

**HIDALGO COUNTY**  
**Professional Engineering Services**  
**Contract # C-08-127-04-22**  
**Work Authorization Form**

**WORK AUTHORIZATION NO. 05**

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 - Citrus City Subdv. (Haven Dr., Jacaranda St, Poinsettia Dr., Lantana Dr., Esperanza St.) & El Flaco Chiquito Subdv. (Street A-tangerine Ln., Street B-Hanna St., Street C-Lantana Blvd.)

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 \$14,547.50. 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. 05 shall be funded through funding source:  
Account No. 8-1385-431-60-123-05-0-231 734  
Requisition Number \_\_\_\_\_ (MUST BE INCLUDED AFTER CC APPROVAL)



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

***PROJECT: Citrus City Subdv. (Haven Dr., Jacaranda St, Poinsettia Dr., Lantana Dr., Esperanza St.) & El Flaco Chiquito Subdv. (Street A-tangerine Ln., Street B-Hanna St., Street C-Lantana Blvd.) 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 the Citrus City Subdv. & El Flaco Chiquito Subdv. Project.**

**ATTACHMENT "B"**  
**Scope of Services (Engineer)**

***PROJECT: Citrus City Subdv. (Haven Dr., Jacaranda St, Poinsettia Dr., Lantana Dr., Esperanza St.) & El Flaco Chiquito Subdv. (Street A-tangerine Ln., Street B-Hanna St., Street C-Lantana Blvd.) Project 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 the Citrus City Subdv. & El Flaco Chiquito Subdv. 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: Citrus City Subdv. (Haven Dr., Jacaranda St, Poinsettia Dr., Lantana Dr., Esperanza St.) & El Flaco Chiquito Subdv. (Street A-tangerine Ln., Street B-Hanna St., Street C-Lantana Blvd.) Project 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-08-127-04-22.**

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

***PROJECT: Citrus City Subdv. (Haven Dr., Jacaranda St, Poinsettia Dr., Lantana Dr., Esperanza St.) & El Flaco Chiquito Subdv. (Street A-tangerine Ln., Street B-Hanna St., Street C-Lantana Blvd.) Project in Hidalgo County Precinct No. Three (3).***

**(See Attached)**

**Attachment D  
Citrus City & El Flaco Chiquito Subdivisions  
Prepared For Hidalgo County Pct. No. 3**

<b>Roadway Subgrade Materials Testing - Laboratory</b>				
Tech Time	15	Hrs.	\$41.80	\$627.00
Trip Charge	200	Mi.	\$0.46	\$92.00
Atterberg	5	Ea.	\$69.65	\$348.25
Moisture-Density Determ	5	Ea.	\$179.95	\$899.75
Reports	10	Ea.	\$20.60	\$206.00
Eng. Spec.	3	Hrs.	\$104.50	\$313.50
Engineer	3	Hrs.	\$139.40	\$418.20
Sub.				<u>\$2,904.70</u>
<b>Roadway Subgrade Field Density Testing</b>				
Tech Time	16	Hrs.	\$41.80	\$668.80
Trip Charge	320	Mi.	\$0.46	\$147.20
Comp. Test	12	Ea.	\$13.55	\$162.60
Reports	8	Ea.	\$20.60	\$164.80
Eng. Spec.	4	Hrs.	\$104.50	\$418.00
Engineer	4	Hrs.	\$139.40	\$557.60
Sub.				<u>\$2,119.00</u>
<b>Roadway Base Materials Testing - Laboratory</b>				
Tech Time	6	Hrs.	\$41.80	\$250.80
Trip Charge	120	Mi.	\$0.46	\$55.20
Steve Analysis	2	Ea.	\$52.20	\$104.40
Texas Wet Ball Mill	2	Ea.	\$203.25	\$406.50
Atterberg	2	Ea.	\$69.65	\$139.30
Moisture-Density Determ	2	Ea.	\$179.95	\$359.90
Reports	4	Ea.	\$20.60	\$82.40
Eng. Spec.	2	Hrs.	\$104.50	\$209.00
Engineer	2	Hrs.	\$139.90	\$278.80
Sub.				<u>\$1,886.30</u>
<b>Base Material Field Density Testing</b>				
Tech Time	16	Hrs.	\$41.80	\$668.80
Trip Charge	320	Mi.	\$0.46	\$147.20
Comp. Test	12	Ea.	\$13.55	\$162.60
Reports	8	Ea.	\$20.60	\$164.80
Eng. Spec.	4	Hrs.	\$104.50	\$418.00
Engineer	4	Hrs.	\$139.40	\$557.60
Sub.				<u>\$2,119.00</u>
<b>Asphalt Testing-Field and Laboratory</b>				
Tech Time	24	Hrs.	\$53.40	\$1,281.60
Trip Charge	240	Mi.	\$0.46	\$110.40
Rolling Patterns	12	Ea.	\$34.85	\$418.20
Laboratory Molded (ps)	4	Pr.	\$91.90	\$367.60
%AC-Grad	4	Ea.	\$203.25	\$813.00
Rico Gravity (gr)	4	Ea.	\$101.30	\$405.20
Reports	10	Ea.	\$20.60	\$206.00
Asphalt Thickness	12	Ea.	\$58.10	\$697.20
Eng. Spec.	5	Hrs.	\$104.50	\$522.50
Engineer	5	Hrs.	\$139.40	\$697.00
Sub.				<u>\$5,518.70</u>

**Total Estimated Material Testing Fees \$14,547.70**

cost.xls