

EXHIBIT "F"
Supplemental Agreement Form

THE STATE OF TEXAS §
 §
COUNTY OF HIDALGO §

**SUPPLEMENTAL AGREEMENT NO. 2
TO WORK AUTHORIZATION NO. 2
TO AGREEMENT FOR PROFESSIONAL SERVICES
C-16-199-07-19**

This **SUPPLEMENTAL AGREEMENT** is made pursuant to the terms and conditions of Article 8 of the Agreement made by and between **HIDALGO COUNTY**, hereinafter called the "**Owner**", and **L&G ENGINEERING**, professional engineers of Mercedes, Texas, hereinafter called the "**Engineer**".

WITNESSETH

WHEREAS, the **Owner** and the **Engineer** executed the Main Contract Agreement on the 19th day of July 2016, concerning professional engineering services for the "**BUS 281 / SH 107 Roadway and Drainage Improvements Project**" for the preparation of the PS&E, Field Surveys and Right-of-Way Map hereinafter referred to as the "**Project**"; and,

WHEREAS, it has become necessary to amend "*Exhibit B, Scope of Services to be provided by the Engineer*" of Work Authorization No. 2 for the following reasons:

1. To Reallocate funds from Illumination Design to Temporary Traffic Signal Design as the City of Edinburg removed the Illumination Design from the Scope and the Temporary Traffic Signal Design level of effort has increased due to Traffic Control changes suggested by TxDOT.

WHEREAS, it has become necessary to amend "*Exhibit D-1 – Estimated Man-hour Breakdown of Work Authorization No. 2* to decrease the total proposed costs for Illumination Design and redirecting that cost to Temporary Traffic Signal Design. The total approved cost of this Work Authorization does not increase and/or decrease; and,

NOW THEREFORE, premises considered, the **Owner** and the **Engineer** agree that said **Agreement** is amended as follows:

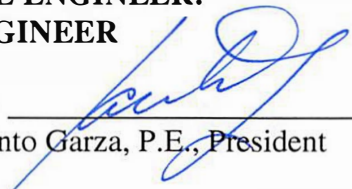
Sections of the Agreement, EXHIBIT “B” – SERVICES TO BE PROVIDED BY THE ENGINEER and EXHIBIT “D-1” – ESTIMATED MAN-HOUR BREAKDOWN, are revised to reflect the above listed modifications of this Supplemental.

All other provisions are unchanged and remain in full force and effect.

IN WITNESS WHEREOF, the Engineer and the Owner have caused this Supplemental Agreement to the Agreement for Professional Services to be executed as of the _____ day of _____, 2023.

**THE ENGINEER:
ENGINEER**

BY: _____
Jacinto Garza, P.E., President



**THE OWNER:
HIDALGO COUNTY**

BY: _____
Richard Cortez, County Judge

LIST OF EXHIBITS:

- EXHIBIT B – “Scope of Services to be provided by the Engineer”
- EXHIBIT D-1 – “Project Estimated Fee Schedule”

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

SECTION I - PROJECT DESCRIPTION

The services designated herein as "Services provided by the ENGINEER" shall include the performance of all engineering services for the following described facility:

COUNTY/CITY: HIDALGO COUNTY

CONTROL: _____

PROJECT/DESCRIPTION: PS&E, Design Surveying, Traffic Signal Warrants & Design, Geotechnical Testing & Permitted Utility Coordination for the Bus 281/SH 107 Road project.

LENGTH: 2.6 Miles

HIGHWAY: Bus 281 & SH 107

LIMITS: From Bus 281-W to US 281 (I 69C)

EXISTING FACILITY

PROJECT CLASSIFICATION

(Place an "X" in only one Project Classification)

- Surface Treatment
- Overlay
- Rehabilitation Existing Road (Scarify & Reshape)
- Convert Non-Freeway to Freeway
- Widen Freeway
- Widen Non-Freeway
- New Location Toll Freeway
- New Location Non-Freeway
- Interchange (New or Reconstruct)
- Bridge Widening or Rehabilitation
- Bridge Replacement
- Upgrade to Standards - Freeway
- Upgrade to Standards - Non-Freeway
- Miscellaneous Studies (Use Function Code 110 for All Tasks)

ENGINEER shall mean L&G Engineering.

STATE shall mean Texas Department of Transportation.

COUNTY shall mean the Hidalgo County.

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

SECTION 9 - SIGNING, MARKINGS AND SIGNALIZATION
(Function Code 162)

Services
Provided By:
ENGINEER COUNTY

- | <u>YES</u> | <u>NO</u> | |
|------------|-----------|---|
| | | 1. Signing and Markings Layout |
| | | a. Requirements (Separate Layout) |
| | | (1) Roadway layout |
| | | (2) Center line with station numbering |
| | | (3) ROW lines |
| | | (4) Culverts and other structures that present a hazard to traffic |
| | | (5) Location of utilities, if not shown on plan and profile |
| | | (6) Existing signs to remain, to be removed, to be relocated |
| | | (7) Proposed signs (illustrated and numbered) |
| | | (8) Existing overhead sign bridges to remain, to be revised, removed or relocated |
| | | (9) Proposed overhead sign bridges indicating location by plan layout (electrical details need not be shown on this layout) |
| | | (10) Proposed markings (illustrated and quantified) which include pavement markings, object markings and delineation |
| | | (2) Quantities of existing pavement markings to be removed |
| | | (3) Proposed delineators and object markers |
| | | b. For projects involving freeway to freeway or other types of directional interchanges, projects including left-hand ramps or connections, the following information must be provided: |
| | | (1) The location of interchanges, main lanes, grade separations, frontage roads and ramps |
| | | (2) complete explanation of the sequence and methods of stage construction, where applicable, which would include the initial and ultimate proposed treatment of crossovers and ramps |
| | | (3) The number of lanes in each section of proposed highway and the location of changes in numbers of lanes |
| | | (4) The projected traffic volumes as provided by the STATE (20 year traffic projection, unless otherwise determined by the District Engineer) |
| | | (5) Tentative ROW limits |
| | | (6) Direction of traffic flow on all roadways |
| | | (7) Main lane, ramp, frontage road, and necessary cross road profiles at proposed interchanges or grade separations |
| <u>YES</u> | <u>NO</u> | 2. Summary of Small Signs Tabulation |
| <u>NO</u> | <u>NO</u> | 3. Summary of Large Signs Tabulation including all Guide Signs |
| <u>YES</u> | <u>NO</u> | 4. Sign Detail Sheets |
| | | a. All signs except route markers |
| | | b. Design details for large guide signs |
| | | c. Dimensions of letters, shields, borders, corner radii etc. |
| | | d. Designation of shields attached to guide signs |
| | | e. Designation of arrow used on exit direction signs |

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

Services
 Provided By:
ENGINEER COUNTY

- | | | |
|------------|-----------|---|
| | | 5. Traffic Signals |
| | | a. Development of Justification (Warrant) Data |
| <u>YES</u> | <u>NO</u> | (1) Location Map |
| | | Relationship of proposed installation to other traffic signals, highways, business areas and traffic generators |
| <u>YES</u> | <u>NO</u> | (2) Photographs as appropriate |
| <u>NO</u> | <u>NO</u> | (3) Accident data as appropriate |
| | | (4) Vehicle volumes (provided by TxDOT) |
| <u>NO</u> | <u>NO</u> | (a) Existing |
| <u>NO</u> | <u>NO</u> | (b) Estimated |
| <u>NO</u> | <u>NO</u> | (c) Projected |
| <u>NO</u> | <u>NO</u> | (d) Pedestrian |
| <u>YES</u> | <u>NO</u> | (5) Traffic Survey - Count Analysis |
| <u>YES</u> | <u>NO</u> | (6) Recommendation based on above data |
| <u>YES</u> | <u>NO</u> | b. Layout |
| | | (1) Title Sheet (when applicable) |
| | | (a) Describe the location |
| | | (b) Type of installation |
| | | (c) Area map with project limits for each location |
| | | (d) Index of sheets |
| | | (e) Space for official signatures |
| | | (2) Estimate and quantity sheet (when applicable) |
| | | (a) List of all bid items |
| | | (b) Bid item quantities |
| | | (c) Specification item number |
| | | (d) Paid item description and unit of measure |
| | | (3) Basis of estimate sheet (list of materials) |
| | | (4) General notes and specification data sheet |
| | | (5) Condition diagram |
| | | (a) Highway and intersection design features |
| | | (b) Roadside development |
| | | (c) Traffic control including illumination |
| | | (6) Plan sheet(s) |
| | | (a) Existing traffic control that will remain (signs and markings) |
| | | (b) Existing utilities |
| | | (c) Proposed highway improvements |
| | | (d) Proposed installation |
| | | (e) Proposed additional traffic controls |
| | | (f) When applicable, proposed conduit for Railroad interconnect with standard details for runs under tracks. |
| | | (g) Proposed illumination attached to signal poles. |
| | | (7) Notes for plan layout |
| | | (8) Elevation sheet(s) (span wire design) |
| | | (9) Phase sequence diagram(s) |
| | | (a) Signal locations |
| | | (b) Signal indications |
| | | (c) Phase diagram |
| | | (d) Signal sequence table |
| | | (e) Flashing operation (normal and emergency) |
| | | (f) Preemption operation (when applicable) |
| | | (g) Interval timing, cycle length and offset |

EXHIBIT "B"
SCOPE OF SERVICES TO BE PROVIDED BY THE ENGINEER

Services
Provided By:
ENGINEER COUNTY

- | | | |
|------------|-----------|---|
| <u>YES</u> | <u>NO</u> | 5. Traffic Signals (<i>continued</i>)
b. Layout (<i>continued</i>).

(10) Construction detail sheets(s)
(a) Poles (TxDOT standard sheets)
(b) Detectors
(c) Pull Box and conduit layout
(d) Controller Foundation standard sheet
(11) Marking details (when applicable)
(12) Barricade and warning sign standard sheet and any special details for work zone traffic control for special conditions
(13) Aerial or underground interconnect details (when applicable) |
| <u>YES</u> | <u>NO</u> | c. General Requirements |
| <u>YES</u> | <u>NO</u> | (1) Contact local utility company |
| <u>YES</u> | <u>NO</u> | (a) Confirm power source |
| <u>YES</u> | <u>NO</u> | (b) Discuss route of aerial or underground interconnect cable (when applicable) |
| <u>YES</u> | <u>NO</u> | (c) Adjustment of overhead utility lines |
| <u>YES</u> | <u>NO</u> | (2) Prepare governing specifications and special provisions list |
| <u>YES</u> | <u>NO</u> | (3) Prepare project estimate |
| <u>YES</u> | <u>NO</u> | d. Summary of Quantities |

EXHIBIT D-1
ESTIMATED MAN-HOUR BREAKDOWN

Bus 281/SH 107 Roadway Drainage Improvements Project
from Bus 281-W to US 281 (I 69 C)

	MANHOURS							TOTAL HOURS	Sub-Contract Amounts / ROW COST	TOTAL LINE ITEM COST
	Senior Project Manager	Senior Engineer	Project Engineer	GeoTechnical Engineer	Senior Engineering Technician	CADD Operator/GIS Analyst	Admin / Clerical			
CONTRACT RATE	198.10	164.14	121.69	90.56	84.9	62.26	56.60			
WORK AUTHORIZATION NO. 2										
PHASE II - PS&E, FIELD SURVEYS & ROW MAP										
1 Coordination and Management of Subconsultant for ROW Map, Field & Design Survey	165	145	82		75.85			468		\$ 72,905.05
1a <i>SUB: Field Surveys for Design/Construction & ROW Mapping (See fee breakdown on Page 2 of 8)</i>								0	\$ 138,283.00	\$ -
2 PS&E Development Roadway & Outfall	700	1400	2800	800	4536	4800	160.17	15196		\$ 1,474,666.02
3 Traffic Signal Warrants & Design Support ~ Coordination and Management of Subconsultant for Traffic Signal Warrants & Design	40	80	210		90	0	33.04	453		\$ 56,121.16
3a <i>SUB: Permanent and Traffic Signal Design (See fee breakdown on Pages 3 and 4 of 8)</i>								0	\$ 170,878.85	\$ -
4 Illumination Design Support ~ Coordination and Management of Subconsultant for Illumination Design	30	70	105.642		0	0	0	206		\$ 30,288.37
4a <i>SUB: Illumination Design (See fee breakdown on Pages 5 and 6 of 8)</i>								0	\$ 81,711.70	\$ -
5 Pavement Markings Design Support ~ Coordination and Management of Subconsultant for Pavement Markings Design	20	40	51.9346		0	0	0	112		\$ 16,847.52
5a <i>SUB: Pavement Markings Design (See fee breakdown on Pages 7 and 8 of 8)</i>								0	\$ 55,152.54	\$ -
6 Geotechnical Testing for TxDOT	80	110	190	419.34				799		\$ 95,000.02
7 Engineering Fee to create 1 set of plans and submit through TxDOT (Pharr District and Austin Divisions)	48	90	129		160	199.75		627		\$ 66,000.09
SUB-TOTAL	918	1935	3568.5766	1219.341	4861.85	4999.754	193.21	17861	\$ 446,026.09	\$ 1,811,828.24

Sub-Total Manhours Fee with Subconsultant Fee: \$ 2,257,854.33

*** TOTAL PROJECT FEE: \$ 2,257,854.00**

* Rounded Figure

	MANHOURS							TOTAL HOURS	Sub-Contract Amounts / ROW COST	TOTAL LINE ITEM COST
	Senior Project Manager	Senior Engineer	Project Engineer	GeoTechnical Engineer	Senior Engineering Technician	CADD Operator/GIS Analyst	Admin / Clerical			
CONTRACT RATE	198.10	164.14	121.69	90.56	84.9	62.26	56.60			
SUPPLEMENTAL NO. 1 to WORK AUTHORIZATION NO. 2 - To add Project Management to the Scope of Services										
PHASE II - PS&E, FIELD SURVEYS & ROW MAP										
1 Coordination and Management of Subconsultant for ROW Map, Field & Design Survey	165	145	82		75.85			468		\$ 72,905.05
1a Coordination and Management of Subconsultant for ROW Map, Field & Design Survey	-105	-95	-59		-51.01			-310		\$ (47,904.26)
1b <i>SUB: Field Surveys for Design/Construction & ROW Mapping (See fee breakdown on Page 2 of 8)</i>								0	\$ 138,283.00	\$ -
2 PS&E Development Roadway & Outfall	700	1400	2800	800	4536	4800	160.17	15196		\$ 1,474,666.02
3 Traffic Signal Warrants & Design Support ~ Coordination and Management of Subconsultant for Traffic Signal Warrants & Design	40	80	210		90	0	33.04	453		\$ 56,121.16
3a <i>SUB: Permanent and Traffic Signal Design (See fee breakdown on Pages 3 and 4 of 8)</i>								0	\$ 170,878.85	\$ -
4 Illumination Design Support ~ Coordination and Management of Subconsultant for Illumination Design	30	70	105.642		0	0	0	206		\$ 30,288.37
4a <i>SUB: Illumination Design (See fee breakdown on Pages 5 and 6 of 8)</i>								0	\$ 81,711.70	\$ -
5 Pavement Markings Design Support ~ Coordination and Management of Subconsultant for Pavement Markings Design	20	40	51.9346		0	0	0	112		\$ 16,847.52
5a <i>SUB: Pavement Markings Design (See fee breakdown on Pages 7 and 8 of 8)</i>								0	\$ 55,152.54	\$ -
6 Geotechnical Testing for TxDOT	80	110	190	419.34				799		\$ 95,000.02
7 Engineering Fee to create 1 set of plans and submit through TxDOT (Pharr District and Austin Divisions)	48	90	129		160	199.75		627		\$ 66,000.09
8 Project Management to include coordination with TxDOT, HCMPO, Hidalgo Co. and HCDD#1	60	80	120		70.91		40	371		\$ 47,904.26
SUB-TOTAL	978	1920	3629.5766	1219.341	4810.84	4999.754	193.21	17551	\$ 446,026.09	\$ 1,811,828.24

Sub-Total Manhours Fee with Subconsultant Fee: \$ 2,257,854.33

*** TOTAL PROJECT FEE: \$ 2,257,854.00**

EXHIBIT D-1
ESTIMATED MAN-HOUR BREAKDOWN

Bus 281/SH 107 Roadway Drainage Improvements Project
from Bus 281-W to US 281 (I 69 C)

* Rounded Figure

	MANHOURS								Sub-Contract Amounts / ROW COST	TOTAL LINE ITEM COST
	Senior Project Manager	Senior Engineer	Project Engineer	GeoTechnical Engineer	Senior Engineering Technician	CADD Operator/GIS Analyst	Admin / Clerical	TOTAL HOURS		
CONTRACT RATE	198.10	164.14	121.69	90.56	84.9	62.26	56.60			
SUPPLEMENTAL NO. 2 to WORK AUTHORIZATION NO. 2 - To Reallocate funds from Illumination Design to Temporary Traffic Signal Design										
PHASE II - PS&E, FIELD SURVEYS & ROW MAP										
4 Illumination Design Support ~ Coordination and Management of Subconsultant for Illumination Design	-18	-42	-63.382		0	0	0	-123		\$ (18,172.98)
4a SUB: Illumination Design								0	\$ (72,602.49)	\$ -
9a Temporary Traffic Signal Design ~ Coordination and Management of Subconsultant for Temporary Traffic Signal Design	18	42	63.382					123		\$ 18,172.98
9b SUB: Temporary Traffic Signal Design									\$ 72,602.49	
SUB-TOTAL	0	0	0	0	0	0	0	0	\$ -	\$ -

Sub-Total Manhours Fee with Subconsultant Fee:	\$ -
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* TOTAL PROJECT FEE:	\$ 2,257,854.00
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* Rounded Figure

ERGONOMIC TRANSPORTATION SOLUTIONS, INC.

5300 Hollister Rd, Suite 220

Houston, Texas 77040

Tel. (713) 956-9601

Fax: (713) 956-9667

28 November 2022

Mr. Jacinto Garza, P.E.,
President
L & G Engineering
2100 W. Expressway 83
Mercedes, Texas 78570

**Reference: Traffic Engineering Services
Around the perimeter of Hidalgo County Courthouse Square and Along
SH 107 (University Drive; From 12th Avenue to IH 69; in Edinburg, Texas**

Dear Jacinto:

Attached, please find our revised fee proposal for Illumination and Temporary Traffic Signal design. The Illumination design that was included in our original proposal was removed from our scope as instructed by L&G. We propose that the remaining Illumination budget be transferred to Temporary Traffic Signals task due to the complex Construction Sequence of the project.

Please note that our proposed revised fee is broken down into two segments, which follow our original contract. One covering the perimeter of the Courthouse Square and the other covering SH 107 from 12th Avenue to IH 69.

Please review and advise if we need to make additional revisions, or need clarification.

As always we thank you for giving us the opportunity to assist you.

Sincerely,



Harry C. Simeonidis, P.E.,
President

Attachments

ILLUMINATION DESIGN - BUS 281/SH 107 ROADWAY & DRAINAGE IMPROVEMENTS			
SEGMENT 1 - ILLUMINATION (COURTHOUSE SQUARE)	ORIGINAL FEE	AMOUNT INVOICED AS OF 11/30/2022	REMAINING BALANCE
	\$34,971.06	\$3,739.92	-\$31,231.14
SEGMENT 2 - ILLUMINATION (SH 107: 12TH AVE TO IH 69C)	ORIGINAL FEE	AMOUNT INVOICED AS OF 11/30/2022	REMAINING BALANCE
	\$46,740.64	\$5,369.29	-\$41,371.35
TOTAL SEGMENTS 1 & 2	\$81,711.70	\$9,109.21	-\$72,602.49
SUPPLEMENTAL TEMPORARY SIGNAL DESIGN - BUS 281/SH 107 ROADWAY & DRAINAGE IMPROVEMENTS			
	PROPOSED FEE	AMOUNT INVOICED	BALANCE
SEGMENT 1 - PROPOSED SUPPLEMENTAL FEE FOR TEMPORARY SIGNALS	\$31,231.14	\$0.00	\$31,231.14
SEGMENT 2 - PROPOSED SUPPLEMENTAL FEE FOR TEMPORARY SIGNALS	\$41,371.35	\$0.00	\$41,371.35
TOTAL SEGMENTS 1 & 2	\$72,602.49	\$0.00	\$72,602.49

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 of 1

Complete Nos. 1 - 4 and 6 if there are interested parties.
 Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

OFFICE USE ONLY CERTIFICATION OF FILING

Certificate Number:
 2022-963825

Date Filed:
 12/13/2022

Date Acknowledged:

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.

L&G Consulting Engineers, Inc.
 Mercedes, TX United States

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.

Hidalgo County Precinct No. 2

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.

C-16-199-07-19
 Supplemental No. 2 to Work Authorization No. 2 - BUS 281/SH 107 Roadway & Drainage Improvements Project.

4	Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
			Controlling	Intermediary
	Garza, P.E. , Jacinto	Mercedes, TX United States	X	
	Sandoval, P.E., Armando J.	Mission, TX United States		X

5 Check only if there is NO Interested Party.

6 UNSWORN DECLARATION

My name is Jacinto Garza, P.E., and my date of birth is 10-23-1961

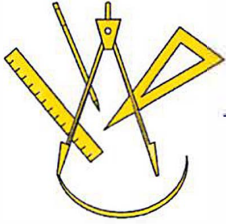
My address is 2100 W Expressway 83, Mercedes, TX, 78570, USA
(street) (city) (state) (zip code) (country)

I declare under penalty of perjury that the foregoing is true and correct.

Executed in Hidalgo County, State of Texas, on the 13th day of Dec., 20 22.
(month) (year)



 Signature of authorized agent of contracting business entity
 (Declarant)



L&G Engineering

Transportation Consultants

December 13, 2022

The Honorable Eddie Cantu
Commissioner, Hidalgo County Pct. No. 2
Attn: Armando Garza, Chief Administrator
300 W. Hallacres, Ste. G
Pharr, Texas 78577

**RE: Supplemental No. 2 to Work Authorization No. 2
BUS281 / SH 107 Roadway and Drainage Improvements Project – Contract No. C-16-199-07-19**

Dear Commissioner Cantu:

L&G respectfully requests your approval of Supplemental No. 2 to Work Authorization No. 2. As previously discussed, it has become necessary to supplement this work authorization for the following reasons:

1. To Re-allocate funds from Illumination Design to Temporary Traffic Signal Design as the City of Edinburg removed the Illumination Design from the Scope and the Temporary Traffic Signal Design level of effort has increased due to Traffic Control changes suggested by TxDOT.

Approval of this Supplemental does not increase or decrease the original approved amount of Work Authorization No. 2.

Attached you will find the following:

- 1.) Two signed originals of Supplemental No. 2 to Work Authorization No. 2 with the following attachments:
 - Exhibit B “Scope of Services to be Provided by the Engineer”
 - Exhibit D-1 “Estimated Man-hour Breakdown”

Should you have any questions regarding this submittal, do not hesitate to call me at (956) 585-1909.

Sincerely,

Armando Sandoval, P.E.
Project Manager

Attachments