



L&G Engineering

Transportation Consultants

June 1, 2018



Commissioner Joseph Palacios
 Hidalgo County Precinct 4
 1051 N. Doolittle Rd
 Edinburg, TX 78542

**RE: 10th Street Extension - Work Authorization No. 2 - Limits: SH 107 to FM 1925
 PO#700265 - L&G Project#120902**

Dear Commissioner Palacios:

Attached for your approval is our invoice for services rendered under this work authorization for the month of May 2018.

Attached to this progress report is:

- L & G's Invoice
- Work Schedule

The following is the status for the Work Authorization and Supplemental's listed below:

Work Authorization#2 – Preparation of the PS&E

- 100% complete
- *Suppl. #1 to Work Auth. #2 – Additional Traffic Signal & Two Traffic Warrants*
 - 100% complete
- *Suppl. #2 to Work Auth. #2 – Phase III Right-of-Way Acquisition*
 - 100% complete
- *Suppl. #3 to Work Auth. #2 – Provide Compensable Utility Oversight*
 - 100% complete
- *Suppl. #4 to Work Auth. #2 – Abatement and Demolition of Guardhouse and Wall*
 - 100% complete

Below is a narrative for the Supplemental identified below:

- **Suppl. #5 to Work Auth. #2 – Construction Management, Construction Inspection and Construction Material Testing**

		% Complete
FC 32001 – CONSTRUCTION INSPECTION		
L&G inspector is on the project on a daily basis monitoring construction progress and making sure work is being performed in compliance with TxDOT and LGPP requirements. L&G continues to coordinate with TxDOT on the on-going progress of project. The contractor is currently working on Roadway Excavation and Embankment, placement of Drainage Structures, Lime treatment of Subgrade, Jack	L&G	20%

& Bore of 24" Pipe, Bridge Piling operations, MC-30, Seal Coat and HMA CP placement.		
FC 32002 – CONSTRUCTION MANAGEMENT		
L&G continues to process a monthly estimate to be used for monthly submittals to Hidalgo County Pct #4 and TxDOT. L&G continues to maintain project record in compliance with LGPP requirements. L&G has been developed Change Order #2 requesting additional work items requested by Hidalgo County Irrigation District #1. The change order has been approved by TxDOT and Hidalgo County Commissioner's Court.	L&G	20% ✓
FC 32030 – CONSTRUCTION QC/QA		
B2Z, Rosendo Garcia, has reviewed project files for completeness and organization. Rosendo has obtained and reviewed a copy of the project Sampling and Testing Guide Schedule. Mr. Garcia has visited the project barricades and bulletin board. Mr. Garcia makes notes of items for discussion. Discussions are held between B2Z and L&G Construction Group to discuss findings. See B2Z's progress report for additional details.	B2Z	20% ✓
FC 33004 – MATERIAL TESTING		
L&G lab has sampled and tested flex base material. Material for sand backfill was sampled and tested. L&G has coordinated with TxDOT on approving HMA CP and Concrete designs and suppliers.	L&G	20% ✓

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

Sincerely,

Ricardo Gallaga., P.E.
Project Manager
Attachments

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

INVOICE#: 11326969
INVOICE DATE: 5/31/2018

BILL TO: 84
Hidalgo County Pct. #4
x/o Commissioner Joseph Palacios
1051 N. Doolittle Rd.
Edinburg, TX 78541

JOB: 120902
10th Street Extension Project
WA#2, PO#700265
C-12-126-10-16

DESCRIPTION	CONTRACT	PREVIOUS APPLICATIONS	CURRENT COMPLETED	TOTAL COMPLETED	% COMPL	BALANCE TO FINISH
Engineering services for the month of May 2018.						
Work Authorization #2 - Preparation of the PS&E						
15001-Field Survey	45,001.00	45,001.00		45,001.00	100.0	-
15010-Field Srvy/SUB	80,000.00	80,000.00		80,000.00	100.0	-
16001-Rdwy Dsgn	799,217.00	799,217.00		799,217.00	100.0	-
16002-Rdwy Dsgn-Outfall	48,000.00	48,000.00		48,000.00	100.0	-
16205-Sign,Marki,Dsg	59,721.00	59,721.00		59,721.00	100.0	-
16250-Sig\ Dsgn-SUB	60,281.00	60,281.00		60,281.00	100.0	-
16308-Permted Utility	95,000.00	95,000.00		95,000.00	100.0	-
	<u>1,187,220.00</u>	<u>1,187,220.00</u>	0.00	<u>1,187,220.00</u>	100.0	-
Supplemental #1 to Work Authorization #2 - Additional Traffic Signal & Two Warrants						
16205-Signal Design	5,001.00	5,001.00		5,001.00	100.0	-
16250-Signal Dsgn/SUB	24,977.60	24,977.60		24,977.60	100.0	-
	<u>29,978.60</u>	<u>29,978.60</u>	0.00	<u>29,978.60</u>	100.0	-
Supplemental #2 to Work Authorization #2 - Phase III Right-of-Way Acquisition						
6000-ROW Acquisition	380,800.00	380,800.00		380,800.00	100.0	-
60100-Title Services	38,400.00	38,400.00		38,400.00	100.0	-
60200-Appraisal Serv	32,000.00	32,000.00		32,000.00	100.0	-
60210-Appraisal Srv/SUB	144,000.00	144,000.00		144,000.00	100.0	-
60300-Appraisal Rvw	22,400.00	22,400.00		22,400.00	100.0	-
60310-Apprsal Rvw/SUB	28,800.00	28,800.00		28,800.00	100.0	-
60400-Parcel Negtion	224,000.00	224,000.00		224,000.00	100.0	-
60500-Clsng Srvs Fee	12,800.00	12,800.00		12,800.00	100.0	-
Sub Total	<u>883,200.00</u>	<u>883,200.00</u>	0.00	<u>883,200.00</u>	100.0	-
Supplemental #3 to Work Authorization #2 - Provide Compensable Utility Oversight						
60101-Comp Utily Mgmt	135,000.00	135,000.00		135,000.00	100.0	-
Supplemental #4 to Work Authorization #2 - Abatement and Demolition of Guardhouse and Wall						
12006-Asbestos Abate	10,066.94	10,066.94		10,066.94	100.0	-
12050-Abatement/ SUB	6,870.00	6,870.00		6,870.00	100.0	-
12060-Asbestos Abate/ SUB	27,940.00	27,940.00		27,940.00	100.0	-
13002-ROW Map	5,018.88	5,018.88		5,018.88	100.0	-
13020-ROW Map/ SUB	3,189.00	3,189.00		3,189.00	100.0	-
15007-Sub-Surface Utility Eng.	5,018.88	5,018.88		5,018.88	100.0	-
15070-Sub-Surface Utility Eng/SUB	19,752.00	19,752.00		19,752.00	100.0	-
15008-Dsgn Chnge Cal	40,085.14	40,085.14		40,085.14	100.0	-
Sub Total	<u>117,940.84</u>	<u>117,940.84</u>	0.00	<u>117,940.84</u>	100.0	-

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2100 W. Expressway 83
Mercedes, TX 78570
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INVOICE#: 11326969
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BILL TO: 84
Hidalgo County Pct. #4
x/o Commissioner Joseph Palacios
1051 N. Doolittle Rd.
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JOB: 120902
10th Street Extension Project
WA#2, PO#700265
C-12-126-10-16

DESCRIPTION	CONTRACT	PREVIOUS APPLICATIONS	CURRENT COMPLETED	TOTAL COMPLETED	% COMPL	BALANCE TO FINISH
Supplemental #5 to Work Authorization #2 - Construction Management, Construction Inspection and Construction Material Testing						
32001-Construction Inspection	599,040.96	71,884.92	47,923.27	119,808.19	20.0	479,232.77
32003-Construction Management	316,287.90	37,954.55	25,303.03	63,257.58	20.0	253,030.32
32030-Construction QC/QA	79,230.36	9,507.64	6,338.43	15,846.07	20.0	63,384.29
33004-Material Testing	186,639.37	22,396.72	14,931.15	37,327.87	20.0	149,311.50
	<u>1,181,198.59</u>	<u>141,743.83</u>	<u>94,495.88</u>	<u>236,239.71</u>	20.0	<u>944,958.88</u>
TOTAL:	<u><u>3,534,538.03</u></u>	<u><u>2,495,083.27</u></u>	<u><u>94,495.88</u></u>	<u><u>2,589,579.15</u></u>	73.3	<u><u>944,958.88</u></u>

ORIGINAL CONTRACT SUM	\$	1,187,220.00
CHANGE BY CHANGE ORDER	\$	2,347,318.03
CONTRACT SUM TO DATE	\$	3,534,538.03
TOTAL COMPLETED TO DATE	\$	2,589,579.15
LESS PREVIOUS INVOICES	\$	2,495,083.27
CURRENT PAYMENT DUE	\$	<u>94,495.88</u>


PROJECT MANAGER'S SIGNATURE

May 26, 2018

Mr. Ricardo Gallaga, P.E.
 Project Manager ~ L&G Consulting Engineers, Inc.
 2100 W. Expressway 83
 Mercedes, Texas 78570

**RE: Work Authorization #45 for Construction Inspection & CMT
 10th Street Construction Management
 Invoice No. 3268 (Job #152780)
 CSJ: 0921-02-300**

Dear Mr. Gallaga:

Attached for your review and approval is our invoice for services rendered during the month of May 2018 on the subject referenced project.

The following is attached:

- Invoice No. 3284 (Job #152780)

The following is a narrative of the progress for this period.

TASK	
(1) FC 32010 – Construction Management (B2Z Engineering) QC/QA Construction Inspection QC/QA Material Testing	<u>% Complete = 20.0%</u>
<p>Updated – B2Z conducted a detailed review of the below referenced file folders produced by L&G and offer the following:</p> <p><u>Project Files:</u> B2Z has continued review of the up-to-date project files and has found them to be well organized for effective project management tracking items activity and general project requirements.</p> <p><u>On-Site Inspection (QC/QA):</u></p> <p><u>Field Visit (5-3-18)</u> – B2Z noted the following while driving the project with L&G Chief Inspector Jose Luis Garcia:</p> <ul style="list-style-type: none"> • Subgrade – <ul style="list-style-type: none"> ➤ Contractor had scarified subgrade from beginning of project on east side to around Sta. 105 preparing to get rid of excess moisture after recent rains and prepare for the addition of lime. ➤ Contractor was pulverizing limed subgrade to set on west side from north of Chapin Rd. to about Sta. 165. The east side had been limed and set within these limits. ➤ Starting from about Sta. 165 on east side, contractor had excavator rough cutting to subgrade elevation and loading trucks at time of visit just south of Russell Rd. • Flex Base – <ul style="list-style-type: none"> ➤ Bottom 6” had been cement stabilized from around Sta. 106+50 (where C&G had started on the west side) to around Sta. 125 just south of Schunior. ➤ Top 4” had been delivered and spread but not yet stabilized and compacted from around Sta. 108+00 (where C&G had started on the east side) to old cross street (San Lorraine St.) at around Sta. 115. 	

- From north of Sta. 116 to approx. Sta. 125 on west side south of Schunior, contractor was mixing in cement (into top 4") that had just been placed and sprinkled. The top 4" on the east side within these limits had already been cement treated and set.
- Curb and Gutter (C&G) – Had been done from approx. Sta. 106+50 (Lt.) and Sta. 108+00 (Rt.) to just south of Schunior at Sta. 125. C&G exhibited good workmanship.
- Sidewalk – Contractor had started forming for sidewalk south of Schunior on east side to around Sta. 115 and was in the process of placing the wire mesh.
- Bridge (West Main Drain Ditch) – Contractor had driven the piling on Abutment #1, and Bent #2. At time of visit contractor was drilling the pilot holes for Bent #3. Calpine was still working in the canal area and had open and uncovered installation of their PVC line.
- Erosion/Silt Control Devices – Need to install silt control protection on new inlets partially covered or not yet covered. Rock filter dams at canals have partially failed under water pressure and need maintenance.

Field Visit (5-14-18) – B2Z noted the following while driving the project:

- Drainage Structures – Contractor was compacting (with roller in the trench) 42" RC Pipe draining into drain ditch on northeast side just outside of first piling for Abutment #4. Contractor was also installing the 18" RC Pipe on the southwest side along Chapin.
- Subgrade –
 - The scarified area at the beginning of the project (to around Sta. 105) noted last week had been limed and compacted.
 - Between Chapin and Russell - West side subgrade had been limed to around Sta. 175, and contractor had started pulverizing the limed subgrade from around Sta. 173 to Russell Rd on east side.
 - Contractor was excavating to subgrade from just south of Chapin on west side and hauling off excess material to northeast corner at FM 1925.
 - Contractor was excavating to subgrade from Russell Rd. north to about halfway between Russell Rd and canal (located at about Sta. 192).
- Flex Base –
 - Contractor was dumping flex base (for the bottom 6") from beginning of the project to approx. Sta. 105 just south of where subgrade and Curb and Gutter work had previously started.
 - Contractor was finishing top 4" on west side from approx. Sta. 106+50 (Lt.) (C&G starts) to approx. Sta. 115 (Lorraine St.). The east side had been finished within these limits starting at around Sta. 108 where C&G construction started on east side.
 - Contractor had placed raw base for bottom 6" on west side from Chapin to around Sta. 165.
- MC -30 – Had been placed on finished flex base from around Sta. 115 to Sta. 125 just south of Schunior.
- Sidewalk – Except for leave outs at driveways and at canal (east side), sidewalk construction had been substantially completed on both sides from where C&G had started (approx. Sta. 106+50 (Lt.) and Sta. 108+00 (Rt.)) to Sta. 125 just south of Schunior. At time of visit, contractor was completing the remaining short sections (about 150' on west side and less than 100' on east side) from Sta. 125 south.
- Bridge (West Main Drain Ditch) – Contractor had stood up piling in pilot holes for Abutment #4 preparing to drive, but was still setting up templates and equipment.
- Erosion/Silt Control Devices – Inlets need silt control protection or maintenance. Rock filter dams have failed and need maintenance.

Field Visit (5-22-18) – B2Z noted the following while driving the project with L&G Chief Inspector Kino Gonzalez:

- Drainage Structures – Contractor was installing laterals in the area north of Russell Rd and south of canal (located at approx. Sta. 192).
- Subgrade – Lime had been placed on scarified subgrade and was being pulverized primarily on east portion of road just north of Schunior from Sta. 127 to about approx. Sta. 135.
- Flex Base (6" raw) – Material was being hauled in and dumped south of Russell from around Sta. 167 to 179. Since it had rained Sunday night/Monday morning on project, construction vehicles were tracking some mud on the delivered base. Inspector called Superintendent to designate a path for crossing area of delivery to avoid contaminating new material.
- Flex Base/MC 30 - All flex base work had been completed and primed from beginning of project to around Sta. 115. This completes flex base/prime work for this phase from beginning of project to just south of Schunior at Sta. 125.
- Curb and Gutter (C&G)/Sidewalk – Since last visit this work had continued at around Sta. 108 on east side, south to SH 107 and sidewalk work followed except for a small section approaching SH 107.
- Bridge (West Main Drain Ditch) – Subcontractor was placing rebar for Bent #2. Discussed steel detail with inspector on size, number of bars and min splice length required. Inspector said he would count the rebar once steel work was completed.
- Erosion/Silt Control Devices – Inlets need silt control protection or maintenance. Rock filter dams have failed and need maintenance.

Updated – B2Z has noted the following review of records:

- Backfill/Embankment Densities) –
 - Densities - Review of file reports show that generally these density reports are passing with the occasional exception where the moisture content is outside the optimum % moisture range shown on reports, typically on the plus side.
 - MD curves – No reports with proctor information on file for compaction densities.
 - Sand for Drainage Structure Backfill (Item 400) – Report on file performed by Raba Kistner Consultants indicating that testing meets spec requirements for sand backfill material.
- Subgrade (gradation, densities, depth checks) –
 - MD Curves - Reports R057 and R067 on file for 2 Subgrade proctors.
 - Densities – Densities on file reports generally passing with the exception due to moisture as explained in previous backfill density part of this report.
 - Gradation/pulverization – Several test reports on file, all passing.
 - Depth Test – Only 1 depth test report (R033) on file to date (passing).
 - Lime Sample Test – Report R050 transmits passing results on lime slurry sample teste by San Antonio Testing Laboratory.
- Flex Base –
 - MD Curve – Report R041 Proctor on file for cement treated base.
 - Densities – Several test reports (R068, R085 and R086) on file for 4" cement stabilized base, all passing. R085 includes a reading for a 6" depth but there should be more reports.
 - Depth Test – Several test reports (R069 thru R072) showing base meeting the top 4" depth thickness, but no reports on file for the bottom 6" flex base course.

- Concrete
 - Reports R062 (specimen 4) and R065 (specimen 6) for curb and gutter work did not meet strength at 7 days and pending 28 day break results.
 - Results on specimens 8 (sampled on 5-15-18), and 9 and 10 (sampled on 5-16-18) are pending test results.
 - Results on specimens not noted were passing.
- Seal Coat Aggregate (Grade 4) – Reports R078 and R079 did not meet spec requirements. R080 shows that all requirements were met for use as seal coat.
- Water Sample – No results available yet for water sample testing taken from irrigation canal at Sta. 141+25.
- Material On Hand (MOH) – For April 2018 estimate period, Materials on Hand Request was for a deduction of \$201,229.96. Detectable warning material for pedestrian ramps was received and bridge piling and drainage related items (RC pipe and inlets) were deducted. The request has the proper invoice attachments with unit material prices from approved producers.

Should you have any questions regarding this submittal, please do not hesitate to email me at Rosendo@B2ZEng.com or call me at (956) 900-4361.

Respectfully Submitted,



Rosendo Garcia, Jr., P.E.

Senior Construction Manager – B2Z Engineering, LLC

B²Z ENGINEERING

P.O. Box 2724
McAllen, Tx. 78502
(956) 585-3773

Invoice

Date	Invoice #
5/26/2018	3284

Please send remittance with copy of invoice to:

Attn: Mrs. Aisha Gonzalez
P.O. Box 2724
McAllen, Tx. 78502

Bill To: L&G Engineering
2100 W. Expressway 83
Mercedes, Tx. 78570

Project Info:
10th Street Construction Inspection & CMT
JOB: 152780
Billing Period 4/27/18 - 5/26/18

CSJ#0921-02-300

Description	Contract Amount	x	% Complete	Current Amount Due
FC 32010 - Construction Management ~ Sub	\$79,230.36		20.00%	\$6,338.43
			Previously Invoiced	\$9,507.64

TOTAL PREVIOUSLY INVOICED	\$9,507.64
TOTAL DUE THIS INVOICE	\$6,338.43


Aisha Gonzalez - President