

L&G Consulting Engineers, Inc.

October 26, 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 October.

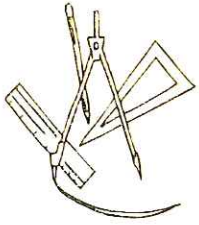
The following is attached:

- L&G's Invoice #16-10-000005
- 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.

October 26, 2016

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

RE: Hoehn Subdv.

Dear Ms. Lucio:

Included for your use with this letter, are test reports **R012 & R013** for **Construction Material Testing** performed on the above referenced project. As noted on test report **R012**, this location failed to meet requirements. This location was re-tested and meets or exceeds requirements.

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

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 / \$37,836.71
 PO: 728310

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

| | <u>Unit Rate</u> | <u>Qty</u> | <u>Extension</u> |
|--|------------------|------------|------------------|
| 910:91011 - Field Density (Nuclear Method) | \$23.56 | 3.00 | \$70.68 |
| 940:94048 - Eng. Tech. (Soils / SP.) | \$47.14 | 3.00 | \$141.42 |
| 940:94054 - Engineering Specialist | \$117.75 | 0.25 | \$29.44 |
| 940:94055 - Engineer / P.E. | \$157.08 | 0.25 | \$39.27 |
| 950:95058 - Vehicle Trip Charge | \$0.52 | 66.00 | \$34.32 |
| 950:95061 - Test Report | \$23.24 | 1.00 | \$23.24 |
| | | | <hr/> <hr/> |
| Total for this Invoice: | | | \$338.37 |

===== 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> |
|-------------------|----------------|------------|--|------------------|------------------|--|
| R013 | 10/06/2016 | 3.00 | 910:91011 - Field Density (Nuclear Method) | Each | \$23.56 | \$70.68 |
| R013 | 10/06/2016 | 3.00 | 940:94048 - Eng. Tech. (Soils / SP.) | Hour | \$47.14 | \$141.42 |
| R013 | 10/06/2016 | 0.25 | 940:94054 - Engineering Specialist | Hour | \$117.75 | \$29.44 |
| R013 | 10/06/2016 | 0.25 | 940:94055 - Engineer / P.E. | Hour | \$157.08 | \$39.27 |
| R013 | 10/06/2016 | 66.00 | 950:95058 - Vehicle Trip Charge | Mile | \$0.52 | \$34.32 |
| R013 | 10/06/2016 | 1.00 | 950:95061 - Test Report | Each | \$23.24 | \$23.24 |
| | | | | | | <hr/> <hr/> |
| | | | | | | Report Number R013 for a Subtotal of: \$338.37 |
| | | | | | | <hr/> <hr/> |
| | | | | | | Total for this Invoice: \$338.37 |

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

Net 30 Days

FIELD DENSITIES 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: R012
 Sample Date: 09/21/2016
 Date Reported: 09/21/2016

Client PO: 728310

Page 1 of 1

| | | | |
|-----------------------------|-------------------|---------------------------|----------------------------|
| Material Description | Caliche (Base) | | |
| Required % Proctor | 98 | Moisture Tolerance | -2+3 |
| | Proctor No | Optimum % Moisture | Opt. Density, LB/CF |
| | BASE MD5 | 13.7 | 117.5 |

| Test No. | Test Location | Proctor No | Moisture Content | Dry Density | Percent Compaction | Depth (inch) |
|----------|--|------------|------------------|-------------|--------------------|--------------|
| 1 | Intersection of Crimson & Lilac, 40 ft. E. of Crimson on C.L. | BASE MD5 | 13.4% | 113.8 pcf | 96.9% (Fail) | |

Remarks: Test results failed to meet requirements.
 Test Methods: ASTM D2922, D3017

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

Billy Ortiz

From: Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]
Sent: Wednesday, September 21, 2016 11:29 AM
To: Billy Ortiz
Cc: Raul Sestin; Eliza Yzaguirre; Noe Saldivar; jorge.gonzalez@hcdd1.org; Nora Cavazos; Maria "Lulu" Lucio; Rick Gil
Subject: Hoehn Subdivision Sanitary Sewer Improvements

Good Morning Billy,

Send email request as follows:

Please see below for testing request,

Date of Service Requested: 09-21-16 Wednesday

ROL2

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: 01:30PM

Type of Service Requested: Back- Fill Compaction Densities for Sanitary Sewer Crossings

Note: Testing Time has already been coordinated with Billy Ortiz

Thank You

Jesse Alvarez
Construction Inspector
County of Hidalgo Engineering Projects Office
902 Doolittle Rd.
Edinburg , Texas 78542
Office : 956-702-7000 ext 2029
Mobile:956-533-3992

Sent from my iPhone

FIELD DENSITIES 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: R013
Sample Date: 10/06/2016
Date Reported: 10/06/2016

Client PO: 728310

Page 1 of 2

| Specification No. | Specification Required | Moisture Tolerance | |
|-------------------|------------------------|--------------------|---------|
| | % Proctor | Minimum | Maximum |
| 1 | 95 | 12.0 | 17.0 |
| 2 | 98 | 11.7 | 16.7 |

| Proctor No | Optimum % Moisture | Opt. Density, LB/CF |
|------------|--------------------|---------------------|
| BASE MD5 | 13.7 | 117.5 |
| SAND MD4 | 14.0 | 101.6 |

Material Description Sand

| Test No. | Test Location | Proctor No | Spec. No. | Moisture Content | Dry Density | Percent Compaction | Depth (inch) |
|----------|--|------------|-----------|------------------|-------------|--------------------|--------------|
| 3 | 4" Sanitary Service Sewer Crimson Rd. Sta. 3+20 Final Lift | SAND MD4 | 1 | 12.4% | 99.9 pcf | 98.3% (Pass) | 8" |

Material Description Caliche (Base)

| Test No. | Test Location | Proctor No | Spec. No. | Moisture Content | Dry Density | Percent Compaction | Depth (inch) |
|----------|---|------------|-----------|------------------|-------------|--------------------|--------------|
| 1 | 4" Sewer Line Crimson Rd. Sta. 4+10 Final Lift (Retest) | BASE MD5 | 2 | 13.7% | 115.3 pcf | 98.1% (Pass) | 8" |
| 2 | 4" Sewer Sanitary Crimson Rd. Sta. 3+40 Final Lift | BASE MD5 | 2 | 14.4% | 115.3 pcf | 98.1% (Pass) | 8" |

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

FIELD DENSITIES 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: R013
Sample Date: 10/06/2016
Date Reported: 10/06/2016

Client PO: 728310

Page 2 of 2

Remarks: Test results are in general compliance with the project specifications except as noted.
Test Methods: ASTM D2922, D3017

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

Billy Ortiz

From: Jesse Alvarez [jose.alvarez@co.hidalgo.tx.us]
Sent: Thursday, October 06, 2016 10:21 AM
To: Billy Ortiz
Cc: Raul Sesin; Eliza Yzaguirre; Noe Saldivar; jorge.gonzalez@hcdd1.org; Nora Cavazos; Maria Lulu Lucio; Rick Gil
Subject: Re: Hoehn Subdivision Sanitary Sewer Improvements

Good Morning Billy,

Please see below for testing request,

Date of Service Requested: 10-06-16 Thursday

RO13

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: 02:00 PM

Type of Service Requested: Back- Fill Compaction Densities for Sanitary Sewer Crossings

Note: Testing Time has already been coordinated with Billy Ortiz

Note : One Test Today is a Retest from Failure on 09-21-16, Contractor Vanguard Engineering will be responsible for Cost incurred for Failed Test.

Thank You

Jesse Alvarez
Construction Inspector
County of Hidalgo Engineering Projects Office
902 Doolittle Rd.
Edinburg , Texas 78542
Office : 956-702-7000 ext 2029
Mobile:956-533-3992