

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

**INVOICE #: 11327809**  
**INVOICE DATE: 09/30/19**

**BILL TO: 34**

Hidalgo County Pct. #1  
 902 Joe Stephens  
 Weslaco, TX 78596

**JOB: 180701**

Mile 10 Project WA#1  
 (From: Mile 6 to FM 1015)  
 PO#796083

<u>DESCRIPTION</u>	<u>CONTRACT</u>	<u>PREVIOUS APPLICATIONS</u>	<u>CURRENT COMPLETED</u>	<u>TOTAL COMPLETED</u>	<u>% COMPL</u>	<u>BALANCE TO FINISH</u>
Engineering services for the month of September 2019.						
Work Authorization #1 - Engineering services required for the completion of the Environmental Document, Public Involvement and Schematic Design.						
10201-Project Coord.	45,000.00	18,000.00	1,800.00	19,800.00	44.0	25,200.00
11002-Schm Rdwy Outf	236,640.00	94,656.00	11,832.00	106,488.00	45.0	130,152.00
11005-Pre Comp Utlty	54,000.00	16,200.00	2,700.00	18,900.00	35.0	35,100.00
11007-Prelim ROW Req	70,000.00	24,500.00	3,500.00	28,000.00	40.0	42,000.00
11008-Schm Updt TxDO	30,000.00	6,000.00		6,000.00	20.0	24,000.00
11009-Pre ROW Outfal	35,000.00	14,000.00	1,750.00	15,750.00	45.0	19,250.00
11011-Traffic Data	18,288.72	18,288.72		18,288.72	100.0	
11012-Intersection	65,000.00	22,750.00	9,750.00	32,500.00	50.0	32,500.00
110110-Traffic Data	21,711.28	21,711.28		21,711.28	100.0	
12002-Pub Invmt (PM)	67,200.00	14,112.00	1,344.00	15,456.00	23.0	51,744.00
12003-Pub Invmt (PH)	27,000.00				0.0	27,000.00
12006-Env Doc TxDOT	135,000.00	22,950.00	4,050.00	27,000.00	20.0	108,000.00
12007-Arch & Hist	12,000.00	1,680.00		1,680.00	14.0	10,320.00
12008-Eng/Pub Mtgs	31,500.00	5,355.00		5,355.00	17.0	26,145.00
12009-Eng/Pub Hearin	22,500.00				0.0	22,500.00
12070-Arch & Hist/SU	18,000.00				0.0	18,000.00
15005-Field Srvy Out	57,345.82	12,616.08		12,616.08	22.0	44,729.74
15006-Field Srvy Rdw	38,909.00	8,559.98	6,458.89	15,018.87	38.6	23,890.13
15007-Sub-Srfce Utlt	35,719.00	7,858.18		7,858.18	22.0	27,860.82
15050-Fld Srvy Out/S	20,836.00	1,044.00		1,044.00	5.0	19,792.00
15060-Field Surveys	135,091.00	23,102.00	29,041.00	52,143.00	38.6	82,948.00
15070-Sub-Surface Ut	50,000.00				0.0	50,000.00
16101-Hydro Map	90,000.00	37,800.00	7,200.00	45,000.00	50.0	45,000.00
16204-Sign Warrants	2,038.53	1,954.95		1,954.95	95.9	83.58
16240-Signal Warrant	51,961.47	49,808.99		49,808.99	95.9	2,152.48
TOTALS:	1,370,740.82	422,947.18	79,425.89	502,373.07	36.6	868,367.75



# R. O. W. Surveying Services, L.L.C.

900 S. Stewart Road, Suite 13  
Mission, Texas 78572  
TBPLS Reg. # 10193886  
956-424-3335

## INVOICE

INVOICE NUMBER : R19-093

Date: September 30, 2019

Our Order No.: R19059

L&G Job No.: 180701

**BILL TO:**

Jacinto Garza, P.E.  
L & G Engineering  
Attn: Carlos Peralez, P.E.  
2100 W. Expressway 83  
Mercedes, Texas 78570

RE: Mile 10 Road Project (Work Authorization No. 46)

Limits: From Mile 6 Road to FM 1015

Hidalgo County Precinct No. 1

Task and Description	Contract Amount	Invoice to Date	Paid to Date	Current Amount Due	Contract Balance	Amount
<b>Function Code 150:</b>						
<b>Phase I - FC 150 Field Surveying (Control Hz &amp; Vt)</b>						
<b>A. Primary Project Control</b>						
a. Establish Primary Control	\$2,477.00	\$2,477.00	\$0.00	\$0.00	\$0.00	100.00%
<b>B. Secondary Project Control</b>						
a. Set Additional Secondary Control Points as Needed	\$2,641.00	\$2,377.00	\$0.00	\$1,056.00	\$264.00	90.00%
b. Horizontal Values Established with RTK or VRS	\$2,641.00	\$2,377.00	\$0.00	\$1,056.00	\$264.00	90.00%
c. Vertical Values Established with Digital Level	\$12,161.00	\$10,945.00	\$0.00	\$9,728.00	\$1,216.00	90.00%
<b>Phase II - DTM Topography and Cross Sections (Total Length including side streets, drain, and irrigation crossings = 4.88 Miles)</b>						
<b>C. Setting Benchmarks</b>						
1. Setting Benchmark @ 1,000' (ft.) intervals	\$3,720.00	\$3,348.00	\$372.00	\$1,488.00	\$372.00	90.00%
2. Topographic & Cross Sections	\$5,032.00	\$1,007.00	\$504.00	\$503.00	\$4,025.00	20.01%
3. Locate Visible Utilities	\$5,032.00	\$1,007.00	\$504.00	\$503.00	\$4,025.00	20.01%
5. Right of Entry, ROW Research, Appraisal Distrist Records	\$1,981.00	\$397.00	\$199.00	\$198.00	\$1,584.00	20.04%
6. Proposed Centerline on Existing Pavement Pre-Construction for Utilities	\$4,010.00	\$802.00	\$0.00	\$802.00	\$3,208.00	20.00%
7. Profile and Cross Section Intersecting Streets	\$9,480.00	\$1,896.00	\$948.00	\$948.00	\$7,584.00	20.00%
10. Tie Existing Underground & Overhead Utilities Coordinate w/Engineer (No SUE)	\$5,077.00	\$1,016.00	\$508.00	\$508.00	\$4,061.00	20.01%
<b>11. Additional Field Surveying</b>						
a. Irrigation Lines	\$4,749.00	\$950.00	\$475.00	\$475.00	\$3,799.00	20.00%
c. Driveways and Turnouts	\$3,792.00	\$759.00	\$380.00	\$379.00	\$3,033.00	20.02%
18. Provide temp. signs, traffic control, flags, safety equip., etc.	\$9,920.00	\$1,984.00	\$992.00	\$992.00	\$7,936.00	20.00%
15. Ties to Existing Bridges/Culverts that may be in conflict w/New Construction	\$2,826.00	\$566.00	\$283.00	\$283.00	\$2,260.00	20.03%
16. Inventory Signs, Mailboxes, & Driveways	\$3,136.00	\$628.00	\$314.00	\$314.00	\$2,508.00	20.03%
17. Survey Control Data Sheets per TxDOT	\$1,156.00	\$232.00	\$0.00	\$232.00	\$924.00	20.07%
18. Recover and Establish Existing CL and ROW	\$11,462.00	\$10,316.00	\$1,147.00	\$5,731.00	\$1,146.00	90.00%
19. Coordinate with Engineer for Existing CL Stationing	\$374.00	\$300.00	\$38.00	\$262.00	\$74.00	80.21%
20. Right of Way Restaking (Pre-Construction)	\$4,626.00	\$0.00	\$0.00	\$0.00	\$4,626.00	0.00%
21. SUE Level A Data Sheets	\$2,968.00	\$0.00	\$0.00	\$0.00	\$2,968.00	0.00%
<b>Final Report &amp; Deliverables</b>						
A. CADD file (2D & 3D) for limits of project	\$4,920.00	\$984.00	\$492.00	\$492.00	\$3,936.00	20.00%
B. Final Report and Deliverables	\$14,980.00	\$2,996.00	\$1,498.00	\$1,498.00	\$11,984.00	20.00%
<b>Project Management and Oversight</b>						
A. Meeting and Coordination w/ Engineers	\$2,590.00	\$777.00	\$259.00	\$259.00	\$1,813.00	30.00%
B. QC/QA Survey	\$13,340.00	\$4,002.00	\$1,334.00	\$1,334.00	\$9,338.00	30.00%
<b>Sub-Total (FC 150)-Field Survey:</b>	<b>\$135,091.00</b>	<b>\$52,143.00</b>	<b>\$10,247.00</b>	<b>\$29,041.00</b>	<b>\$82,948.00</b>	<b>38.60%</b>
<b>Phase III - DTM Topography &amp; Cross Sections Outfalls (Total Length including drain &amp; irrig. crossings approx. 1.3 Miles/7,000 ft. @500 ft per drain ditch &amp; irrig. canal)</b>						
4. Cross Culverts, Driveway Culverts, Inverts	\$3,920.00	\$196.00	\$196.00	\$0.00	\$3,724.00	5.00%
8. Irrigation Crossings	\$3,792.00	\$190.00	\$190.00	\$0.00	\$3,602.00	5.01%
9. Existing Storm Drain H&V	\$4,376.00	\$219.00	\$219.00	\$0.00	\$4,157.00	5.00%
11b. Outfalls	\$2,084.00	\$105.00	\$105.00	\$0.00	\$1,979.00	5.04%
12. Profiles of Existing Drainage Facilities	\$1,896.00	\$95.00	\$95.00	\$0.00	\$1,801.00	5.01%
13. Obtain Elevations of Manholes and Valves of Utilities	\$4,768.00	\$239.00	\$239.00	\$0.00	\$4,529.00	5.01%
<b>Sub-Total (FC 150)-Drainage Outfalls and Irrigation:</b>	<b>\$20,836.00</b>	<b>\$1,044.00</b>	<b>\$1,044.00</b>	<b>\$0.00</b>	<b>\$19,792.00</b>	<b>5.01%</b>
<b>Phase IV - Subsurface Utility Engineering</b>						
1. Hydro Excavation SUE Level A (+/-4.0 miles including drainage outfalls @ 25/mile proposed 100 holes @ \$500.00)	\$50,000.00	\$0.00	\$0.00	\$0.00	\$50,000.00	0.00%
<b>Sub-Total Phase IV~ SUE:</b>	<b>\$50,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$50,000.00</b>	<b>0.00%</b>
<b>GRAND TOTAL:</b>	<b>\$205,927.00</b>	<b>\$53,187.00</b>	<b>\$11,291.00</b>		<b>\$152,740.00</b>	<b>25.83%</b>
			<b>TOTAL DUE:</b>	<b>\$29,041.00</b>		

DIRECT ALL INQUIRIES TO:  
JULIO CERDA, P.E.  
(956)451-2670  
email: julio@southtexasig.com

MAKE ALL CHECKS PAYABLE TO:

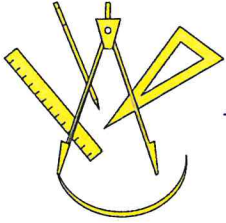
R. O. W. Surveying Services, L.L.C.

Attn: JULIO CERDA, P.E.

900 S. Stewart Road, Suite #13, Mission, Texas 78572

THANK YOU FOR YOUR BUSINESS!

*Julio Cerda*  
9/25/19



# L&G Engineering

October 1, 2019

Transportation Consultants

Hon. David Fuentes  
Hidalgo County Commissioner, Pct. #1  
Attn: Ms. Katia Garcia  
1902 Joe Stevens  
Weslaco, TX 78596

**RE: Mile 10 Project – WA#1**  
**Limits: Mile 6 to FM 1015**  
**PO#796083 - L&G Project#180701**

Dear Commissioner Fuentes:

We are submitting a monthly progress report in sufficient detail to support the progress of the work and in support of a request for payment. Attached for your approval is our invoice for services rendered during the month of September 2019.

The following is attached:

- L & G's Invoice (and sub consultant invoice, if applicable)
- Exhibit C – Work Schedule

**Work Authorization#1 – Engineering services required for the completion of the Environmental Document, Public Involvement and Schematic Design**

		% Complete
<b>FC 10200 – DETERMINE OF LOCAL COST vs STATE COST and AGREEMENTS/AFA WITH TxDOT/LPA COORDINATION</b>		
L&G has completed several cost breakdowns for the City of Weslaco, Hidalgo County and HCDD#1 as this project was created and ICA's were signed by the City of Weslaco and Hidalgo County along with costs for the HCMPO.	L&G	44%
<b>FC 11002 – SCHEMATIC FOR ROADWAY &amp; OUTFALLS</b>		
L&G has begun developing a preliminary best fit alignment. We will continue to develop the schematic in preparation for an upcoming public meeting. The Schematic has been presented to both the City of Weslaco and the County in its preliminary version. Letter was sent from Pct. 1 to TxDOT on July 15, 2019 on funding recommendations for outfalls. L&G has identified HCDD#1 2018 Bond projects. L&G has determined estimated ROW and construction costs for both outfalls.	L&G	45%

<b>FC 11005 – PRELIMINARY COMPENSABLE UTILITIES IDENTIFICATION ON SCHEMATIC (ROADWAY AND OUTFALLS)</b>		
L&G has begun identifying the utilities present on the preliminary schematic from our database. We are currently verifying their existence in the field and coordinating with the individual utility companies for their property interests.	<b>L&amp;G</b>	<b>35%</b>
<b>FC 11007 – OFFICE SURVEYS FOR SCHEMATIC (PREL. OWNERSHIP IDENTIFICATION AND PROPERTY RIGHTS) ROADWAY</b>		
L&G has field verified multiple utilities along the project, uploaded the appraisal district database for property ownership and has begun placing the information on the preliminary schematic	<b>L&amp;G</b>	<b>40%</b>
<b>FC 11008 – UPDATE SCHEMATIC BASED ON COMMENTS AS PROVIDED BY TxDOT / FHWA</b>		
<b>No change from prior invoice.</b> All design and computer files have been generated to fit TxDOT design requirements.	<b>L&amp;G</b>	<b>20%</b>
<b>FC 11009 – OFFICE SURVEYS FOR SCHEMATIC (PREL. OWNERSHIP IDENTIFICATION AND PROPERTY RIGHTS) 1.5 MILES OF OUTFALLS</b>		
Property owners have been mapped and identified on the proposed schematics based on the appraisal district records and preliminary research of deeds. Outfall schematics have been forwarded to HCDD#1 for their concurrence.	<b>L&amp;G</b>	<b>45%</b>
<b>FC 11011 – TRAFFIC DATA REQUEST AS PER TxDOT DIRECTIVE</b>		
L&G executed W.A. with C&M (sub) and have received traffic analysis. L&G have forwarded analysis to TxDOT for their approval. <b>This task is now complete.</b>	<b>L&amp;G</b>	<b>100%</b>
<b>FC 11012 – SCHEMATIC LAYOUT FOR INTERSECTION LAYOUTS (MILE 5 ½, FM 88 Mile 4 ½, Mile 4, Mile 3 ½, FM 1015</b>		
These layouts are being developed for all major intersections. Left turn lanes will be provided at all intersections.	<b>L&amp;G</b>	<b>50%</b>
<b>FC 110110 - TRAFFIC DATA REQUEST AS PER TxDOT DIRECTIVE</b>		
Contract was generated with sub (C&M) and scope of services was identified. C&M has now completed their traffic analysis and have submitted to L&G for review and further processing. <b>This task is now complete.</b>	<b>C&amp;M</b>	<b>100%</b>

<b>FC 12002 – PUBLIC INVOLVEMENT FOR THE PROJECT WITH STAKEHOLDERS AND 1 PUBLIC MEETING</b>		
L&G continues to update and verify the mailing list and update notices, agenda packets, and presentation materials in anticipation of a public meeting.	<b>L&amp;G</b>	<b>23%</b>
<b>FC 12003 – EITHER ADDRESS THE PUBLIC OR HOLD 1 PUBLIC HEARING</b>		
<b>This task has not begun.</b>	<b>L&amp;G</b>	<b>0%</b>
<b>FC 12006 – ENVIRONMENTAL DOCUMENT WITH TxDOT</b>		
L&G continues to update the scoping document, scope development tool, and corresponding attachments with the latest project information.	<b>L&amp;G</b>	<b>20%</b>
<b>FC 12007 - ARCHEOLOGICAL AND HISTORICAL RESEARCH</b>		
<b>No change from prior invoice.</b> L&G continues to update the fact sheet, shapefiles, and map packet with the latest project information to provide to the sub.	<b>L&amp;G</b>	<b>14%</b>
<b>FC 12008 – ENGINEERING TECHNICAL SUPPORT AT PUBLIC MEETINGS WITH LAYOUTS etc.</b>		
<b>No change from prior invoice.</b> A number of preliminary layouts have been presented to the City of Weslaco, the County and HCDD#1.	<b>L&amp;G</b>	<b>17%</b>
<b>FC 12009 – ENGINEERING TECHNICAL SUPPORT TO ADDRESS PUBLIC HEARING WITH LAYOUTS etc.</b>		
<b>This task has not begun</b>	<b>L&amp;G</b>	<b>0%</b>
<b>FC 12070 – ARCHEOLOGICAL AND HISTORICAL RESEARCH / SUB</b>		
<b>This task has not begun</b>	<b>AmaTerra</b>	<b>0%</b>
<b>FC 15005 – FIELD SURVEYS FOR DESIGN AND CONSTRUCTION OF OUTFALLS</b>		
<b>No change from prior invoice.</b> Contracts and cost proposals have been completed for this task with subs.	<b>L&amp;G</b>	<b>22%</b>
<b>FC 15006 – FIELD SURVEYS FOR DESIGN AND CONSTRUCTION OF ROADWAY</b>		
L&G Engineering has completed the design survey contracts with the surveyor and identified limits of the surveys and outfalls. The surveyor was provided with a preliminary schematic for their reference and limits of the various outfalls identified. L&G has reviewed all survey work completed to date for accuracy.	<b>L&amp;G</b>	<b>38.6%</b>

<b>FC 15007 – SUB-SURFACE UTILITY ENGINEERING (SUE) 25 POT HOLES / MILE</b>		
<b>No change from prior invoice.</b> Contracts and cost proposals have been completed for this task with subs.	<b>L&amp;G</b>	<b>22%</b>
<b>FC 15050 - FIELD SURVEYS FOR DESIGN AND CONSTRUCTION OF OUTFALLS / SUB</b>		
<b>No change from prior invoice.</b> ROWSS (sub) has begun preliminary work on outfalls.	<b>ROWSS</b>	<b>5%</b>
<b>FC 15060 - FIELD SURVEYS FOR DESIGN AND CONSTRUCTION OF ROADWAY / SUB</b>		
ROWSS (sub) has performed the following to date: <ul style="list-style-type: none"> <li>• Began establishing primary and secondary control</li> <li>• Completed BM's throughout the project. Has provided Vertical Control sheets</li> <li>• In the process of recovering existing ROW</li> <li>• In the process of establishing/recovering existing centerline of roadway.</li> </ul>	<b>ROWSS</b>	<b>38.6%</b>
<b>FC 15070 - SUB-SURFACE UTILITY ENGINEERING (SUE) 25 POT HOLES / MILE / SUB</b>		
<b>This task has not begun.</b>	<b>ROWSS</b>	<b>0%</b>
<b>FC 16101 – HYDROLOGICAL MAP FOR 4 OUTFALL DRAIN DITCHES (OUTFALL AND CAPACITIES)</b>		
L&G has begun developing a preliminary Hydrologic Map. We will continue to develop the Hydrologic Map in preparation for the upcoming public meeting.	<b>L&amp;G</b>	<b>50%</b>
<b>FC 16204 – TRAFFIC SIGNAL WARRANTS (6 LOCATIONS)</b>		
<b>No change from prior invoice.</b> Contract has been executed with Sub ETSI and scope of services was identified. ETSI was provided with a preliminary schematic and digital file for their reference. L&G has reviewed Warrant studies and has included recommendations on schematic.	<b>L&amp;G</b>	<b>95.9%</b>
<b>FC 16240 – TRAFFIC SIGNAL WARRANTS (6 LOCATIONS) / SUB</b>		
<b>No change from prior invoice.</b> E.T.S.I. (sub) is approximately 96% complete with their Traffic Signal and Multi-Way Stop Warrant Study. The following tasks have been performed: <ul style="list-style-type: none"> <li>* Collection of data and conduction of field investigations</li> <li>* Assessment of collected data</li> <li>* Accident data and analysis</li> <li>* Collision diagrams</li> <li>* Intersection exhibits</li> <li>* Warrant Analysis</li> <li>* Photo Album</li> <li>* Recommendations</li> <li>* Warrant Study Report</li> </ul>	<b>ETSI</b>	<b>95.9%</b>

Should you have any questions or require additional information, please do not hesitate to give me a call at (956) 585-1909.

Sincerely,

A handwritten signature in blue ink that reads "Carlos Peralez, P.E." with a stylized flourish at the end.

Carlos Peralez, P.E.  
Project Manager

