

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

**INVOICE #: 11328781**  
**INVOICE DATE: 11/30/21**

**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 November 2021.						
Work Authorization #1 - Engineering services required for the completion of the Environmental Document, Public Involvement and Schematic Design.						
10201-Project Coord.	45,000.00	45,000.00		45,000.00	100.0	
11002-Schm Rdwy Outf	236,640.00	234,273.60		234,273.60	99.0	2,366.40
11005-Pre Comp Utlty	54,000.00	52,920.00		52,920.00	98.0	1,080.00
11007-Prelim ROW Req	70,000.00	70,000.00		70,000.00	100.0	
11008-Schm Updt TxDO	30,000.00	9,000.00	6,000.00	15,000.00	50.0	15,000.00
11009-Pre ROW Outfal	35,000.00	35,000.00		35,000.00	100.0	
11011-Traffic Data	18,288.72	18,288.72		18,288.72	100.0	
11012-Intersection	65,000.00	63,700.00		63,700.00	98.0	1,300.00
110110-Traffic Data	21,711.28	21,711.28		21,711.28	100.0	
12002-Pub Invmt (PM)	67,200.00	45,784.05	1,255.95	47,040.00	70.0	20,160.00
12003-Pub Invmt (PH)	27,000.00				0.0	27,000.00
12006-Env Doc TxDOT	135,000.00	54,000.00	2,700.00	56,700.00	42.0	78,300.00
12007-Arch & Hist	12,000.00	3,120.00	480.00	3,600.00	30.0	8,400.00
12008-Eng/Pub Mtgs	31,500.00	17,325.00	1,575.00	18,900.00	60.0	12,600.00
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	43,009.37		43,009.37	75.0	14,336.45
15006-Field Srvy Rdw	38,909.00	30,777.02		30,777.02	79.1	8,131.98
15007-Sub-Srfce Utlt	35,719.70	17,859.50	3,572.32	21,431.82	60.0	14,287.88
15050-Fld Srvy Out/S	20,836.00	15,627.00		15,627.00	75.0	5,209.00
15060-Field Surveys	135,091.00	106,818.00		106,818.00	79.1	28,273.00
15070-Sub-Surface Ut	50,000.00	7,500.00	10,000.00	17,500.00	35.0	32,500.00
16101-Hydro Map	90,000.00	88,200.00		88,200.00	98.0	1,800.00
16204-Sign Warrants	2,038.53	2,038.53		2,038.53	100.0	
16240-Signal Warrant	51,961.47	51,961.47		51,961.47	100.0	
TOTALS:	1,370,741.52	1,033,913.54	25,583.27	1,059,496.81	77.3	311,244.71

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

DESCRIPTION	CONTRACT	PREVIOUS APPLICATIONS	CURRENT COMPLETED	TOTAL COMPLETED	% COMPL	BALANCE TO FINISH
			ORIGINAL CONTRACT SUM			\$ 1,370,741.52
			CHANGE BY CHANGE ORDER			\$ 0.00
			CONTRACT SUM TO DATE			\$ 1,370,741.52
			TOTAL COMPLETED TO DATE			\$ 1,059,496.81
			LESS PREVIOUS INVOICES			\$ 1,033,913.54
			CURRENT PAYMENT DUE			\$ 25,583.27



PROJECT MANAGER'S SIGNATURE

# 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 : R21-073  
Date: November 29, 2021  
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

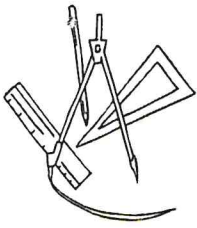
Task and Description	Contract Amount	Invoice to Date	Paid to Date	Current Amount Due	Contract Balance	Amount
<b>Function Code 150:</b>						
<b>Phase I - FC 150 Field Surveying (Control Hz &amp; Vt)</b>						
<b>A. Primary Project Control</b>						
a. Establish Primary Control	\$2,477.00	\$2,477.00	\$2,477.00	\$0.00	\$0.00	100.00%
<b>B. Secondary Project Control</b>						
a. Set Additional Secondary Control Points as Needed	\$2,641.00	\$2,641.00	\$2,641.00	\$0.00	\$0.00	100.00%
b. Horizontal Values Established with RTK or VRS	\$2,641.00	\$2,641.00	\$2,641.00	\$0.00	\$0.00	100.00%
c. Vertical Values Established with Digital Level	\$12,161.00	\$12,161.00	\$12,161.00	\$0.00	\$0.00	100.00%
<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	\$3,720.00	\$3,720.00	\$0.00	\$0.00	100.00%
2. Topographic & Cross Sections	\$5,032.00	\$3,774.00	\$3,774.00	\$0.00	\$1,258.00	75.00%
3. Locate Visible Utilities	\$5,032.00	\$3,774.00	\$3,774.00	\$0.00	\$1,258.00	75.00%
5. Right of Entry, ROW Research, Appraisal District Records	\$1,981.00	\$1,486.00	\$1,486.00	\$0.00	\$495.00	75.01%
6. Proposed Centerline on Existing Pavement Pre-Construction for Utilities	\$4,010.00	\$3,008.00	\$3,008.00	\$0.00	\$1,002.00	75.01%
7. Profile and Cross Section Intersecting Streets	\$9,480.00	\$7,110.00	\$7,110.00	\$0.00	\$2,370.00	75.00%
10. Tie Existing Underground & Overhead Utilities Coordinate w/Engineer (No SUE)	\$5,077.00	\$3,808.00	\$3,808.00	\$0.00	\$1,269.00	75.00%
11. Additional Field Surveying						
a. Irrigation Lines	\$4,749.00	\$3,562.00	\$3,562.00	\$0.00	\$1,187.00	75.01%
c. Driveways and Turnouts	\$3,792.00	\$2,844.00	\$2,844.00	\$0.00	\$948.00	75.00%
18. Provide temp, signs, traffic control, flags, safety equip., etc.	\$9,920.00	\$7,440.00	\$7,440.00	\$0.00	\$2,480.00	75.00%
15. Ties to Existing Bridges/Culverts that may be in conflict w/New Construction	\$2,826.00	\$2,120.00	\$2,120.00	\$0.00	\$706.00	75.02%
16. Inventory Signs, Mailboxes, & Driveways	\$3,136.00	\$2,352.00	\$2,352.00	\$0.00	\$784.00	75.00%
17. Survey Control Data Sheets per TxDOT	\$1,156.00	\$867.00	\$867.00	\$0.00	\$289.00	75.00%
18. Recover and Establish Existing CL and ROW	\$11,462.00	\$10,316.00	\$10,316.00	\$0.00	\$1,146.00	90.00%
19. Coordinate with Engineer for Existing CL Stationing	\$374.00	\$374.00	\$374.00	\$0.00	\$0.00	100.00%
20. Right of Way Restaking (Pre-Construction)	\$4,626.00	\$3,470.00	\$3,470.00	\$0.00	\$1,156.00	75.01%
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	\$3,690.00	\$3,690.00	\$0.00	\$1,230.00	75.00%
B. Final Report and Deliverables	\$14,980.00	\$11,235.00	\$11,235.00	\$0.00	\$3,745.00	75.00%
<b>Project Management and Oversight</b>						
A. Meeting and Coordination w/ Engineers	\$2,590.00	\$1,943.00	\$1,943.00	\$0.00	\$647.00	75.02%
B. QC/QA Survey	\$13,340.00	\$10,005.00	\$10,005.00	\$0.00	\$3,335.00	75.00%
<b>Sub-Total (FC 150)-Field Survey:</b>	<b>\$135,091.00</b>	<b>\$106,818.00</b>	<b>\$106,818.00</b>	<b>\$0.00</b>	<b>\$28,273.00</b>	<b>79.07%</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	\$2,940.00	\$2,940.00	\$0.00	\$980.00	75.00%
8. Irrigation Crossings	\$3,792.00	\$2,844.00	\$2,844.00	\$0.00	\$948.00	75.00%
9. Existing Storm Drain H&V	\$4,376.00	\$3,282.00	\$3,282.00	\$0.00	\$1,094.00	75.00%
11b. Outfalls	\$2,084.00	\$1,563.00	\$1,563.00	\$0.00	\$521.00	75.00%
12. Profiles of Existing Drainage Facilities	\$1,896.00	\$1,422.00	\$1,422.00	\$0.00	\$474.00	75.00%
13. Obtain Elevations of Manholes and Utility Valves	\$4,768.00	\$3,576.00	\$3,576.00	\$0.00	\$1,192.00	75.00%
<b>Sub-Total (FC 150)-Drainage Outfalls and Irrigation:</b>	<b>\$20,836.00</b>	<b>\$15,627.00</b>	<b>\$15,627.00</b>	<b>\$0.00</b>	<b>\$5,209.00</b>	<b>75.00%</b>
<b>Phase IV - Subsurface Utility Engineering</b>						
I. Hydro Excavation SUE Level A (+/-4.0 miles including drainage outfalls @ 25/mile proposed 100 holes @ \$500.00)	\$50,000.00	\$17,500.00	\$7,500.00	\$10,000.00	\$32,500.00	35.00%
<b>Sub-Total Phase IV~ SUE:</b>	<b>\$50,000.00</b>	<b>\$17,500.00</b>	<b>\$7,500.00</b>	<b>\$10,000.00</b>	<b>\$32,500.00</b>	<b>35.00%</b>
<b>GRAND TOTAL:</b>	<b>\$205,927.00</b>	<b>\$139,945.00</b>	<b>\$129,945.00</b>		<b>\$65,982.00</b>	<b>67.96%</b>
<b>TOTAL DUE:</b>				<b>\$10,000.00</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

*[Handwritten Signature]*  
4/29/21

THANK YOU FOR YOUR BUSINESS!



Hon. David Fuentes  
Hidalgo County Commissioner, Pct. #1  
**Attn: Amy Saenz-Smith or Erica Espinoza**  
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 request for payment. Attached for your approval is our invoice for services rendered during this billing period.

The following is attached:

- L&G's Invoice
- Exhibit C – Work Schedule

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

		<b>% Complete</b>
<b>FC 10200 – DETERMINE OF LOCAL COST vs STATE COST and AGREEMENTS/AFA WITH TxDOT/LPA COORDINATION</b>		
An updated Mile 10 AFA has been executed by the County. <b>This task is now complete.</b>	<b>L&amp;G</b>	<b>100%</b>
<b>FC 11002 – SCHEMATIC FOR ROADWAY &amp; OUTFALLS</b>		
L&G continues to develop the roadway and outfall schematics for submittal to TxDOT. The outfall schematics were updated based on the updated survey. Storm drain profile and proposed culvert crossings were updated based on preliminary hydraulic analyses and intersecting street (Mile 6 and FM1015) reference plans. L&G has prepared schematics for an environmental scoping meeting held September 9 <sup>th</sup> , 2021 and a Pre-DCC held October 4 <sup>th</sup> , 2021. Comments from these meetings were evaluated and revised typical sections sent to TxDOT for approval. Upon favorable response, L&G shall incorporate into the schematic in preparation for DCC, and Public Meeting.	<b>L&amp;G</b>	<b>99%</b>

<b>FC 11005 – PRELIMINARY COMPENSABLE UTILITIES IDENTIFICATION ON SCHEMATIC (ROADWAY AND OUTFALLS)</b>		
<p>L&amp;G has been coordinating with our surveyor to tie down compensable utilities along the roadway and outfalls. SUE data collected will be shown on the schematic as it becomes available. Irrigation and High voltage transmission lines have been identified and called out on the schematics accordingly. Field visits were made to the project and pictures were taken of the visible utilities located on the project. Letters were sent to the utilities to inform them of the project and to request any additional information they may have for their lines. The gas company provided information on the location of their crossings. L&amp;G coordinated with the gas companies and the surveyor in order to tie down the crossings (SUE Data). L&amp;G has coordinated with City of Weslaco for water and sewer within the project limits and has incorporated info into the schematics. L&amp;G has coordinated with HCCID9 to identify/confirm property interest along the project corridor. A coordination meeting with HCCID9 was held October 12<sup>th</sup>, 2021 to discuss proposed irrigation line / easement considerations.</p> <p><b>No change from prior invoice.</b></p>	<b>L&amp;G</b>	<b>98%</b>
<b>FC 11007 – OFFICE SURVEYS FOR SCHEMATIC (PREL. OWNERSHIP IDENTIFICATION AND PROPERTY RIGHTS) ROADWAY</b>		
<p><b>This task is now complete.</b></p>	<b>L&amp;G</b>	<b>100%</b>
<b>FC 11008 – UPDATE SCHEMATIC BASED ON COMMENTS AS PROVIDED BY TxDOT / FHWA</b>		
<p>All design and computer files have been generated to fit TxDOT design requirements.</p>	<b>L&amp;G</b>	<b>50%</b>
<b>FC 11009 – OFFICE SURVEYS FOR SCHEMATIC (PREL. OWNERSHIP IDENTIFICATION AND PROPERTY RIGHTS) 1.5 MILES OF OUTFALLS</b>		
<p><b>This task is complete.</b></p>	<b>L&amp;G</b>	<b>100%</b>
<b>FC 11011 – TRAFFIC DATA REQUEST AS PER TxDOT DIRECTIVE</b>		
<p><b>This task is complete.</b></p>	<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>		
<p>Intersection Layouts have been updated using the latest TIN, TOPO, and ROW. The intersection configuration of Mile 10 at Mile 5 ½ has been updated to account for an existing irrigation line running parallel to Mile 10 on the south side. The EB right-turn lane was removed as a result. This update has been incorporated into the</p>	<b>L&amp;G</b>	<b>98%</b>

schematic in preparation for submittal to TxDOT. Per TxDOT comments from the Environmental Scoping meeting, alternative typical sections incorporating new TxDOT guidance on bicycle facilities is being evaluated. L&G will revise upon TxDOT approval of revised typical sections (Letter sent from County October 7, 2021).		
<b>FC 110110 - TRAFFIC DATA REQUEST AS PER TxDOT DIRECTIVE</b>		
<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>		
<b>UPDATE:</b> The Env group will continue to update the public involvement documentation packet, draft PowerPoint presentation and notices as changes to the schematic occur in anticipation of the upcoming mock public meeting with TxDOT as well as update the property owner and public official’s mailing list.	<b>L&amp;G</b>	<b>70%</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>		
<b>UPDATE:</b> L&G is in the process of preparing technical reports.	<b>L&amp;G</b>	<b>42%</b>
<b>FC 12007 - ARCHEOLOGICAL AND HISTORICAL RESEARCH</b>		
<b>UPDATE:</b> L&G is preparing right-of-entry letters to affected property owners for upcoming archeological surveys.	<b>L&amp;G</b>	<b>30%</b>
<b>FC 12008 – ENGINEERING TECHNICAL SUPPORT AT PUBLIC MEETINGS WITH LAYOUTS etc.</b>		
<b>UPDATE:</b> L&G continues to update the schematic, proposed typical sections and ROW taking as it affects the irrigation district in anticipation of an upcoming mock and public meeting.	<b>L&amp;G</b>	<b>60%</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>		
L&G has received and reviewed approx. 75% of survey work for the outfalls. Comments were generated and provided to ROWSS for updating. <b>No change from prior invoice.</b>	<b>L&amp;G</b>	<b>75%</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>No change from prior invoice.</b>	<b>L&amp;G</b>	<b>79.1%</b>
<b>FC 15007 – SUB-SURFACE UTILITY ENGINEERING (SUE) 25 POT HOLES / MILE</b>		
<b>UPDATE:</b> Coordination with the surveyor continues so that we can complete the SUE data collection. Critical utilities along the project corridor were identified by L&G and provided to the Surveyor for SUE – Level A. L&G continues to update schematic with latest utility info as it is received.	<b>L&amp;G</b>	<b>60%</b>
<b>FC 15050 - FIELD SURVEYS FOR DESIGN AND CONSTRUCTION OF OUTFALLS / SUB</b>		
ROWSS (sub) has completed approx. 75% of survey for Outfalls 1 and 4. <b>No change from prior invoice.</b>	<b>ROWSS</b>	<b>75%</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>• Establishing primary and secondary control</li> <li>• Completed BM's throughout the project. Has provided Vertical Control sheets</li> <li>• Has recovered existing ROW</li> <li>• Has recovered existing centerline of roadway.</li> <li>• Has collected approx. 80% of topo and DTM.</li> </ul> <b>No change from prior invoice.</b>	<b>ROWSS</b>	<b>79.1%</b>
<b>FC 15070 - SUB-SURFACE UTILITY ENGINEERING (SUE) 25 POT HOLES / MILE / SUB</b>		
<b>UPDATE:</b> Hydro excavation of 35 holes has been completed. Electronic data has been updated in DGN format in preparation for submittal to L&G Engineering. We continue to advance the SUE process.	<b>ROWSS</b>	<b>35%</b>

<b>FC 16101 – HYDROLOGICAL MAP FOR 4 OUTFALL DRAIN DITCHES (OUTFALL AND CAPACITIES)</b>		
A Hydraulic Report has been completed. It has been updated for comments that were received from TxDOT on a similar project (Mile 6 W). L&G is preparing to submit report and map to TxDOT in preparation of Environmental Scoping Meeting, DCC, and Public Meeting. <b>No change from prior invoice.</b>	<b>L&amp;G</b>	<b>98%</b>
<b>FC 16204 – TRAFFIC SIGNAL WARRANTS (6 LOCATIONS)</b>		
<b>This task is now complete.</b>	<b>L&amp;G</b>	<b>100%</b>
<b>FC 16240 – TRAFFIC SIGNAL WARRANTS (6 LOCATIONS) / SUB</b>		
<b>This task is now complete.</b>	<b>ETSI</b>	<b>100%</b>

Should you have any questions or require additional information, please do not hesitate to give me a call at (956) 565-9813 or Jordan Sinclair at (956) 585-1909.

Sincerely,

  
Jordan Sinclair, P.E.  
Project Manager

