

# L&G Consulting Engineers, Inc.

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July 22, 2016

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

**RE: Construction of Sunflower Park & CRC Parking Lot**  
**Contract No. # C-18-301-09-15 - Work Authorization #5/2**  
**Project No. # E1301601**  
**P.O. # 742342**

Dear Ms. Lucio

Attached for your review and approval is our invoice for the services rendered under Work Authorization #5 on the subject referenced project for the month of July.

The following is attached:

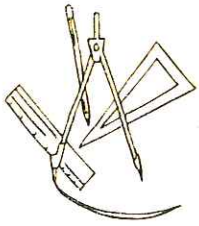
- L&G's Invoice #16-7-000005
- Test Reports and progress letters as prepared and forwarded to Pct. No. 4 and all parties involved on the project.

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,

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Ricardo A. Gil  
General Manager  
Laboratory Operations



# L&G Consulting Engineers, Inc.

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July 25, 2016

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

**RE: Construction of Sunflower Park & CRC Parking Lot**

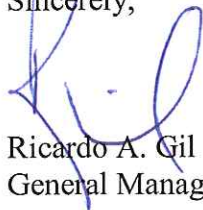
Dear Ms. Lucio:

Included for your use with this letter are test reports **R009 thru R017** for **Construction Material Testing** performed on the above referenced project. As noted on **R010**, both locations failed to meet requirements. These locations were re-tested on **R011**, but one location failed to meet requirements. This location was re-tested a second time but continues to fail. L&G will coordinate with County Inspector to perform re-test at the failed location.

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: South Texas Paving

## FIELD DENSITIES TEST REPORT

Project Description: Construction of Parking Lot at Sunflower Park & CRC  
 Client: Hidalgo County Pct. #4  
 Engineer: LeFevre Engineering & Management Consulting, LLC  
 Contractor: South Texas Paving

L&G Project Number: E1301601  
 L&G Report Number: R009  
 Sample Date: 06/23/2016  
 Date Reported: 06/23/2016

Client PO: 742342

Page 1 of 1

Material Description	Limed Subgrade		
Required % Proctor	95	Moisture Tolerance	-2+3
	<b>Proctor No</b>	<b>Optimum % Moisture</b>	<b>Opt. Density, LB/CF</b>
	E1301601-2	18.6	103.1

Test No.	Test Location	Proctor No	Moisture Content	Dry Density	Percent Compaction	Depth (inch)
1	Inters. of Sunflower Rd. & FM 107 Entrance from Sunflower Rd. 20ft W.	E1301601-2	16.6%	100.8 pcf	97.8% (Pass)	6"

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 LeFevre Engineering & Management Consulting, LLC  
 Attn: Mr. Emigdio Salinas, P.E.  
 1-cc South Texas Paving Attn: Mr. Marc Gomez  
 1-cc Laboratory

Respectfully Submitted,  
 L&G Engineering



\_\_\_\_\_  
 Ricardo A. Gil, Lab Manager

**Celia Almaguer**

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**From:** Maria Lucio [maria.lucio@co.hidalgo.tx.us]  
**Sent:** Wednesday, June 22, 2016 3:49 PM  
**To:** Celia Almaguer; Rick Gil  
**Cc:** Emigdio Salinas; Hector Moreno; Richard Lefevere; Steven Cruz; roman rodriguez; Marc Gomez  
**Subject:** Re: Request for Testing- Sunflower Park Parking Lot

E1301601

Correction Thursday, June 23rd at 1:00 PM

R009

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

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**From:** "Maria Lucio" <maria.lucio@co.hidalgo.tx.us>  
**To:** "Celia Almaguer" <calmaguerca@lgengineers.com>, "Rick Gil" <rgil@lgengineers.com>  
**Cc:** "Emigdio Salinas" <milo@lefevregroup.net>, "Hector Moreno" <hector@lefevregroup.net>, "Richard Lefevere" <richard@lefevregroup.net>, "Steven Cruz" <steven.cruz@co.hidalgo.tx.us>, "roman rodriguez" <roman.rodriguez@co.hidalgo.tx.us>, "Marc Gomez" <mgomez@southtexaspaving.com>  
**Sent:** Wednesday, June 22, 2016 3:48:31 PM  
**Subject:** Fwd: Request for Testing- Sunflower Park Parking Lot

Good Afternoon,

As per your on call contract C-15-301-09-15 (Work Authorization #2 Sunflower and CRC Parking Lot Project), we would like to request the following:

1. Test for the subgrade at entrance, and all test reports.

Please let this email serve as the formal request to begin testing Thursday, June 22nd at **1:00 pm**. 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

## FIELD DENSITIES TEST REPORT

Project Description: Construction of Parking Lot at Sunflower Park & CRC  
Client: Hidalgo County Pct. #4  
Engineer: LeFevre Engineering & Management Consulting, LLC  
Contractor: South Texas Paving

L&G Project Number: E1301601  
L&G Report Number: R010  
Sample Date: 06/29/2016  
Date Reported: 06/29/2016

Client PO: 742342

Page 1 of 1

<b>Material Description</b>	Caliche Base Material		
<b>Required % Proctor</b>	98	<b>Moisture Tolerance</b>	-2+3
	<b>Proctor No</b>	<b>Optimum % Moisture</b>	<b>Opt. Density, LB/CF</b>
	BASE MD2	18.0	106.3

Test No.	Test Location	Proctor No	Moisture Content	Dry Density	Percent Compaction	Depth (inch)
1	Sta. #1 NW Corner 10ft S. x 20ft E	BASE MD2	15.2%	104.5 pcf	98.3% (Fail)	8"
2	Sta. #5 NE Corner 20ft S x 20ft E (Prkg Lot Entrance Valley Gutter)	BASE MD2	20.6%	92.1 pcf	86.6% (Fail)	8"

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 LeFevre Engineering & Management Consulting, LLC  
Attn: Mr. Emigdio Salinas, P.E.  
1-cc South Texas Paving Attn: Mr. Marc Gomez  
1-cc Laboratory

Respectfully Submitted,  
L&G Engineering



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Ricardo A. Gil, Lab Manager

**Celia Almaguer**

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**From:** Maria Lucio [maria.lucio@co.hidalgo.tx.us]  
**Sent:** Tuesday, June 28, 2016 1:47 PM  
**To:** Rick Gil; Celia Almaguer  
**Cc:** steven cruz; roman rodriguez; Juan Carranza; Joe Alex Ochoa; Emigdio Salinas; Hector Moreno  
**Subject:** Fwd: Request for Testing- Sunflower Park Parking Lot  
**Importance:** High

RD10

Good Afternoon,

As per your on call contract C-15-301-09-15 (Work Authorization #2 Sunflower and CRC Parking Lot Project), we would like to request the following:

1. **Compaction test for caliche base, and all test reports.**

Please let this email serve as the formal request to begin testing **Wednesday, June 29th at 10:00 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

---

**From:** "Emigdio Salinas" <milo@lefevregroup.net>  
**To:** "Maria Lucio" <maria.lucio@co.hidalgo.tx.us>, Gomezpaving@gmail.com  
**Cc:** richard@lefevregroup.net, manuel@lefevregroup.net, "Roman Rodriguez" <roman.rodriguez@co.hidalgo.tx.us>, "steven cruz" <steven.cruz@co.hidalgo.tx.us>  
**Sent:** Tuesday, June 28, 2016 1:36:17 PM  
**Subject:** FW: Request for Testing- Sunflower Park Parking Lot

Lulu,

LEMC would like to request the following material testing:

**Project:** Sunflower Park Parking Lot

**Date:** Wednesday, June 29, 2016

**Time:** 10:00am

**Location:** Sunflower Park, San Carlos, Texas

**Type of Test:** Density @ Caliche

## FIELD DENSITIES TEST REPORT

Project Description: Construction of Parking Lot at Sunflower Park & CRC  
 Client: Hidalgo County Pct. #4  
 Engineer: LeFevre Engineering & Management Consulting, LLC  
 Contractor: South Texas Paving

L&G Project Number: E1301601  
 L&G Report Number: R011  
 Sample Date: 06/29/2016  
 Date Reported: 06/29/2016

Client PO: 742342

Page 1 of 1

<b>Material Description</b>	Caliche Base		
<b>Required % Proctor</b>	98	<b>Moisture Tolerance</b>	-2+3
	<b>Proctor No</b>	<b>Optimum % Moisture</b>	<b>Opt. Density, LB/CF</b>
	BASE MD2	18.0	106.3

Test No.	Test Location	Proctor No	Moisture Content	Dry Density	Percent Compaction	Depth (inch)
1	Sta. #1 N.W. Corner 10ft S x 20ft E	BASE MD2	16.2%	107.1 pcf	100.8% (Pass)	8"
2	Sta. #5 from NE Corner 20ft S x 20ft W	BASE MD2	18.3%	100.8 pcf	94.8% (Fail)	8"
3	Sta. #4 from SW Corner 100ft E x 30ft N	BASE MD2	16.7%	104.7 pcf	98.5% (Pass)	8"
4	Sta. 5 from NE 20ft S x 30ft W	BASE MD2	18.1%	98.1 pcf	92.3% (Fail)	8"

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 LeFevre Engineering & Management Consulting, LLC  
 Attn: Mr. Emigdio Salinas, P.E.  
 1-cc South Texas Paving Attn: Mr. Marc Gomez  
 1-cc Laboratory

Respectfully Submitted,  
 L&G Engineering



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 Ricardo A. Gil, Lab Manager

## Celia Almaguer

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**From:** Maria Lucio [maria.lucio@co.hidalgo.tx.us]  
**Sent:** Wednesday, June 29, 2016 2:41 PM  
**To:** Rick Gil; Celia Almaguer  
**Cc:** steven cruz; roman rodriguez; Juan Carranza; Hector Rene Garcia; jmgonzalezrpls@msn.com; Marc Gomez; Emigdio Salinas  
**Subject:** Re: Request for RETEST - Sunflower Park Parking Lot

Can this be scheduled for today?

Roll

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

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**From:** "Emigdio Salinas" <milo@lefevregroup.net>  
**To:** "Maria Lucio" <maria.lucio@co.hidalgo.tx.us>, "Rick Gil" <rgil@lgengineers.com>, "Celia Almaguer" <calmaguerca@lgengineers.com>  
**Cc:** "steven cruz" <steven.cruz@co.hidalgo.tx.us>, "roman rodriguez" <roman.rodriguez@co.hidalgo.tx.us>, "Juan Carranza" <juan.carranza@co.hidalgo.tx.us>, "Hector Rene Garcia" <hector@matagarcia-architects.com>, jmgonzalezrpls@msn.com, "Marc Gomez" <mgomez@southtexaspaving.com>  
**Sent:** Wednesday, June 29, 2016 1:39:15 PM  
**Subject:** RE: Request for RETEST - Sunflower Park Parking Lot

Lulu,

The Contractor is requesting if the lab can be out there as soon as possible Today. Please advise.

Thanks,

Emigdio "Milo" Salinas, P.E.

Vice President

**LeFEVRE**

ENGINEERING &  
MANAGEMENT CONSULTING, LLC

612 Nolana, Suite 521  
McAllen, Texas 78501  
Tel. 956.687.1500  
Fax. 956.687.5303

Texas Registered Engineering Firm F-11722

**From:** Maria Lucio [mailto:maria.lucio@co.hidalgo.tx.us]  
**Sent:** Wednesday, June 29, 2016 1:11 PM

## FIELD DENSITIES TEST REPORT

Project Description: Construction of Parking Lot at Sunflower Park & CRC  
 Client: Hidalgo County Pct. #4  
 Engineer: LeFevre Engineering & Management Consulting, LLC  
 Contractor: South Texas Paving

L&G Project Number: E1301601  
 L&G Report Number: R012  
 Sample Date: 07/01/2016  
 Date Reported: 07/01/2016

Client PO: 742342

Page 1 of 1

<b>Material Description</b>	Base Material MD2		
<b>Required % Proctor</b>	95	<b>Moisture Tolerance</b>	-2+3
	<b>Proctor No</b>	<b>Optimum % Moisture</b>	<b>Opt. Density, LB/CF</b>
	BASE MD2	18.0	106.3

Test No.	Test Location	Proctor No	Moisture Content	Dry Density	Percent Compaction	Depth (inch)
1	Sta. #5 NE Corner 20ft S x 1.5ft W (re-est)	BASE MD2	13.7%	106.7 pcf	100.4% (Fail)	8"
2	Parking Lot Entrance on C.L.	BASE MD2	13.4%	110.0 pcf	103.5% (Fail)	8"

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 LeFevre Engineering & Management Consulting, LLC  
 Attn: Mr. Emigdio Salinas, P.E.  
 1-cc South Texas Paving Attn: Mr. Marc Gomez  
 1-cc Laboratory

Respectfully Submitted,  
 L&G Engineering



\_\_\_\_\_  
 Ricardo A. Gil, Lab Manager

## Celia Almaguer

---

**From:** Maria Lucio [maria.lucio@co.hidalgo.tx.us]  
**Sent:** Thursday, June 30, 2016 6:34 PM  
**To:** Celia Almaguer  
**Cc:** hector@lefevregroup.net; Marc Gomez; richard@lefevregroup.net; manuel@lefevregroup.net; milo@lefevregroup.net  
**Subject:** Re: Request for Testing- Sunflower Park Parking Lot

RO12

Please schedule, thank you

Sent from my iPhone

On Jun 30, 2016, at 6:21 PM, Emigdio Salinas <[milo@lefevregroup.net](mailto:milo@lefevregroup.net)> wrote:

Lulu,

The Contractor for the Sunflower Parking Lot would like to coordinate a density test for the caliche tomorrow at 2pm.

Thanks,

Emigdio "Milo" Salinas, P.E.  
Vice President

<image002.jpg>

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**From:** Marc Gomez [<mailto:mgomez@southtexaspaving.com>]  
**Sent:** Thursday, June 30, 2016 5:24 PM  
**To:** Emigdio Salinas <[milo@lefevregroup.net](mailto:milo@lefevregroup.net)>  
**Cc:** Maria Lucio <[maria.lucio@co.hidalgo.tx.us](mailto:maria.lucio@co.hidalgo.tx.us)>; Hector Moreno <[hector@lefevregroup.net](mailto:hector@lefevregroup.net)>; [richard@lefevregroup.net](mailto:richard@lefevregroup.net); steven cruz <[steven.cruz@co.hidalgo.tx.us](mailto:steven.cruz@co.hidalgo.tx.us)>; Roman Rodriguez <[roman.rodriguez@co.hidalgo.tx.us](mailto:roman.rodriguez@co.hidalgo.tx.us)>; [manuel@lefevregroup.net](mailto:manuel@lefevregroup.net)  
**Subject:** Re: Request for Testing- Sunflower Park Parking Lot

Milo, if like the final caliche test scheduled for tomorrow around 2. Please let me know if this is possible. Thank you

Sent from my iPhone

On Jun 10, 2016, at 12:41 PM, Emigdio Salinas <[milo@lefevregroup.net](mailto:milo@lefevregroup.net)> wrote:

Marc,

We received the proctor as shown on the attachment. Please advise when you will be ready for testing VIA EMAIL, so that we can coordinate with both the County and the Material Testing Firm.

Thanks,

## SUMMARY OF ASPHALT ROLLING PATTERN TEST REPORT

Project Description: Construction of Parking Lot at Sunflower Park & CRC  
Client: Hidalgo County Pct. #4  
Engineer: LeFevre Engineering & Management Consulting, LLC  
Contractor: South Texas Paving

L&G Project Number: E1301601  
L&G Report Number: R013  
Sample Date: 07/08/2016  
Date Reported: 07/08/2016

Client PO: 742342

Page 1 of 1

**Material Description:** Hot Mix Asphalt Paving  
**Material Source:** Valley Caliche  
**Specification:** TxDOT Item 340

Rolling Pattern Location	Density (%)	Air Voids (%)
Parking Lot North End	91.9	8.1
Parking Lot North End	91.7	8.3
Parking Lot North End	92.5	7.5

Procedure: A Rolling Pattern was established using an Instrotek Model Number 3500 Nuclear Density Gauge. Further compaction of the asphalt surface was achieved by the use of a Pneumatic roller after the initial rolling operation. Target Maximum Density used was 153.9 Lbs./Cf. TxDOT Item 340 specifies a target in place density of 91 to 95 percent.

**Remarks:** Tex Method 207F Part III, Tex Method 222F  
**Test Method (As Applicable):**

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)  
(Edinburg, TX) Attn: Maria Lucio  
(1-cc copy)  
1-cc LeFevre Engineering & Management Consulting, LLC  
Attn: Mr. Emigdio Salinas, P.E.  
1-cc South Texas Paving Attn: Mr. Marc Gomez  
1-cc Laboratory

Respectfully Submitted,  
L&G Engineering



Ricardo A. Gil, Lab Manager

**Celia Almaguer**

---

**From:** Maria Lucio [maria.lucio@co.hidalgo.tx.us]  
**Sent:** Thursday, July 07, 2016 10:20 AM  
**To:** Rick Gil; Celia Almaguer  
**Cc:** Marc Gomez; Emigdio Salinas; Hector Moreno; Richard Lefevere; steven cruz; roman rodriguez; Juan Carranza  
**Subject:** Fwd: Invoice #5397 from South Texas Paving

*Sumflower Parking lot*

2013 +  
2014

Good Morning,  
We would like to request asphalt testing for tomorrow at 10:00 am.  
Thank you!

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](mailto:maria.lucio@co.hidalgo.tx.us)

---

**From:** "Marc Gomez" <[mgomez@southtexaspaving.com](mailto:mgomez@southtexaspaving.com)>  
**To:** "Maria Lucio" <[maria.lucio@co.hidalgo.tx.us](mailto:maria.lucio@co.hidalgo.tx.us)>  
**Cc:** "Emigdio Salinas" <[milo@lefevregroup.net](mailto:milo@lefevregroup.net)>, "Hector Moreno" <[hector@lefevregroup.net](mailto:hector@lefevregroup.net)>, "Richard Lefevere" <[richard@lefevregroup.net](mailto:richard@lefevregroup.net)>, "steven cruz" <[steven.cruz@co.hidalgo.tx.us](mailto:steven.cruz@co.hidalgo.tx.us)>, "yvette salinas" <[yvette.salinas@co.hidalgo.tx.us](mailto:yvette.salinas@co.hidalgo.tx.us)>, "jose ochoa" <[jose.ochoa@co.hidalgo.tx.us](mailto:jose.ochoa@co.hidalgo.tx.us)>  
**Sent:** Thursday, July 7, 2016 10:12:55 AM  
**Subject:** Re: Invoice #5397 from South Texas Paving

We need to schedule asphalt testing tomorrow at 10am.

Sent from my iPhone

On Jul 6, 2016, at 5:09 PM, Maria Lucio <[maria.lucio@co.hidalgo.tx.us](mailto:maria.lucio@co.hidalgo.tx.us)> wrote:

Mr. Gomez,

I just received your invoice yesterday.  
It must be reviewed and then placed on the next CC date (7-19-16) for approval to pay.

The Auditor then reviews your contract and payment request to release payment.

This was explained in the pre con, please keep I mind we will review but if there are any forms pending or errors and they do not get submitted in a timely manner then it will only delay the process even more.

Should you have any further questions please let me know, thank you.

## BITUMINOUS MIXTURE PROPERTIES TEST REPORT

Project Description: Construction of Parking Lot at Sunflower Park & CRC  
 Client: Hidalgo County Pct. #4  
 Engineer: LeFevre Engineering & Management Consulting, LLC  
 Contractor: South Texas Paving

L&G Project Number: E1301601  
 L&G Report Number: R014  
 Sample Date: 07/08/2016  
 Date Reported: 07/08/2016

Client PO: 742342

Page 1 of 1

**Material Description:** Hot Mix Asphalt Paving  
**Material Source:** Valley Caliche  
**Specification:** TxDOT Item 340 (Ty D)

Sieve Size	Result (% Passing)	Ty D Fine Surface Requirement
1/2"	100.0	98-100
3/8"	94.0	85-100
No. 4	65.0	50-70
No. 8	39.0	35-46
No. 30	24.0	15-29
No. 50	20.0	7-20
No. 200	7.0	2-7

### Tex-236-F Asphalt Content (Ignition Method)

**Asphalt Content = 4.91 (design value)**  
**Tex-227-F Theoretical Maximum Specific Gravity of Bituminous Mixtures**

**(Rice Gravity) Gr = 2.466 (design value)**  
**Tex-207-F Density of Compacted Bituminous Mixtures**

**(Bulk Specific Gravity) Ga = 2.389 (design value)**  
**Density (%) = 96.9 (96% + or - 1.5%)**

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)  
 (Edinburg, TX) Attn: Maria Lucio  
 (1-cc copy)  
 1-cc LeFevre Engineering & Management Consulting, LLC  
 Attn: Mr. Emigdio Salinas, P.E.  
 1-cc South Texas Paving Attn: Mr. Marc Gomez  
 1-cc Laboratory

Respectfully Submitted,  
 L&G Engineering



Ricardo A. Gil, Lab Manager

**Celia Almaguer**

---

**From:** Maria Lucio [maria.lucio@co.hidalgo.tx.us]  
**Sent:** Thursday, July 07, 2016 10:20 AM  
**To:** Rick Gil; Celia Almaguer  
**Cc:** Marc Gomez; Emigdio Salinas; Hector Moreno; Richard Lefevere; steven cruz; roman rodriguez; Juan Carranza  
**Subject:** Fwd: Invoice #5397 from South Texas Paving

Sumflower Parking lot

2013 +  
2014

Good Morning,  
We would like to request asphalt testing for tomorrow at 10:00 am.  
Thank you!

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](mailto:maria.lucio@co.hidalgo.tx.us)

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**From:** "Marc Gomez" <[mgomez@southtexaspaving.com](mailto:mgomez@southtexaspaving.com)>  
**To:** "Maria Lucio" <[maria.lucio@co.hidalgo.tx.us](mailto:maria.lucio@co.hidalgo.tx.us)>  
**Cc:** "Emigdio Salinas" <[milo@lefevregroup.net](mailto:milo@lefevregroup.net)>, "Hector Moreno" <[hector@lefevregroup.net](mailto:hector@lefevregroup.net)>, "Richard Lefevere" <[richard@lefevregroup.net](mailto:richard@lefevregroup.net)>, "steven cruz" <[steven.cruz@co.hidalgo.tx.us](mailto:steven.cruz@co.hidalgo.tx.us)>, "yvette salinas" <[yvette.salinas@co.hidalgo.tx.us](mailto:yvette.salinas@co.hidalgo.tx.us)>, "jose ochoa" <[jose.ochoa@co.hidalgo.tx.us](mailto:jose.ochoa@co.hidalgo.tx.us)>  
**Sent:** Thursday, July 7, 2016 10:12:55 AM  
**Subject:** Re: Invoice #5397 from South Texas Paving

We need to schedule asphalt testing tomorrow at 10am.

Sent from my iPhone

On Jul 6, 2016, at 5:09 PM, Maria Lucio <[maria.lucio@co.hidalgo.tx.us](mailto:maria.lucio@co.hidalgo.tx.us)> wrote:

Mr. Gomez,

I just received your invoice yesterday.  
It must be reviewed and then placed on the next CC date (7-19-16) for approval to pay.

The Auditor then reviews your contract and payment request to release payment.

This was explained in the pre con, please keep I mind we will review but if there are any forms pending or errors and they do not get submitted in a timely manner then it will only delay the process even more.

Should you have any further questions please let me know, thank you.

**REPORT OF SITE VISIT  
TEST REPORT**

Project Description: Construction of Parking Lot at Sunflower Park & CRC  
Client: Hidalgo County Pct. #4  
Engineer: LeFevre Engineering & Management Consulting, LLC  
Contractor: South Texas Paving

L&G Project Number: E1301601  
L&G Report Number: R015  
Sample Date: 07/11/2016  
Date Reported: 07/11/2016

Client PO: 742342

Page 1 of 1

On July 11, 2016, a representative of L&G Engineering Laboratory was dispatched to Sunflower Park to perform inspection on the placement of ready-mixed concrete on Sidewalk & Park Entrance.

Specimen Number 1 was obtained and tested at 10:40 AM, and the following were determined:

<b>Concrete Temp:</b> 95°f	N/A Specification	<b>Entrapped/Entrained Air Content:</b> 0.9%	N/A Specification
<b>Ambient Temp:</b> 83°f	N/A Specification	<b>Slump:</b> 5 1/2 inches	N/A Specification

From Specimen Number 1, a total of 4-6x12 cylindrical test specimens were cast for Compressive Strength Testing at intervals of 7 and 28 days.

Specimen Number 2 was obtained and tested at 4:45 PM, and the following were determined:

<b>Concrete Temp:</b> 96°f	N/A Specification	<b>Entrapped/Entrained Air Content:</b> 1.1%	N/A Specification
<b>Ambient Temp:</b> 100°f	N/A Specification	<b>Slump:</b> 4 inches	N/A Specification

From Specimen Number 2, a total of 4-6x12 cylindrical test specimens were cast for Compressive Strength Testing at intervals of 7 and 28 days.

On July 12, 2016, a representative of L&G Engineering Laboratory was dispatched to the referenced project to collect the cylindrical specimens cast on the placement of ready-mixed concrete on Sidewalk & Park Entrance. The specimens were delivered to the laboratory where they were stripped, labeled, and placed in a curing tank for testing at intervals of 7 and 28 days.

Test Methods (If Applicable): ASTM C-231, ASTM C-143, ASTM C-1064, ASTM C-31, ASTM C-172

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)  
(Edinburg, TX) Attn: Maria Lucio  
(1-cc copy)  
1-cc LeFevre Engineering & Management Consulting, LLC  
Attn: Mr. Emigdio Salinas, P.E.  
1-cc South Texas Paving Attn: Mr. Marc Gomez  
1-cc Laboratory

Respectfully Submitted,  
L&G Engineering



Ricardo A. Gil, Lab Manager

**Celia Almaguer**

---

**From:** Maria Lucio [maria.lucio@co.hidalgo.tx.us]  
**Sent:** Monday, July 11, 2016 9:10 AM  
**To:** Rick Gil; Celia Almaguer  
**Cc:** Marc Gomez; Emigdio Salinas; Richard Lefevere; roman rodriguez; Juan Carranza  
**Subject:** Fwd: Moisture Test for Parking Lot

**Importance:** High

2015  
2016  
2017

Good Morning,

Please schedule testing for concrete at sidewalks and entrance today.  
I do not have a time because the contractor did not provide it, please coordinate and keep me informed.

Thank you!

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](mailto:maria.lucio@co.hidalgo.tx.us)

---

**From:** "Marc Gomez" <[mgomez@southtexaspaving.com](mailto:mgomez@southtexaspaving.com)>  
**To:** "Emigdio Salinas" <[milo@lefevregroup.net](mailto:milo@lefevregroup.net)>  
**Cc:** [richard@lefevregroup.net](mailto:richard@lefevregroup.net), "Maria Lucio" <[maria.lucio@co.hidalgo.tx.us](mailto:maria.lucio@co.hidalgo.tx.us)>, "roman rodriguez" <[roman.rodriguez@co.hidalgo.tx.us](mailto:roman.rodriguez@co.hidalgo.tx.us)>  
**Sent:** Monday, July 11, 2016 8:31:31 AM  
**Subject:** Re: Moisture Test for Parking Lot

We are throwing sidewalks and entrance today. If you would like to take samples of concrete we need testing company onsite as soon as possible today.

Sent from my iPhone

On Jul 1, 2016, at 6:41 PM, Emigdio Salinas <[milo@lefevregroup.net](mailto:milo@lefevregroup.net)> wrote:

Lulu,

As mentioned in our phone call, I spoke with Rick from L&G, and the moisture was -4 but was a couple of hours after the Contractor requested the testing. Both Rick and I agree that the moisture would have been at optimum moisture within that time and due to our really hot weather dropped within that time. The test done today should be considered as passed.

Have a great July 4th weekend everyone!!!

## CONCRETE COMPRESSION TEST REPORT

Project Description: Construction of Parking Lot at Sunflower Park & CRC  
 Client: Hidalgo County Pct. #4  
 Engineer: LeFevre Engineering & Management Consulting, LLC  
 Contractor: South Texas Paving

L&G Project Number: E1301601  
 L&G Report Number: R016  
 Sample Date: 07/11/2016  
 Date Reported: 07/18/2016

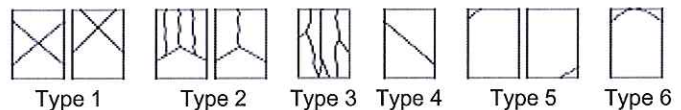
Client PO: 742342

Page 1 of 1

Placement Location: Sidewalk  
 Mix ID: 3000 PSI Supplier: CEMEX  
 Specified Strength: 3,000 P.S.I. @ 28 days  
 Specified Slump: 5 Slump: 5.5"  
 Specified Air Content: N/A Air Content: 0.9%  
 Weather Conditions: Sunny, Hot Air Temp.: 83°f  
 Time Batched: 10:03 am Time Sampled: 10:40 am Concrete Temp.: 95°f  
 Plant Ticket No: 43711736 Truck No: 10036004 CY: 10  
 Water: 0 gal.

### Compressive Strength Data

Set No.	Identification	Test Date	Age (days)	Maximum Load (pounds)	Break Type	Comp. Strength (psi)	Average Strength (psi)	% of Design
1	A	07/18/2016	7	64,655	Type 3	2,290	2,280	76.33%
	B	07/18/2016	7	64,345	Type 6	2,280		76.00%


**Remarks/Comments:**

6 x 12 in. Cylinders

Orig: Hidalgo County Pct. #4 (E130) (Hidalgo County Pct. #4)  
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 1-cc Laboratory

Respectfully Submitted,  
 L&G Engineering



\_\_\_\_\_  
 Ricardo A. Gil, Lab Manager

## Celia Almaguer

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Have a great July 4th weekend everyone!!!

## CONCRETE COMPRESSION TEST REPORT

Project Description: Construction of Parking Lot at Sunflower Park & CRC  
 Client: Hidalgo County Pct. #4  
 Engineer: LeFevre Engineering & Management Consulting, LLC  
 Contractor: South Texas Paving

L&G Project Number: E1301601  
 L&G Report Number: R017  
 Sample Date: 07/11/2016  
 Date Reported: 07/18/2016

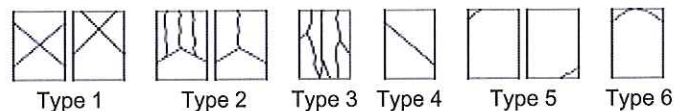
Client PO: 742342

Page 1 of 1

Placement Location: Park Entrance  
 Mix ID: 3500 PSI Supplier: CEMEX  
 Specified Strength: 3,500 P.S.I. @ 28 days  
 Specified Slump: 5 Slump: 4.0"  
 Specified Air Content: N/A Air Content: 1.1%  
 Weather Conditions: Sunny Air Temp.: 100°f  
 Time Batched: 4:15 pm Time Sampled: 4:45 pm Concrete Temp.: 96°f  
 Plant Ticket No: 43712450 Truck No: 10035593 CY: 10  
 Water: 0 gal.

### Compressive Strength Data

Set No.	Identification	Test Date	Age (days)	Maximum Load (pounds)	Break Type	Comp. Strength (psi)	Average Strength (psi)	% of Design
2	A	07/18/2016	7	85,925	Type 2	3,040		86.86%
	B	07/18/2016	7	80,430	Type 2	2,840	2,940	81.14%


**Remarks/Comments:**

6 x 12 in. Cylinders

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 (Edinburg, TX) Attn: Maria Lucio  
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Have a great July 4th weekend everyone!!!

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.:** E1301601  
**Project Desc.:** Construction of Parking Lot at Sunflower Park & CRC

**Due Date:** UPON RECEIPT  
**Budget/Remaining:** \$10,495.01 / \$4,600.96  
**PO:** 742342

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

	<u>Unit Rate</u>	<u>Qty</u>	<u>Extension</u>
910:91011 - Field Density (Nuclear Method)	\$24.63	3.00	\$73.89
920:92033 - Air Content (Pressure Method)	\$24.58	2.00	\$49.16
920:92034 - Comp. Strength of Cyl. Specimen	\$16.40	4.00	\$65.60
920:92035 - Cyl. Specimen Prep./Hold/Cure	\$12.36	8.00	\$98.88
930:93039 - Extraction, Grad., Asph. Content	\$239.45	1.00	\$239.45
930:93043 - Asphalt Specimen Specific Gravity (each)	\$55.00	1.00	\$55.00
930:93047 - Asphalt Rolling Patterns	\$41.06	3.00	\$123.18
940:94045 - Eng. Tech. (Asphalt / Lab)	\$52.88	1.50	\$79.32
940:94047 - Eng. Tech. (Concrete / Lab)	\$52.88	1.00	\$52.88
940:94048 - Eng. Tech. (Soils / SP.)	\$52.88	4.50	\$237.96
940:94050 - Eng. Tech. (Concrete)	\$52.88	10.50	\$555.24
940:94052 - Eng. Tech. (Asphalt)	\$52.88	3.00	\$158.64
940:94054 - Engineering Specialist	\$105.76	1.75	\$185.08
940:94055 - Engineer / P.E.	\$133.76	1.75	\$234.08
950:95058 - Vehicle Trip Charge	\$0.55	140.00	\$77.00
950:95061 - Test Report	\$24.30	7.00	\$170.10
			<hr/>
		<b>Total for this Invoice:</b>	<b>\$2,455.46</b>

===== 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	06/23/2016	1.00	910:91011 - Field Density (Nuclear Method)	Each	\$24.63	\$24.63
R009	06/23/2016	2.00	940:94048 - Eng. Tech. (Soils / SP.)	Hour	\$52.88	\$105.76

**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**

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>
R009	06/23/2016	0.25	940:94054 - Engineering Specialist	Hour	\$105.76	\$26.44
R009	06/23/2016	0.25	940:94055 - Engineer / P.E.	Hour	\$133.76	\$33.44
R009	06/23/2016	28.00	950:95058 - Vehicle Trip Charge	Mile	\$0.55	\$15.40
R009	06/23/2016	1.00	950:95061 - Test Report	Each	\$24.30	\$24.30
Report Number R009 for a Subtotal of:						\$229.97
R011	06/29/2016	2.00	910:91011 - Field Density (Nuclear Method)	Each	\$24.63	\$49.26
R011	06/29/2016	2.50	940:94048 - Eng. Tech. (Soils / SP.)	Hour	\$52.88	\$132.20
R011	06/29/2016	0.25	940:94054 - Engineering Specialist	Hour	\$105.76	\$26.44
R011	06/29/2016	0.25	940:94055 - Engineer / P.E.	Hour	\$133.76	\$33.44
R011	06/29/2016	28.00	950:95058 - Vehicle Trip Charge	Mile	\$0.55	\$15.40
R011	06/29/2016	1.00	950:95061 - Test Report	Each	\$24.30	\$24.30
Report Number R011 for a Subtotal of:						\$281.04
R013	07/08/2016	3.00	930:93047 - Asphalt Rolling Patterns	Each	\$41.06	\$123.18
R013	07/08/2016	3.00	940:94052 - Eng. Tech. (Asphalt)	Hour	\$52.88	\$158.64
R013	07/08/2016	0.25	940:94054 - Engineering Specialist	Hour	\$105.76	\$26.44
R013	07/08/2016	0.25	940:94055 - Engineer / P.E.	Hour	\$133.76	\$33.44
R013	07/08/2016	28.00	950:95058 - Vehicle Trip Charge	Mile	\$0.55	\$15.40
R013	07/08/2016	1.00	950:95061 - Test Report	Each	\$24.30	\$24.30
Report Number R013 for a Subtotal of:						\$381.40
R014	07/08/2016	1.00	930:93039 - Extraction, Grad., Asph. Content	Each	\$239.45	\$239.45
R014	07/08/2016	1.00	930:93043 - Asphalt Specimen Specific Gravity (each)	Each	\$55.00	\$55.00
R014	07/08/2016	1.50	940:94045 - Eng. Tech. (Asphalt / Lab)	Each	\$52.88	\$79.32
R014	07/08/2016	0.25	940:94054 - Engineering Specialist	Hour	\$105.76	\$26.44
R014	07/08/2016	0.25	940:94055 - Engineer / P.E.	Hour	\$133.76	\$33.44
R014	07/08/2016	1.00	950:95061 - Test Report	Each	\$24.30	\$24.30
Report Number R014 for a Subtotal of:						\$457.95

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**

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>
R015	07/11/2016	2.00	920:92033 - Air Content (Pressure Method)	Each	\$24.58	\$49.16
R015	07/11/2016	8.00	920:92035 - Cyl. Specimen Prep./Hold/Cure	Each	\$12.36	\$98.88
R015	07/11/2016	10.50	940:94050 - Eng. Tech. (Concrete)	Hour	\$52.88	\$555.24
R015	07/11/2016	0.25	940:94054 - Engineering Specialist	Hour	\$105.76	\$26.44
R015	07/11/2016	0.25	940:94055 - Engineer / P.E.	Hour	\$133.76	\$33.44
R015	07/11/2016	56.00	950:95058 - Vehicle Trip Charge	Mile	\$0.55	\$30.80
R015	07/11/2016	1.00	950:95061 - Test Report	Each	\$24.30	\$24.30
Report Number R015 for a Subtotal of:						\$818.26
R016	07/11/2016	2.00	920:92034 - Comp. Strength of Cyl. Specimen	Each	\$16.40	\$32.80
R016	07/11/2016	0.50	940:94047 - Eng. Tech. (Concrete / Lab)	Each	\$52.88	\$26.44
R016	07/11/2016	0.25	940:94054 - Engineering Specialist	Hour	\$105.76	\$26.44
R016	07/11/2016	0.25	940:94055 - Engineer / P.E.	Hour	\$133.76	\$33.44
R016	07/11/2016	1.00	950:95061 - Test Report	Each	\$24.30	\$24.30
Report Number R016 for a Subtotal of:						\$143.42
R017	07/11/2016	2.00	920:92034 - Comp. Strength of Cyl. Specimen	Each	\$16.40	\$32.80
R017	07/11/2016	0.50	940:94047 - Eng. Tech. (Concrete / Lab)	Each	\$52.88	\$26.44
R017	07/11/2016	0.25	940:94054 - Engineering Specialist	Hour	\$105.76	\$26.44
R017	07/11/2016	0.25	940:94055 - Engineer / P.E.	Hour	\$133.76	\$33.44
R017	07/11/2016	1.00	950:95061 - Test Report	Each	\$24.30	\$24.30
Report Number R017 for a Subtotal of:						\$143.42
<b>Total for this Invoice:</b>						<b>\$2,455.46</b>

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 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



# Purchase Order COUNTY OF HIDALGO

PO# 742342

DATE: 04/25/16

PAGE NO: 1 OF 1

PO TYPE:

VENDOR: 280046

REQ: 00296203

PHONE: (956) 565-9813

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

MERCEDES TX 78570

CONTACT: VDavis

(956) 383-3112

SITE: COMMISSIONER, PRECINCT 4

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

SPECIAL INSTRUCTIONS: Pct. 4 Req # 461

### 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 number 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		
		WA2-C-15-301-09-15-L&G Engineering Approved CC 04/05/16 AI- 54036		
1.00	LOT	CC Work Authorization No. 2 for Project "Construction of Parking Lot at San Carlos & Sunflower Park" for Hidalgo County Precinct No. 4 in connection to "on call" GEO Tech & CMT Services Agreement	10,495.01	10,495.01
		TOTAL:		10,495.01
		***** For Hidalgo County use only		
		6-1345-A19-40-124-123-0-740	10,495.01	

Authorized by:

*Martha S. Salazar*

## EXHIBIT "C" CONTRACT RATES

<b>L &amp; G Engineering</b>			
Transportation Consulting Engineers			
Audited Overhead Rate FY 2014			
Labor/Staff Classification	Hourly Base Rate	Contract Rate FY 15	Contract Rate *FY 16
Principal	\$ -	\$ -	\$ -
Senior Project Manager	\$ 70.00	\$ 211.40	\$ 217.74
Engineer (V) - Senior Engineer	\$ 58.00	\$ 175.16	\$ 180.41
Senior Environmental Planner/Specialist	\$ 49.00	\$ 147.98	\$ 152.42
Engineer (III) - Project Engineer	\$ 43.00	\$ 129.88	\$ 133.76
Engineering Lab Manager	\$ 34.00	\$ 102.68	\$ 105.76
Senior Engineer Tech / Geotechnical Engineer	\$ 32.00	\$ 96.64	\$ 99.54
Environmental Planner/Specialist (II)	\$ 30.00	\$ 90.60	\$ 93.32
Project Inspector (V)	\$ 28.00	\$ 84.56	\$ 87.10
Record Keeper	\$ 27.00	\$ 81.54	\$ 83.99
Environmental Planner/Specialist (I)	\$ 26.00	\$ 78.52	\$ 80.88
Project Inspector (I)	\$ 22.00	\$ 66.44	\$ 68.43
CADD Operator / GIS Analyst	\$ 22.00	\$ 66.44	\$ 68.43
Admin/Clerical	\$ 20.00	\$ 60.40	\$ 62.21
Soil & Aggregate Technician	\$ 17.00	\$ 51.34	\$ 52.88
Concrete Technician	\$ 17.00	\$ 51.34	\$ 52.88
Asphalt Technician	\$ 17.00	\$ 51.34	\$ 52.88
Negotiated Overhead Rate: 169.26%	Contract Rates include labor, overhead, and profit.		
Negotiated Profit Rate: 12.00%			
Multiplier: 3.02			
<b>Other Direct Expenses:</b>	<b>Cost:</b>		
Lodging	\$85/night		
Meals	\$36/day		
Mileage	\$0.56/mile		
Car Rental	\$75.00/day		
8 1/2" X 11" copies	\$1.00/sheet		
11" X 17" copies	\$1.50/sheet		
11" X 17" Mylar	\$2.00/sheet		
Overnight Mail - Letter Size	\$15.00/Each		
Overnight Mail - Oversized Box	\$38.00/Each		

## 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.
Voids 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	<b>By Quote</b>	<b>By Quote</b>

### 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**

**2015**

**2016**

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.

**Attachment "D"**  
**L&G Engineering**  
**Construction of Parking Lot at San Carlos CRC & Sunflower Park**  
**Prepared for Hidalgo County Precinct No. 4**

<i>In-Situ Soils Testing-Laboratory</i>					
Standard Proctor	2	Ea.	\$211.99	\$423.98	<i>In Situ Subgrade Moisture-Density Testing on the following:</i>
Atterberg Limits of Soils	2	Ea.	\$82.05	\$164.10	
Material Finer #200	2	Ea.	\$68.46	\$136.92	
Test Report	2	Ea.	\$24.30	\$48.60	
Technician (Soils)	6	Hr.	\$52.88	\$317.28	
Mileage (Trip Charge)	80	Mi.	\$0.55	\$44.00	<i>Parking Areas Walking Trails</i>
Subtotal:				\$1,134.88	
<i>In-Situ Soils Testing-Field</i>					
Field Density Test	16	Ea.	\$24.63	\$394.08	<i>Trench Backfill Field Density Testing on the Following:</i>
Test Report	2	Ea.	\$24.30	\$48.60	
Technician (Soils)	10	Hr.	\$52.88	\$528.80	<i>Parking Area and Walking Trail Subgrade</i>
Mileage (Trip Charge)	200	Mi.	\$0.55	\$110.00	
Subtotal:				\$1,081.48	
<i>Treated Backfill Sand Testing-Laboratory</i>					
Standard Proctor	1	Ea.	\$211.99	\$211.99	<i>Quantity Based On 2 visits to obtain samples for laboratory testing</i>
Atterberg Limits of Soils	1	Ea.	\$82.05	\$82.05	
Test Report	1	Ea.	\$24.30	\$24.30	
Technician (Soils)	3	Hr.	\$52.88	\$158.64	
Mileage (Trip Charge)	40	Mi.	\$0.55	\$22.00	
Subtotal:				\$498.98	
<i>Treated Backfill Sand Soils Testing-Field</i>					
Field Density Test	10	Ea.	\$24.63	\$246.30	<i>Quantity Based On 10 site visits to perform compaction testing</i>
Test Report	8	Ea.	\$24.30	\$194.40	
Technician (Soils)	10	Hr.	\$52.88	\$528.80	
Mileage (Trip Charge)	200	Mi.	\$0.55	\$110.00	
Subtotal:				\$1,079.50	
<i>Flexible Base (Caliche)-Laboratory</i>					
Standard Proctor	1	Ea.	\$211.99	\$211.99	<i>Quantity based on 1 site visit to obtain sample for laboratory testing</i>
Atterberg Limits of Soils	1	Ea.	\$82.05	\$82.05	
Sieve Analysis (Dry)(4 Sieve)	1	Ea.	\$61.52	\$61.52	
Texas Wet Ball Mill	1	Ea.	\$239.53	\$239.53	
Technician (Soils)	4	Hr.	\$52.88	\$211.52	
Test Report	2	Ea.	\$24.30	\$48.60	
Mileage (Trip Charge)	40	Mi.	\$0.55	\$22.00	
Subtotal:				\$877.21	
<i>Flexible Base (Caliche)-Field Testing and Monitoring</i>					
Field Density Test	6	Ea.	\$24.63	\$147.78	<i>Quantities based on two (2) visits to perform in-place testing</i>
Test Report	2	Ea.	\$24.30	\$48.60	
Technician (Soils)	5	Hr.	\$52.88	\$264.40	
Mileage (Trip Charge)	80	Mi.	\$0.55	\$44.00	
Subtotal:				\$504.78	
<i>Hot Mix Asphalt Paving-Pavement Areas</i>					
Ext. Sieve Analysis/Asph Content	1	Ea.	\$239.45	\$239.45	<i>Quantities based on site visits to perform testing</i>
Density of Asphaltic Cores	3	Ea.	\$75.23	\$225.69	
Asphalt Rolling Patterns	3	Ea.	\$41.06	\$123.18	
Coring/ACP Thickness	4	Ea.	\$68.46	\$273.84	
Technician (Asphalt)	10	Hr.	\$52.88	\$528.80	
Mileage (Trip Charge)	80	Mi.	\$0.55	\$44.00	
Test Report	3	Ea.	\$24.30	\$72.90	
Subtotal:				\$1,507.86	

**Concrete Placement - Sidewalk/Curb & Gutter**

Air Content(Pressure Method)	2	Ea.	\$24.58	\$49.16	<i>Assuming 4 Placements</i>
Test Report	2	Ea.	\$24.30	\$48.60	
Technician (Concrete)	4	Hr.	\$52.88	\$211.52	
Mileage (Trip Charge)	80	Mi.	\$0.55	\$44.00	
			Subtotal:	\$353.28	
Cyl. Spec. Prep, Hold, Cure	8	Ea.	\$12.36	\$98.88	<i>Quantities based on sample pickup and deliver to laboratory for Compression Testing</i>
Comp. Str. Of Cyl. Specimen	8	Ea.	\$16.40	\$131.20	
Test Reports (7 and 28 day)	4	Ea.	\$24.30	\$97.20	
Technician (Concrete)	4	Hr.	\$52.88	\$211.52	
Mileage (Trip Charge)	80	Mi.	\$0.55	\$44.00	
			Subtotal:	\$582.80	

Estimated Field and Laboratory Test Fees				\$7,620.77
Laboratory Manager (Report Review)(Hr.)	12	\$105.76		\$1,269.12
Project Engineer (Report Review)(Hr.)	12	\$133.76		\$1,605.12
Estimated Materials Testing Total				<u>\$10,495.01</u>