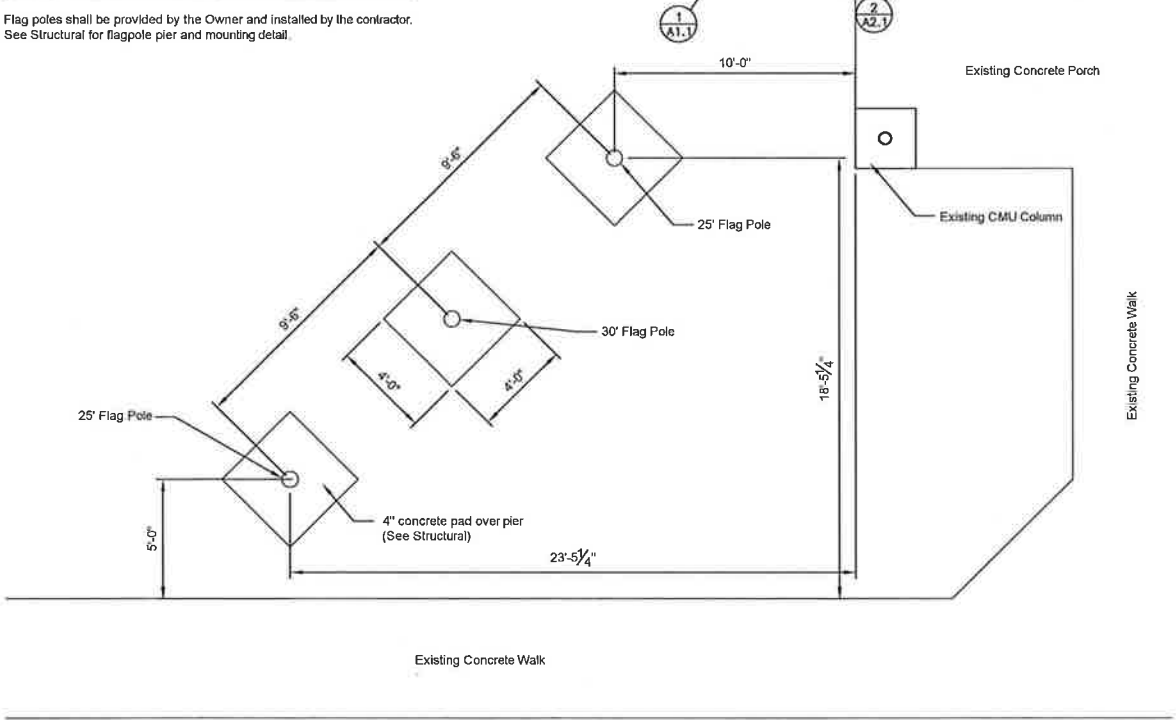
SCALE BAR IS ONE INCH
 ON ORIGINAL DRAWINGS

PROJECT No:
 4525-04
 DRAWING No:
G-1.1
 SHEET No:

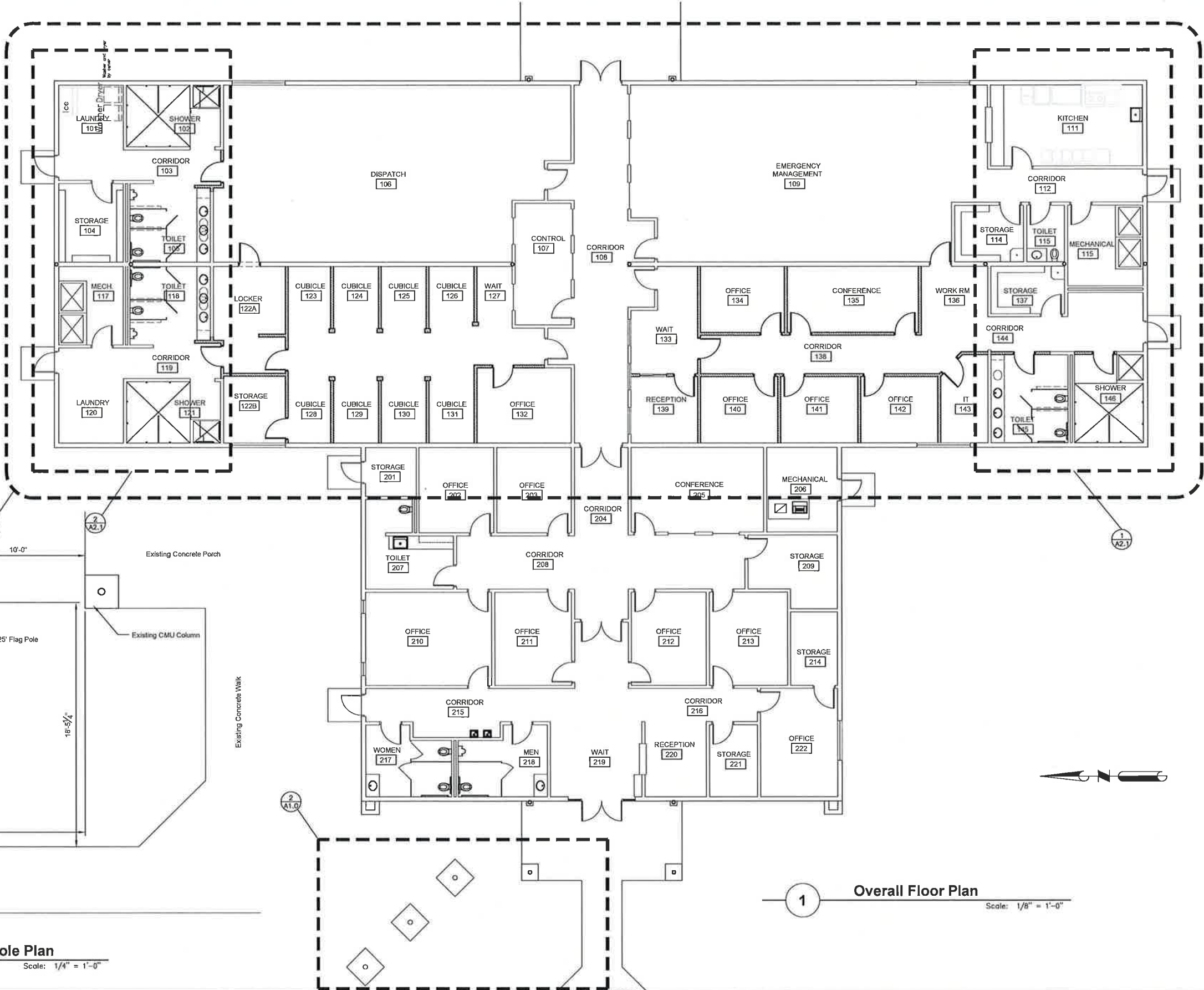
Jul 15, 2013 - 12:32pm - steve.mcgarraugh
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Flagpoles

Flag poles shall be provided by the Owner and installed by the contractor. See Structural for flagpole pier and mounting detail.



2 Flagpole Plan
Scale: 1/4" = 1'-0"



1 Overall Floor Plan
Scale: 1/8" = 1'-0"

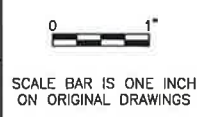
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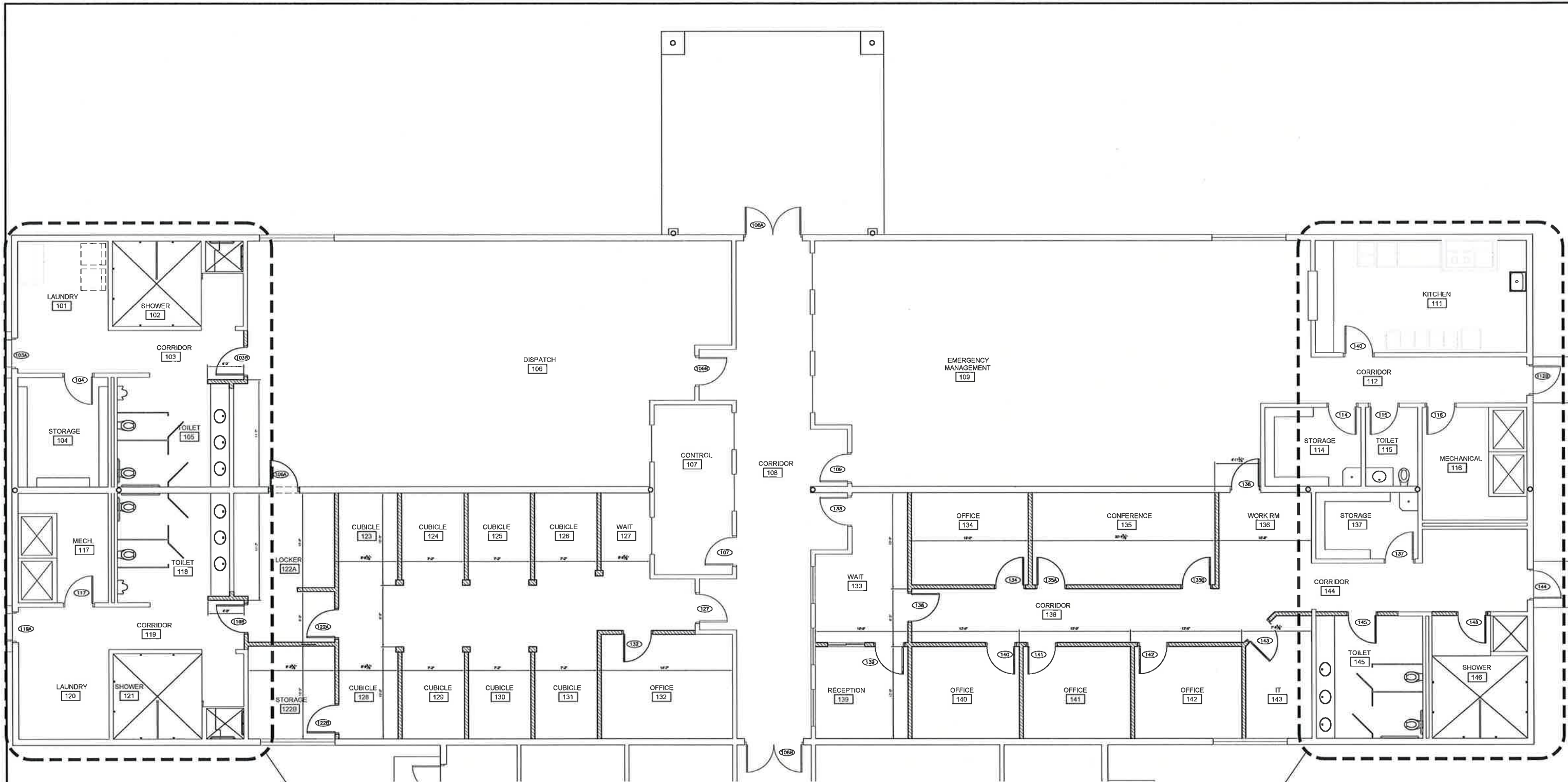
Hidalgo County Precinct No 4
 Restitution Center Remodel
 Edinburg Texas

Overall Floor Plan



PROJECT No:
 4525-04
 DRAWING No:
A-1.0
 SHEET No:

Jul 15, 2013 - 1:19pm steve.mcgrorrough
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Wall Types Schedule:

- Existing CMU block wall. Sand to rough surface and apply two coats of Sherwin Williams XXX or approved equal. Color to be selected.
- New 2x4 wood stud wall w/ 5/8" gypsum board both sides. Walls extend to 9'-0" a.f.f. and braced to structure above. Tape, float, sand, texture, prime and paint with two coats of XXX or approved equal. Color to be selected.

Floor Finishes Schedule:

- Existing Ceramic Tile (Floors and Walls): Protect finishes during construction. Replace damaged or missing tiles to match. Clean and point grout and clean tile at completion of project.
- Existing Vinyl Composite Tile (VCT): Protect VCT during construction. Clean, strip, and apply 4 coats of wax at completion of project. Place new walls over existing VCT floors.
- Rubber Cove Base: Remove all existing rubber cove base prior to painting walls. Install all new rubber cove base at VCT floor areas following wall painting. Rubber cove base by Roppe or other approved manufacturer. Color to be selected.

Miscellaneous Products and Finishes:

- Protect all existing and new finishes during construction.
- Clean windows, counter surfaces, toilet fixtures, accessories, mirrors and partitions, cabinets shelving and other miscellaneous surfaces at completion of project.

1 Enlarged Floor Plan

DESIGNED BY:	REVISIONS			
	NO	DATE		APP
DRAWN BY:				
CHECKED BY:				
APPROVED BY:				
DATE: JUNE 2013				

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Hidalgo County Precinct No 4
Restitution Center Remodel
 Edinburg Texas





Enlarged Floor Plan





PROJECT No: 4525-04
DRAWING No: A-1.1
SHEET No:

Jul 15, 2013 - 1:54pm etes.mcgovern@hcc.com
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Legend:

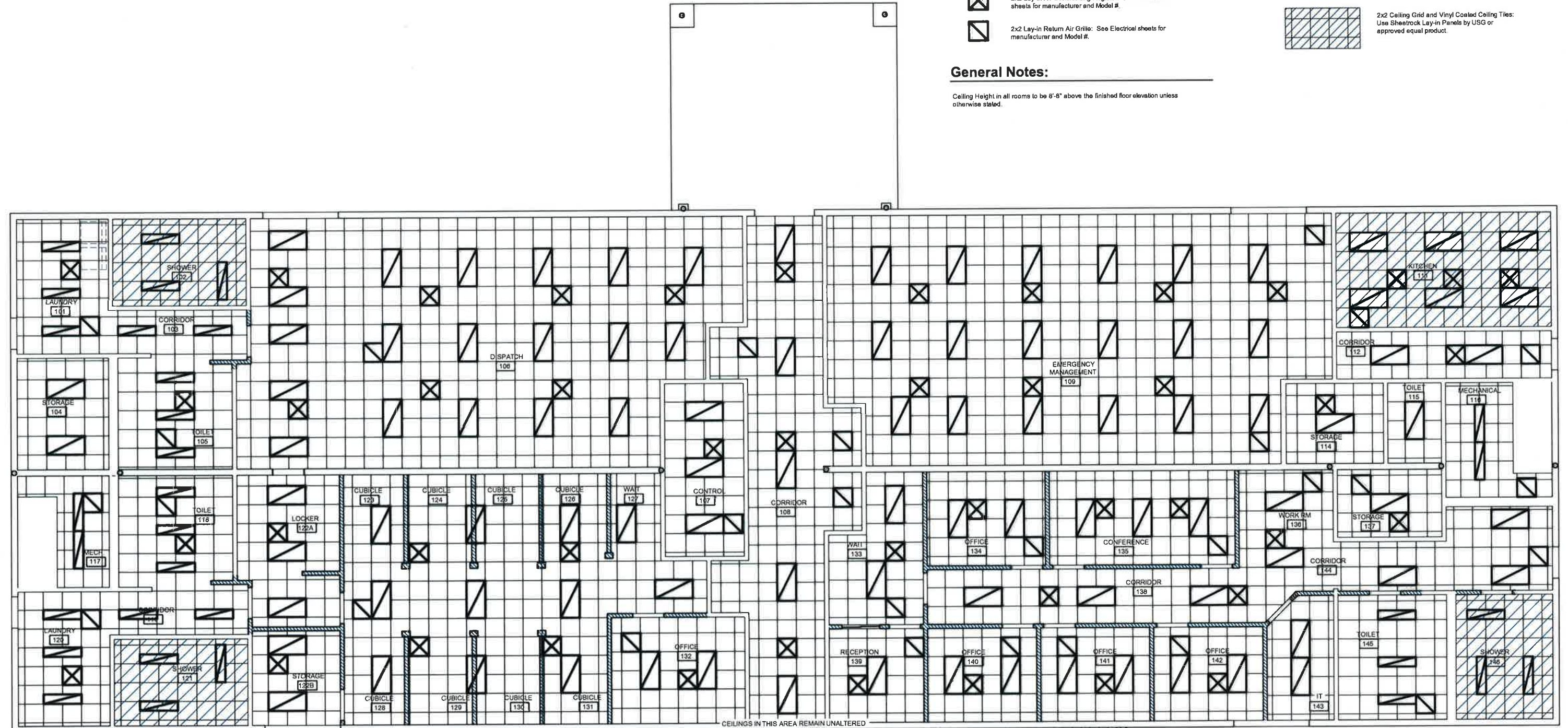
-  2x4 Lay-in Troffer Light Fixture: See Electrical sheets for manufacturer and Model #.
-  Surface Mounted 4' Light Fixture: See Electrical sheets for manufacturer and Model #.
-  2x2 Lay-in Air Conditioning Register: See Mechanical sheets for manufacturer and Model #.
-  2x2 Lay-in Return Air Grille: See Electrical sheets for manufacturer and Model #.

Wall Types Schedule:

-  2x2 Ceiling Grid and Acoustic Ceiling Tile: Use DOWN DXLA by USG or approved equal product.
-  2x2 Ceiling Grid and Vinyl Coated Ceiling Tiles: Use Sheetrock Lay-in Panels by USG or approved equal product.

General Notes:

Ceiling Height in all rooms to be 8'-8" above the finished floor elevation unless otherwise stated.



CEILINGS IN THIS AREA REMAIN UNALTERED

1
Reflected Ceiling Plan

DESIGNED BY:			
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
DATE:	JUNE 2013		

REVISIONS			
NO	DATE	APP	

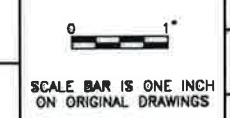
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Hidalgo County Precinct No 4
Restitution Center Remodel
 Edinburg Texas

Reflected Ceiling Plan



PROJECT No:
4525-04

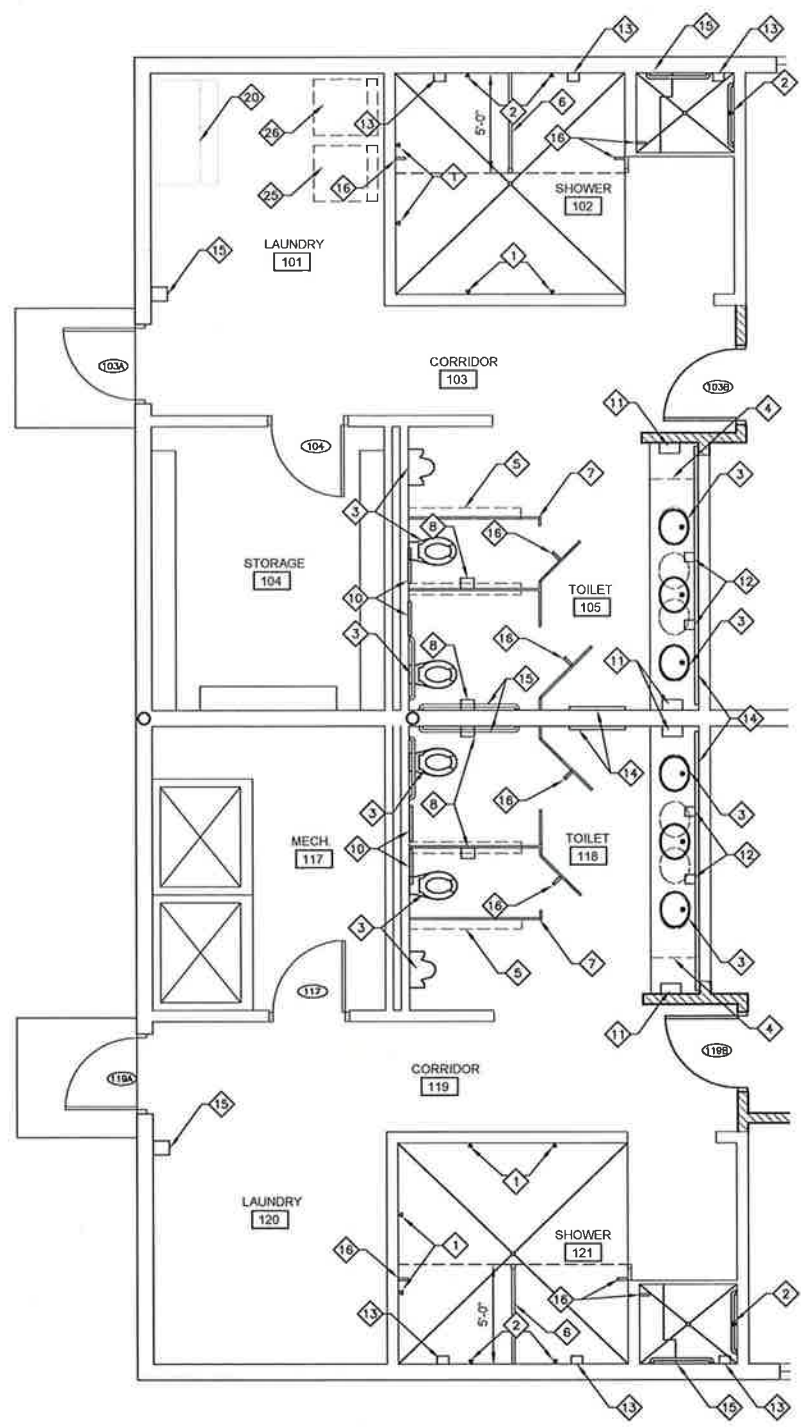
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A-1.2

SHEET No:

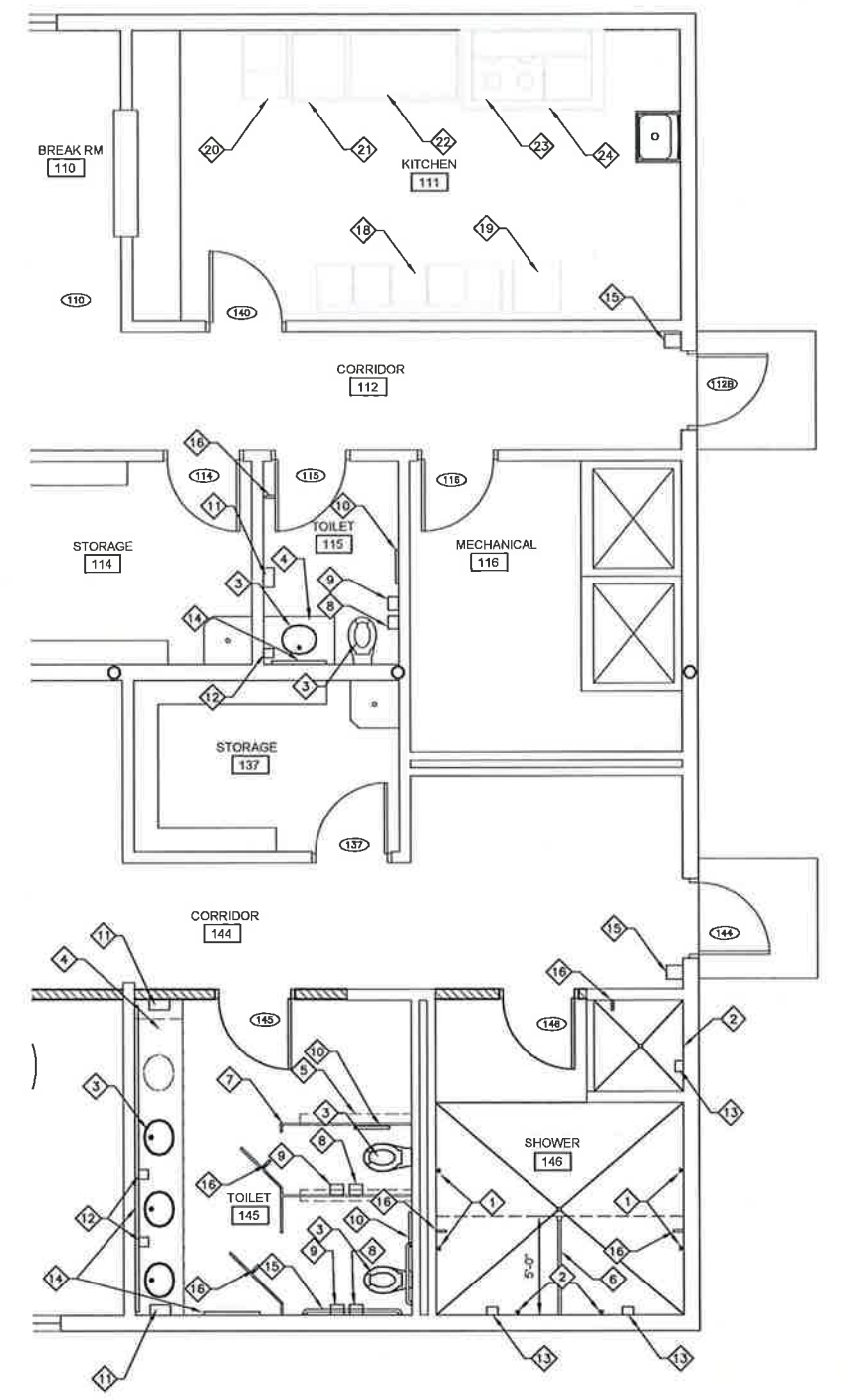
Jul 15, 2013 - 2:19pm - steve.mcgarraugh
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KEYED NOTES:

- 1 REMOVE EXISTING SHOWER HEAD AND FAUCET ASSEMBLY. REPAIR OPENING IN WALL. COVER REPAIR WITH NEW CERAMIC TILE TO MATCH EXISTING. (SEE PLUMBING SHEETS FOR ADDITIONAL INFORMATION).
- 2 REMOVE EXISTING SHOWER HEAD AND FAUCET ASSEMBLY. INSTALL NEW SHOWER HEAD, FAUCET ASSEMBLY. REPAIR OPENING IN WALL. COVER REPAIR WITH NEW CERAMIC TILE TO MATCH EXISTING. (SEE PLUMBING SHEETS FOR ADDITIONAL INFORMATION).
- 3 REMOVE AND REPLACE EXISTING PLUMBING FIXTURES. (SEE PLUMBING PLUMBING SHEETS FOR MANUFACTURER AND MODEL #).
- 4 REMOVE EXISTING COUNTER TOP. INSTALL NEW 3/4" PLYWOOD TOP WITH PLASTIC LAMINATE SURFACES. (LAMINATE TO BE SELECTED FROM WILSONART OR FORMICA STANDARD COLORS).
- 5 REMOVE EXISTING CMU TOILET PARTITION. INSTALL NEW CERAMIC TILE TO MATCH EXISTING AT LOCATION OF REMOVED PARTITION.
- 6 INSTALL NEW TOILET PARTITION AND HEADER BAR PREPARED FOR USE AS A SHOWER CURTAIN ROD. (USE HINEY HIDER OR APPROVED EQUAL PRODUCT).
- 7 INSTALL COMPLETE NEW TOILET PARTITION SYSTEM BY HINEY HIDER OR APPROVED EQUAL PRODUCT.
- 8 TOILET PAPER DISPENSER
- 9 SANITARY NAPKIN DISPENSER
- 10 TOILET SEAT COVER DISPENSER
- 11 PAPER TOWEL DISPENSER
- 12 SOAP DISPENSER
- 13 SOAP DISH
- 14 MIRROR
- 15 GRAB BAR PER CODE SIZING AND TYPE
- 16 COAT HOOK
- 17 FIRE EXTINGUISHER
- 18 SINK
- 19 DISH WASHER
- 20 ICE MAKER
- 21 REFRIGERATOR
- 22 FREEZER
- 23 RANGE
- 24 RANGE HOOD W/ FIRE SUPPRESSION
- 25 WASHING MACHINE PROVIDED BY OWNER, CONTRACTOR INSTALLED
- 26 DRYER PROVIDED BY OWNER, CONTRACTOR INSTALLED



2 Enlarged Plan Details



1 Enlarged Plan Details

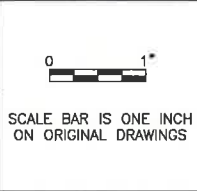
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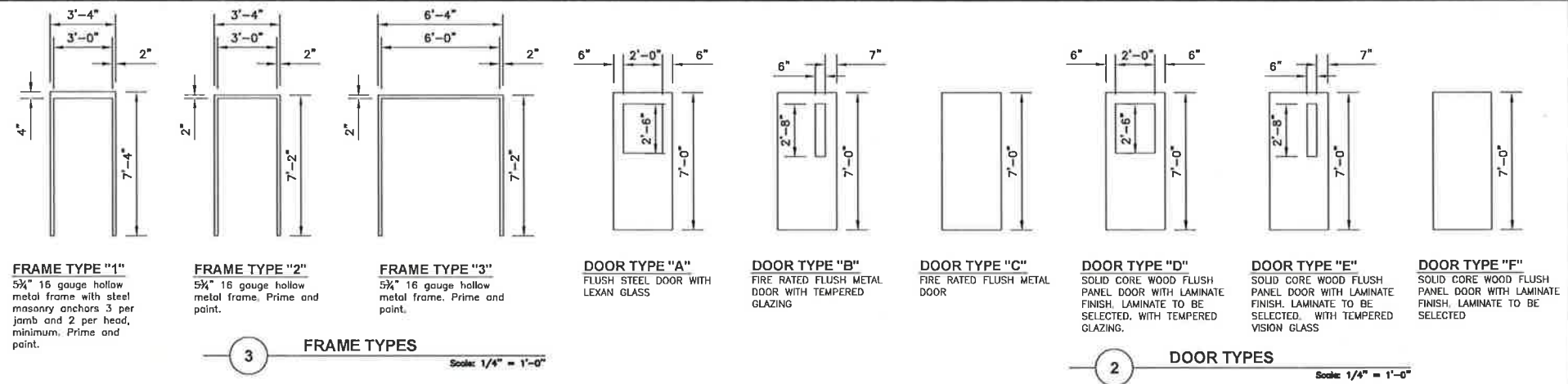


Hidalgo County Precinct No 4
 Restitution Center Remodel
 Edinburg Texas
Enlarged Plan Details



PROJECT No:
 4525-04
 DRAWING No:
 A-2.1
 SHEET No:

Jul 15, 2013 - 2:08pm steve.mcgarrugh G:\1540\4525-04 - HC Precinct 4 New Restitution Center Remodel\Drawings\Architectural\Sheets 2013\A 3.1 Door Schedule.dwg



FRAME TYPE "1"
5 1/4" 16 gauge hollow metal frame with steel masonry anchors 3 per jamb and 2 per head, minimum. Prime and paint.

FRAME TYPE "2"
5 1/4" 16 gauge hollow metal frame. Prime and paint.

FRAME TYPE "3"
5 1/4" 16 gauge hollow metal frame. Prime and paint.

DOOR TYPE "A"
FLUSH STEEL DOOR WITH LEXAN GLASS

DOOR TYPE "B"
FIRE RATED FLUSH METAL DOOR WITH TEMPERED GLAZING

DOOR TYPE "C"
FIRE RATED FLUSH METAL DOOR

DOOR TYPE "D"
SOLID CORE WOOD FLUSH PANEL DOOR WITH LAMINATE FINISH. LAMINATE TO BE SELECTED, WITH TEMPERED GLAZING.

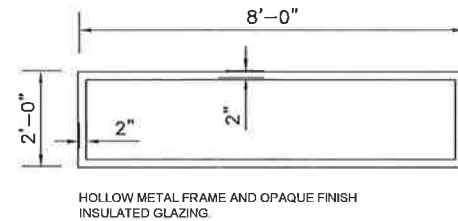
DOOR TYPE "E"
SOLID CORE WOOD FLUSH PANEL DOOR WITH LAMINATE FINISH. LAMINATE TO BE SELECTED, WITH TEMPERED VISION GLASS

DOOR TYPE "F"
SOLID CORE WOOD FLUSH PANEL DOOR WITH LAMINATE FINISH. LAMINATE TO BE SELECTED

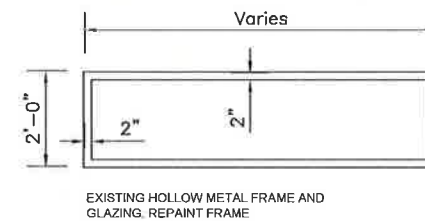
3 FRAME TYPES Scale: 1/4" = 1'-0"

2 DOOR TYPES Scale: 1/4" = 1'-0"

DOOR AND FRAME SCHEDULE - FVD												
MARK	DOOR			FRAME							NOTES	
	WED	SIZE	HEFT	ELEV TYPE	MATL	GLAZING	MATL	EL	HEAD	DETAIL JAMB		SILL
103A	EXISTING	EXISTING			EXISTING		EXISTING					REPAINT ONLY
103B	EXISTING	3'-0"	7'-0"	C	STEEL		STEEL	2	6	5		REPAINT ONLY
104	EXISTING	EXISTING	EXISTING		EXISTING		EXISTING					REPAINT ONLY
106A	EXISTING	3'-0"	7'-0"	C	WOOD		STEEL	1	6	5		FIRE RATED
106B	EXISTING	EXISTING	EXISTING		EXISTING		EXISTING					REPAINT ONLY
107	EXISTING	EXISTING	EXISTING		EXISTING		EXISTING					REPAINT ONLY
108A	EXISTING	EXISTING	EXISTING		EXISTING		EXISTING					REPAINT ONLY
108B	EXISTING	EXISTING	EXISTING		EXISTING		EXISTING					REPAINT ONLY
109	EXISTING	EXISTING	EXISTING		EXISTING		EXISTING					REPAINT ONLY
110	EXISTING	3'-0"	7'-0"	A	WOOD	HALF	STEEL	2	6	5		REPAINT ONLY
111	EXISTING	EXISTING	EXISTING		EXISTING		EXISTING					REPAINT ONLY
112A	EXISTING	3'-0"	7'-0"	A	STEEL	HALF	STEEL	2	6	5		REPAINT ONLY
112B	EXISTING	EXISTING	EXISTING		EXISTING		EXISTING					REPAINT ONLY
114	EXISTING	EXISTING	EXISTING		EXISTING		EXISTING					REPAINT ONLY
115	EXISTING	EXISTING	EXISTING		EXISTING		EXISTING					REPAINT ONLY
116	EXISTING	EXISTING	EXISTING		EXISTING		EXISTING					REPAINT ONLY
117	EXISTING	EXISTING	EXISTING		EXISTING		EXISTING					REPAINT ONLY
119A	EXISTING	EXISTING	EXISTING		EXISTING		EXISTING					REPAINT ONLY
119B	EXISTING	3'-0"	7'-0"	C	STEEL		STEEL	2	6	5		REPAINT ONLY
122	EXISTING	3'-0"	7'-0"	C	WOOD		STEEL	2	6	5		REPAINT ONLY
127	EXISTING	EXISTING	EXISTING		EXISTING		EXISTING					REPAINT ONLY
132	EXISTING	3'-0"	7'-0"	E	WOOD	VISION	STEEL	2	6	5		REPAINT ONLY
133	EXISTING	EXISTING	EXISTING		EXISTING		EXISTING					REPAINT ONLY
134	EXISTING	3'-0"	7'-0"	E	WOOD	VISION	STEEL	2	6	5		REPAINT ONLY
135A	EXISTING	3'-0"	7'-0"	E	WOOD	VISION	STEEL	2	6	5		REPAINT ONLY
135B	EXISTING	3'-0"	7'-0"	E	WOOD	VISION	STEEL	2	6	5		REPAINT ONLY
137	EXISTING	EXISTING	EXISTING		EXISTING		EXISTING					REPAINT ONLY
138	EXISTING	3'-0"	7'-0"	E	WOOD	VISION	STEEL	2	6	5		REPAINT ONLY
139	EXISTING	3'-0"	7'-0"	E	WOOD	VISION	STEEL	2	6	5		REPAINT ONLY
140	EXISTING	3'-0"	7'-0"	E	WOOD	VISION	STEEL	2	6	5		REPAINT ONLY
141	EXISTING	3'-0"	7'-0"	E	WOOD	VISION	STEEL	2	6	5		REPAINT ONLY
142	EXISTING	3'-0"	7'-0"	E	WOOD	VISION	STEEL	2	6	5		REPAINT ONLY
143	EXISTING	3'-0"	7'-0"	E	WOOD	VISION	STEEL	2	6	5		REPAINT ONLY
144	EXISTING	EXISTING	EXISTING		EXISTING		EXISTING					REPAINT ONLY
145	EXISTING	3'-0"	7'-0"	C	STEEL		STEEL	2	6	5		REPAINT ONLY

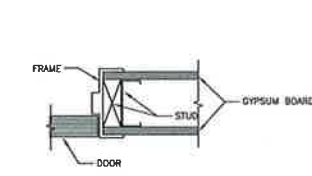


WINDOW TYPE "W1"
HOLLOW METAL

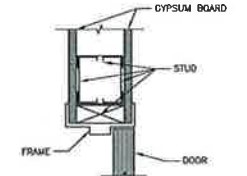


WINDOW TYPE "W2"
HOLLOW METAL

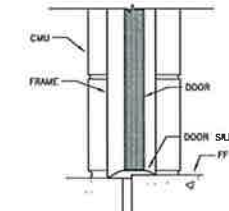
4 WINDOW TYPES Scale: 1/2" = 1'-0"



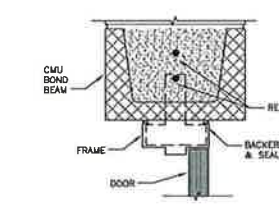
5 INTERIOR DOOR JAMB Scale: 1-1/2" = 1'-0"



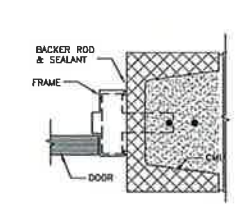
6 INTERIOR DOOR HEAD Scale: 1-1/2" = 1'-0"



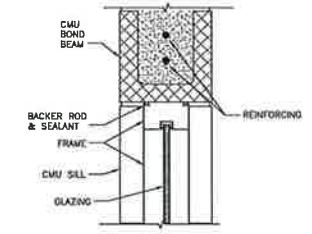
7 CMU DOOR SILL Scale: 1-1/2" = 1'-0"



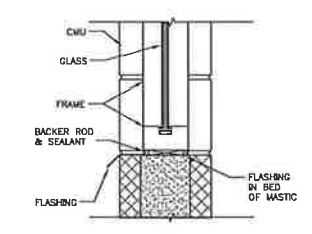
8 CMU DOOR HEAD Scale: 1-1/2" = 1'-0"



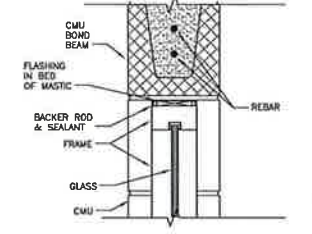
9 CMU DOOR JAMB Scale: 1-1/2" = 1'-0"



10 WINDOW JAMB Scale: 1-1/2" = 1'-0"



11 WINDOW SILL Scale: 1-1/2" = 1'-0"



12 WINDOW HEAD Scale: 1-1/2" = 1'-0"

DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:
DATE: JUNE 2013

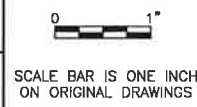
REVISIONS			
NO	DATE		APP

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Hidalgo County Precinct No 4
Restitution Center Remodel
Edinburg Texas

Door Schedule/ Door Details



PROJECT No:
4525-04
DRAWING No:
A-3.1
SHEET No:

GENERAL NOTES - MECHANICAL:

- THE MECHANICAL CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE WORK IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES UNDER THIS SECTION OF THE CONTRACT. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE LOCAL CODES, HE/SHE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION, FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET APPLICABLE LOCAL CODES, AND RE-WORK SHALL BE AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL HANG AND INSTALL ALL DUCTWORK FLUSH WITH THE BUILDING STRUCTURE TO ACCOMMODATE NEW CEILINGS. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH ARCHITECTURAL AND ELECTRICAL DESIGN. ALL DUCTWORK SHALL BE MODIFIED AS NECESSARY AND REQUIRED TO FIT AROUND BUILDING STRUCTURES, ARCHITECTURAL BUILD-OUT AND ELECTRICAL CABLE TRAY INSTALLATIONS. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.
- CONNECT EACH DIFFUSER TO THE MAIN DISTRIBUTION DUCTS WITH A FLEX-DUCT SECTION; CONNECTIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE DETAIL. EACH FLEX-DUCT CONNECTION SHALL INCLUDE A BUTTERFLY DAMPER TO BE INSTALLED AT THE TRUNK DUCT.
- CONTRACTOR SHALL PROVIDE ALL DUCTWORK REQUIRED TO COMPLETE THE HVAC SYSTEM. TIE IN BRANCH DUCTS TO MAIN DUCTS WITH SHEET METAL FLANGES, FLANGE CONNECTION SHALL BE FASTENED WITH CRIMPED SHEET METAL STRIPS AND SEALED WITH SILICONE CAULK.
- CONTRACTOR SHALL SUPPLY AND INSTALL FIRE DAMPERS AND ACCESS DOORS IN THE HORIZONTAL DUCTS WHERE THEY PENETRATE FIRE WALLS & BARRIERS.
- ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION 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. CONTRACTOR SHALL REINFORCE ALL 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.
- ON ANY WORK SHOWN ON MECHANICAL DRAWINGS REQUIRING DEMOLITION OF EXISTING OR NEW BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS. REPAIRS SHALL BE COMPLETED ACCORDING TO ARCHITECTURAL SPECIFICATIONS. ALL REFINISHING SHALL BE APPROVED BY THE ARCHITECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING THE INSTALLATION OF THE AIR DISTRIBUTION SYSTEM SHOWN. DUCTWORK, DUCT ACCESSORIES AND CONTROLS SHOWN AND REQUIRED SHALL BE SUPPLIED AND INSTALLED. ALL INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES, INCLUDING NFPA 90A AND 90B (NFPA 90a: Standard for the Installation of Air-Conditioning and Ventilating Systems); NFPA 90b: Standard for the Installation of Warm Air Heating and Air-Conditioning Systems).
- CONTRACTOR SHALL BALANCE ALL AIR DISTRIBUTION SYSTEMS TO ACHIEVE THE AIR VOLUME REQUIREMENTS INDICATED. BALANCING SHALL INCLUDE ADJUSTMENT OF ALL MANUAL VOLUME DAMPERS, SHUTTER DAMPERS, ZONE DAMPERS (IF REQUIRED), BUTTERFLY DAMPERS AND INDIVIDUAL DIFFUSER VOLUME DAMPERS (FINAL BALANCING ONLY). CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A COMPLETE BALANCING REPORT WHICH INCLUDES VOLUME, ROOM REFERENCE AND ZONE VOLUME TOTALS.
- INSTALL ALL THERMOSTATS (SENSORS) 48" ABOVE THE FINISHED FLOOR LEVEL. THERMOSTATS SHOWN SHALL BE IN CONTROL OF THE ZONE SYSTEM WHICH IS SUPPLYING AIR TO THE AREA WHERE THE THERMOSTAT IS LOCATED. CONTRACTOR SHALL SUPPLY AND INSTALL ALL CONTROL VOLTAGE WIRING AND CONDUIT FOR THERMOSTAT (DDC CONTROL) INSTALLATION.
- CONTRACTOR SHALL INSTALL NEW REFRIGERANT PIPING FLUSH WITH THE BUILDING STRUCTURE AND MECHANICAL ROOM BOUNDARIES AS SHOWN. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH DUCTS AND ELECTRICAL CONDUIT. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.
- ALL PIPING SHALL BE INSULATED AND JACKETED, REFER TO THE SPECIFICATIONS. THE CONDENSING AND ROOF TOP CONDENSER COILS ARE TO BE COATED IN ACCORDANCE WITH THE SPECIFICATIONS.
- PROVIDE SMOKE DETECTOR AND SHUTDOWN CONTROLS ON AIR HANDLERS AND SUPPLY FANS. SMOKE DETECTORS SHALL BE PROVIDED BY DIVISION 16 AND INSTALLED BY DIVISION 15, COORDINATE TO PROVIDE A COMPLETE SYSTEM. PROVIDE BOTH SUPPLY AND RETURN SIDE DEVICES.
- PROVIDE SEVEN DAY PROGRAMMABLE THERMOSTAT, 24 HOUR SINGLE/MULTI STAGE COMMERCIAL THERMOSTAT, DUAL SET POINTS, OCCUPIED AND UNOCCUPIED PERIODS, UNIT OPTIMIZATION, AUTO HEATING/COOLING AND AUTO CHANGE OVER, 300-BASE BACK-UP BATTERY AND TEMPORARY OVER-RIDE. 24 VAC CONTROL VOLTAGE, PROVIDE PLASTIC SEE THRU PROTECTIVE COVER WITH KEY LOCK.

MECHANICAL SYMBOL LEGEND		MECHANICAL ABBREVIATIONS	
		A/C	AIR CONDITIONED
		AD	ACCESS DOOR
		AFF	ABOVE FINISHED FLOOR
		AHU	AIR HANDLING UNIT
		APPROX	APPROXIMATE
		ARCH	ARCHITECTURAL
		BDD	BACK DRAFT DAMPER
	SUPPLY AIR GRILLE	BHP	BRAKE HORSEPOWER
	SUPPLY AIR GRILLE-SLOT DIFFUSER	BTU	BRITISH THERMAL UNIT
	RETURN AIR GRILLE	CFM	CUBIC FEET PER MINUTE
	ALL RETURN AIR DUCT DROPS TO INCLUDE A MANUAL DAMPER	CH	CHILLER
	THERMOSTAT	CHP	CHILLED WATER PUMP
	FIRE DAMPER	CLG	CEILING
	FLOW DIRECTION	CWP	CONDENSER WATER PUMP
	PIPE DROP	CO	CLEANOUT
	PIPE RISE	CT	COOLING TOWER
	RETURN AIR DUCT RISE/DROP	CU	COOLING UNIT
	SUPPLY AIR DUCT RISE/DROP	CW	COLD WATER
	WALL OR FLOOR SLEEVE	CL	CENTER LINE
	CHILLED WATER SUPPLY/RETURN PIPING	DB	DRY BULB
	SQUARE TO ROUND DUCT TRANSITION	DIA	DIAMETER
		DN	DOWN
		DWG	DRAWING
		DX	DIRECT EXPANSION
		EAT	ENTERING AIR TEMPERATURE
		EDH	ELECTRIC DUCT HEATER
		EF	EXHAUST FAN
		ELEC	ELECTRICAL
		ELEV	ELEVATION
		F	DEGREES FAHRENHEIT
		FC	FAN COIL
		FD	FIRE DAMPER
		FLEX	FLEXIBLE
		FLG	FLANGE
		FLR	FLOOR
		FLM	FEET PER MINUTE
		FS	FEET, FOOT
		FS	FLOW SWITCH
		GAL	GALLON
		GALV	GALVANIZED
		GPM	GALLONS PER MINUTE
		HB	HOSE BIBB
		HP	HORSEPOWER
		HR	HEAT PUMP (WATER SOURCE)
		HR	HOUR
		HVAC	HEATING/VENTILATING/ AIR CONDITIONING
		HWP	HOT WATER PUMP
		Hz	HERTZ
		ID	INSIDE DIAMETER
		IE	RIVER ELEVATION (FLOW LINE)
		IN	INCHES
		INSUL	INSULATION
		IN WG	INCHES OF WATER
		KW	KILOWATT(S)
		LAT	LEAVING AIR TEMPERATURE
		LB	POUND
		L	LOUVER
		MAX	MAXIMUM
		MBD	MANUAL BALANCING DAMPER
		MD	MOTORIED DAMPER
		MECH	MECHANICAL
		MIN	MINIMUM
		MS	MOTOR STARTER
		NA	NOT APPLICABLE
		NC	NORMALLY CLOSED
		NIC	NOT IN CONTRACT
		NO	NORMALLY OPEN
		NIS	NOT TO SCALE
		OA	OUTSIDE AIR
		OAHD	OUTSIDE AIR INTAKE HOOD
		OBID	OPPOSED BLADE DAMPER
		OC	ON CENTER
		P	PUMP
		PBD	PARALLEL BLADE DAMPER
		PP	PRIMARY CHILLED WATER PUMP
		PRESS	PRESSURE
		PRV	PRESSURE REDUCING VALVE
		PSIG	POUNDS PER SQUARE INCH (GAUGE)
		R	RETURN (AIR DEVICE)
		RA	RETURN AIR
		RE: 4M/01	REFER TO DETAIL 4, SHEET M7.01
		RET	RETURN
		RH	RELATIVE HUMIDITY
		RHD	RELIEF HOOD
		RPM	REVOLUTIONS PER MINUTE
		RTU	ROOF TOP UNIT
		S	SUPPLY (AIR DEVICE)
		SA	SUPPLY AIR
		SCH	SCHEDULE
		SCHP	SECONDARY CHILLED WATER PUMP
		SD	SHOCK DAMPER
		SEC	SECOND
		SF	SUPPLY FAN
		SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
		SP	STATIC PRESSURE
		SPEC	SPECIFICATION
		SF	SQUARE FOOT
		STD	STANDARD
		TEMP	TEMPERATURE
		TSTAT	THERMOSTAT
		TYP	TYPICAL
		UF	UNDER FLOOR
		UH	UNIT HEATER
		UL	UNDERWRITERS LABORATORIES
		VEL	VELOCITY
		VENT	VENTILATE
		VF	VENTILATION FAN
		VOL	VOLUME
		VOLT	VOLTAGE
		W	WIDE, WIDTH
		W/	WITH
		WB	WET BULB
		W/O	WITHOUT

H.V.A.C. SYSTEM

THE WORK INCLUDES PROVIDING THE HVAC SYSTEMS, INCLUDING DUCTWORK, DIFFUSERS AND GRILLES, INSULATION, CONTROLS, AND ALL OTHER EQUIPMENT NECESSARY FOR A COMPLETE FUNCTIONING SYSTEM. HVAC SYSTEM SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING:

- HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) UNITS.
- SUPPLY AND RETURN DUCTWORK SYSTEMS WITH GRILLES, DIFFUSERS, FILTERS, AND DAMPERS.
- TEMPERATURE CONTROL SYSTEMS INCLUDING LOW VOLTAGE WIRING AND CONDUIT.
- DUCT, PIPING, AND EQUIPMENT INSULATION, WHERE INDICATED HEREIN.
- CONTROLS AND WIRING FOR CONNECTION TO LANDLORD'S FIRE-SMOKE ALARM SYSTEM (WHERE APPLICABLE).

SECTION 15500

THE CONTRACTOR SHALL COORDINATE ALL NEW DUCTWORK INCLUDING DUCTWORK INSULATION AND REINFORCING WITH EXISTING DUCTWORK AND DUCTWORK ANGLE BRACING SUCH THAT THE NEW DUCTWORK WILL FIT WITHIN THE SPACE LIMITATIONS OF THE PROJECT.

CONDENSATE PIPING: CONDENSATE PIPING SHALL BE A MINIMUM OF 3/4" COPPER TYPE "L" PIPE. ALL CONDENSATE DRAINS SHALL BE INSULATED WITH 1/2" THICK CLOSED CELL INSULATION SIMILAR TO ARMAFLEX 2000.

THE DESIGN, SELECTION, SPACING AND APPLICATION OF HORIZONTAL PIPE HANGERS, SUPPORTS, RESTRAINTS, ANCHORS AND GUIDES SHALL BE IN ACCORDANCE WITH THE STANDARD CODE FOR PRESSURE PIPING ANSI B31.1 AND THE LATEST EDITION OF THE MANUFACTURERS STANDARDIZATION SOCIETY STANDARDS MSS SP-49, PIPE HANGERS AND SUPPORTS-SELECTION AND APPLICATION.

PROVIDE PIPE COVERING PROTECTION SHIELDS AND SADDLES FOR ALL INSULATED PIPING AT THE LOCATIONS OF ALL SUPPORTS. THE PROTECTION SHIELD LENGTH AND GAUGE THICKNESS FOR USE AT EACH CLEVIS HANGER SHALL BE AS SPECIFIED FOR TYPE 40 PROTECTION SHIELDS IN THE CURRENT EDITION OF MSS SP-49. PROTECTION SHIELDS SHALL BE GALVANIZED AND SHALL BE ARRANGED TO COVER ONE-HALF OF THE CIRCUMFERENCE OF THE INSULATION AND SHALL BE MOUNTED ON THE OUTSIDE OF THE INSULATION WITH INSULATION BLOCKING BETWEEN THE PIPE AND SADDLE TO PREVENT CRUSHING OF THE INSULATION. INSULATION BLOCKING SHALL BE UP TO 2" THICK HIGH DENSITY MOLDED URETHANE OR SEGMENTED MACHINERY CORK DIPPED IN HOT ASPHALT VAPOR SEAL. OF NOT LESS THAN THE SAME LENGTH AND CIRCUMFERENCE AS THE PIPE PROTECTION SHIELD.

ALL HANGERS, HARDWARE, RODS, CLAMPS, CHANNELS, BASE PLATES, ANGLES, BOLTS, NUTS AND OTHER FACTORY-BUILT OR SHOP FABRICATED PIPE SUPPORT DEVICES SHALL BE GALVANIZED OR CADMIUM PLATED UNLESS NOTED OTHERWISE ON THE DRAWINGS. ALL SHOP FABRICATED AND WELDED STEEL SUPPORTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

ALL CONCRETE INSERTS FOR HANGER RODS SHALL BE NATIONAL PIPE HANGERS CORPORATION FIGURE 605 WITH FIGURE 607, OR GRINNELL FIGURE 289, FIGURE 152, OR APPROVED EQUAL. METAL DECK CONCRETE INSERT SHALL BE 8" MANUFACTURING CORPORATION FIGURE 282. GALVANIZED FABRICATED STEEL METAL DECK CEILING BOLT, PHILLIPS RED HEAD, OR APPROVED EQUAL. HANGER RODS, INSERTS, ETC., SHALL BE SIZED AND INSTALLED AS RECOMMENDED BY THE HANGER MANUFACTURER FOR THE SERVICE INTENDED.

FIELD VERIFY THE EXACT SIZES AND LOCATIONS OF ALL EXISTING DUCTWORK AND PIPING PRIOR TO DEMOLITION OF ANY EXISTING WORK. THE DEMOLITION WORK SHALL BE COORDINATED WITH THE NEW WORK TO ASSURE PROPER LIMITS OF DEMOLITION.

WARRANTY: PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF THE COMPLETED PROJECT. PROVIDE A SEPARATE LINE ITEM DEDUCT AMOUNT ON THE PROPOSAL FORM TO DELETE WARRANTY SERVICE, AT THE OWNER'S OPTION.

DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS, AS REQUIRED. PROVIDE ALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED. THE WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES OR ORDINANCES AND SUBJECT TO INSPECTION.

COORDINATE WITH THE WORK OF OTHER SECTIONS. EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE LANDLORD, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

EXTRA STOCK: PROVIDE TWO SETS OF REPLACEMENT FILTERS PER EACH INSTALLED FOR ALL THE ROOFTOP UNITS, AND OTHER EQUIPMENT AND DEVICES, AND PROVIDE AN ITEMIZED LIST OF THE NUMBER, TYPE REQUIRED, AND WHERE USED. OBTAIN RECEIPT FROM OWNER THAT THESE ITEMS HAVE BEEN DELIVERED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE.

DUCT DIMENSIONS: UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON DRAWING ARE SHEET METAL DIMENSIONS ON UNLINED DUCTS (INTERIOR DIMENSIONS).

SHEET METAL DUCTWORK: SHEET METAL DUCTWORK SHALL BE FABRICATED AND INSTALLED TO MEET ASHRAE AND SMACNA STANDARDS, FOR 1" W.G. PRESSURE CLASS. SHEET METAL SHALL BE GALVANIZED SHEET STEEL OF LOCK FORMING QUALITY, ASTM A-525. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. CONNECTIONS TO WALLS OR FLOOR SHALL BE AIR TIGHT WITH ANGLE IRON AND CAULKING. SEAL ALL DUCT SEAMS, TRANSVERSE AND LONGITUDINAL, AIR TIGHT. PROVIDE TURNING VANES AT ALL ELBOWS OR OFFSETS EXCEEDING 30°.

DUCT SHALL BE EXTERNALLY WRAPPED W/ 2" FIBERGLASS BLANKET INSULATION. RIGID ROUND GALVANIZED DUCT SHALL BE SPIRAL OR SNAP LOCK GALVANIZED SHEET METAL COMPLYING WITH SMACNA.

FIBERGLASS DUCT BOARD IS AN ACCEPTABLE W/ PRIOR WRITTEN OWNER PERMISSION. MINIMUM R-VALUE OF 5 REQUIRED FOR CONDITIONED SPACES AND MINIMUM R-VALUE OF 8 FOR UNCONDITIONED SPACES.

FLEXIBLE DUCT CONNECTOR: WHERE INDICATED PROVIDE UL Labeled 30oz. NEDRÈNE COATED FIBERGLASS FABRIC DUCT CONNECTORS.

GRILLES AND DIFFUSERS: PROVIDE GRILLES, DIFFUSERS, AND DAMPERS IN SIZES, CAPACITIES, MATERIALS, AND PATTERN INDICATED ON THE DRAWINGS.

ACCESS PANELS: PROVIDE HINGED ACCESS PANELS IN DUCTWORK WHERE REQUIRED FOR ACCESS TO EQUIPMENT. PROVIDE INSULATED ACCESS DOORS IN INSULATED DUCTWORK.

PROVIDE WHERE APPLICABLE: DUCT MOUNTED SUPPLY AND/OR RETURN AIR PHOTOELECTRIC TYPE UL LISTED SMOKE DETECTORS. DETECTORS SHALL BE LISTED FOR THE AIR VELOCITIES ENCOUNTERED. PROVIDE INTERLOCK WIRING AND RELAYS FOR UNIT SHUT DOWN. ON ACTIVATION OF ANY DETECTOR, ALL HVAC UNIT FANS SHALL STOP.

TEST AND ADJUST EACH PIECE OF EQUIPMENT AND EACH SYSTEM AS REQUIRED TO ASSURE PROPER BALANCE AND OPERATION. TEST AND BALANCE SHALL BE PERFORMED BY AN INDEPENDENT NEBB OR AABC REGISTERED CONTRACTOR. ELIMINATE NOISE AND VIBRATION, AND ASSURE PROPER FUNCTION OF ALL CONTROLS. MAINTENANCE OF TEMPERATURE, AND OPERATION, BALANCE MECHANICAL SYSTEM, AND SUBMIT COMPLETED TEST.

TRINITY
MEP ENGINEERING

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Project number:13.1.17



Jul 15, 2013 3:46pm NICK \\diskstation\trinity\2013\13.1.17\DWG\13.1.17 MECH.dwg

DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:
DATE: JUNE 2013

REVISIONS			
NO	DATE		APP

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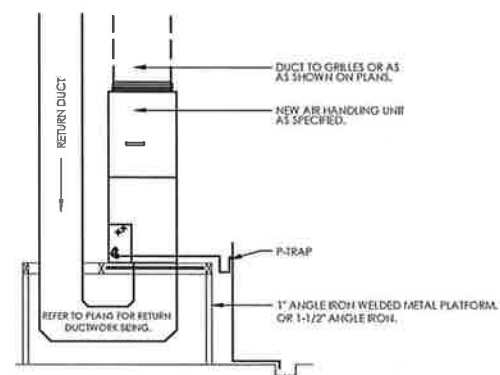
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Hidalgo County Precinct No 4
Restitution Center Remodel
Edinburg Texas

SCALE BAR IS ONE INCH ON ORIGINAL DRAWINGS

PROJECT No:
4525-04
DRAWING No:
SHEET No:
M2.1

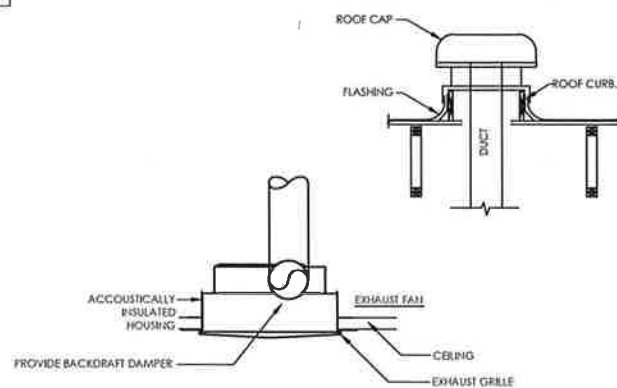
01



NOTE: THIS DETAIL IS NOT A SCALED SECTION OF THE PLAN. SOME DUCT AND AIR DEVICES MIGHT BE SHOWN DIFFERENTLY ON THE MECHANICAL FLOOR PLAN.

AHU WITH DUCTED RETURN
NO SCALE

02



CEILING EXHAUST FAN DETAIL
NO SCALE

03

04

05

06

07

08

Jul 15, 2013 - 3:04pm NICK
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 Project number: 13.1.17

DESIGNED BY:
 DRAWN BY:
 CHECKED BY:
 APPROVED BY:
 DATE: JUNE 2013

REVISIONS			
NO	DATE		APP

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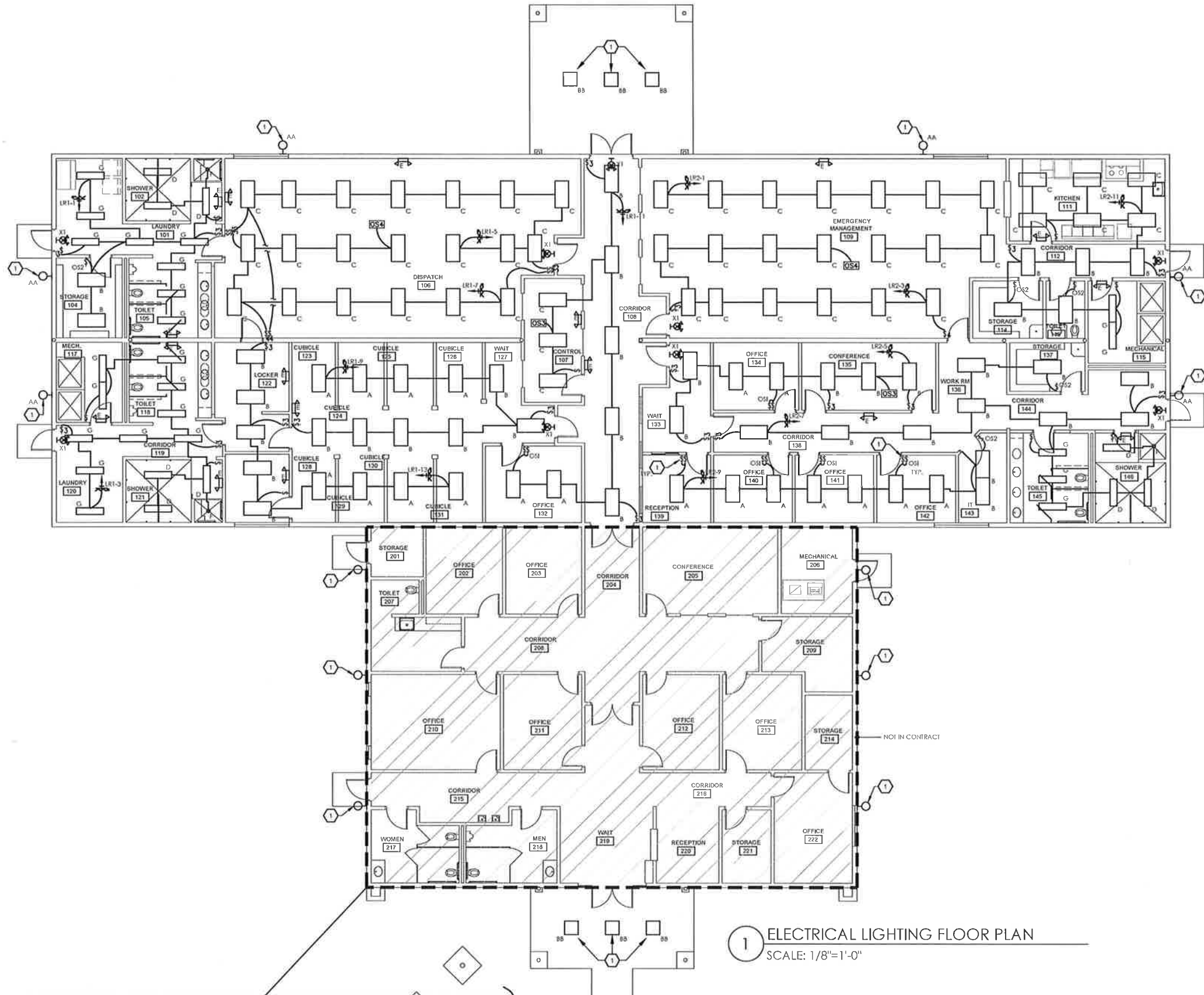
SCALE BAR IS ONE INCH ON ORIGINAL DRAWINGS

PROJECT No:
4525-04

DRAWING No:

SHEET No:
M3.1

Jul 15, 2013 - 3:04pm NICK
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1 ELECTRICAL LIGHTING FLOOR PLAN
 SCALE: 1/8"=1'-0"

GENERAL NOTES: LIGHTING

- A. ALL EXIT FIXTURES TYPE-X1 & X2. EMERGENCY LIGHT FIXTURE TYPE-F AND ALL EMERGENCY BALLAST SHALL BE ON CIRCUIT LR1-15 & LR2-13. FIXTURE TYPE LABEL WITH AN "E" ARE LIGHT FIXTURES WITH EMERGENCY BALLAST. REFER TO LIGHT FIXTURE SCHEDULE.
- B. VERIFY CEILING TYPES AND COORDINATE WITH FIXTURE TYPE LIGHT FIXTURE SHALL BE COMPATIBLE WITH CEILING TYPE AS INDICATED ON THE ARCHITECTURAL DOCUMENTS. NOTIFY ENGINEER IF DISCREPANCIES EXIST PRIOR TO ORDERING FIXTURES.
- C. COORDINATE EXACT ROUTING OF ALL CONDUIT ABOVE CEILING IN BUILDING, TYPICAL FOR ALL BUILDING EXTERIOR LIGHTING.
- D. COORDINATE LOCATION OF LIGHTS WITH DIFFUSERS AND GRILLES.
- E. SWITCH LEGS ARE NOT SHOWN WHERE SWITCHING SCHEME IS OBVIOUS.

KEYED NOTES: LIGHTING

- 1** REPLACE EXISTING LIGHTING FIXTURE WITH NEW LIGHTING FIXTURE.

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0 1"
 SCALE BAR IS ONE INCH ON ORIGINAL DRAWINGS

PROJECT No:
4525-04
 DRAWING No:
 SHEET No:
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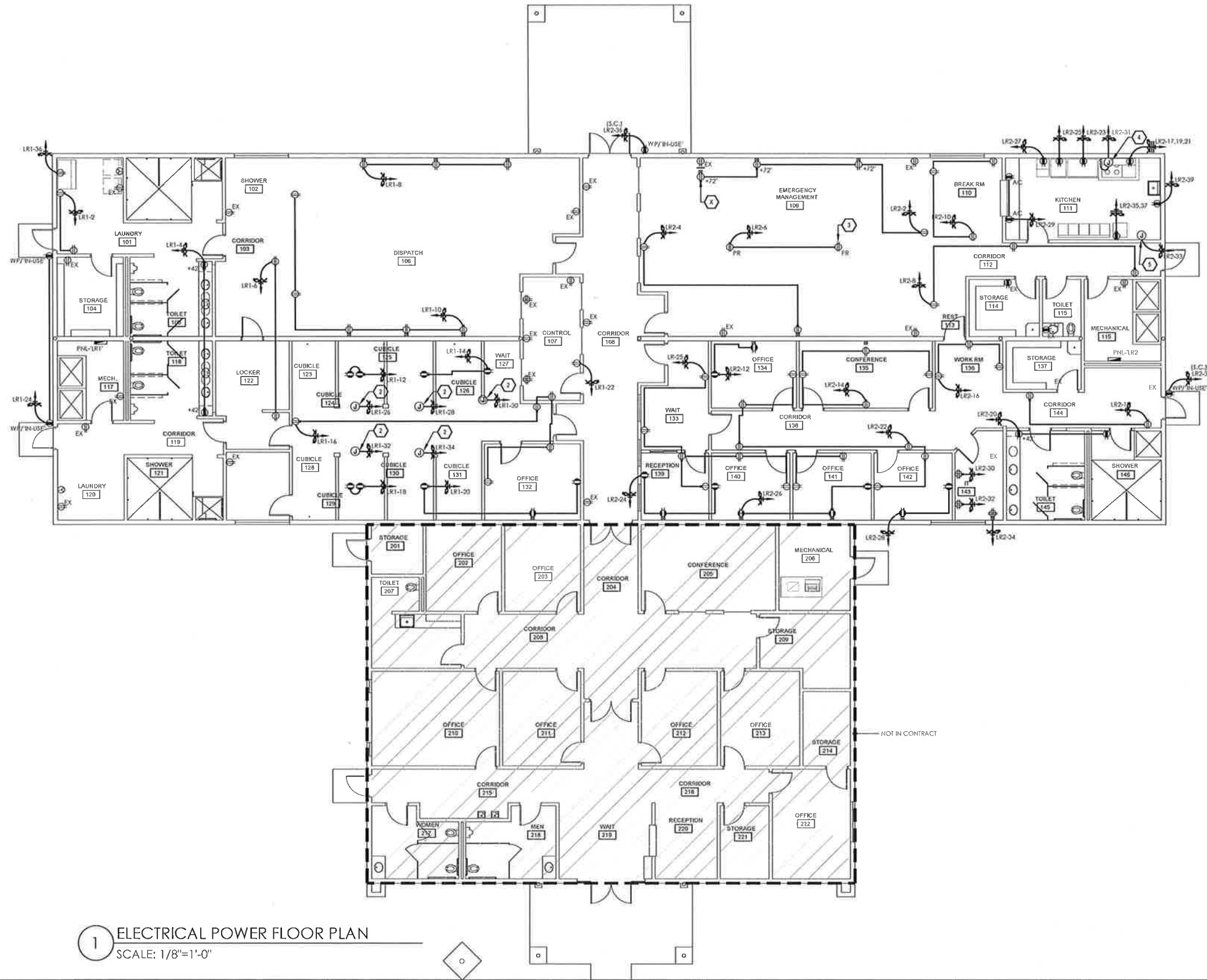
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GENERAL NOTES: POWER

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.
- B. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTION TO H.V.A.C. EQUIPMENT, PLUMBING EQUIPMENT, REFER TO PANEL SCHEDULE FOR WIRE SIZE.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE STARTERS, RELAYS, CONTACTORS AND THE REQUIRED ELECTRICAL ACCESSORIES FOR MECHANICAL SYSTEM AS REQUIRED.
- D. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT IN ACCORDANCE WITH MECHANICAL DRAWINGS TO MEET ELECTRICAL AND MECHANICAL REQUIRED CLEARANCE BY THE LATEST CODE.
- E. COORDINATE EXACT LOCATION OF ISOLATED OUTLETS FOR COMPUTERS WITH OWNER.
- F. ELECTRICAL CONTRACTOR SHALL PROVIDE J-BOX AND CONDUIT FOR H.V.A.C. CONTROLS AND THERMOSTATS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- G. NEMA RATED OUTLETS, REFER TO BREAKER SILE AND COORDINATE WITH EQUIPMENT REQUIREMENTS PRIOR TO BID.

KEYED NOTES: POWER

- 1 RECEPTACLE FOR TELEVISION CIRCUIT. COORDINATE WITH OWNER FOR EXACT LOCATION AND HEIGHT PRIOR TO ROUGH-INS.
- 2 J-BOX FOR POWER/DATA POLE. COORDINATE WITH OWNER FOR EXACT LOCATION PRIOR TO ROUGH-INS.
- 3 RECEPTACLE FOR PROJECTOR. MOUNT TO CEILING PROJECTOR PLATE. COORDINATE EXACT PLATE LOCATION, PROJECTOR PLATE TO BE INSTALLED BY CONTRACTOR.
- 4 J-BOX FOR HOOD LIGHTING CIRCUIT. COORDINATE EXACT LOCATION PRIOR TO COMMENCING ANY ROUGH-INS.
- 5 J-BOX FOR FIRE SUPPRESSION CIRCUIT. COORDINATE EXACT LOCATION PRIOR TO COMMENCING ANY WORK.



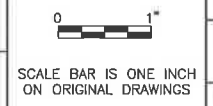
1 ELECTRICAL POWER FLOOR PLAN
 SCALE: 1/8"=1'-0"

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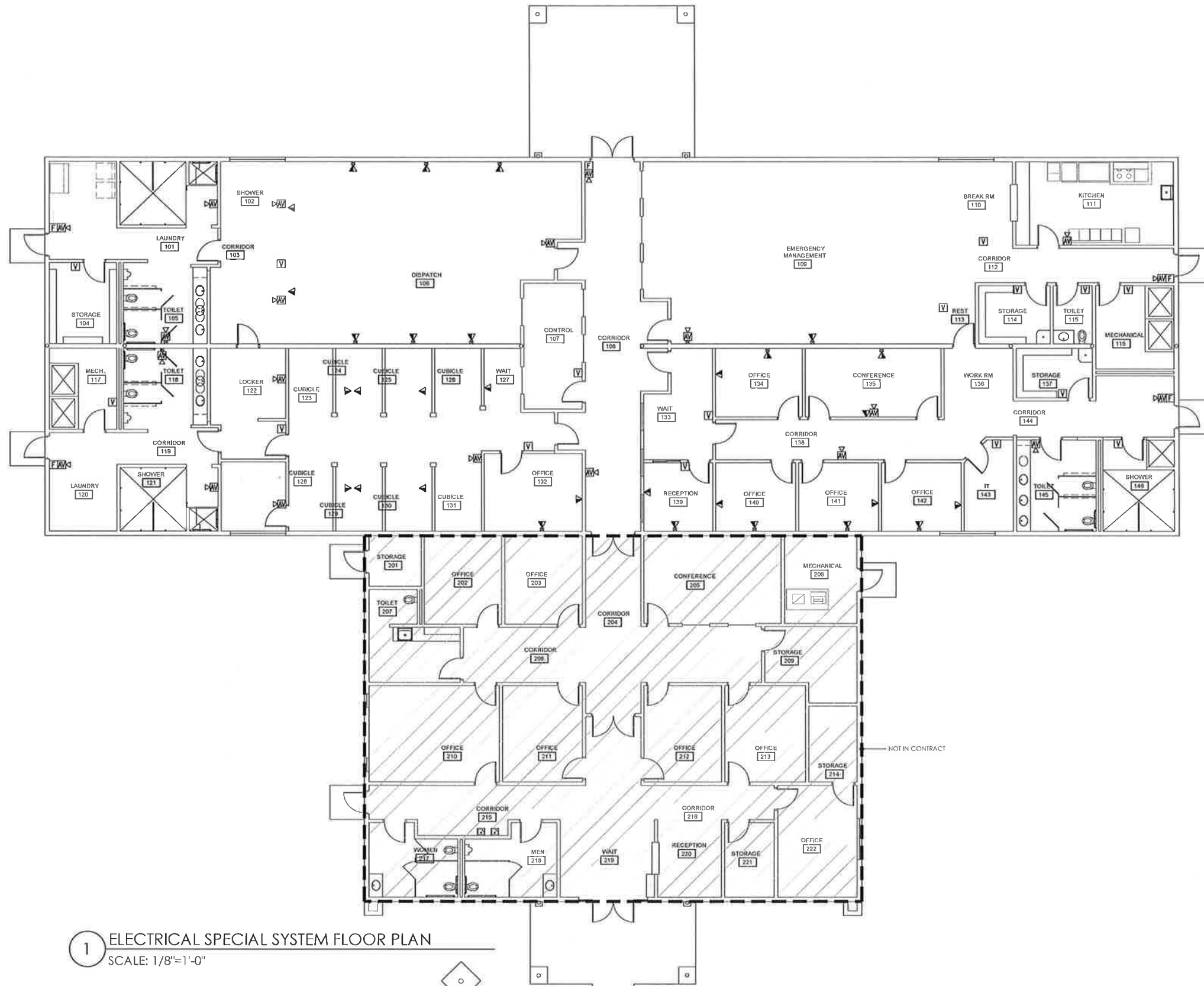


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GENERAL NOTES: SPECIAL SYSTEMS

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.
- B. PROVIDE CLEAR VANDAL COVER WITH STOPPER II OPTION FOR ALL FIRE ALARM PULL STATIONS.
- C. EQUIPMENT AS FURNISHED OF A SINGLE MANUFACTURER.
- D. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT IN ACCORDANCE MECHANICAL DRAWINGS.
- E. ALL CONDUITS SHALL BE REAMED AND COMPLETED WITH CONNECTORS AND INSULATED BUSHINGS AT BOTH ENDS.
- F. ALL DEVICES SHOWN ON DRAWINGS ARE SYMBOLIC ONLY. THE ENTIRE FIRE ALARM SYSTEM SHALL BE IN FULL COMPLIANCE AND MEET ALL CODES AND REQUIREMENTS OF THE LOCAL ADMINISTRATIVE AUTHORITY. ANY MODIFICATIONS REQUIRED TO PROVIDE COMPLIANCE SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT/ENGINEER.
- G. FIRE ALARM LICENSE HOLDER SHALL ASSUME ALL RESPONSIBILITY FOR DESIGN AND SUBMIT DRAWINGS TO JURISDICTION HAVING AUTHORITY AND ABIDE BY ALL OTHER REQUIREMENTS PER JHFA.
- H. ALL SPECIAL SYSTEM CONDUITS SHALL BE STUBBED UP ABOVE THE CEILING LEVEL. IF CABLE TRAY IS PRESENT, STUBBED CONDUITS TO CABLE TRAY.



1 ELECTRICAL SPECIAL SYSTEM FLOOR PLAN
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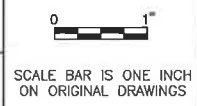
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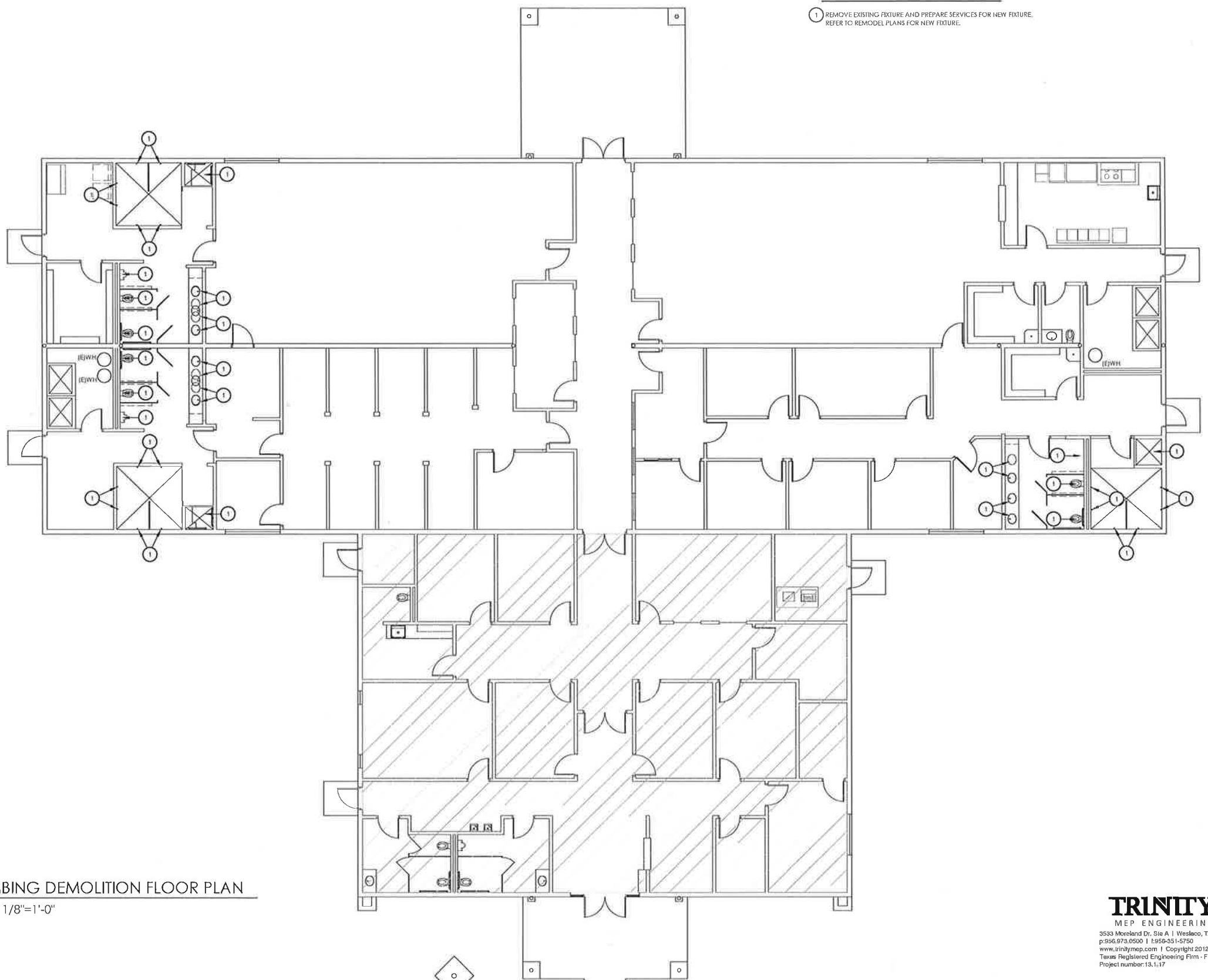
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KEYED NOTES: PLUMBING DEMOLITION
 1 REMOVE EXISTING FIXTURE AND PREPARE SERVICES FOR NEW FIXTURE. REFER TO REMODEL PLANS FOR NEW FIXTURE.

GENERAL DEMOLITION NOTES

- A. 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 INCLUDING THOSE PUBLISHED BY OSHA AND EPA.
- B. THE EXTENT OF DEMOLITION WORK IS INDICATED ON THE ARCHITECTURAL DRAWINGS AND BY THE REQUIREMENTS OF THIS SECTION. A VISIT TO THE SITE WILL BE REQUIRED PRIOR TO BIDDING. CONTRACTOR SHALL IDENTIFY/VERIFY ALL WATER, GAS AND SANITARY LINES BEFORE STARTING ANY DEMOLITION WORK. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL UNDERGROUND UTILITIES IN AREAS OF EXCAVATION WORK.
- C. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL AND/OR RELOCATION OF PLUMBING FIXTURES AND EQUIPMENT AND ASSOCIATED SERVICES TO PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
- D. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE ARCH. DOCUMENTS IN ADDITION TO THE DIVISION 15 AND 16 DOCUMENTS TO DETERMINE THE COMPLETE SCOPE OF WORK.
- E. WHERE FIXTURES OR EQUIPMENT ARE INDICATED OR REQUIRED TO BE REMOVED, THE ASSOCIATED SERVICES SHALL BE CAPPED AT A CONCEALED LOCATION.
- F. WHERE FIXTURES OR EQUIPMENT ARE INDICATED OR REQUIRED TO BE RELOCATED, THE ASSOCIATED SERVICES SHALL BE REMOVED AND CAPPED. NEW MATERIALS SHALL BE USED TO EXTEND SERVICES TO NEW LOCATION.
- G. WHERE SERVICES RUN ABOVE INACCESSIBLE CEILINGS OR IN WALLS WHICH ARE TO REMAIN UNDISTURBED, SERVICES SHALL BE CAPPED AT CONCEALED LOCATION AND ABANDONED.
- H. WHERE THE REMOVAL OF FIXTURES OR EQUIPMENT RENDERS EQUIPMENT DOWNSTREAM INOPERABLE, SERVICES SHALL BE EXTENDED TO THE DOWNSTREAM FIXTURES OR EQUIPMENT SO THAT THE FIXTURES OR EQUIPMENT IS LEFT IN OPERATING CONDITION.
- I. COORDINATE DEMOLITION OF DIVISION 15 SYSTEMS AS REQUIRED WITH ALL OTHER TRADES.
- J. ALL EXISTING PLUMBING FIXTURES AND EQUIPMENT REMOVED DURING CONSTRUCTION THAT ARE NOT TO BE REUSED SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
- K. WHERE EXISTING FIXTURE OR EQPT IS TO BE RELOCATED, BE CAUTIOUS TO PREVENT DAMAGE DURING THE REMOVAL AND REINSTALLATION. WHERE DAMAGE OCCURS, THE EQUIPMENT SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION AND APPROVAL OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- L. EXISTING FIXTURES OR EQUIPMENT TO BE REUSED SHALL BE CLEANED AND REPAIRED AT THE DISCRETION OF THE ARCHITECT WHERE APPLICABLE.
- M. ALL DEVICES WITH AN (E) SYMBOL ARE EXISTING TO REMAIN. (UNO).
- N. ALL DEVICES ATTACHED TO WALLS OR CEILINGS SHALL BE REMOVED PER DEMOLITION NOTE A - L WHETHER SHOWN ON DRAWINGS OR NOT.
- O. CUTTING OF CONCRETE FLOORING SHALL BE BY MACHINE EAW. HOLE FOR PIPES (WALL OR FLOOR) SHALL BE DONE WITH CORE DRILLING EQUIPMENT WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEERS. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS OR SPECIFICATIONS. PATCH AND SEAL OPENINGS AS REQUIRED. COORDINATE ALL CUTTING AND PATCHING WITH OTHER TRADES.



1 PLUMBING DEMOLITION FLOOR PLAN
 SCALE: 1/8"=1'-0"

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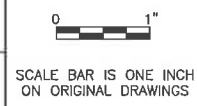
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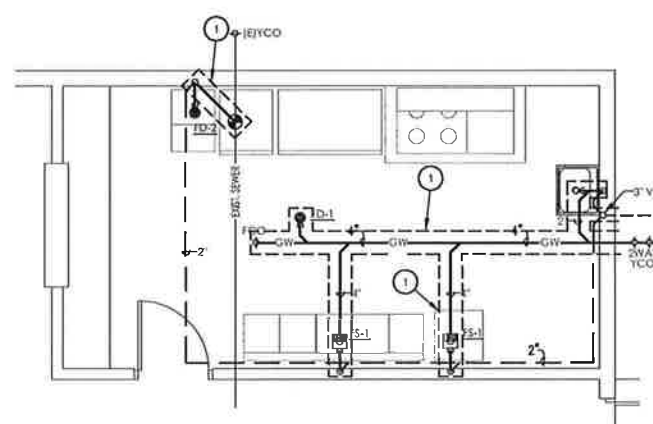
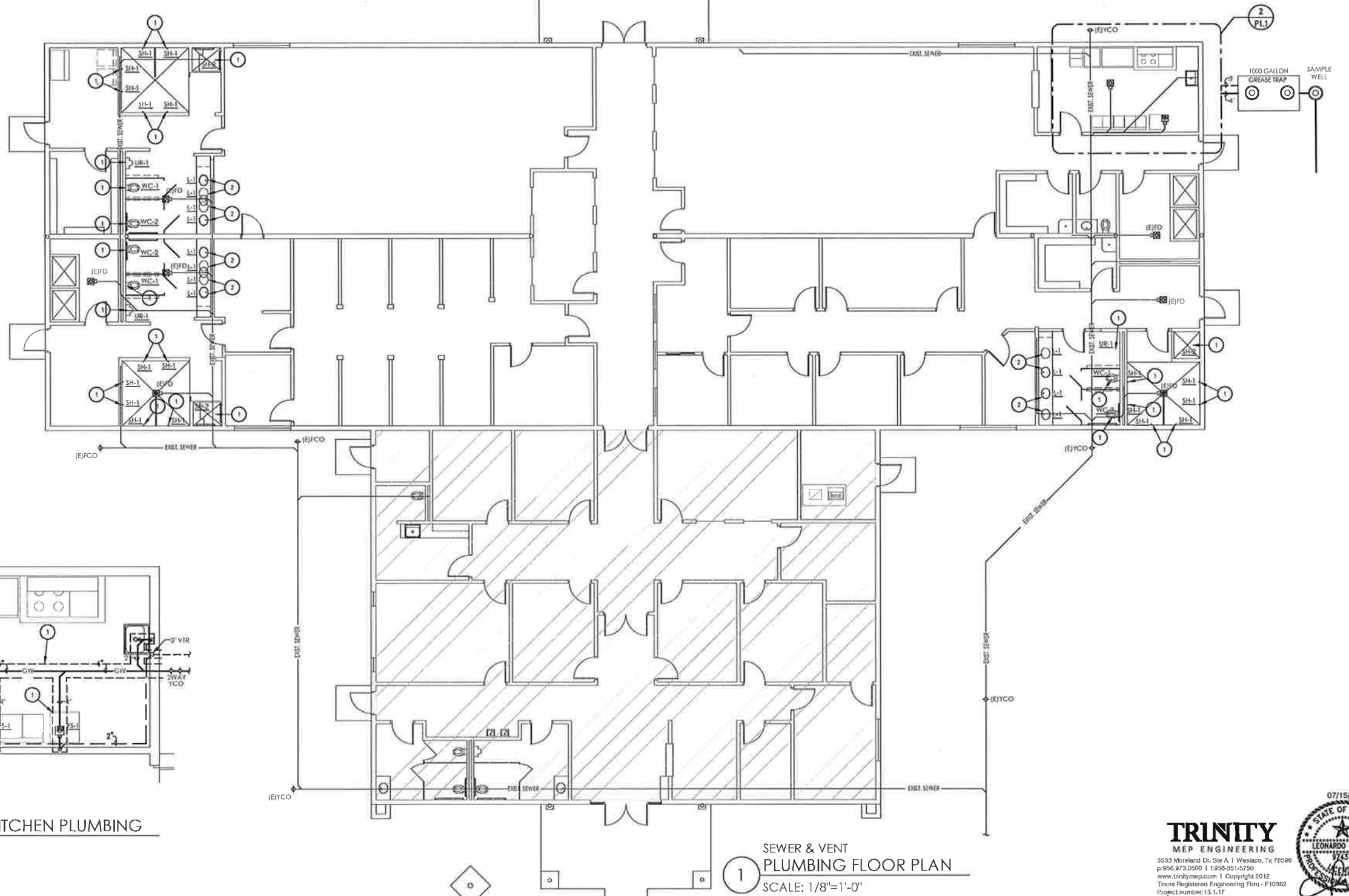


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KEYED NOTES: PLUMBING

- 1 INSTALL NEW FIXTURE CONNECT TO EXISTING SEWER, WATER AND VENT LINES. REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT.
- 2 INSTALL NEW FIXTURE CONNECT TO EXISTING SEWER, WATER AND VENT LINES. PROVIDE NEW P-TRAP AND FLEX CONNECTORS ON LAVATORY. REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT OF LAVATORY.



2 SEWER & VENT ENLARGED KITCHEN PLUMBING SCALE: 1/4"=1'-0"

1 SEWER & VENT PLUMBING FLOOR PLAN SCALE: 1/8"=1'-0"

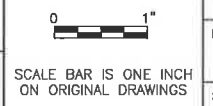
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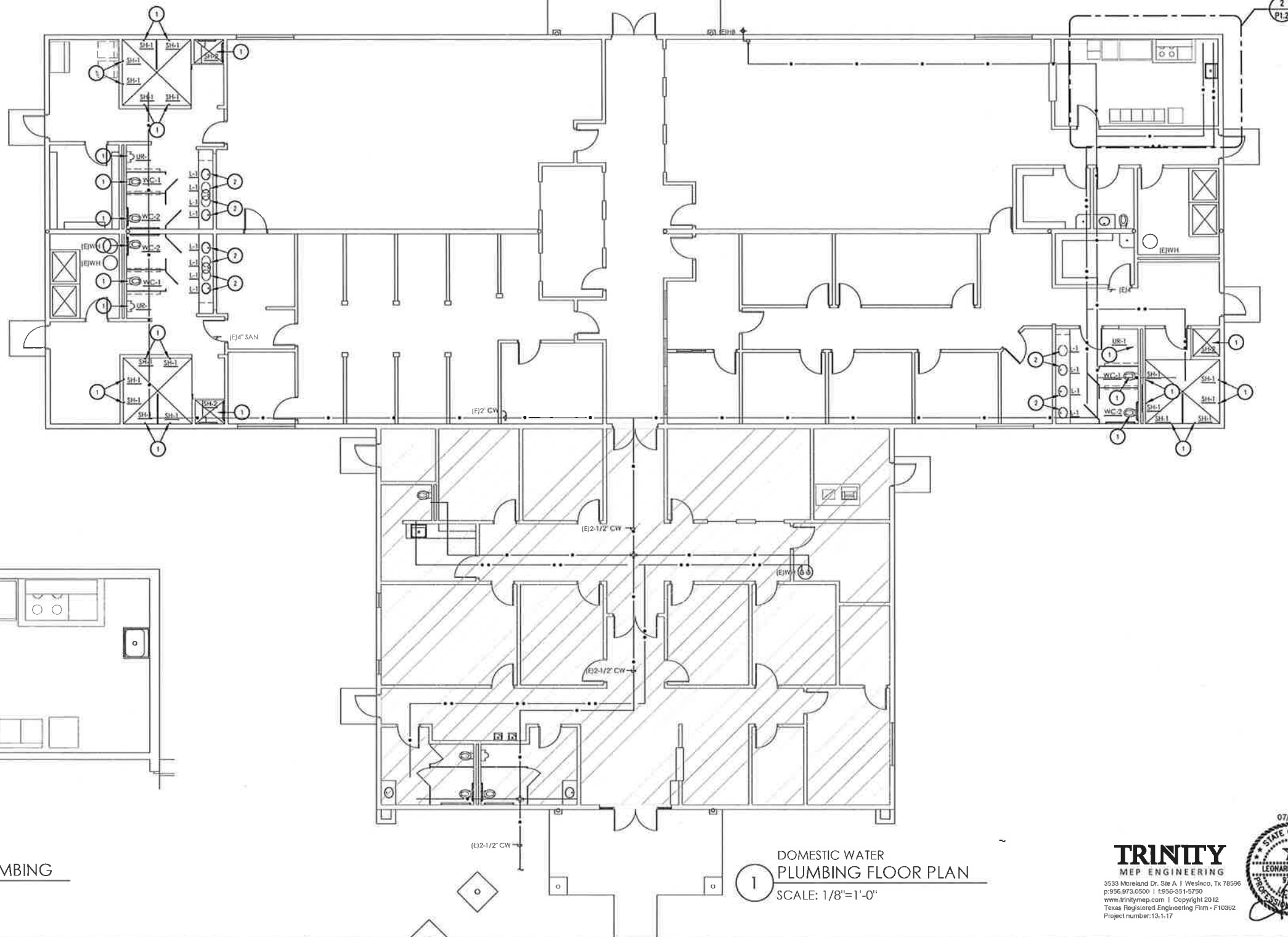
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KEYED NOTES: PLUMBING

- 1 INSTALL NEW FIXTURE CONNECT TO EXISTING SEWER, WATER AND VENT LINES. REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT.
- 2 INSTALL NEW FIXTURE CONNECT TO EXISTING SEWER, WATER AND VENT LINES. PROVIDE NEW P-TRAP AND FLEX CONNECTORS ON LAVATORY. REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT OF LAVATORY.



2 DOMESTIC WATER ENLARGED KITCHEN PLUMBING
 SCALE: 1/4"=1'-0"

1 DOMESTIC WATER PLUMBING FLOOR PLAN
 SCALE: 1/8"=1'-0"

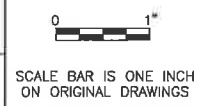
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PLUMBING SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BALL VALVE		DOMESTIC COLD WATER
	CHECK VALVE		DOMESTIC HOT WATER
	GATE VALVE		DOMESTIC HOT WATER RETURN
	UNION		SANITARY SEWER VENT
	DIRECTION OF FLOW		SANITARY WASTE LINE
	WALL CLEANOUT		140° HOT WATER
	FLOOR CLEANOUT		SANITARY DIRECTION OF FLOW
	YARD CLEANOUT		BRANCH - TOP CONNECTION
	FLOOR SINK		PIPE RISER
	FLOOR DRAIN		PIPE DROP
	WALL HYDRANT OR HOSE BIBB		POINT OF CONNECTION (APPROXIMATE FIELD VERIFY EXACT POINT OF CONNECTION)

NOTE: 1. NOT ALL SYMBOLS USED ON THIS PROJECT
 2. INSTALL WATER CLOSET FLUSH VALVE HANDLE TOWARDS WIDER SIDE OF WATER CLOSET OR DOOR OPENING.
 3. INSTALL ADA APPROVED FLUSH VALVE HANDLE FOR ADA PLUMBING FIXTURES.

PLUMBING FIXTURE SCHEDULE						
MARK	FIXTURE TYPE	CONNECTION SIZE				DESCRIPTION
		Supply	Vent	Cold Water	Hot Water	
WC-1	WATER CLOSET FLOOR MOUNTED	4"	2"	1"	-	CRANE "WHIRLION" MODEL NO. 3325, FLOOR MOUNTED WATER CLOSET, WITH ELONGATED RIM, 15" RIM HEIGHT, VITREOUS CHINA, SIPHON JET FLUSH ACTION 10" - 12" ROUGH IN, WITH SLOAN "ROYAL" FLUSH VALVE MODEL NUMBER 111, INCLUDES 1-1/2" TOP SPUD AND 2 BOLT CAPS, WITH OPEN FRONT SEAT LESS COVER, FLUSH LEVER SHALL BE MOUNTED ON APPROACH SIDE OF FIXTURE.
WC-2	WATER CLOSET FLOOR MOUNTED ADULT HANDICAPPED	4"	2"	1"	-	CRANE "HYMONT" MODEL NO. 3H201, FLOOR MOUNTED WATER CLOSET, WITH ELONGATED RIM, 17-1/4" RIM HEIGHT, VITREOUS CHINA, SIPHON JET FLUSH ACTION 10" - 12" ROUGH IN, WITH SLOAN "ROYAL" FLUSH VALVE MODEL NUMBER 111, INCLUDES 1-1/2" TOP SPUD AND 2 BOLT CAPS, WITH "BEIEKE" OPEN FRONT SEAT LESS COVER MODEL 53355, FLUSH LEVER SHALL BE MOUNTED ON APPROACH SIDE OF FIXTURE.
UR-1	URINAL (STANDARD & HANDICAPPED)	2"	2"	3/4"	-	CRANE "MANHATTAN" SIPHON JET WALL HUNG URINAL, VITREOUS CHINA, 1 GPF FLUSH OR LESS, COMPACT DESIGN, WITH INTEGRAL TRAP, 3/4" TOP INLET, 14" LP, INCLUDES WALL HANGERS, 2" IPS OUTLET FLANGE AND RUBBER GASKET, WITH SLOAN "ROYAL" FLUSHMETER VALVE MODEL NO. 186-1, PROVIDE TURN CARRIER SYSTEM MODEL NO. L-1221.
L-1	LAVATORY COUNTER TOP HANDICAPPED	2"	2"	1/2"	1/2"	CRANE "ACCESS PRO" MODEL NO. 1560 SELF-RIMMING OVAL BASIN COUNTERTOP LAVATORY, CONCEALED FRONT OVERTHROW, VITREOUS CHINA, COMPLETE WITH INSTALLATION TEMPLATE, FAUCET HOLES ON 4" CENTERS, PROVIDE FAUCET EQUAL TO KOHLER K-15199-FCF, SINGLE HANDLE, VANDAL RESISTANT, ADA APPROVED, PROVIDE PROTECTIVE COVER ON P-TRAP AND STOPS.
SH-1	BUILT-IN SHOWER	2"	2"	1/2"	1/2"	SHOWER SYSTEM EQUAL TO BRADLEY MODEL NO. WS-1X SHOWER UNIT, INCLUDES FIXED DIRECTION ADJUSTABLE SPRAYHEAD, DIVERTER VALVE, 2.0 GPM FLOW CONTROL, WITH THERMOSTATIC MIXING VALVE.
SH-2	BUILT-IN SHOWER HANDICAPPED	2"	2"	1/2"	1/2"	SHOWER SYSTEM EQUAL TO BRADLEY MODEL NO. WS-1X-HN BARRIER FREE SHOWER UNIT, INCLUDES FIXED DIRECTION ADJUSTABLE SPRAYHEAD, DIVERTER VALVE, HAND-HELD SHOWER SPRAY, 2.0 GPM FLOW CONTROL, WITH THERMOSTATIC MIXING VALVE.

PLUMBING GENERAL NOTES: (ALL SHEETS)

- A. ALL WORK AND MATERIAL SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AS ADAPTED AND AMENDED BY THE INSPECTING AUTHORITIES.
- B. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID CONFLICT WITH ALL ELECTRICAL WORK, MECH. WORK AND STRUCTURAL MEMBERS, COORDINATE WITH MECHANICAL ELEC. AND STRUCTURAL FOR PROPER CLEARANCES, CONTRACTOR SHALL COORDINATE AND ESTABLISH A SEQUENCE OF INSTALLATION WITH OTHER TRADES WORKING ON THE PROJECT.
- C. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASING AND SEQUENCE OF CONSTRUCTION OF WORK.
- D. SLEEVE ALL OUTSIDE WALL, FLOOR SLAB, AND GRADE BEAM PENETRATIONS PER DETAILS AND PER CODE.
- E. LOCATE ALL PLUMBING VENTS TO ROOF (VTR) SO THAT THEY TERMINATE A MINIMUM OF 1'-0" AWAY FROM ANY VERTICAL SURFACE AND 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKES.
- F. RECORD INVERT ELEVATIONS OF ALL YCO'S ON "AS-BUILT" DRAWINGS.
- G. ALL SANITARY SEWER PIPING 4" AND LARGER SHALL BE INSTALLED AT 1/8" PER FT, MINIMUM, ALL SANITARY SEWER PIPING 3" AND SMALLER SHALL BE INSTALLED AT 1/4" PER FT, MINIMUM.
- H. PLUMBING CONTRACTOR SHALL PAY FOR ALL UTILITY CONNECTIONS FEES, PERMITS, TESTS AND INSPECTIONS, FURNISH 3 COPIES OF INSPECTION CERTIFICATE BEFORE REQUESTING FINAL PAYMENT, PLUMBING CONTRACTOR TO BE RESPONSIBLE FOR COORDINATION, VERIFICATION AND CONNECTION OF ALL UTILITIES TO SITE UTILITY SUB-OUTS, REFERENCE ASSOCIATED ARCHITECTURAL, ELECTRICAL, MECHANICAL, STRUCTURAL, KITCHEN AND CIVIL DRAWINGS FOR RELATED INFORMATION.
- I. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHICH ARE DAMAGED BY HIS OPERATIONS.
- J. CUTTING OF CONCRETE FLOORS SHALL BE BY MACHINE SAW, HOLES FOR PIPES (WALL OR FLOOR) SHALL BE DONE WITH CORE DRILLING EQUIPMENT WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEERS.
- K. PRESSURE TEST ALL INSTALLATIONS PRIOR TO CONNECTING EQUIPMENTS.
- L. LABEL ALL PIPING PER ANSI STANDARD.
- M. INSULATE ALL PIPING AS STATED IN SPECIFICATIONS.
- N. INSTALL SHUT-OFF VALVES (STOPS) AND PIPING UNIONS AT EACH PIECE OF EQUIPMENT, PLUMBING FIXTURES, AND BRANCHES TO FIXTURE GROUPS, VALVES SHALL BE LOCATED IN AN ACCESSIBLE LOCATION, OR ACCESS PANELS PROVIDED AS NECESSARY.
- O. PROVIDE ANY BACK FLOW PREVENTION DEVICE REQUIRED BY CODE OR GOVERNING AUTHORITIES, CONTRACTOR SHALL VERIFY THIS WITH CITY OR LOCAL AGENCIES AND INCLUDE COST OF SAME IN BID, CONTRACTOR TO HAVE BACK FLOWS CERTIFIED.
- P. PROVIDE WATER HAMMER ARRESTORS AS INDICATED ON THE DRAWINGS, AIR CHAMBERS NOT AN APPROVED SUBSTITUTE.
- Q. ALL EXPOSED PIPING FOR DESIGNATED DISABLED ACCESS FIXTURES SHALL BE COVERED OR OTHERWISE WRAPPED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND LOCAL AUTHORITY.
- R. ALTERNATE MATERIALS NOT IDENTIFIED IN SPECIFICATIONS/DRAWINGS BUT APPROVED BY LOCAL AUTHORITY SHALL BE SUBMITTED TO ARCHITECT AND PLUMBING ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
- S. ISOMETRIC DIAGRAMS ARE FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS, OR BE CONSTRUED TO INDICATE ACTUAL SITE INSTALLATION.
- T. DRAWING IS SCHEMATIC IN NATURE AND SHOW THE GENERAL LAYOUT OF THE PLUMBING SYSTEM, CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.
- U. EVERY FLOOR DRAIN, FLOOR SINK OR HUB DRAIN SHALL BE SERVED BY AN AUTOMATIC TRAP PRIMER.
- V. MINIMUM 3" WASTE LINE BELOW FLOOR AND MINIMUM 2" WASTE RISER, UNLESS NOTED OTHERWISE (UNO).

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
AC	ABOVE CEILING	GAL	GALLON(S)
AFF	ABOVE FINISHED FLOOR	GALV	GALVANIZED
ASA	AMERICAN STANDARDS ASSOCIATION	GW	GREASE WASTE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	HB	HOSE BIBB
ASIM	AMERICAN SOCIETY FOR TESTING MATERIALS	HP	HORSEPOWER
AW	ACID WASTE	NIC	NOT IN CONTRACT
AWWA	AMERICAN WATER WORKS ASSOCIATION	NTS	NOT TO SCALE
AV	ACID VENT	CC	CN CENTER
BTUH	BRITISH THERMAL UNIT PER HOUR	RD	ROOF DRAIN(S)
CA	COMPRESSED AIR	RE-4/P6	REFER TO DETAIL 4 DRAWING P-6
CI	CAST IRON	RO	REVERSE OSMOSIS
CO	CLEANOUT	SD	STORM DRAIN
CU	COPPER	SPEC	SPECIFICATION
DN	DOWN	TYP	TYPICAL
EQ	EQUAL	UG	UNDERGROUND
FCO	FLOOR CLEANOUT	UL	UNDERWRITERS LABORATORIES
FF	FINISH FLOOR	VTR	VENT THRU ROOF
FG	FINISH GRADE	V	VACUUM
FH	FIRE HYDRANT	W/	WITH
		WCO	WALL CLEAN OUT
		YCO	YARD CLEAN OUT

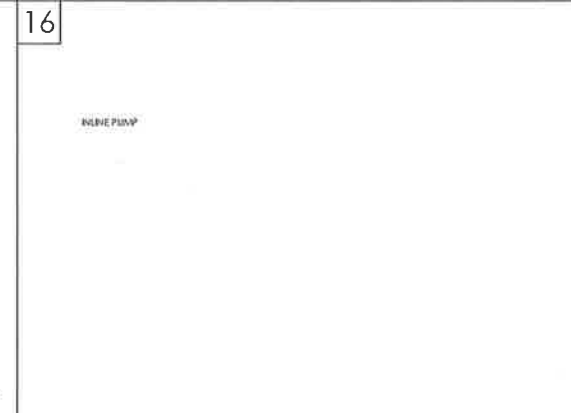
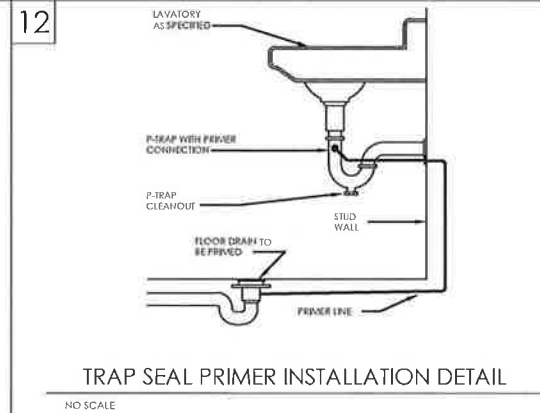
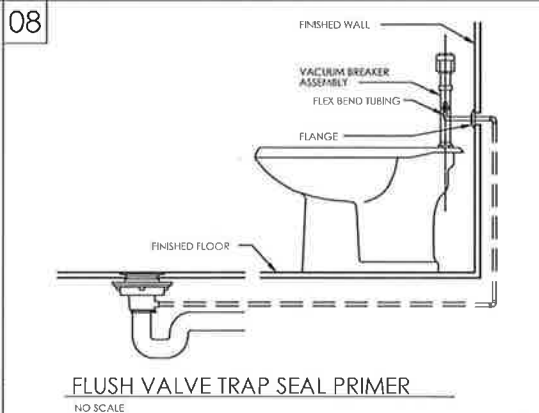
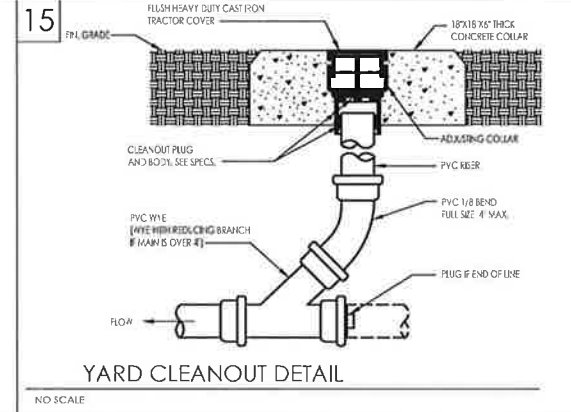
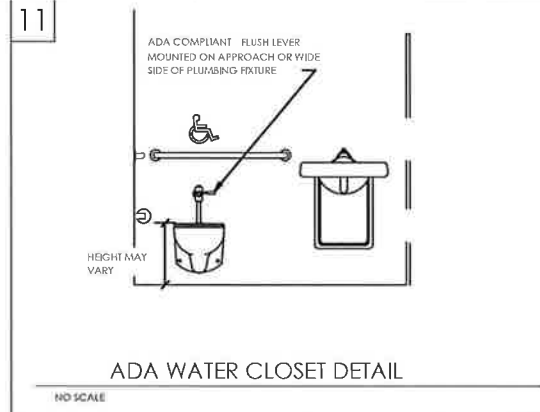
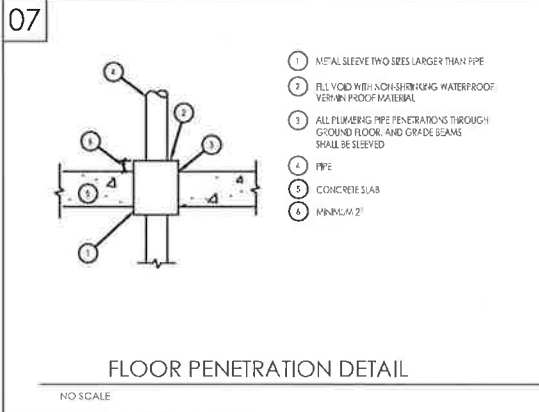
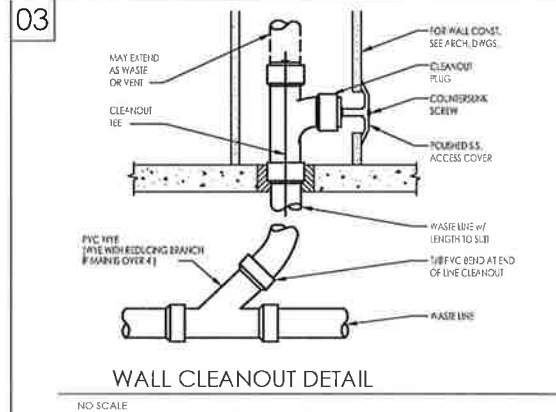
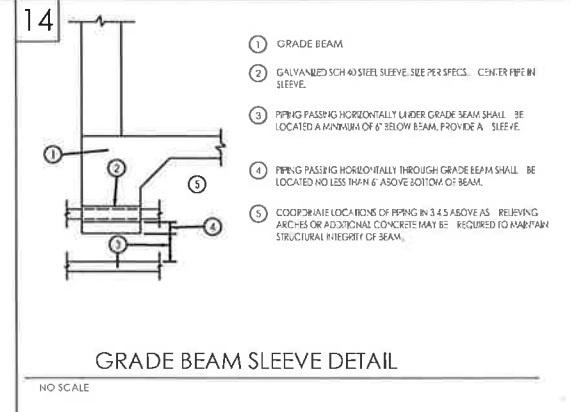
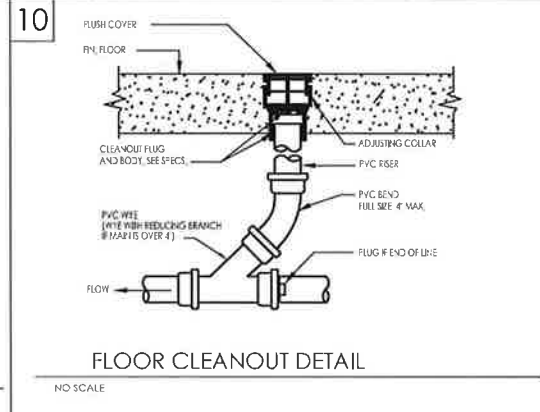
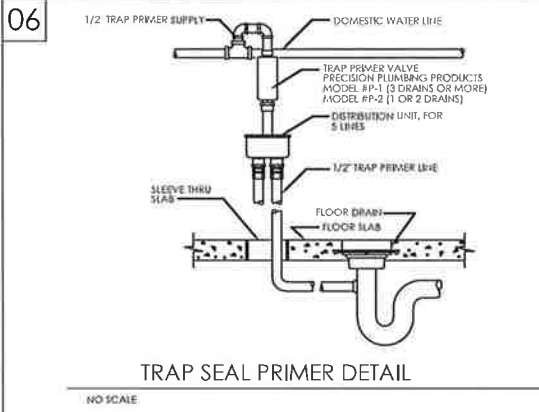
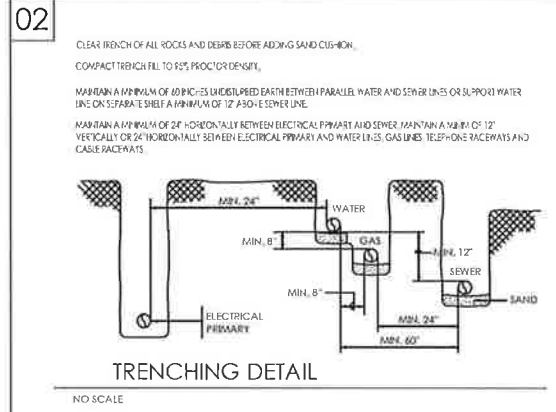
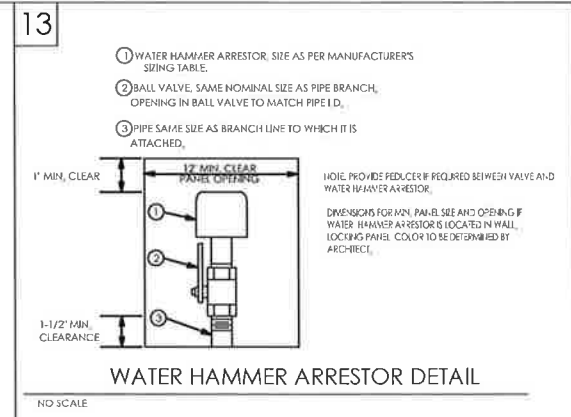
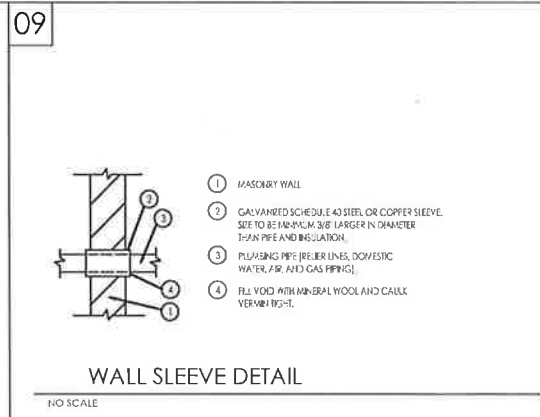
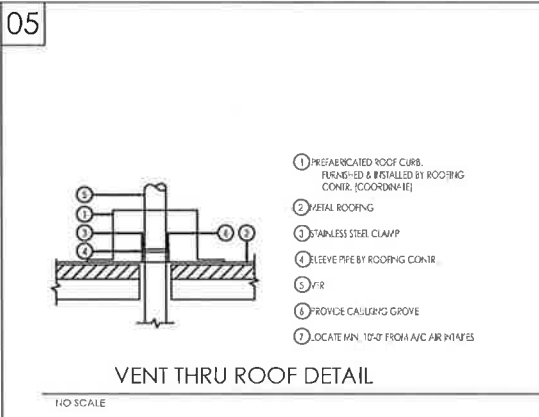
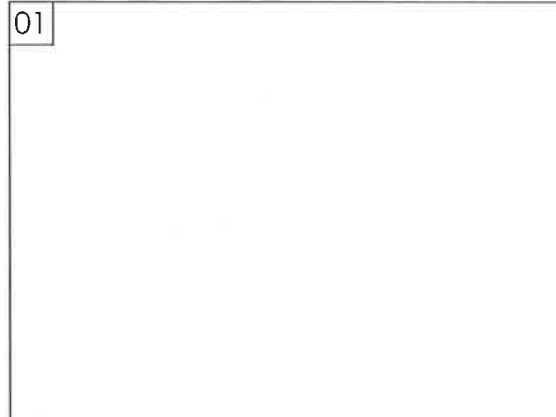
PLUMBING PIPING MATERIAL:

- 1. SANITARY DRAIN & VENT INSIDE BUILDING BELOW GRADE: SCHEDULE 40 PVC
- 2. SANITARY DRAIN OUTSIDE BUILDING: SCHEDULE 40 PVC
- 3. SANITARY DRAIN & VENT INSIDE BUILDING ABOVE GRADE: SCHEDULE 40 PVC
- 4. SANITARY DRAIN & VENT IN PLENUM CELLING: NO-HUB CAST IRON
- 5. DOMESTIC HOT & COLD WATER: COPPER, TYPE "L" HARD DRAWN
- 6. DOMESTIC WATER BELOW GRADE: COPPER, TYPE "K" SOFT ANNEALED

Jul 15, 2013 3:05pm NICK \\diskstation\trinity\2013\13.1.17\DWG\13.1.17 PLUMB.dwg

DESIGNED BY: DRAWN BY: CHECKED BY: APPROVED BY: DATE: JUNE 2013	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO</th> <th>DATE</th> <th>APP</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO	DATE	APP																															<div style="font-size: 24pt; font-weight: bold; margin-bottom: 5px;">DANNENBAUM</div> <div style="font-size: 10pt; margin: 0;"> ENGINEERING COMPANY - McALLEN, LLC T.B.P.E. FIRM REGISTRATION #8999 T.B.A.E. FIRM REGISTRATION #19734 1109 NOLANA LOOP, STE 209 McALLEN, TX 78504 (956) 682-3677 </div>	Hidalgo County Precinct No 4 Restitution Center Remodel Edinburg Texas	 SCALE BAR IS ONE INCH ON ORIGINAL DRAWINGS	PROJECT No: 4525-04 DRAWING No: SHEET No: P2.1
NO	DATE	APP																																				





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DANNENBAUM
ENGINEERING COMPANY - McALLEN, LLC
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FOR REVIEW ONLY. NOT FOR PERMIT OR CONSTRUCTION

Hidalgo County Precinct No 4
Restitution Center Remodel
Edinburg Texas

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www.trinitymep.com | Copyright 2012
Texas Registered Engineering Firm - F10362
Project number: 13.1.17

SCALE BAR IS ONE INCH ON ORIGINAL DRAWINGS

PROJECT No:
4525-04
DRAWING No:
SHEET No:
P3.1