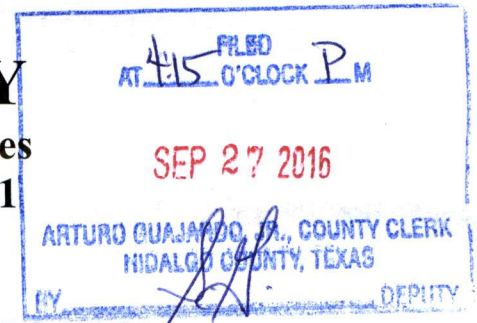


**HIDALGO COUNTY**  
**Professional Engineering Services**  
**Contract # C-CAP-12-194-07-31**  
**Work Authorization Form**



**WORK AUTHORIZATION NO. 02**

**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 Colonia Access Program Projects in Hidalgo County Precinct No. One (1)

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 \$ 9,421.38. 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 3 of the Agreement.

**PART 4. FUNDING**

This Work Authorization No.2 shall be funded through funding source:

Account No. 6-1312-431-00-121-642-0-339

Account No. 6-1312-431-00-121-270-0-339

Account No. 6-1312-431-00-121-394-0-339

Requisition Number 306577 (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.1 Commissioner A.C. Cuellar, Jr. as to content and detail of this Work Authorization No. 2.

HIDALGO COUNTY  
COMMISSIONER PRECINCT No. 1:

BY: AC Cuellar Jr

**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 \_\_\_\_\_, 20\_\_.

THE ENGINEER:  
L&G ENGINEERING LABORATORY, LLC

THE OWNER:  
HIDALGO COUNTY

By: [Signature]  
Jacinto Garza, P.E.

By: Ramon Garcia  
Ramon Garcia, County Judge

ATTEST:

By: Arturo Guajardo Jr  
Arturo Guajardo Jr., County Clerk

APPROVED BY  
COMMISSIONERS' COURT  
ON: 9/27/16



**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:*** Colonia Access Program Projects in Hidalgo County Precinct No. One (1)

***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 **Colonia Access Program Project**.

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

***PROJECT: Colonia Access Program Projects in Hidalgo County Precinct No. One (1)***

***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 **Colonia Access Program Projects in Hidalgo County Precinct No. One (1)**

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:*** Colonia Access Program Projects in Hidalgo County Precinct No. One (1)

***Work Schedule***

**L&G Engineering Laboratory** will provide **Hidalgo County Pct. No. 1** with **Construction Materials Testing Services** as outlined in **Contract Agreement C-CAP-12-194-07-31**.

**Attachment D**  
**Barboza Lopez Subdivision (1090 L.F.)**  
**Prepared for Hidalgo County Pct 1**

<b>Roadway Subgrade Materials Testing - Laboratory</b>				
Tech Time	3	Hrs.	\$44.95	\$134.85
Trip Charge	45	Mi.	\$0.48	\$21.60
Atterberg	1	Ea.	\$49.35	\$49.35
Moisture-Density Determ	1	Ea.	\$164.55	\$164.55
Clerical/Admin.	0.25	Hrs.	\$43.85	\$10.96
Eng. Spec.	0.25	Hrs.	\$60.30	\$15.08
Engineer	0.25	Hrs.	\$139.15	\$34.79
Sub.				\$431.18
<b>Roadway Subgrade Field Density Testing</b>				
Tech Time	6	Hrs.	\$44.95	\$269.70
Trip Charge	90	Mi.	\$0.48	\$43.20
Comp. Test	8	Ea.	\$19.75	\$158.00
Clerical/Admin.	1	Hrs.	\$43.85	\$43.85
Eng. Spec.	0.25	Hrs.	\$60.30	\$15.08
Engineer	0.25	Hrs.	\$139.15	\$34.79
Sub.				\$564.61
<b>Roadway Base Materials Testing - Laboratory</b>				
Tech Time	3	Hrs.	\$44.95	\$134.85
Trip Charge	45	Mi.	\$0.48	\$21.60
Sieve Analysis	1	Ea.	\$49.35	\$49.35
Texas Wet Ball Mill	1	Ea.	\$191.95	\$191.95
Atterberg	1	Ea.	\$49.35	\$49.35
Moisture-Density Determ	1	Ea.	\$164.55	\$164.55
Clerical/Admin.	0.5	Hrs.	\$43.85	\$21.93
Eng. Spec.	0.25	Hrs.	\$60.30	\$15.08
Engineer	0.25	Hrs.	\$139.15	\$34.79
Sub.				\$683.44
<b>Base Material Field Density Testing</b>				
Tech Time	6	Hrs.	\$44.95	\$269.70
Trip Charge	80	Mi.	\$0.48	\$38.40
Comp. Test	8	Ea.	\$19.75	\$158.00
Clerical/Admin.	0.5	Hrs.	\$43.85	\$21.93
Eng. Spec.	0.25	Hrs.	\$60.30	\$15.08
Engineer	0.25	Hrs.	\$139.15	\$34.79
Sub.				\$537.89
<b>Asphalt Testing-Field and Laboratory</b>				
Tech Time	6	Hrs.	\$44.95	\$269.70
Trip Charge	81	Mi.	\$0.48	\$38.88
Rolling Patterns	2	Ea.	\$32.85	\$65.70
Density of Asphaltic Cores	1	Pr.	\$27.45	\$27.45
%AC-Grad	1	Ea.	\$191.85	\$191.85
Clerical/Admin.	0.5	Hrs.	\$43.85	\$21.93
Maximum Spg.	1	Ea.	\$93.20	\$93.20
Asphalt Thickness	4	Ea.	\$32.95	\$131.80
Eng. Spec.	0.5	Hrs.	\$60.30	\$30.15
Engineer	0.5	Hrs.	\$139.15	\$69.58
Sub.				\$940.23

**Total Estimated Material Testing Fees    \$3,157.72**

**Attachment D**  
**Flora Subdivision (1200 L.F.)**  
**Prepared for Hidalgo County Pct 1**

<b>Roadway Subgrade Materials Testing - Laboratory</b>				
Tech Time	3	Hrs.	\$44.95	\$134.85
Trip Charge	50	Mi.	\$0.48	\$24.00
Atterberg	1	Ea.	\$49.35	\$49.35
Molsture-Density Determ	1	Ea.	\$164.55	\$164.55
Clerical/Admin.	0.25	Hrs.	\$43.85	\$10.96
Eng. Spec.	0.25	Hrs.	\$60.30	\$15.08
Engineer	0.25	Hrs.	\$139.15	\$34.79
<b>Sub.</b>				<b>\$433.58</b>
<b>Roadway Subgrade Field Density Testing</b>				
Tech Time	6	Hrs.	\$44.95	\$269.70
Trip Charge	100	Mi	\$0.48	\$48.00
Comp. Test	8	Ea.	\$19.75	\$158.00
Clerical/Admin.	1	Hrs.	\$43.85	\$43.85
Eng. Spec.	0.5	Hrs.	\$60.30	\$30.15
Engineer	0.5	Hrs.	\$139.15	\$69.58
<b>Sub.</b>				<b>\$619.28</b>
<b>Roadway Base Materials Testing - Laboratory</b>				
Tech Time	3	Hrs.	\$44.95	\$134.85
Trip Charge	50	Mi.	\$0.48	\$24.00
Sieve Analysis	1	Ea.	\$49.35	\$49.35
Texas Wet Ball Mill	1	Ea.	\$191.95	\$191.95
Atterberg	1	Ea.	\$49.35	\$49.35
Moisture-Density Determ	1	Ea.	\$164.55	\$164.55
Clerical/Admin.	0.5	Hrs.	\$43.85	\$21.93
Eng. Spec.	0.5	Hrs.	\$60.30	\$30.15
Engineer	0.5	Hrs.	\$139.15	\$69.58
<b>Sub.</b>				<b>\$735.70</b>
<b>Base Material Field Density Testing</b>				
Tech Time	6	Hrs.	\$44.95	\$269.70
Trip Charge	100	Mi	\$0.48	\$48.00
Comp. Test	8	Ea.	\$19.75	\$158.00
Clerical/Admin.	0.5	Hrs.	\$43.85	\$21.93
Eng. Spec.	0.5	Hrs.	\$60.30	\$30.15
Engineer	0.5	Hrs.	\$139.15	\$69.58
<b>Sub.</b>				<b>\$597.35</b>
<b>Asphalt Testing-Field and Laboratory</b>				
Tech Time	6	Hrs.	\$44.95	\$269.70
Trip Charge	125	Mi	\$0.48	\$60.00
Rolling Patterns	2	Ea.	\$32.85	\$65.70
Density of Asphaltic Cores	2	Pr.	\$27.45	\$54.90
%AC-Grad	1	Ea.	\$191.85	\$191.85
Clerical/Admin.	1	Hrs.	\$43.85	\$43.85
Maximum Spg.	1	Ea.	\$93.20	\$93.20
Asphalt Thickness	4	Ea.	\$32.95	\$131.80
Eng. Spec.	1	Hrs.	\$60.30	\$60.30
Engineer	1	Hrs.	\$139.15	\$139.15
<b>Sub.</b>				<b>\$1,110.45</b>

**Total Estimated Material Testing Fees    \$3,496.89**

**Attachment D**  
**La Pampa Subdivision (1200 L.F.)**  
**Prepared for Hidalgo County Pct 1**

<b>Roadway Subgrade Materials Testing - Laboratory</b>				
Tech Time	3	Hrs.	\$44.95	\$134.85
Trip Charge	50	Mi.	\$0.48	\$24.00
Atterberg	1	Ea.	\$49.35	\$49.35
Moisture-Density Determ	1	Ea.	\$164.55	\$164.55
Clerical/Admin.	0.25	Hrs.	\$43.85	\$10.96
Eng. Spec.	0.25	Hrs.	\$60.30	\$15.08
Engineer	0.25	Hrs.	\$139.15	\$34.79
<b>Sub.</b>				<b>\$433.58</b>
<b>Roadway Subgrade Field Density Testing</b>				
Tech Time	4	Hrs.	\$44.95	\$179.80
Trip Charge	80	Mi.	\$0.48	\$38.40
Comp. Test	5	Ea.	\$19.75	\$98.75
Clerical/Admin.	0.25	Hrs.	\$43.85	\$10.96
Eng. Spec.	0.25	Hrs.	\$60.30	\$15.08
Engineer	0.25	Hrs.	\$139.15	\$34.79
<b>Sub.</b>				<b>\$377.78</b>
<b>Roadway Base Materials Testing - Laboratory</b>				
Tech Time	3	Hrs.	\$44.95	\$134.85
Trip Charge	40	Mi.	\$0.48	\$19.20
Sieve Analysis	1	Ea.	\$49.35	\$49.35
Texas Wet Ball Mill	1	Ea.	\$191.95	\$191.95
Atterberg	1	Ea.	\$49.35	\$49.35
Moisture-Density Determ	1	Ea.	\$164.55	\$164.55
Clerical/Admin.	0.25	Hrs.	\$43.85	\$10.96
Eng. Spec.	0.25	Hrs.	\$60.30	\$15.08
Engineer	0.25	Hrs.	\$139.15	\$34.79
<b>Sub.</b>				<b>\$670.08</b>
<b>Base Material Field Density Testing</b>				
Tech Time	4	Hrs.	\$44.95	\$179.80
Trip Charge	80	Mi.	\$0.48	\$38.40
Comp. Test	6	Ea.	\$19.75	\$118.50
Clerical/Admin.	0.5	Hrs.	\$43.85	\$21.93
Eng. Spec.	0.25	Hrs.	\$60.30	\$15.08
Engineer	0.25	Hrs.	\$139.15	\$34.79
<b>Sub.</b>				<b>\$408.49</b>
<b>Asphalt Testing-Field and Laboratory</b>				
Tech Time	6	Hrs.	\$44.95	\$269.70
Trip Charge	120	Mi.	\$0.48	\$57.60
Rolling Patterns	2	Ea.	\$32.85	\$65.70
Density of Asphaltic Cores	1	Pr.	\$27.45	\$27.45
%AC-Grad	1	Ea.	\$191.85	\$191.85
Clerical/Admin.	0.5	Hrs.	\$43.85	\$21.93
Maximum Spg.	1	Ea.	\$93.20	\$93.20
Asphalt Thickness	3	Ea.	\$32.95	\$98.85
Eng. Spec.	0.25	Hrs.	\$60.30	\$15.08
Engineer	0.25	Hrs.	\$139.15	\$34.79
<b>Sub.</b>				<b>\$876.14</b>

**Total Estimated Material Testing Fees \$2,766.77**

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

***PROJECT:*** Colonia Access Program Projects in Hidalgo County Precinct No. One (1).

**Contract # C-CAP-12-194-07-31**

**Colonia Name**

Barboza Lopez #3	\$3,157.72
Flora Subdivision	\$3,496.89
La Pampa Subdivision	\$2,766.77

<b>Total</b>	<b>\$9,421.38</b>
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