L&G Engineering Laboratory

Construction Material Testing
Geotechnical Engineering

INVOICE

Invoice Date: 05/30/2014
Invoice No: 14-5-000018

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

Client Address: Hidalgo County Pct. #4

1102 N. Doolittle Rd.

Edinburg, TX. 78539

Account No.: L130
Project No: L1301403
Project Desc.: Renovations to former Admin. Bldg.

Due Date: UPON RECEIPT
Budget/Remaining: $2,838.93 / $1,349.27
PO: 707737

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

	Unit Rate	Qty	Extension
920:92033 - Air Content (Pressure Method)	$23.51	1.00	$23.51
920:92034 - Comp. Strength of Cyl. Specimen	$15.68	4.00	$62.72
920:92035 - Cyl. Specimen Prep./Hold/Cure	$11.83	4.00	$47.32
940:94047 - Eng. Tech. (Concrete / Lab)	$60.18	1.00	$60.18
940:94050 - Eng. Tech. (Concrete)	$60.18	4.00	$240.72
940:94054 - Engineering Specialist	$117.75	6.75	$794.82
940:94055 - Engineer / P.E.	$150.22	0.75	$112.67
950:95058 - Vehicle Trip Charge	$0.52	150.00	$78.00
950:95061 - Test Report	$23.24	3.00	$69.72
		Total for this Invoice:	**$1,489.66**

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

Report No.	Sampled	Qty	Billing Code	Unit Type	Unit Rate	Extension
R001	*04/25/2014*	*1.00*	*920:92033 - Air Content (Pressure Method)*	*Each*	*$23.51*	*$23.51*
R001	*04/25/2014*	*4.00*	*920:92035 - Cyl. Specimen Prep./Hold/Cure*	*Each*	*$11.83*	*$47.32*
R001	*04/25/2014*	*4.00*	*940:94050 - Eng. Tech. (Concrete)*	*Hour*	*$60.18*	*$240.72*
R001	*04/25/2014*	*0.25*	*940:94054 - Engineering Specialist*	*Hour*	*$117.75*	*$29.44*
R001	*04/25/2014*	*0.25*	*940:94055 - Engineer / P.E.*	*Hour*	*$150.22*	*$37.56*
R001	*04/25/2014*	*50.00*	*950:95058 - Vehicle Trip Charge*	*Mile*	*$0.52*	*$26.00*
R001	*04/25/2014*	*1.00*	*950:95061 - Test Report*	*Each*	*$23.24*	*$23.24*
				Report Number R001 for a Subtotal of:		*$427.79*

4-1336-419-40-220-043-0-452

GOOD SERVICES RECEIVED BY:

_____ ON _____

INVOICE RECEIVED BY:

_____ ON _____

P.O. 70 7737

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

L&G Engineering Laboratory

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

Report No.	Sampled	Qty	Billing Code	Unit Type	Unit Rate	Extension
R002-28	*04/25/2014*	*4.00*	*920:92034 - Comp. Strength of Cyl. Specimen*	*Each*	*$15.68*	*$62.72*
R002-28	*04/25/2014*	*1.00*	*940:94047 - Eng. Tech. (Concrete / Lab)*	*Each*	*$60.18*	*$60.18*
R002-28	*04/25/2014*	*0.50*	*940:94054 - Engineering Specialist*	*Hour*	*$117.75*	*$58.88*
R002-28	*04/25/2014*	*0.50*	*940:94055 - Engineer / P.E.*	*Hour*	*$150.22*	*$75.11*
R002-28	*04/25/2014*	*1.00*	*950:95061 - Test Report*	*Each*	*$23.24*	*$23.24*
				Report Number R002-28 for a Subtotal of:		*$280.13*
R003	*04/16/2014*	*6.00*	*940:94054 - Engineering Specialist*	*Hour*	*$117.75*	*$706.50*
R003	*04/16/2014*	*100.00*	*950:95058 - Vehicle Trip Charge*	*Mile*	*$0.52*	*$52.00*
R003	*04/16/2014*	*1.00*	*950:95061 - Test Report*	*Each*	*$23.24*	*$23.24*
				Report Number R003 for a Subtotal of:		*$781.74*
					Total for this Invoice:	***$1,489.66***

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

L&G Engineering Laboratory
Construction Material Testing
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2100 W. Expressway 83 Mercedes, TX 78570 (956) 565-0760
900 S. Stewart Rd. Ste. 6 Mission, TX 78572 (956) 583-7117
3388 US Hwy 277 Carrizo Springs, TX (888) 565-9813

REPORT OF SITE VISIT
TEST REPORT

Project Description: Renovations to former Admin. Bldg.
Client: Hidalgo County Pct. #4

L&G Project Number: L1301403
L&G Report Number: R001
Sample Date: 04/25/2014
Date Reported: 04/25/2014

Client PO: 707737

On April 25, 2014, a representative of L&G Engineering Laboratory was dispatched to the Admin. Bldg. Renovation Project to perform inspection on the placement of ready-mixed concrete on Bldg. Pad Patch.

Specimen Number 1 was obtained and tested at 3:00 PM, and the following were determined:

Concrete Temp:	88°f	N/A (Specification)	**Entrapped/Entrained Air Content:**	1.8%	N/A (Specification)
Ambient Temp:	92°f	N/A (Specification)	**Slump:**	3 3/4 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.

On April 28, 2014, 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 Admin. Bldg. Renovation Project. 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 (Gen.) (Hidalgo County Pct. #4)
(Edinburg, TX) Attn: Maria (LuLu) Lucio
(1-cc copy)
1-cc Laboratory

Respectfully Submitted,
L&G Engineering Laboratory

Ricardo A. Gil, Lab Manager

L&G Engineering Laboratory
Construction Material Testing
Geotechnical Engineering

2100 W. Expressway 83 Mercedes, TX 78570 (956) 565-0760
900 S. Stewart Rd. Ste. 6 Mission, TX 78572 (956) 583-7117
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CONCRETE COMPRESSION TEST REPORT

Project Description: Renovations to former Admin. Bldg.
Client: Hidalgo County Pct. #4

L&G Project Number: L1301403
L&G Report Number: R002-28
Sample Date: 04/25/2014
Date Reported: 05/23/2014

Client PO: 707737

Placement Location: Bldg. Pad Patching on New Sewer Liner @ Admin. Bldg.
Mix ID: 3500CGI Supplier: CRM Concrete
Specified Strength: 3,500 P.S.I. @ 28 days
Specified Slump: Max 5 Slump: 3.75"
Specified Air Content: N/A Air Content: 1.8%
Weather Conditions: Hot & Humid Air Temp.: 92°f
Time Batched: 2:30 pm Time Sampled: 3:00 pm Concrete Temp.: 88°f
Plant Ticket No: 433704 Truck No: 260 CY: 10
Water: 11 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	05/02/2014	7	107,530	Type 3	3,800		108.57%
	B	05/02/2014	7	104,565	Type 3	3,700	3,750	105.71%
	C	05/23/2014	28	136,965	Type 3	4,840		138.29%
	D	05/23/2014	28	127,190	Type 3	4,500	4,670	128.57%

Remarks/Comments:
6 x 12 in. Cylinders

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

Respectfully Submitted,
L&G Engineering Laboratory

Ricardo A. Gil, Lab Manager

L&G Engineering Laboratory
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STRUCTURAL/WELDING INSPECTION TEST REPORT

Project Description: Renovations to former Admin. Bldg.
Client: Hidalgo County Pct. #4

L&G Project Number: L1301403
L&G Report Number: R003
Sample Date: 04/16/2014
Date Reported: 04/16/2014

Client PO: 707737

On April 16, 2014, a representative of L&G Engineering Laboratory was dispatched to the former Administration Building Renovation Project Site to perform a Structural/ Welding Inspection along side with Robles Consulting, LLC. A report of the findings is attached herein.

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

Respectfully Submitted,
L&G Engineering Laboratory

Ricardo A. Gil, Lab Manager

Robles Consulting, LLC an AWS Affiliate Company Member
P.O. Box 1231
Rio Hondo, TX 78583
(956) 748-0176 Fax, (956) 245-6774 Cell
roblesconsulting@yahoo.com

Job: L&G-002
County: Hidalgo
File: 01.214102

STRUCTURAL/WELDING INSPECTION REPORT

Consulting Engineer: **L & G Engineering**
Address: **2100 W. Expressway 83**
City: **Mercedes, TX 78570**

Project Name: Former Administration Building Renovation **Date Inspected: 04/16/14**

Prime Contractor: D. Wilson Construction

Contractor: Acero Fab. **Location: Edinburg, TX**

Documents Reviewed:
Electrode to Specification: (X)Yes ( )No ( )N/A
Welders Qualified: (X) Yes ( )No ( ) N/A
Reviewed Drawings: (X) Yes ( )No ( ) N/A

CWI Present: Continuous ( ) Periodic (X)
Weld Procedures Followed: (X)Yes ( )No ( ) N/A
Verified Joint Fit-up: (X)Yes ( )No ( ) N/A
Reviewed WPS: (X)Yes ( )No ( ) N/A

Weld Types Observed:
Fillet Welds 1/8" ( ) 3/16" ( ) ¼" (X) 5/16" ( ) 3/8" Seam Welds ( ) 5/8" Arc Spot Welds ( ) Other ( )
Groove Welds CJP ( ) PJP ( ) Moment Connections ( )
Electrode Type Used: **E7018** Welding Process: **SMAW**

Structural Weld Location Observed/Inspected and Gridlines:
(X) Perimeter Angle to Joists/Beams
( ) Joists to CMU Embeds
( ) Tilt Panels to Footings
( ) Girder to Girder Seats
( ) Columns to Baseplate Embeds
( ) Angle Clip to Beams
( ) Joist to Girder
( ) Joist to Tilt Panel Embed
( ) Tilt Panel to Panel Connections
( ) Continuous Angle to Embeds
( ) Girders to Column Cap Plates
( ) Joists to beams
( ) Joists Seats to Tilt Panel Embeds
(X) Outriggers to Joists and Beams
(X) Angle Braces to Joists/Beams
( ) Horizontal/X-bridging
( ) Bridging Anchored/Welded at Ends
( ) Other

Notes: Inspection of ¾" A325 bolts for snug tight at beam to beam and beam to column connections at 2nd floor framing was performed. Inspection of fastening pattern of floor deck to beam flange and deck angle closures at 2nd floor was performed. Inspection of welds at deck angle welded to beam top flanges was performed. Inspection of welds at WT to columns and angle brace supports welded to beams was performed. Gridlines were not available on drawings for reference. Fastening and welds were acceptable.

Deck Weld Pattern Observed Gridlines:
Deck Type: 24 ga. 0.6C G90 Weld Pattern: N/A Fasteners per Span: 4 ea. No. 10 Tek
Deck to Joists/Beams (X) Deck to Chord Angle (X) Weld Washers: Yes ( ) No ( ) N/A (X)
Deck to Outriggers (X) Deck Fastening (X) Deck Fastening Pattern: 36/4 No. 12 Tek

Inspection performed to visual inspection acceptance criteria as set forth by AWS D 1.1 / AWS D1.3 Structural Welding Code.

Comments: This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations, unless specified or RFI approved.

Applicable Code, Standards: AWS D1.1 (X), 2010 AWS D1.3 ( ), 2008 API ( ) ASME Section IX ( ), Specs (X), RFI ( )

Inspected By: **Raul L. Robles, CWI, CWE** **AWS Certified Welding Inspector / AWS Certified Welding Educator**
Credential Verification: AWS CWI Quick Check

Raul L. Robles CWI 02070431 QC1 EXP. 7/1/2017

Acceptable (X) Unacceptable ( )

Authorized By: **Rick Gil** **Project Manager**