

HIDALGO COUNTY
Professional Engineering Services
Contract # C-15-301-09-15
Work Authorization Form

WORK AUTHORIZATION NO. 2

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of Section I.A. of the Agreement made by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner's Court**, hereinafter called the "**Owner**," and, **L&G ENGINEERING** professional engineers of Mercedes, Texas, hereinafter called "**Engineer**".

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the **Engineer** to provide **Construction Materials Testing Services for the "Construction of Parking Lot at San Carlos CRC & Sunflower Park" Project in Hidalgo County Precinct No. Four (4)**

The scope of services to be provided by the **Owner** is identified in **EXHIBIT "A"** – *Scope of Services to be provided by the Owner* attached hereto.

The scope of services to be provided by the **Engineer** is identified in **EXHIBIT "B"** – *Scope of Services to be provided by the Engineer* attached hereto.

PART 2. ESTIMATED COST

The estimated cost for services under this Work Authorization is **\$10,495.01**. This amount is based upon the costs outlined in the Estimated **Cost Proposal** attached hereto as **EXHIBIT "D"**.

PART 3. PAYMENT

Compensation and payment to the **Engineer** for the services established under this Work Authorization shall be made in accordance with Article/Part/Section **5.1** of the Agreement.

PART 4. FUNDING

This Work Authorization No. 2 shall be funded through funding source:
Account No. 6-1345-431-00-124-029-0-751
Requisition Number _____ (MUST BE INCLUDED AFTER CC APPROVAL)

PART 5. PERIOD OF SERVICE

This Work Authorization shall become effective on the date of final acceptance of the parties hereto, and terminate upon completion of scopes of the work authorization or (DATE).

PART 6. RESPONSIBILITIES AND OBLIGATIONS

This Authorization does not waive the parties' responsibilities and obligations provided under the **Agreement**.

PART 7. ACKNOWLEDGEMENT AND CONFIRMATION

Acknowledgement and confirmation by Hidalgo County Precinct No. 4 Commissioner Joseph Palacios as to content and detail of this Work Authorization No. #2.

HIDALGO COUNTY
COMMISSIONER PRECINCT NO. 4:

BY: Josepe Palacios

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on _____ as indicated below and effective as of _____ day of _____, 2016.

THE ENGINEER:
L&G ENGINEERING

THE OWNER:
HIDALGO COUNTY

Jacinto Garza
By: Jacinto Garza, P.E.

Hon. Ramon Garcia
Hon. Ramon Garcia, County Judge

ATTEST:

Arturo Guajardo Jr.
Arturo Guajardo Jr., County Clerk

LIST OF ATTACHMENTS

- ATTACHMENT "A" - Service to be Provided by the Owner
- ATTACHMENT "B" - Services to be Provided by the Engineer
- ATTACHMENT "C" - Work Schedule
- ATTACHMENT "D" - Cost Proposal

ATTACHMENT "A"
Scope of Services (Owner)

PROJECT: "Construction of Parking Lot at San Carlos CRC & Sunflower Park" Project In Hidalgo County Precinct No. Four (4)

SERVICES TO BE PROVIDED BY OWNER

The County of Hidalgo will provide **L&G Engineering** with **Construction Documents, Plans and Specifications** for the ***"Construction of Parking Lot at San Carlos CRC & Sunflower Park" Project In Hidalgo County Precinct No. Four (4)***

ATTACHMENT “B”
Scope of Services (Engineer)

PROJECT: “Construction of Parking Lot at San Carlos CRC & Sunflower Park” Project In Hidalgo County Precinct No. Four (4)

GENERAL SCOPE OF WORK

The Scope of Work will entail providing **The County of Hidalgo** with **Construction Materials Testing Services**.

The Scope of Work is identified as follows:

- **Construction Materials Testing Services**

L&G Engineering will furnish all equipment, materials, supplies, and incidentals as needed to perform the services required by this Contract: The work is as follows:

Construction Materials Testing Services

L&G Engineering will provide **The County of Hidalgo** with **Construction Materials Testing Services** for the ***“Construction of Parking Lot at San Carlos CRC & Sunflower Park” Project in Hidalgo County Precinct No. Four (4)***

The services to be provided are as follows:

- Sampling and laboratory testing of soils and base materials proposed for use in the construction of Roads and Bridges to determine compliance of these materials with project plans and specifications.
- Field density testing of soils and base materials to ensure proper compaction as required by project plans and specifications.
- Field sampling and acceptance testing of fresh concrete, and Laboratory testing of hardened concrete to determine compliance with project plans and specifications. The following will not be inclusive of the Scope of Services unless it is otherwise requested:
 - Design Submittal Review
 - Trial Batch to Verify Concrete Design prior to placement
 - Concrete Batch Plant Inspection
- Field Compaction testing of Asphalt to ensure proper compaction during lay down operations.
- Field inspection, sampling and laboratory testing of Asphalt materials to determine their material properties and their compliance with project plans and specifications.
- Any additional laboratory testing as required/requested by **The County of Hidalgo and the project plans and specifications**.

- Provide accurate and timely reports to **The County of Hidalgo** and all/other recipients as designated by the County.

Engineering Services

L&G Engineering will provide an engineer's review of all test results to determine compliance with all project plans and specifications.

Scheduling of Services

L & G Engineering is prepared to make a commitment to **The County of Hidalgo's** materials testing needs. L & G Engineering makes every effort to respond to its clients as requests are received, and every effort will be made to keep scheduling conflicts to a minimum. As any other firm or business providing a service, L & G Engineering prefers to schedule field and laboratory work with as much advance notice as possible. L & G Engineering understands; however, that certain situations may occur when the Client may have a need for Materials Testing Services with as little or no advance notice. During these instances, L & G Engineering will make every effort to dispatch personnel to the project within one (1) hour of the Client's request for services.

ATTACHMENT "C"
Work Schedule

PROJECT: "Construction of Parking Lot at San Carlos CRC & Sunflower Park" Project In Hidalgo County Precinct No. Four (4)

Work Schedule

L&G Engineering will provide Hidalgo County Pct. # 4 with Construction Materials Testing Services as outlined in Contract Agreement C-15-301-09-15.

ATTACHMENT "D"
Cost Proposal

PROJECT: "Construction of Parking Lot at San Carlos CRC & Sunflower Park" Project In Hidalgo County Precinct No. Four (4)

See Attached

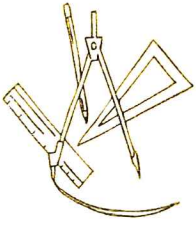
Attachment "D"
L&G Engineering
Construction of Parking Lot at San Carlos CRC & Sunflower Park
Prepared for Hidalgo County Precinct No. 4

<i>In-Situ Soils Testing-Laboratory</i>					
Standard Proctor	2	Ea.	\$211.99	\$423.98	<i>In Situ Subgrade Moisture-Density Testing on the following:</i>
Atterberg Limits of Soils	2	Ea.	\$82.05	\$164.10	
Material Finer #200	2	Ea.	\$68.46	\$136.92	
Test Report	2	Ea.	\$24.30	\$48.60	
Technician (Soils)	6	Hr.	\$52.88	\$317.28	
Mileage (Trip Charge)	80	Mi.	\$0.55	\$44.00	<i>Parking Areas Walking Trails</i>
				Subtotal:	
<i>In-Situ Soils Testing-Field</i>					
Field Density Test	16	Ea.	\$24.63	\$394.08	<i>Trench Backfill Field Density Testing on the Following:</i>
Test Report	2	Ea.	\$24.30	\$48.60	
Technician (Soils)	10	Hr.	\$52.88	\$528.80	<i>Parking Area and Walking Trail Subgrade</i>
Mileage (Trip Charge)	200	Mi.	\$0.55	\$110.00	
				Subtotal:	
<i>Treated Backfill Sand Testing-Laboratory</i>					
Standard Proctor	1	Ea.	\$211.99	\$211.99	<i>Quantity Based On 2 visits to obtain samples for laboratory testing</i>
Atterberg Limits of Soils	1	Ea.	\$82.05	\$82.05	
Test Report	1	Ea.	\$24.30	\$24.30	
Technician (Soils)	3	Hr.	\$52.88	\$158.64	
Mileage (Trip Charge)	40	Mi.	\$0.55	\$22.00	
				Subtotal:	\$498.98
<i>Treated Backfill Sand Soils Testing-Field</i>					
Field Density Test	10	Ea.	\$24.63	\$246.30	<i>Quantity Based On 10 site visits to perform compaction testing</i>
Test Report	8	Ea.	\$24.30	\$194.40	
Technician (Soils)	10	Hr.	\$52.88	\$528.80	
Mileage (Trip Charge)	200	Mi.	\$0.55	\$110.00	
				Subtotal:	\$1,079.50
<i>Flexible Base (Caliche)-Laboratory</i>					
Standard Proctor	1	Ea.	\$211.99	\$211.99	<i>Quantity based on 1 site visit to obtain sample for laboratory testing</i>
Atterberg Limits of Soils	1	Ea.	\$82.05	\$82.05	
Sieve Analysis (Dry)(4 Sieve)	1	Ea.	\$61.52	\$61.52	
Texas Wet Ball Mill	1	Ea.	\$239.53	\$239.53	
Technician (Soils)	4	Hr.	\$52.88	\$211.52	
Test Report	2	Ea.	\$24.30	\$48.60	
Mileage (Trip Charge)	40	Mi.	\$0.55	\$22.00	
				Subtotal:	\$877.21
<i>Flexible Base (Caliche)-Field Testing and Monitoring</i>					
Field Density Test	6	Ea.	\$24.63	\$147.78	<i>Quantities based on two (2) visits to perform in-place testing</i>
Test Report	2	Ea.	\$24.30	\$48.60	
Technician (Soils)	5	Hr.	\$52.88	\$264.40	
Mileage (Trip Charge)	80	Mi.	\$0.55	\$44.00	
				Subtotal:	
<i>Hot Mix Asphalt Paving-Pavement Areas</i>					
Ext. Sieve Analysis/Asph Content	1	Ea.	\$239.45	\$239.45	<i>Quantities based on site visits to perform testing</i>
Density of Asphaltic Cores	3	Ea.	\$75.23	\$225.69	
Asphalt Rolling Patterns	3	Ea.	\$41.06	\$123.18	
Coring/ACP Thickness	4	Ea.	\$68.46	\$273.84	
Technician (Asphalt)	10	Hr.	\$52.88	\$528.80	
Mileage (Trip Charge)	80	Mi.	\$0.55	\$44.00	
Test Report	3	Ea.	\$24.30	\$72.90	
				Subtotal:	\$1,507.86

Concrete Placement - Sidewalk/Curb & Gutter

Air Content(Pressure Method)	2	Ea.	\$24.58	\$49.16	<i>Assuming 4 Placements</i>
Test Report	2	Ea.	\$24.30	\$48.60	
Technician (Concrete)	4	Hr.	\$52.88	\$211.52	
Mileage (Trip Charge)	80	Mi.	\$0.55	\$44.00	
			Subtotal:	<u>\$353.28</u>	
Cyl. Spec. Prep, Hold, Cure	8	Ea.	\$12.36	\$98.88	<i>Quantities based on sample pickup an deliver to laboratory for Compression Testing</i>
Comp. Str. Of Cyl. Specimen	8	Ea.	\$16.40	\$131.20	
Test Reports (7 and 28 day)	4	Ea.	\$24.30	\$97.20	
Technician (Concrete)	4	Hr.	\$52.88	\$211.52	
Mileage (Trip Charge)	80	Mi.	\$0.55	\$44.00	
			Subtotal:	<u>\$582.80</u>	

Estimated Field and Laboratory Test Fees				\$7,620.77
Laboratory Manager (Report Review)(Hr.)	12	\$105.76		\$1,269.12
Project Engineer (Report Review)(Hr.)	12	\$133.76		\$1,605.12
Estimated Materials Testing Total				<u>\$10,495.01</u>



March 7, 2016

Commissioner Joseph Palacios
Attn: Maria "LuLu" Lucio
Hidalgo County, Precinct No. 4
1102 N. Doolittle Rd.
Edinburg, Texas 78539

RE: Work Authorization No. 2 – “Construction of Parking Lot at San Carlos CRC & Sunflower Park” Project In Hidalgo County Precinct No. Four (4)

Dear Ms. Lucio:

L&G Engineering (L&G), is providing you two (2) signed original work authorization forms for Construction Materials Testing Services for the referenced project as per your request. We are attaching the following in duplicate:

- Work Authorization No. 2
- The Scope of Services (Owner) (Attachment A)
- The Scope of Services (Engineer) (Attachment B)
- Work Schedule (Attachment C)
- Project Cost Proposal (Attachment D)

L&G Engineering appreciates the opportunity to submit Work Authorization No. 2 and look forward to working with **Hidalgo County Pct. 4**. If I may be of any additional assistance or any additional information is required, please feel free to contact me at 956-565-0760 or 956-463-2008.

Sincerely,
L&G ENGINEERING

Ricardo A. Gil
General Manager

Attachments