

L&G Consulting Engineers, Inc.

July 25, 2016

Commissioner Joseph Palacios
Attn: Maria "Lulu" Lucio
Hidalgo County Precinct No. 4
1102 N. Doolittle Rd.
Edinburg, TX 78539

RE: Hoehn Subdv. – Water & Sewer Improvements
Contract No. # C-14-330-09-09 - Work Authorization #3
Project No. # E1301501
P.O. # 728310

Dear Ms. Lucio

Attached for your review and approval is our invoice for the services rendered under Work Authorization #3 on the subject referenced project for the month of July.

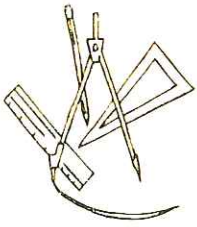
The following is attached:

- L&G's Invoice #16-7-000004
- Test Reports and progress letters as prepared and forwarded to Pct. No. 4 and all parties involved on the project.

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) 565-0760.

Sincerely,

Ricardo A. Gil
General Manager
Laboratory Operations



L&G Consulting Engineers, Inc.

July 25, 2016

Commissioner Joseph Palacios
Attn: Maria "LuLu" Lucio
Hidalgo County, Pct. #4
1102 N. Doolittle Rd.
Edinburg, Texas 78539

RE: Hoehn Subdv. -Water & Sewer Imprvts.

Dear Ms. Lucio:

Included for your use with this letter are test reports **R009 thru R011** for **Construction Material Testing** performed on the above referenced project.

L&G Engineering appreciates the opportunity to serve your material testing needs on this project and we look forward to working with you in the future.

If you have any questions, feel free to contact me at 956-565-0760.

Sincerely,

Ricardo A. Gil
General Manager

Attachments

CC: Vanguard Engineering

PROCTOR TEST REPORT

Project Description: Hoehn Subdv.- Water & Sewer Imprvts.
 Client: Hidalgo County Pct. #4
 Contractor: Vanguard Engineering

L&G Project Number: E1301501
 L&G Report Number: R009
 Sample Date: 07/08/2016
 Date Reported: 07/08/2016

Client PO: 728310

Page 1 of 1

Compaction Method: ASTM D-698
 Material Description: Sand Backfill

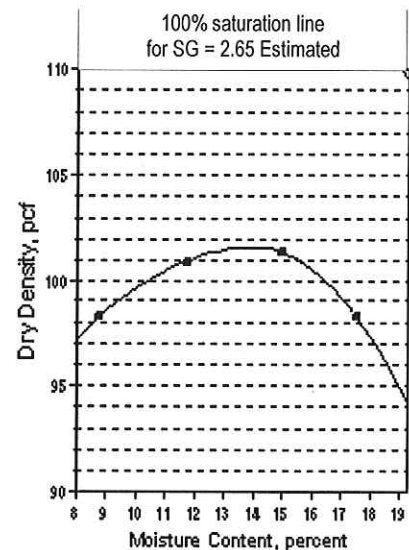
Specific Gravity: 2.65

% Passing No. 200: 10

Group Symbol:

Specimen No.:	1	2	3	4
Moisture, %:	8.8	11.7	15.1	17.6
Dry Density (pcf):	98.30	100.8	101.3	98.10

Maximum Dry Density in P.C.F.: 101.6
 Optimum Moisture (%): 14.0



Remarks: Sampled from stockpile (Jobsite) ** PI non-plastic**
Test Method: ASTM D-698 Method-A

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Vanguard Engineering
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



 Ricardo A. Gil, Lab Manager

Celia Almaguer

From: Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]
Sent: Friday, July 08, 2016 8:51 AM ✓
To: Billy Ortiz
Cc: raul.sesin@hcdd1.org; 'Areanna E. Yzaguirre'; noe.saldivar@hcdd1.org;
jorge.gonzalez@hcdd1.org; maria.lucio@co.hidalgo.tx.us; Celia Almaguer; 'Nora Cavazos';
Rick Gil; roman.rodriguez@co.hidalgo.tx.us
Subject: County of Hidalgo Pct. No. 4 Water & Sewer Improvements Hoehn Subd.

Good Morning Billy ,

2009-2011

Please see below for testing request,

Date of Service Requested: 07/08/2016 Friday

Project Name/Location: County of Hidalgo Pct. No. 4 Water & Sewer Improvements Hoehn Subd.

Texas Dept of Agriculture Contract No.713045

Time of Needed Services: 03:30 PM

Type of Service Requested: Proctor Sample Pickup for Caliche Base
Proctor Sample Pickup for Trench "Sand" Backfill.

Note: Testing Time has already been coordinated with Billy Ortiz

Thank You

Jesse Alvarez
Construction Inspector
Hidalgo County Engineering Projects Office
902 Doolittle Rd.
Edinburg, Texas 78542
956-292-7000 ext. 2029
956-533-3992 Mobile
jose.alvarez@co.hidalgo.tx.us
County of Hidalgo

PROCTOR TEST REPORT

Project Description: Hoehn Subdv.- Water & Sewer Imprvts.
 Client: Hidalgo County Pct. #4
 Contractor: Vanguard Engineering

L&G Project Number: E1301501
 L&G Report Number: R010
 Sample Date: 07/08/2016
 Date Reported: 07/08/2016

Client PO: 728310

Page 1 of 1

Compaction Method: **TEX 113**
 Material Description: **Base Material (Caliche)**

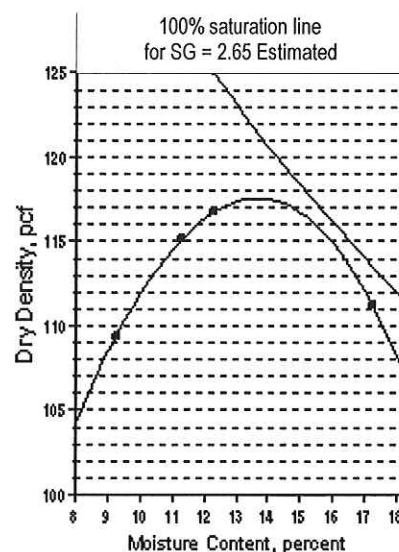
Specific Gravity: 2.65

Liquid Limit: 35
Plastic Limit: 22
Plasticity Index: 13

Group Symbol:

Specimen No.:	1	2	3	4
Moisture, %:	9.3	11.3	12.3	17.3
Dry Density (pcf):	109.6	115.1	116.8	111.0

Maximum Dry Density in P.C.F.: 117.5
 Optimum Moisture (%): 13.7



Remarks: Sampled from stockpile (Jobsite)
Test Method: TEX 113-E, TEX 104-E, TEX 105-E, TEX 106-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
 (Edinburg, TX) Attn: Maria Lucio
 (1-cc copy)
 1-cc Vanguard Engineering
 1-cc Laboratory

Respectfully Submitted,
 L&G Engineering



 Ricardo A. Gil, Lab Manager

Celia Almaguer

From: Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]
Sent: Friday, July 08, 2016 8:51 AM
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Cc: raul.sesin@hcdd1.org; 'Areanna E. Yzaguirre'; noe.saldivar@hcdd1.org; jorge.gonzalez@hcdd1.org; maria.lucio@co.hidalgo.tx.us; Celia Almaguer; 'Nora Cavazos'; Rick Gil; roman.rodriguez@co.hidalgo.tx.us
Subject: County of Hidalgo Pct. No. 4 Water & Sewer Improvements Hoehn Subd.

Good Morning Billy ,

2009-2011

Please see below for testing request,

Date of Service Requested: 07/08/2016 Friday

Project Name/Location: County of Hidalgo Pct. No. 4 Water & Sewer Improvements Hoehn Subd.

Texas Dept of Agriculture Contract No.7130-45

Time of Needed Services: 03:30 PM

Type of Service Requested: Proctor Sample Pickup for Caliche Base
Proctor Sample Pickup for Trench "Sand" Backfill.

Note: Testing Time has already been coordinated with Billy Ortiz

Thank You

Jesse Alvarez
Construction Inspector
Hidalgo County Engineering Projects Office
902 Doolittle Rd.
Edinburg, Texas 78542
956-292-7000 ext. 2029
956-533-3992 Mobile
jose.alvarez@co.hidalgo.tx.us
County of Hidalgo

**SIEVE ANALYSIS
TEST REPORT**

Project Description: Hoehn Subdv.- Water & Sewer Imprvts.
Client: Hidalgo County Pct. #4
Contractor: Vanguard Engineering

L&G Project Number: E1301501
L&G Report Number: R011
Sample Date: 07/08/2016
Date Reported: 07/15/2016

Client PO: 728310

Page 1 of 1

Material: Base Material (Caliche)

<u>Sieve</u>	<u>% Retained</u>	<u>Required</u>
2 in	0	0
1/2 in	31	20-60
No. 4	53	40-75
No. 40	88	70-90

Remarks: Texas Wetball Mill Value- 44.0% (Max 50)
Test Method (As Applicable): TEX 116-E, TEX 110-E

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)
(Edinburg, TX) Attn: Maria Lucio
(1-cc copy)
1-cc Vanguard Engineering
1-cc Laboratory

Respectfully Submitted,
L&G Engineering



Ricardo A. Gil, Lab Manager

Celia Almaguer

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Subject: County of Hidalgo Pct. No. 4 Water & Sewer Improvements Hoehn Subd.

Good Morning Billy ,

2009-2011

Please see below for testing request,

Date of Service Requested: 07/08/2016 Friday

Project Name/Location: County of Hidalgo Pct. No. 4 Water & Sewer Improvements Hoehn Subd.

Texas Dept of Agriculture Contract No.713045

Time of Needed Services: 03:30 PM

Type of Service Requested: Proctor Sample Pickup for Caliche Base
Proctor Sample Pickup for Trench "Sand" Backfill.

Note: Testing Time has already been coordinated with Billy Ortiz

Thank You

*Jesse Alvarez
Construction Inspector
Hidalgo County Engineering Projects Office
902 Doolittle Rd.
Edinburg, Texas 78542
956-292-7000 ext. 2029
956-533-3992 Mobile
jose.alvarez@co.hidalgo.tx.us
County of Hidalgo*

2100 W. Expressway 83
 Mercedes, TX 78570
 Office (956) 565-0760 Fax (956) 565-6746

Client Address: Hidalgo County Pct. #4
 Maria Lucio, Program Manager
 1102 N. Doolittle Rd.
 Edinburg, TX. 78539

Account No.: E130
 Project No: E1301501
 Project Desc.: Hoehn Subdv.- Water & Sewer Imprvts.

Due Date: UPON RECEIPT

Budget/Remaining: \$42,900.53 / \$38,175.08

PO: 728310

===== Invoice Summary by Billing Code =====

	<u>Unit Rate</u>	<u>Qty</u>	<u>Extension</u>
910:91004 - Atterberg Limits Det	\$78.48	2.00	\$156.96
910:91006 - Materials Finer #200	\$65.49	1.00	\$65.49
910:91009 - M-D ASTM D698 (Standard Proctor) (each)	\$202.78	2.00	\$405.56
910:91014 - Sieve Analysis (Dry & 4 Sieve)	\$58.85	1.00	\$58.85
940:94046 - Eng. Tech. (Soils/Lab) (Hr.)	\$47.14	1.00	\$47.14
940:94048 - Eng. Tech. (Soils / SP.)	\$47.14	5.00	\$235.70
940:94054 - Engineering Specialist	\$117.75	0.75	\$88.32
940:94055 - Engineer / P.E.	\$157.08	0.75	\$117.81
950:95058 - Vehicle Trip Charge	\$0.52	66.00	\$34.32
950:95061 - Test Report	\$23.24	3.00	\$69.72
Total for this Invoice:			\$1,279.87

===== Invoice Detail by Report =====

<u>Report No.</u>	<u>Sampled</u>	<u>Qty</u>	<u>Billing Code</u>	<u>Unit Type</u>	<u>Unit Rate</u>	<u>Extension</u>
R009	07/08/2016	1.00	910:91004 - Atterberg Limits Det	Each	\$78.48	\$78.48
R009	07/08/2016	1.00	910:91006 - Materials Finer #200	Each	\$65.49	\$65.49
R009	07/08/2016	1.00	910:91009 - M-D ASTM D698 (Standard Proctor) (each)	Each	\$202.78	\$202.78
R009	07/08/2016	2.50	940:94048 - Eng. Tech. (Soils / SP.)	Hour	\$47.14	\$117.85
R009	07/08/2016	0.25	940:94054 - Engineering Specialist	Hour	\$117.75	\$29.44
R009	07/08/2016	0.25	940:94055 - Engineer / P.E.	Hour	\$157.08	\$39.27
R009	07/08/2016	1.00	950:95061 - Test Report	Each	\$23.24	\$23.24
Report Number R009 for a Subtotal of:						\$556.55

REMIT TO:2100 W. Expressway 83
 Mercedes, TX 78570
 Office (956) 565-0760 Fax (956) 565-6746

Net 30 Days

2100 W. Expressway 83
 Mercedes, TX 78570
 Office (956) 565-0760 Fax (956) 565-6746

===== Invoice Detail by Report =====

<u>Report No.</u>	<u>Sampled</u>	<u>Qty</u>	<u>Billing Code</u>	<u>Unit Type</u>	<u>Unit Rate</u>	<u>Extension</u>
R010	07/08/2016	1.00	910:91004 - Atterberg Limits Det	Each	\$78.48	\$78.48
R010	07/08/2016	1.00	910:91009 - M-D ASTM D698 (Standard Proctor) (each)	Each	\$202.78	\$202.78
R010	07/08/2016	2.50	940:94048 - Eng. Tech. (Soils / SP.)	Hour	\$47.14	\$117.85
R010	07/08/2016	0.25	940:94054 - Engineering Specialist	Hour	\$117.75	\$29.44
R010	07/08/2016	0.25	940:94055 - Engineer / P.E.	Hour	\$157.08	\$39.27
R010	07/08/2016	66.00	950:95058 - Vehicle Trip Charge	Mile	\$0.52	\$34.32
R010	07/08/2016	1.00	950:95061 - Test Report	Each	\$23.24	\$23.24
Report Number R010 for a Subtotal of:						\$525.38
R011	07/08/2016	1.00	910:91014 - Sieve Analysis (Dry & 4 Sieve)	Each	\$58.85	\$58.85
R011	07/08/2016	1.00	940:94046 - Eng. Tech. (Soils/Lab) (Hr.)	Hour	\$47.14	\$47.14
R011	07/08/2016	0.25	940:94054 - Engineering Specialist	Hour	\$117.75	\$29.44
R011	07/08/2016	0.25	940:94055 - Engineer / P.E.	Hour	\$157.08	\$39.27
R011	07/08/2016	1.00	950:95061 - Test Report	Each	\$23.24	\$23.24
Report Number R011 for a Subtotal of:						\$197.94
Total for this Invoice:						\$1,279.87

REMIT TO: 2100 W. Expressway 83
 Mercedes, TX 78570
 Office (956) 565-0760 Fax (956) 565-6746

Net 30 Days

PAST DUE BALANCES SUBJECT TO 1.5% SERVICE CHARGE PER MONTH
 PLEASE REFERENCE INVOICE NUMBER WITH PAYMENT

Exhibit A

L & G Engineering

Consulting Engineers

EXHIBIT "C" L&G ENGINEERING CONSTRUCTION MATERIALS TESTING LABORATORY RATES FOR FY 2014-2015

Soils Testing

		FY 2014	FY 2015
Moisture Content Determination	ASTM D2216 - Tex-103-E	\$10.40/Ea.	\$10.55/Ea.
Determination of Liquid Limit of Soils	Tex-104-E	\$52.37/Ea.	\$53.15/Ea.
Determination of Plastic Limit of Soils	Tex-105-E	\$52.58/Ea.	\$53.37/Ea.
Atterberg Limits of Soils	ASTM D 4318 - Tex-106-E	\$78.48/Ea.	\$79.66/Ea.
Bar Linear Shrinkage of Soils	Tex-107-E	\$65.49/Ea.	\$66.47/Ea.
Material Finer #200 Sieve	ASTM D 1140 -Tex-111-E	\$65.49/Ea.	\$66.47/Ea.
Lime Series Testing	Tex-112-E	\$529.04/Ea.	\$536.97/Ea.
Moisture-Density Relationship (TxDOT)	Tex-113-E / Tex-114-E	\$209.45/Ea.	\$212.59/Ea.
Standard Proctor	ASTM D 698	\$202.78/Ea.	\$205.82/Ea.
Modified Proctor	ASTM D 1557	\$209.36/Ea.	\$212.50/Ea.
Field Density Test (Nuclear)	ASTM D 2922 - Tex-115-E	\$23.56/Ea.	\$23.91/Ea.
Determination of Soil pH	Tex-128-E	\$85.12/Ea.	\$86.40/Ea.
Soil-Lime Testing	Tex-121-E	\$157.08/Ea.	\$159.44/Ea.
Resistivity of Soils	Tex-129-E	\$95.22/Ea.	\$96.65/Ea.
Sieve Analysis (Dry)(4 Sieves)	ASTM C 136 - Tex-110-E	\$58.85/Ea.	\$59.73/Ea.
Sieve Analysis (Washed)(4 Sieve)	ASTM C 136 - Tex-110-E	\$71.20/Ea.	\$72.27/Ea.
Sieve Analysis (Additional Sieves)	ASTM C 136 - Tex-110-E	\$13.11/Ea.	\$13.31/Ea.
Texas Wet Ball Mill (Basic Material Quality)	Tex-116-E	\$229.11/Ea.	\$232.55/Ea.

Coarse & Fine Aggregate Quality Testing

Decantation Test (Conc. Aggr.)	ASTM C117 - Tex-406-A	\$45.81/Ea.	\$46.50/Ea.
Specific Gravity/Absorp. (Conc. Aggr)	ASTM C127 - Tex-403-A	\$71.91/Ea.	\$72.99/Ea.
5 Cycle Magnesium Soundness	ASTM C88 - Tex-411-A	\$556.21/Ea.	\$564.55/Ea.
SSD Unit Weight of Aggregates	ASTM C29 - Tex-404-A	\$65.49/Ea.	\$66.47/Ea.
Percent Voids/Solids in Conc. Aggr.	Tex-405-A	\$13.05/Ea.	\$13.25/Ea.
*(In Conjunction w/ SSD Unit Wt of Aggregates)			
Sand Equivalent	ASTM D 2419 - Tex-203-F	\$71.91/Ea.	\$72.99/Ea.
Specific Gravity / Absorption (Fine Aggr.)	ASTM C 128 - Tex -403-A	\$78.49/Ea.	\$79.67/Ea.
Organic Impurities in Fine Aggregate	ASTM C 87 - Tex -408-A	\$45.81/Ea.	\$46.50/Ea.
Fineness Modulus of Fine Aggregate	Tex-402-A	\$15.71/Ea.	\$15.95/Ea.
Acid Insoluble of Fine Aggregate	Tex-612-J	\$85.12/Ea.	\$86.40/Ea.

Concrete/Masonry Field & Laboratory Testing

Slump Test	ASTM C 143 - Tex-415-A	\$no charge	\$no charge
Air Content (Pressure Method)	ASTM C 138 - Tex-416-A	\$23.51/Ea.	\$23.86/Ea.
Air Content (Volumetric)	ASTM C 173	\$26.17/Ea.	\$26.56/Ea.
Casting of Concrete Cylinders	ASTM C 31	\$no charge	
Compressive Strength of Cyl. Specimen	ASTM C 39 - Tex-418-A	\$15.68/Ea.	\$15.92/Ea.
Cylindrical Specimen Prep./Hold/Cure	ASTM C 192	\$11.83/Ea.	\$12.00/Ea.
Casting of Grout Prisms	ASTM C 1019	\$no charge	
Grout Prism Prep./Cure/Compressive Strength	ASTM C 39	\$32.74/Ea.	\$33.23/Ea.
Casting of Mortar Cubes	ASTM C 780	\$no charge	
Mortar Cube Prep./Cure/Compressive Strength	ASTM C 109	\$32.00/Ea.	\$32.48/Ea.
Masonry Unit Prep. /Compressive Str. (Set of 3)	ASTM C 140	\$228.98/Ea.	\$232.41/Ea.
Masonry Unit SPG/Abs./Unit Wt. (Set of 3)	ASTM C 140	\$228.98/Ea.	\$232.41/Ea.

*(In Conjunction w/ Field Inspection)

L&G Engineering
Hidalgo County Pct. #4

Exhibit "C"
Page 1 of 2

<u>Pavement Thickness / Asphalt Quality</u>		FY 2014	FY 2015
Coring – ACP Thickness	ASTM D 3549	\$65.49/Ea.	\$66.47/Ea.
Pavement Thickness Determination (Full Depth)	ASTM	\$87.14/Ea.	\$88.45/Ea.
Density of Asphaltic Cores (4 or 6 inch)	Tex-207-F	\$71.96/Ea.	\$73.04/Ea.
Extraction/Sieve Analysis/Asphalt Content	Tex-210-F / Tex-200-F	\$229.04/Ea.	\$232.48/Ea.
Asphalt Rolling Pattern (Nuclear Method)	Tex-207-F – Part IV	\$39.27/Ea.	\$39.86/Ea.
Eff. Of Water on Asphalt Mixtures (As Rec'd)	Tex-531-C	\$85.12/Ea.	\$86.40/Ea.

<u>Pavement Investigation</u>		FY 2014	FY 2015
Core Existing Asphalt for Thickness, Perform Caliche Base Thickness, Sieve Analysis and Plasticity Index, Stabilized Subgrade Thickness and Plasticity Index		\$490.72/Ea.	\$498.08/Ea.

L&G Engineering provides Technical and Engineering services at the rates listed below.

<u>Personnel:</u>			
Engineer (Principal).....		\$157.08/Hr.	\$159.44/Hr.
Engineering Specialist.....		\$117.75/Hr.	\$119.52/Hr.
Technician (Soils).....		\$ 47.14/Hr.	\$47.85/Hr.
Technician (Concrete).....		\$ 60.18/Hr.	\$61.08/Hr.
Technician (Asphalt).....		\$ 60.18/Hr.	\$61.08/Hr.

<u>Engineering Review, Evaluation, Management & Administration</u>		FY 2014	FY 2015
Test Report.....		\$ 23.24/Ea.	\$23.59/Ea.

The specific hourly rate within each classification listed above 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.

<u>Expenses:</u>			
Mileage.....		.52/Mi.	.53/Mi.

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

Invoices will be submitted monthly for work in progress in our standard format. They are due and payable upon receipt and become due 30 days after the billing date. Past due invoices may be subject to late charges at the rate of 1 ½ percent per month (18 percent per annum). In the event that the State of Texas legislates a sales tax on Professional Services, the amount of the tax will be added to the appropriate service rate charged. Our invoices are due and payable upon receipt at 2100 W. Expressway 83, Mercedes, Texas 78570.

^^Fees adjusted approximately 1.5% annually.

L & G Engineering

Consulting Engineers

Attachment "D"
L&G Engineering
Hoehn Subdivision Sanitary Sewer Improvements
Prepared for Hidalgo County Precinct No. 4

In-Situ Soils Testing-Laboratory-Sanitary Sewer & Force Main					
Standard Proctor	5	Ea.	\$202.78	\$1,013.90	<i>In Situ Subgrade Moisture-Density Testing on the following: Trenches for 8" and 12" Sanitary Sewer 8" Force Main</i>
Atterberg Limits of Soils	5	Ea.	\$78.48	\$392.40	
Material Finer #200	5	Ea.	\$65.49	\$327.45	
Test Report	5	Ea.	\$23.24	\$116.20	
Technician (Soils)	15	Hr.	\$47.14	\$707.10	
Mileage (Trip Charge)	400	Mi.	\$0.52	\$208.00	
Subtotal:				\$2,765.05	
In-Situ Soils Testing-Field -Sanitary Sewer and Force Main					
Field Density Test	450	Ea.	\$23.56	\$10,602.00	<i>Trench Backfill Field Density Testing on the Following: 8" and 12" Sanitary Sewer and 8" Force Main one test per 250 L.F. per each 12" Layer Total 16,000 L.F. x avg. 7' cover</i>
Test Report	60	Ea.	\$23.24	\$1,394.40	
Technician (Soils)	150	Hr.	\$47.14	\$7,071.00	
Mileage (Trip Charge)	4800	Mi.	\$0.52	\$2,496.00	
Subtotal:				\$21,563.40	
Treated Backfill Sand Testing-Laboratory					
Standard Proctor	2	Ea.	\$202.78	\$405.56	<i>Quantity Based On 2 visits to obtain samples for laboratory testing</i>
Atterberg Limits of Soils	2	Ea.	\$78.48	\$156.96	
Test Report	2	Ea.	\$23.24	\$46.48	
Technician (Soils)	3	Hr.	\$47.14	\$141.42	
Mileage (Trip Charge)	160	Mi.	\$0.52	\$83.20	
Subtotal:				\$833.62	
Treated Backfill Sand Soils Testing-Field					
Field Density Test	40	Ea.	\$23.56	\$942.40	<i>Quantity Based On 10 site visits to perform compaction testing</i>
Test Report	10	Ea.	\$23.24	\$232.40	
Technician (Soils)	25	Hr.	\$47.14	\$1,178.50	
Mileage (Trip Charge)	800	Mi.	\$0.52	\$416.00	
Subtotal:				\$2,769.30	
Flexible Base (Caliche) Pavement Repair Areas -Testing-Laboratory					
Standard Proctor	1	Ea.	\$202.78	\$202.78	<i>Quantity based on 1 site visit to obtain sample for laboratory testing</i>
Atterberg Limits of Soils	1	Ea.	\$78.48	\$78.48	
Sieve Analysis (Dry)(4 Sieve)	1	Ea.	\$58.85	\$58.85	
Texas Wet Ball Mill	1	Ea.	\$229.11	\$229.11	
Technician (Soils)	4	Hr.	\$47.14	\$188.56	
Test Report	2	Ea.	\$23.24	\$46.48	
Mileage (Trip Charge)	84	Mi.	\$0.52	\$43.68	
Subtotal:				\$847.94	
Flexible Base (Caliche) Pavement Repair Areas-Field Testing and Monitoring					
Field Density Test	40	Ea.	\$23.56	\$942.40	<i>Quantities based on ten (10) visits to perform in-place testing</i>
Test Report	10	Ea.	\$23.24	\$232.40	
Technician (Soils)	25	Hr.	\$47.14	\$1,178.50	
Mileage (Trip Charge)	800	Mi.	\$0.52	\$416.00	
Subtotal:				\$2,769.30	
Hot Mix Asphalt Paving-Pavement Repair Areas					
Ext. Sieve Analysis/Asph Content	2	Ea.	\$229.04	\$458.08	<i>Quantities based on site visits to perform testing</i>
Density of Asphaltic Cores	3	Ea.	\$71.96	\$215.88	
Asphalt Rolling Patterns	10	Ea.	\$39.27	\$392.70	
Coring/ACP Thickness	16	Ea.	\$65.49	\$1,047.84	
Technician (Asphalt)	16	Hr.	\$60.18	\$962.88	
Mileage (Trip Charge)	300	Mi.	\$0.52	\$156.00	
Test Report	8	Ea.	\$23.24	\$185.92	
Subtotal:				\$3,419.30	

Concrete Placement - Lift Station					
Air Content(Pressure Method)	2	Ea.	\$23.51	\$47.02	<i>Assuming 2 Placements on Lift Station Slab</i>
Test Report	2	Ea.	\$23.24	\$46.48	
Technician (Concrete)	6	Hr.	\$60.18	\$361.08	
Mileage (Trip Charge)	200	Mi.	\$0.52	\$104.00	
			Subtotal:	<u>\$558.58</u>	
Cyl. Spec. Prep, Hold, Cure	8	Ea.	\$11.83	\$94.64	<i>Quantities based on sample pickup and delivery to laboratory for Compression Testing</i>
Comp. Str. Of Cyl. Specimen	8	Ea.	\$15.68	\$125.44	
Test Reports (7 and 28 day)	4	Ea.	\$23.24	\$92.96	
Technician (Concrete)	6	Hr.	\$60.18	\$361.08	
Mileage (Trip Charge)	200	Mi.	\$0.52	\$104.00	
			Subtotal:	<u>\$778.12</u>	

Estimated Field and Laboratory Test Fees				\$36,304.61
Engineering Specialist (Report Review)(Hr.)	24		\$117.75	\$2,826.00
Engineer-Principal (Report Review)(Hr.)	24		\$157.08	\$3,769.92
Estimated Materials Testing Total				<u>\$42,900.53</u>



Purchase Order COUNTY OF HIDALGO

PO# 728310

DATE: 07/08/15

PAGE NO: 1 Of 1

PO TYPE:

VENDOR: 280946

REQ: 00279604

PHONE: (956) 565-9013

Fax: (956) 565-6746

EMAIL:

SHIP TO: HIDALGO CO. PCT 4

1051 N. DOOLITTLE

EDINBURG TX 78542

L & G CONSULTING ENGINEERS, INC.
2100 W. EXPRESSWAY 83
MERCEDAS TX 78570

CONTACT:

SITE: COMMISSIONER, PRECINCT 4

CONTRACT NO:

SPECIAL INSTRUCTIONS: Pct. # 728

VENDOR NOTES:

1. Do not add to, or alter this Purchase Order. This Order is not renewable.
2. TAX EXEMPTION: This Purchase Order may be accepted in lieu of Exemption Certificate.
3. This Order is also placed F.O.B. Destination. Vendor must repay all shipping costs.
4. Invoice each Purchase Order singly. Original invoices are required customer copy may be accepted. Out-junkies must appear on all invoices, bills of lading, and packages.
5. Payment will be made only for bona fide and full completed orders, unless otherwise attached.

QTY	UOM	DESCRIPTION	UNIT PRICE	AMOUNT
		DO NOT DUPLICATE ORDER		
		C-14-330-09-09 EXP 9-08-15 Approved CC 06/23/15 AI-50218, Consent AI- 50241, Regular		
1.00	LOT	CC WA # 3- Construction Materials Testing Services for the "Hoahn Subdv." Project in Hidalgo County Precinct No. Four (4)	42,900.53	42,900.53
		TOTAL:		42,900.53
		***** For Hidalgo County use only 5-1200-431-00-124-159-0-041	42,900.53	

Authorized by:

Martha Salazar