

**HIDALGO COUNTY**  
**Professional Engineering Services**  
**Contract # C-13-071-03-26**  
**Work Authorization Form**

**WORK AUTHORIZATION NO. 01**

**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 Laboratory, LLC**, 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 Hidalgo County Pct. 3 – Mile 2 (from Abraham to La Homa) Project.

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 \$15,734.12. 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. 01 shall be funded through funding source:  
Account No. 3-1200-431-00-123-005-0-231  
Requisition Number 233813 (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. 3 Commissioner Joe Flores as to content and detail of this Work Authorization No. # 01.

HIDALGO COUNTY  
COMMISSIONER PRECINCT NO. 3:

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 \_\_\_\_\_, 2013.

THE ENGINEER:  
L&G ENGINEERING LABORATORY, LLC

THE OWNER:  
HIDALGO COUNTY

\_\_\_\_\_  
By: Jacinto Garza

\_\_\_\_\_  
By: Ramon Garcia, County Judge

ATTEST:

\_\_\_\_\_  
by: Arturo Guajardo Jr., County Clerk

**LIST OF ATTACHMENTS**

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

**ATTACHMENT "A"**  
**Scope of Services (Owner)**

***PROJECT: Mile 2 (from Abraham to La Homa) Project in Hidalgo County Precinct No. Three (3)***

***SERVICES TO BE PROVIDED BY OWNER***

The County of Hidalgo will provide **L&G Engineering Laboratory, LLC** with **Construction Documents, Plans and Specifications for Mile 2 (from Abraham to La Homa) Project in Hidalgo County Pct No. Three (3)**

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

***PROJECT: Mile 2 (from Abraham to La Homa) in Hidalgo County Precinct No. Three (3)***

***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 Laboratory 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 Laboratory, L.L.C. will provide **The County of Hidalgo** with **Construction Materials Testing Services** for ***Mile 2 (from Abraham to La Homa) Project in Hidalgo County Precinct No. Three (3)***.

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 testing of fresh concrete, and Laboratory testing of hardened concrete to determine compliance with project plans and specifications.
- 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 materials 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 Laboratory, L.L.C. 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 Laboratory is prepared to make a commitment to **The County of Hidalgo's** materials testing needs. L & G Engineering Laboratory 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 Laboratory prefers to schedule field and laboratory work with as much advance notice as possible. L & G Engineering Laboratory 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 Laboratory 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: Mile 2 (from Abraham to La Homa) in Hidalgo County Precinct No. Three (3).***

***Work Schedule***

**L&G Engineering Laboratory will provide Hidalgo County Pct. # 3 with Construction Materials Testing Services as outlined in Contract Agreement C-13-071-03-26.**

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

***PROJECT: Mile 2 (from Abraham to La Homa) in Hidalgo County Precinct No. Three (3)***

**(See Attached)**

**Attachment D**  
**Mile 2 (from Abraham to La Homa) (11,000 LF)**  
**Prepared For Hidalgo County Pct. No. 3**

<b>Roadway Subgrade Materials Testing - Laboratory</b>				
Tech Time	12	Hrs.	\$46.44	\$557.28
Trip Charge	240	Mi.	\$0.51	\$122.40
Atterberg	4	Ea.	\$77.32	\$309.28
Moisture-Density Determ	4	Ea.	\$199.78	\$799.12
Reports	4	Ea.	\$22.90	\$91.60
Eng. Spec.	1	Hrs.	\$116.01	\$116.01
Engineer	1	Hrs.	\$154.76	\$154.76
Sub.				<b>\$2,150.45</b>
<b>Roadway Subgrade Field Density Testing</b>				
Tech Time	36	Hrs.	\$46.44	\$1,671.84
Trip Charge	720	Mi.	\$0.51	\$367.20
Comp. Test	36	Ea.	\$23.21	\$835.56
Reports	12	Ea.	\$22.90	\$274.80
Eng. Spec.	3	Hrs.	\$116.01	\$348.03
Engineer	3	Hrs.	\$154.76	\$464.28
Sub.				<b>\$3,961.71</b>
<b>Roadway Base Materials Testing - Laboratory</b>				
Tech Time	6	Hrs.	\$46.44	\$278.64
Trip Charge	120	Mi.	\$0.51	\$61.20
Sieve Analysis	2	Ea.	\$57.98	\$115.96
Texas Wet Ball Mill	2	Ea.	\$225.72	\$451.44
Atterberg	2	Ea.	\$77.32	\$154.64
Moisture-Density Determ	2	Ea.	\$199.78	\$399.56
Reports	4	Ea.	\$22.90	\$91.60
Eng. Spec.	1	Hrs.	\$116.01	\$116.01
Engineer	1	Hrs.	\$154.76	\$154.76
Sub.				<b>\$1,823.81</b>
<b>Base Material Field Density Testing</b>				
Tech Time	36	Hrs.	\$46.44	\$1,671.84
Trip Charge	720	Mi.	\$0.51	\$367.20
Comp. Test	36	Ea.	\$23.21	\$835.56
Reports	12	Ea.	\$22.90	\$274.80
Eng. Spec.	3	Hrs.	\$116.01	\$348.03
Engineer	3	Hrs.	\$154.76	\$464.28
Sub.				<b>\$3,961.71</b>
<b>Asphalt Testing-Field and Laboratory</b>				
Tech Time	16	Hrs.	\$59.29	\$948.64
Trip Charge	240	Mi.	\$0.51	\$122.40
Rolling Patterns	6	Ea.	\$38.69	\$232.14
Density of Asphaltic Cores	2	Pr.	\$70.92	\$141.84
%AC-Grad	2	Ea.	\$225.66	\$451.32
Reports	5	Ea.	\$22.90	\$114.50
Asphalt Thickness	22	Ea.	\$64.52	\$1,419.44
Eng. Spec.	1.5	Hrs.	\$116.01	\$174.02
Engineer	1.5	Hrs.	\$154.76	\$232.14
Sub.				<b>\$3,836.44</b>

**Total Estimated Material Testing Fees \$15,734.12**