



INVOICE PERIOD: NTP through 07/31/16

INVOICE AMOUNT: \$9,996.31

August 01, 2016

Ms. Maria (LuLu) Lucio
Hidalgo County Precinct No. 4
1102 N. Doolittle Rd.
Edinburg, Texas 78539

**RE: Work Authorization #3 – Geotechnical and/or CMT Engineering Services (#C-15-301-09-15)
Geotechnical Engineering Services for “Sanitation Collection Facility” Project
Hidalgo County PO # 746103 (Dated 06-27-2016)
Invoice No. 11325831**

Dear Ms. Lucio,

Attached for your review and approval is our first and final invoice for services rendered during the invoice period denoted above on the subject referenced project.

The following is attached:

- L&G's Invoice No. 11325831
- Final Waiver & Lien Release
- Invoice Backup CD Attached Containing:
 - ❖ Final Geotechnical Report (Signed & Sealed) (GL16012)

The following is a narrative of the progress for this period.

TASK	
(1) – FC 33001 – Geotech. Explorations & Lab. Testing (Field & Lab)	<u>% Complete = 100%</u>
Updated – L&G has completed the drilling and laboratory testing of all borings for this project. Boring logs have been created and are included in the final report. This task is completed.	
(2) – FC 33002 – Geotech. Engineering Analysis (Engineering)	<u>% Complete = 100%</u>
Updated – L&G has completed the Geotechnical Report for the subject project including all geotechnical analyses in accordance with the approved work authorization. This task is completed.	
(3) – FC 33003 – Geotech. ODE	<u>% Complete = 100%</u>
Updated – L&G has included an invoice backup CD providing the electronic (.pdf) version of the Final Geotechnical Report and will deliver the 1 Original and 2 Copies of the report to the Client. This task is completed.	

Should you have any questions regarding this submittal or would like clarification on any aspect of the project, please do not hesitate to call me at (956) 583-7117.

Respectfully Submitted,



David A. Saenz, P.E., C.F.M.
Project Manager / Project Engineer

L & G Consulting Engineers Inc
2100 W. Expressway 83
Mercedes, TX 78570
(956) 565-9813 Fax (956) 565-9018

INVOICE #: 11325831
INVOICE DATE: 07/31/16

BILL TO: 84

Hidalgo County Pct #4
 c/o Commission Joseph Palacios
 1051 N. Doolittle Rd.
 Edinburg, TX 78541

JOB: 160701

Sanitation Collection Facility
 & M. Road Building.

<u>DESCRIPTION</u>	<u>CONTRACT</u>	<u>PREVIOUS APPLICATIONS</u>	<u>CURRENT COMPLETED</u>	<u>TOTAL COMPLETED</u>	<u>% COMPL</u>	<u>BALANCE TO FINISH</u>
Engineering services for the month of July 2016.						
33001-GeoTech Test	5,769.15		5,769.15 ✓	5,769.15	100.0	
33002-Geotech Anayls	4,137.16		4,137.16 ✓	4,137.16	100.0	
33003-Geotech ODE	90.00		90.00	90.00	100.0	
TOTALS:	9,996.31	0.00	9,996.31	9,996.31	100.0	0.00

ORIGINAL CONTRACT SUM	\$	9,996.31
CHANGE BY CHANGE ORDER	\$	0.00
CONTRACT SUM TO DATE	\$	9,996.31
TOTAL COMPLETED TO DATE	\$	9,996.31
LESS PREVIOUS INVOICES	\$	0.00



PROJECT MANAGER'S SIGNATURE

CURRENT PAYMENT DUE \$ 9,996.31

**AFFIDAVIT AND WAIVER OF LIEN
PRIME CONTRACTOR**

STATE OF Texas

COUNTY OF Hidalgo

Personally appeared before me, the undersigned Notary Public for Marisela G. Marin, Secretary/Treasurer of L&G Consulting Engineers, Inc (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 Engineering Services Contract for the Geotechnical Engineering Services for "Sanitation Collection Facility" Project WA#3 – PO#746103, have been paid in full and that the above named Prime Contractor waives any claims and released Hidalgo County Pct. #4 (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 Hidalgo County Pct#4 and save them harmless on account of any loss he/she may sustain in reliance upon the Affidavit and Waiver of Lien including the amount of any lien he/she may be compelled to pay all costs relating thereto and a reasonable attorney's fee.

(Prime Contractor)

By: Marisela G. Marin

Title: Secretary/Treasurer

Date: 07/31/2016

Sworn to and subscribed before me

this the 31st day of July, 2016

(Seal)



Marie C. Bustamante
Notary Public

My Commission Expires: April 14, 2017



County of Hidalgo Precinct 4
Joseph Palacios Commissioner
1051 N. Doolittle Road
Edinburg Texas 78542-0337

NOTICE TO PROCEED

TO: L&G Consulting Engineers, Inc.
Attn: Jacinto Garza, President
2100 W. Exp. 83
Mercedes, TX 78570

PROJECT NAME: Hidalgo County Precinct No. 4 –Geo Technical Testing for Sanitation Collection Facility and M Road Building

CONTRACT NO.: C-15-301-09-15

PO# : 746103

TOTAL AWARDED PROJECT AMOUNT: \$9,996.31

DATE: July 5, 2016

Gentlemen:

Let this serve as a formal notice to proceed for the scope of services as outlined in Work Authorization No. 3 Construction of Sanitation Collection Facility and M Road Building for Hidalgo County Precinct No. 4 in connection to on call Geo Tech and CMT services.

This Work Authorization No. 4 was approved by Commissioner's Court on May 17, 2016 agenda item #AI-54604.

According to the terms of the contract, the work authorization shall terminate upon completion of the scope of work as identified on Exhibit "C"- Work Schedule. Therefore, you are hereby notified to Commence Work by **July 05, 2016.**

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED is HEREBY ACKNOWLEDGED BY:

Engineer: L&G Consulting Engineers, Inc.

Signature: _____

Name and Title: _____

[Handwritten Signature]
[Handwritten Signature]
[Handwritten Signature]

Requisition

Req # 00301300

PO # 746103

Date: 06/27/16



Bill To: x
x

Vendor: 280046

L & G CONSULTING ENGINEERS, INC.
2100 W. EXPRESSWAY 83
MERCEDES TX 78570
FAX (956) 565-6746

Ship To: HIDALGO CO. PCT 4
1051 N. DOOLITTLE
EDINBURG TX 78542

Contact: NICK PEREZ
956-383-3112

Contract No: C-15-301-09-15

Special Instructions:
PCT#845

QUANTITY	UOM	DESCRIPTION	UNIT PRICE	AMOUNT
1.00	LOT	<p>C-15-301-09-15 EXP. SEPTEMBER 14, 2016 GEOTECHNICAL ENGINEERING SERVICES FOR THE "BUILDING RENOVATION DESIGN & SITE IMPROVEMENTS FOR HIDALGO COUNTY PCT. 4 SANITATION COLLECTION FACILITY & M ROAD BUILDING" PROJECT LOCATED IN HIDALGO COUNTY PRECINCT NO. FOUR. DO NOT DUPLICATE ORDER</p> <p>CC GEOTECHNICAL ENGINEERING SERVICES FOR BUILDING RENOVATION DESIGN/SITE IMPROVEMENTS FOR SANITATION COLLECTION FACILITY & M ROAD BUILDING.</p> <p><u>Account No</u> 6-1100-419-00-124-125-0-452</p>	<p>9,996.31</p> <hr/> <p>Encumbrance</p> <p>9,996.31</p> <p>Freight .00</p> <p>Total 9,996.31</p>	<p>9,996.31</p>

Authorized By: _____

Zimbra

maria.lucio@co.hidalgo.tx.us

RE: Request for Geo Technical Testing at M Road

From : Rick Gil <rgil@lgengineers.com> Wed, Jul 06, 2016 01:18 PM
Subject : RE: Request for Geo Technical Testing at M Road
To : Maria Lucio <maria.lucio@co.hidalgo.tx.us>, Celia Almaguer <calmaguerca@lgengineers.com>
Cc : Trey Murray <tmurray@halff.com>, Jose Ochoa <jose.ochoa@co.hidalgo.tx.us>, steven cruz <steven.cruz@co.hidalgo.tx.us>

Lulu,

I will be sending a technician out this afternoon to stake the locations and do our "One-Call" utility locates. Is there anyone we can contact on the ground that may know if there are any water/sewer/underground power lines may exist?

Does the Project Engineer have a survey where these items might have been collected?

Thanks,

Rick Gil

From: Maria Lucio [mailto:maria.lucio@co.hidalgo.tx.us]
Sent: Tuesday, July 05, 2016 1:38 PM
To: Rick Gil; Celia Almaguer
Cc: Trey Murray; Jose Ochoa; steven cruz
Subject: Request for Geo Technical Testing at M Road
Importance: High

Good Afternoon,

As per your on call contract C-15-301-09-15 (Work Authorization #3 Geotechnical Testing for PCT 4 Sanitation Collection Facility and M Road Building Project), we would like to request the following:

1. Test recommendations for
 - Canopy foundation system
 - Pre-engineered metal building foundation system
 - Paving (concrete and asphalt)

And all test reports.

Please let this email serve as the formal request to begin testing Wednesday, July 6th at **8:00 am**. A representative from the County and Contractor will be there. Should you have any questions or need anything else please let me know. Thank you, have a great day!

Respectfully,

Lulu Lucio, CPM
Executive Assistant
Hidalgo County Precinct #4
Ph: 956- 292-7000 Ext. 4026
Fax:956-381-5905
maria.lucio@co.hidalgo.tx.us

HIDALGO COUNTY
Professional Geotechnical Engineering Services
Agreement #C-15-301-09-15



WORK AUTHORIZATION NO. 3

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 CONSULTING ENGINEERS, INC.** professional engineers of Mercedes, 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 "Building Renovation Design & Site Improvements for Hidalgo County Pct. No. 4 Sanitation Collection Facility and M Road Building" 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 **\$9,996.31**. 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. 3 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. #3.

HIDALGO COUNTY
COMMISSIONER PRECINCT NO. 4:

BY: Joseph Palacios

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on 05/17, 2016 as indicated below and effective as of the 17th day of MAY, 2016.

THE ENGINEER:
L&G CONSULTING ENGINEERS, INC.

THE OWNER:
HIDALGO COUNTY

Jacinto Garza
By: Jacinto Garza, P.E.

Ramon Garcia
Hon. Ramon Garcia, County Judge

ATTEST:

Arturo Guajardo Jr.
Arturo Guajardo Jr., County Clerk



APPROVED BY
COMMISSIONERS' COURT
ON: 5/17/16

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: "Building Renovation Design & Site Improvements for Hidalgo County Pct. No.4 Sanitation Collection Facility and M Road Building" Project in Hidalgo County Precinct No. Four (4)

SERVICES TO BE PROVIDED BY OWNER

The County of Hidalgo will provide L&G Engineering with Documents, Plans, and Specifications for the ***"Building Renovation Design & Site Improvements for Hidalgo County Pct. No. 4 Sanitation Collection Facility and M Road Building"*** Project in Precinct No. 4 Project.

ATTACHMENT B

Services to be Provided by the Laboratory

GENERAL SCOPE OF WORK

The work to be performed by the **Laboratory** under this Work Authorization shall consist of; Geotechnical Drilling and Miscellaneous Field Services, Geotechnical Laboratory Testing Services and Geotechnical Engineering Services for the Sanitation Collection Facility project hereinafter denoted as the **Project**.

The **Laboratory** shall provide all services required (as noted under this Work Authorization) for usage by the **Client** in the preparation of plans, specification and estimate, and related documents for the **Project**. The **Laboratory** shall maintain a direct line of communication and coordinate with the **Client** throughout the project.

The **Laboratory** shall furnish all equipment, materials, supplies, and incidentals as needed to perform the services required, except as otherwise specified to be provided by the **Client**.

Specific activities to be performed by the **Laboratory** include the following:

I. Geotechnical Drilling Services and Miscellaneous Field Services

The **Laboratory** will coordinate with the **Client** for verification of project vicinity map indicating general boring site locations.

The **Laboratory** will provide drilling/excavation and sampling of subsurface materials as follows in accordance with this Work Authorization and in conformance with ASTM guidelines:

- Structural Borings – Two (2) Borings will be drilled at approximate location of proposed canopy structure and storage building (Borings will be advanced to a depth of approximately 25 feet below the existing top of natural ground)

The **Laboratory** will stake the boring locations and provide utility clearances prior to performing the field exploration portion of the project. The **Client** will be responsible to provide any necessary permits or authorization to access areas (right of entry) where borings are to be drilled. All borings will be located in the field by a representative of the **Laboratory**. All boring locations will be documented with GPS coordinates. Field survey and tie-down locations of all borings will be the responsibility of the **Client**.

The borings will be advanced to the specified depth(s) and in-situ soil testing will be performed in general accordance with ASTM and/or TxDOT Standard Test Procedures and Geotechnical Manual (ASTM D1586 – Standard Penetration Testing (SPT) and/or Tex-132-E – Texas Cone Penetration (TCP)). In addition, where applicable, thin-walled Shelby tube samples may be collected (ASTM D1587 – Thin Walled Tube Sampling). The soils will be sampled as needed to verify subsurface materials and strata changes. Final drilling depths and elevations will be based on topographic conditions at the time of drilling operations.

Laboratory: L&G Consulting Engineers, Inc. (Lab Division)
Client: Hidalgo County Pct. 4

All samples will be removed from the sample apparatus during drilling operations. The **Laboratory** 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 natural moisture content and to reduce the possibility of damage during transportation to the soil testing laboratory facility.

Drilling services will include an initial water strike depth and a 24-hour water level reading at each boring location. Following completion of drilling and sampling, all boreholes will be backfilled with soil cuttings from the completed borings. If there is insufficient soil cuttings available, alternate fill will be used to backfill the completed boreholes.

This proposal 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 re-grading 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;
- Encountering hazardous or contaminated soils or substances during our field activities.

The **Laboratory** will notify the **Client** should these services become necessary to complete field exploration activities, and if approved by the **Client**, additional negotiated fee and scope will be incorporated through Supplemental Work Authorization.

II. Geotechnical Laboratory Testing Services

Geotechnical Laboratory Testing will be performed by the **Laboratory** on the samples recovered during the field study to evaluate their physical and engineering properties. Laboratory testing will be performed in general accordance with ASTM and/or TxDOT Standard Test Procedures. Testing shall include the following test procedures:

- (1) Atterberg Limits (ASTM D4318 or Tex-104-E, 105-E, 106-E)
- (2) Gradation (-200) (ASTM D1140 or Tex-111-E)
- (3) Lab. Determination of Moisture in Soils (ASTM D2216 or Tex-103-E)
- (4) Sulfate Content of Soil (ASTM C1580 or Tex-145-E)
- (5) Lime Series Testing – pH Relation (Tex-121-E, Part III)

III. Geotechnical Engineering Services

The **Laboratory** will utilize information gathered from the field and laboratory testing to provide the **Client** with Geotechnical Engineering results and analyses for the **Project**. The findings and conclusions derived from the results and analyses will be presented in a written engineering report and provided to the **Client** (three (3) copies). The report will include a boring location plan, boring logs with laboratory classification of recovered soil samples at the boring locations and

subsurface water conditions encountered. The report will provide analyses and/or engineering recommendations as follows:

- Structural Evaluation of Borings / Calc. of Shear Strength Models / Soil Profiles
- Shallow Foundation Eng. Analysis & Recommendations
- Deep Foundation Eng. Analysis & Recommendations
- Pavement Eng. Analysis & Recommendations

The 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 aspects of this project. This information may serve to guide both geometric modeling and foundation selection and design as well as provide assistance in the preparation of specifications for the project.

ATTACHMENT "C"
Work Schedule

PROJECT: Geotechnical Engineering Services for the "*Building Renovation Design & Site Improvements for Hidalgo County Pct. No. 4 Sanitation Collection Facility and M Road Building*" Project in Hidalgo County Pct. No. 4.

Work Schedule

L&G Engineering will provide **Hidalgo County Pct. # 4** with **Geotechnical Engineering Services** as outlined in **Contract Agreement C-15-301-09-15**.

Attachment D
 Geotechnical Field and Laboratory Services
 Sanitation Collection Facility (Canopy & Storage Building)
 Prepared for Hidalgo County Pct. 4

	SERVICES		UNITS	UNITS	UNIT COST	TOTAL COST
I.	Project Management / Review					
	A. Principal / Project Manager / Review		Hours			
	B. Senior Project Engineer (Staff)		Hours			\$ -
	C. Typing and Clerical (Report)		Hours			
	D. Lodging		Day			
	E. Mileage		Mile			
	F. Air Travel		Trip			
II.	Utility Clearances / Boring Locates					
	A. Technician (Locate Borings)(Util Clr)		Hours	2	\$ 52.88	\$ 105.76
	B. Staff Engineer/Geologist/Scientist		Hours			
	C. Rebar (stakes with impalement covers)		Cost +12.5%			
	D. Vehicle Charge		Mile			
	E. Mileage		Mile	60	\$ 0.55	\$ 33.00
	F. Survey Locate Borings (X,Y,Z)		LS			\$ -
	G. Clear Site for Access (Dozer)		LS			\$ -
III.	Field Exploration					
A	Mobilization/Demobilization		Day	1	\$ 454.91	\$ 454.91
B	Field Exploration					
	1. ASTM Drill & SPT/Tube Sampling (SS)		Feet	50	\$ 32.01	\$ 1,600.50
	2. TxDOT TCP Field Test (BL/ft)		Ea.			\$ -
	3. Field Logger/Eng Tech (Soil & Agg Tech)		Hour	6	\$ 52.88	\$ 317.28
	4. 24 Hr. Water Level Observations		Hour	2	\$ 52.88	\$ 105.76
	5. Piezometers		Each			\$ -
	6. Supp. Vehicle-Trailer, Tools H2O Supply		Mile	60	\$ 1.70	\$ 102.00
	7. Vehicle Charge		Mile	120	\$ 0.55	\$ 66.00
C	Miscellaneous Field Services					
IV.	Engineering Data Analysis / Report					
	1. Staff Engineer		Hours			
	2. Sr. Eng Tech / Geo Eng (Soil Classification)		Hours	1	\$ 99.54	\$ 99.54
	3. Sr. Eng Tech / Geo Eng (Logs & Summ.)		Hours	1	\$ 99.54	\$ 99.54
	4. Moisture Content		Ea.	16	\$ 10.87	\$ 173.92
	5. Atterberg Limits		Ea.	8	\$ 82.05	\$ 656.40
	6. -200 Determination		Ea.	8	\$ 68.46	\$ 547.68
	7. Sieve Analysis (w/ Hydrometers)		Ea.	2	\$ 98.63	\$ 197.26
	8. UC Testing (w/ Unit Weight)		Ea.			\$ -
	9. Consolidation Testing		Ea.			\$ -
	10. Dry Unit Weight		Ea.			\$ -
	11. Soils Sulfate Content		Ea.	2	\$ 86.40	\$ 172.80
	12. Determination of Soil pH		Ea.			\$ -
	13. Lime Series Testing (5 Pt.)		Ea.	2	\$ 518.40	\$ 1,036.80
Project Sub-Total (Geo Field and Lab)						\$ 5,769.15

CONTRACT RATES

GEOTECHNICAL & CONSTRUCTION MATERIALS TESTING SERVICES

Direct Expenses

Geotechnical Field Services

	<u>2015</u>	<u>2016</u>
Mobilization (Drill Rig and Crew)	\$441.66/Day	\$454.91/Day
Stand-By Time	\$194.18/Hr.	\$200.01/Hr
Texas Cone Penetration Test (Tex-132)	\$5.55/Ea.	\$5.72/Ea.
Soil Boring / Solid Stem	\$31.08/Lf	\$32.01/Lf
Soil Boring / Hollow Stem	\$31.08/Lf	\$32.01/Lf
Soil Boring / Mud Rotary	\$31.08/LF	\$32.01/Lf
Mileage (Logger-Soil Tech)	\$.55/Mi.	\$.55/Mi.
Support Truck	\$1.65/Mi.	\$1.70/Mi.
Piezometer / Monitoring Well	By Quote	By Quote

Soil Testing

	<u>2015</u>	<u>2016</u>
Moisture Content Determination - ASTM D2216/Tex-103-E	\$10.55/Ea.	\$10.87/Ea.
Determination of Liquid Limit of Soils - Tex-104-E	\$53.15/Ea.	\$54.74/Ea.
Determination of Plastic Limit of Soils - Tex-105-E	\$53.37/Ea.	\$54.97/Ea.
Atterberg Limits of Soils - ASTM D 4318/Tex-106-E	\$79.66/Ea.	\$82.05/Ea.
Bar Linear Shrinkage of Soils - Tex-107-E	\$66.47/Ea.	\$68.46/Ea.
Particle Size Analysis of Soils (Gradation) - ASTM D 422/Tex-110-E	\$95.76/Ea.	\$98.63/Ea.
Material Finer #200 Sieve - ASTM D 1140/Tex-111-E	\$66.47/Ea.	\$68.46/Ea.
Lime Series Testing (PI Relation) - Tex-112-E	\$477.96/Ea.	\$492.30/Ea.
Lime Series Testing (pH Relation) - Tex-121-E (Part III)	\$518.40/Ea.	\$533.95/Ea.
Moisture-Density Relationship (TxDOT) - Tex-113-E /Tex-114-E	\$212.59/Ea.	\$218.97/Ea.
Standard Proctor - ASTM D 698	\$205.82/Ea.	\$211.99/Ea.
Modified Proctor - ASTM D 1557	\$212.50/Ea.	\$218.88/Ea.
Field Density Test (Nuclear) - ASTM D 6938/Tex-115-E	\$23.91/Ea.	\$24.63/Ea.
Determination of Soil pH - Tex-128-E	\$86.40/Ea.	\$88.99/Ea.
Soil-Lime Testing - Tex-121-E (Part I)	\$159.44/Ea.	\$164.22/Ea.
Resistivity of Soils - Tex-129-E	\$96.65/Ea.	\$99.55/Ea.
Sulfate Content of Soils - Tex-145-E	\$86.40/Ea.	\$88.99/Ea.
Texas Wet Ball Mill (Material Quality) - Tex-116-E	\$232.55/Ea.	\$239.53/Ea.
Triaxial Compression (Dist. Soil & Base) - Tex-117-E	\$350.00/Ea.	\$360.50/Ea.
Unconfined Compression-Soil - ASTM D 2166	\$49.95/Ea.	\$51.45/Ea.
Uniaxial Compression-Rock - ASTM D 7012	\$53.27/Ea.	\$54.87/Ea.
Consolidation Test - ASTM D 2435	\$521.51/Ea.	\$537.16/Ea.

Coarse & Fine Aggregate Quality Testing

	<u>2015</u>	<u>2016</u>
Sieve Analysis (Dry)(4 Sieves) - ASTM C 136/Tex-200-F	\$59.73/Ea.	\$61.52/Ea.
Sieve Analysis (Washed)(4 Sieve) - ASTM C 136/Tex-200-F	\$72.27/Ea.	\$74.44/Ea.
Sieve Analysis (Conc. Aggregate)(5 Sieve) - Tex-401-A	\$85.00/Ea.	\$87.55/Ea.
Sieve Analysis (Additional Sieves) - All Methods	\$13.31/Ea.	\$13.71/Ea.
Deleterious Material (Coarse Aggr.) - Tex-217-F (Part I)	\$46.50/Ea.	\$47.90/Ea.
Deleterious Material (Concrete Aggr.) - Tex-413-A	\$46.50/Ea.	\$47.90/Ea.
Decantation (Coarse Aggr.) - Tex-217-F (Part II)	\$46.50/Ea.	\$47.90/Ea.
Decantation Test (Fine Aggr. - Conc.) - ASTM C 117/Tex-406-A	\$46.50/Ea.	\$47.90/Ea.
Specific Gravity/Absorp. (Conc. Aggr.) - ASTM C127/Tex-403-A	\$72.99/Ea.	\$75.18/Ea.
L.A. Abrasion - ASTM C13/ Tex-410-A	\$564.55/Ea.	\$581.49/Ea.
Soundness (5 Cycle Magnesium Sulfate) - ASTM C 88/Tex-411-A	\$564.55/Ea.	\$581.49/Ea.
SSD Unit Weight of Aggregates - ASTM C29/Tex-404-A	\$66.47/Ea.	\$68.46/Ea.
Percent Voids/Solids in Conc. Aggr. - Tex-405-A	\$13.25/Ea.	\$13.65/Ea.

*(In Conjunction w/ SSD Unit Wt of Aggregates)

CONTRACT RATES

Sand Equivalent - ASTM D 2419/Tex-203-F	\$72.99/Ea	\$75.18/Ea
Specific Gravity / Absorption (Fine Aggr.) - ASTM C 128/Tex -403-A	\$79.67/Ea.	\$82.06/Ea.
Organic Impurities in Fine Aggregate -ASTM C 87/Tex -408-A	\$46.50/Ea.	\$47.90/Ea.
Fineness Modulus of Fine Aggregate - Tex-402-A	\$15.95/Ea.	\$16.43/Ea.
Flat & Elongated Particles (Coarse Aggr.) - Tex-280-F	\$60.00/Ea.	\$61.80/Ea.
Coarse Aggr. Crushed Face (Coarse Aggr.) - Tex-460-A (Part I)	\$80.00/Ea.	\$82.40/Ea.
Acid Insoluble of Fine Aggregate - Tex-612-J	\$86.40/Ea.	\$88.99/Ea.

Pavement Testing (Mix & Roadway) / Asphalt Quality

	<u>2015</u>	<u>2016</u>
Sieve Analysis (Paving Mix Gradation) - Tex-236-F/Tex-200-F	\$90.00/Ea.	\$92.70/Ea.
Asphalt Content - Tex-236-F	\$90.00/Ea.	\$92.70/Ea.
Void in Mineral Aggr. (VMA) - Tex-207-F	\$110.00/Ea.	\$113.30/Ea.
Boil Test (Effect of Water on Paving Mix) - Tex-530-C/Tex-531-C	\$86.40/Ea.	\$88.99/Ea.
Indirect Tensile Strength Test - Tex-226-F	\$600.00/Ea.	\$618.00/Ea.
Moisture Content (Paving Mix) - Tex-212-F (Part II)	\$15.00/Ea.	\$15.45/Ea.
Lab Molded Density - Tex-207-F	\$80.00/Ea.	\$82.40/Ea.
Hamburg Wheel Tracker - Tex-242-F	\$900.00/Ea.	\$927.00/Ea.
Field Coring - ACP Thickness - ASTM D 3549	\$66.47/Ea.	\$68.46/Ea.
Pavement Thickness Det. (Full Depth) - ASTM D 3549	\$88.45/Ea.	\$91.10/Ea.
Density of Cores (4 or 6 inch) (Set of 2) - Tex-207-F	\$73.04/Ea.	\$75.23/Ea.
In-Place Air Voids - Tex-207-F	\$25.00/Ea.	\$25.75/Ea.
Maximum Theoretical SPG (Rice Gravity) - Tex-227-F	\$90.00/Ea.	\$92.70/Ea.
Extraction/Sieve Analysis/Asphalt Content - Tex-210-F/Tex-200-F	\$232.48/Ea.	\$239.45/Ea.
Asphalt Rolling Pattern (Nuclear Method) - Tex-207-F (Part IV)	\$39.86/Ea.	\$41.06/Ea.
Segregation Profile - Tex-207-F (Part V)	\$300.00/Ea.	\$309.00/Ea.
Joint Density - Tex-207-F (Part VII)	\$300.00/Ea.	\$309.00/Ea.
Tack Coat Adhesion - Tex-243-F	\$100.00/Ea.	\$103.00/Ea.
Thermal Profile - Tex-244-F	\$175.00/Ea.	\$180.25/Ea.
Ride Quality - Tex-1001-S	By Quote	By Quote

Pavement Investigation (All Inclusive – QA Verification Field Sample) –

Includes Core Exist. Asphalt for Thick. Perform Caliche Base Thick., Sieve Analysis & P.I., Stabilized Subgrade Thickness & P.I	\$498.08/Ea.	\$513.02/Ea.
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Concrete/Masonry Field & Laboratory Testing

	<u>2015</u>	<u>2016</u>
Temperature Test (Fresh Mix Conc.) - Tex-422-A	No Charge	No Charge
Slump Test - ASTM C 143/Tex-415-A	No Charge	No Charge
Air Content (Pressure Method) - ASTM C 138/Tex-416-A	\$23.86/Ea.	\$24.58/Ea.
Air Content (Volumetric) - ASTM C 173	\$26.56/Ea.	\$27.36/Ea.
Casting of Concrete Cylinders - ASTM C 31/Tex-447-A	No Charge	No Charge
Cylindrical Specimen Prep./Hold/Cure - ASTM C 192/Tex-447-A	\$12.00/Ea.	\$12.36/Ea.
Compressive Strength of Cyl. Specimen - ASTM C 39/Tex-418-A	\$15.92/Ea.	\$16.40/Ea.
Casting of Grout Prisms - ASTM C 1019	No Charge	No Charge
Grout Prism Prep./Cure/Comp. Strength - ASTM C 39	\$33.23/Ea.	\$34.23/Ea.
Casting of Mortar Cubes - ASTM C 780	No Charge	No Charge
Mortar Cube Prep./Cure/Comp. Strength - ASTM C 109	\$32.48/Ea.	\$33.45/Ea.
Masonry Unit Prep. /Comp. Str. (Set of 3) - ASTM C 140	\$232.41/Ea.	\$239.38/Ea.
Masonry Unit SPG/Abs./Unit Wt. (Set of 3) - ASTM C 140	\$232.41/Ea.	\$239.38/Ea.

*(In Conjunction w/ Field Inspection)

CONTRACT RATES

Miscellaneous Testing

	<u>2015</u>	<u>2016</u>
Drilled Shaft Slurry Density - Tex-130-E (Part II)	\$25.00/Ea.	\$25.75/Ea.
Drilled Shaft Slurry Sand Content - Tex-130-E (Part III)	\$20.00/Ea.	\$20.60/Ea.
Drilled Shaft Slurry Viscosity - Tex-130-E (Part IV)	\$25.00/Ea.	\$25.76/Ea.

Engineering Review, Evaluation, Management & Administration

Test Report	\$23.59/Ea.	\$24.30/Ea.
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The specific hourly rate within each classification listed under Labor/Staff Classification depends on the experience, training, and qualifications of the personnel. A two (2) hour minimum billing at the applicable rate will be assessed per visit to project site.

Services provided on Saturday, Sunday and all work in excess of "normal" work hours will be invoiced at an overtime rate 1.5 times the applicable rate for the work performed. The cost of services is based upon the assumption that services will be provided during "normal" working hours. Normal working hours are between 7:00 a.m. and 6:00 p.m., Monday through Friday.

Expenses:

Mileage.....	.55/Mi.	.55/Mi.
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All other project specific, third-party costs will be charged at cost plus 10 percent.

engineering services" under contract # C-14-378-11-18 a (job specific) project: **Advanced Project Development Services for Precinct 4.**
4. Acceptance and Approval to "rescind" action taken by CC under (AI-52054 on 11/24/15) for **Supplemental Agreement No. 1** as submitted by **Dos Logistics, Inc.** for the provisions of "professional engineering services" under contract # C-14-378-11-18 a (job specific) project: **Advanced Project Development Services for Precinct 4.**

APPROVED
5. Acceptance and approval of **Work Authorization No. 3** with an estimated cost of (\$ 9,996.31) as submitted by project engineer, **L&G Engineering for Project: "Geo Technical Engineering"** for: **"Sanitation Collection Facility and "M" Road Building"** for **Hidalgo County Precinct No. 4**, in connection to (on call) **GEO Tech & CMT Services Agreement# C-15-301-09-15.**

6. Acceptance and approval of **Work Authorization No. 1** with an estimated cost of (\$ 49,955.00) as submitted by project engineer, **Half Associates, Inc.** in connection to (on call) **Professional Engineering Services agreement# C-16-188-05-10** for **"Building Repairs, Renovations, Alteration, Additions and/or Other Related Services to County Owned Buildings"** (on an as needed basis) for projects located within **Hidalgo County Precinct Number 4, [Project: "Sanitation Collection Facility and "M" Road Building"]**.

On Item.11.C.3 & 4 , Mrs. Fong identified some typos on the agenda caption.

Mrs. Salazar commented that on Item.11.C.3. the correct date is 11-10-15 NOT 11-24-15

On motion by COMMISSIONER PCT. 1, A.C. CUELLAR, JR., seconded by COMMISSIONER PCT. 2, EDUARDO "EDDIE" CANTU the Court made a UNANIMOUS vote of approval.

Vote: 4 - 0 - Unanimously

On Item.11.C.4. Mrs. Salazar corrected the date stating that it **should be** 3-22-16

On motion by COMMISSIONER PCT. 1, A.C. CUELLAR, JR., seconded by COMMISSIONER PCT. 2, EDUARDO "EDDIE" CANTU the Court made a UNANIMOUS vote of approval.

Vote: 4 - 0 - Unanimously

D. AI-54624 Approval of Payment Application No. 2 in the amount of \$179,646.90 for the Pct. 2 Eldora Road Project submitted by 2GS, LLC through Contract #C-16-061-01-19, and as reviewed by project engineer, Jose N. Saldivar, PE.

