

# L&G Consulting Engineers, Inc.

---

October 4, 2016

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

**RE: Work Authorization No. 1 – "San Carlos CRC Landscaping, Irrigation, & Retaining Wall"  
Project In Hidalgo County Precinct No. Four (4)**

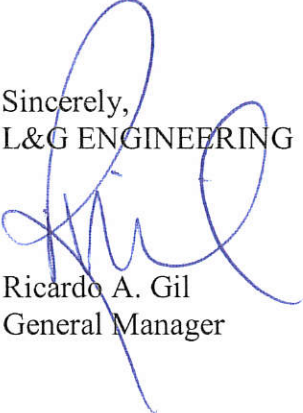
Dear Ms. Lucio:

**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. 1
- 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. 1 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: Work Authorization No. 1

**HIDALGO COUNTY**  
**Professional Engineering Services**  
**Contract # C-16-305-10-04**  
**Work Authorization Form**

**WORK AUTHORIZATION NO. 1**

**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 "San Carlos CRC Landscaping, Irrigation, & Retaining Wall" 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 **\$9,501.62**. 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. **1** shall be funded through funding source:

Account No. \_\_\_\_\_

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. #1.

HIDALGO COUNTY  
COMMISSIONER PRECINCT NO. 4:

BY: \_\_\_\_\_

**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

  
\_\_\_\_\_  
By: Jacinto Garza, P.E.

\_\_\_\_\_  
Hon. Ramon Garcia, County Judge

ATTEST:

\_\_\_\_\_  
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: "San Carlos CRC – Landscaping, Irrigation, & Retaining Wall" within 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 ***"San Carlos CRC – Landscaping, Irrigation, & Retaining Wall" Project In Hidalgo County Precinct No. Four (4)***

**ATTACHMENT “B”**  
**Scope of Services (Engineer)**

**PROJECT: “San Carlos CRC – Landscaping, Irrigation, & Retaining Wall” 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 **“San Carlos CRC – Landscaping, Irrigation, & Retaining Wall” 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: "San Carlos CRC – Landscaping, Irrigation, & Retaining Wall" 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-16-305-10-04.**

**ATTACHMENT "D"**  
**Cost Proposal**

***PROJECT: "San Carlos CRC – Landscaping, Irrigation, & Retaining Wall" Project In Hidalgo County Precinct No. Four (4)***

**See Attached**

**Attachment "D"**  
**L&G Engineering**  
**San Carlos CRC Landscaping Irrigation & Retaining Wall**  
**Prepared for Hidalgo County Precinct No. 4**

<i>In-Situ Soils Testing-Laboratory</i>						
Standard Proctor	2	Ea.	\$212.50	\$425.00	<i>In Situ Subgrade Moisture-Density Testing on the following:</i>	
Atterberg Limits of Soils	2	Ea.	\$79.66	\$159.32		
Material Finer #200	2	Ea.	\$66.47	\$132.94		
pH testing	4	Ea.	\$86.40	\$345.60		
Sieve Analysis	4	Ea.	\$95.76	\$383.04		
Test Report	6	Ea.	\$23.59	\$141.54		
Technician (Soils)	16	Hr.	\$48.11	\$769.76		
Mileage (Trip Charge)	160	Mi.	\$0.56	\$89.60		
Subtotal:				\$2,446.80		
<i>In-Situ Soils Testing-Field</i>						
Field Density Test	20	Ea.	\$23.91	\$478.20	<i>Testing on the Following: 6 trips to perform testing</i>	
Test Report	6	Ea.	\$23.59	\$141.54		
Technician (Soils)	18	Hr.	\$48.11	\$865.98		
Mileage (Trip Charge)	240	Mi.	\$0.56	\$134.40		
Subtotal:				\$1,620.12		
<i>Cast in Place Concrete Testing - Retaining Walls</i>						
Air Content(Pressure Method)	6	Ea.	\$23.86	\$143.16	<i>6 site visits for placement testing</i>	
Test Report	6	Ea.	\$23.59	\$141.54		
Technician (Concrete)	18	Hr.	\$48.11	\$865.98		
Mileage (Trip Charge)	240	Mi.	\$0.56	\$134.40		
Subtotal:				\$1,285.08		
Cyl. Spec. Prep, Hold, Cure	24	Ea.	\$12.00	\$288.00	<i>Quantities based on sample pickup and deliver to laboratory for Compression Testing</i>	
Comp. Str. Of Cyl. Specimen	24	Ea.	\$15.92	\$382.08		
Test Reports (7 and 28 day)	12	Ea.	\$23.59	\$283.08		
Technician (Concrete)	18	Hr.	\$48.11	\$865.98		
Mileage (Trip Charge)	240	Mi.	\$0.56	\$134.40		
Subtotal:				\$1,953.54		

Estimated Field and Laboratory Test Fees				\$7,305.54	
Admin/Clerical(Reports) (Hr.)	8		\$56.60	\$452.80	
Laboratory Manager (Report Review)(Hr.)	8		\$96.22	\$769.76	
Project Engineer (Report Review)(Hr.)	8		\$121.69	\$973.52	
Estimated Materials Testing Total				\$9,501.62	