

HIDALGO COUNTY
Professional Engineering Services
Contract # C-11-062-04-12
Work Authorization Form

WORK AUTHORIZATION NO. 4

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 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 Flood Drainage Improvements Project Phase I – "Trenton Drain" Construction 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 **\$8,566.87**. 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. 4 shall be funded through funding source:
Account No. 14009463 Special Revenue
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. #4.

HIDALGO COUNTY
COMMISSIONER PRECINCT NO. 4:

BY: Joseph Palacios RAB

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 _____, 2011.

THE ENGINEER:
L&G ENGINEERING LABORATORY, LLC

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: Flood Drainage Improvements Project Phase I – "Trenton Drain" In Hidalgo County Precinct No. Four (4)

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 **Flood Drainage Improvements Project Phase I – "Trenton Drain" Construction Project.**

ATTACHMENT "B"
Scope of Services (Engineer)

PROJECT: Flood Drainage Improvements Project Phase I – "Trenton Drain" 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 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 **Flood Drainage Improvements Project Phase I – "Trenton Drain" 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 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: Flood Drainage Improvements Project Phase I – "Trenton Drain" In Hidalgo County Precinct No. Four (4)

Work Schedule

L&G Engineering Laboratory will provide **Hidalgo County Pct. # 4** with **Construction Materials Testing Services** as outlined in **Contract Agreement C-11-062-04-12**.

ATTACHMENT "D"
Cost Proposal

PROJECT: Flood Drainage Improvements Project Phase I – "Trenton Drain" In Hidalgo County Precinct No. Four (4)

See Attached

Attachment "I"
Hidalgo County Flood Drainage Impvts Project Ph. I - "Trenton Drain"
Prepared for Hidalgo County Pct No. 4

Subgrade - Pipe Backfill Testing - Laboratory					
Tech Time	7.5	Hrs.	\$45.75	\$343.13	
Trip Charge	75	Mi.	\$0.50	\$37.50	3
Atterberg	3	Ea.	\$76.18	\$228.54	Site Visits
Moisture-Density Determ	3	Ea.	\$196.83	\$590.49	for
Reports	3	Ea.	\$22.56	\$67.68	Sample
Eng. Spec.	0.75	Hrs.	\$114.30	\$85.73	Pickup
Engineer	0.75	Hrs.	\$152.47	\$114.35	3 proctors
				Sub.	\$1,467.41
Subgrade - Pipe Backfill Field Density Testing					
Tech Time	16	Hrs.	\$45.75	\$732.00	
Trip Charge	200	Mi	\$0.50	\$100.00	8 visits
Comp. Test	24	Ea.	\$22.87	\$548.88	to perform
Reports	8	Ea.	\$22.56	\$180.48	random
Eng. Spec.	2	Hrs.	\$114.30	\$228.60	field density
Engineer	2	Hrs.	\$152.47	\$304.94	testing
				Sub.	\$2,094.90
Base Material Testing - Laboratory Testing					
Tech Time	2.5	Hrs.	\$45.75	\$114.38	
Trip Charge	25	Mi.	\$0.50	\$12.50	1
Atterberg	1	Ea.	\$76.18	\$76.18	Site Visit
Moisture-Density Determ	1	Ea.	\$196.83	\$196.83	for
Sieve Analysis	1	Ea.	\$57.12	\$57.12	
Reports	1	Ea.	\$22.56	\$22.56	Sample
Eng. Spec.	0.25	Hrs.	\$114.30	\$28.58	Pickup
Engineer	0.25	Hrs.	\$152.47	\$38.12	
				Sub.	\$546.26
Base Material - Field Density Testing					
Tech Time	8	Hrs.	\$45.75	\$366.00	
Trip Charge	100	Mi	\$0.50	\$50.00	4 visits
Comp. Test	8	Ea.	\$22.87	\$182.96	to perform
Reports	4	Ea.	\$22.56	\$90.24	testing
Eng. Spec.	1	Hrs.	\$114.30	\$114.30	
Engineer	1	Hrs.	\$152.47	\$152.47	
				Sub.	\$955.97
Concrete Placement - Rip Rap - Misc Concrete Placements					
Air Content	4	Ea.	\$22.82	\$91.28	
Cylinder Prep/Hold/Cure	16	Ea.	\$11.49	\$183.84	
Cylinder Compressive Strength	16	Ea.	\$15.22	\$243.52	4 site
Tech Time (Concrete)	16	Hr.	\$58.41	\$934.56	visits
Report	12	Ea.	\$22.56	\$270.72	to perform
Trip Charge	200	Mi	\$0.50	\$100.00	random
Eng. Spec.	3	Hrs.	\$114.30	\$342.90	testing
Engineer	3	Hrs.	\$152.47	\$457.41	
				Sub.	\$2,624.23

Field and Laboratory Asphalt Testing				
Tech Time (Asphalt)	4	Ea.	\$58.41	\$233.64
Trip Charge	50	Ea.	\$0.50	\$25.00
Comp Test	4	Ea.	\$22.87	\$91.48
%AC/Gradation	1	Hr.	\$222.33	\$222.33
Reports	2	Ea.	\$22.56	\$45.12
Thickness Determination	2	Mi	\$63.57	\$127.14
Eng. Spec.	0.5	Hrs.	\$114.30	\$57.15
Engineer	0.5	Hrs.	\$152.47	<u>\$76.24</u>
			Sub.	\$878.10

Estimated Field and Laboratory Testing Fees \$8,566.87