

HIDALGO COUNTY
Professional Engineering Services
Contract # C-14-330-09-09
Work Authorization Form

WORK AUTHORIZATION NO. 3

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 “Hoehn Subdv.” 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 **\$42,900.53**. 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. 3 shall be funded through funding source: Account No. (to be determined by Budget Department)
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. #3.

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 _____, 2015.

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: “Hoehn Subdivision Sanitary Sewer Improvements” Project In 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 **“Hoehn Subdivision Sanitary Sewer Improvements.” Project In Hidalgo County Precinct No. Four (4)**

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

PROJECT: “Hoehn Subdivision Sanitary Sewer Improvements” 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 **“Hoehn Subdivision Sanitary Sewer Improvements” 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: "Hoehn Subdivision Sanitary Sewer Improvements" 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-14-330-09-09.

ATTACHMENT "D"
Cost Proposal

***PROJECT: "Hoehn Subdivision Sanitary Sewer Improvements" Project In Hidalgo County
Precinct No. Four (4)***

See Attached



L & G Engineering

Consulting Engineers

Attachment "D"
L&G Engineering
Hoehn Subdivision Sanitary Sewer Improvements
Prepared for Hidalgo County Precinct No. 4

<i>In-Situ Soils Testing-Laboratory-Sanitary Sewer & Force Main</i>					
Standard Proctor	5	Ea.	\$202.78	\$1,013.90	<i>In Situ Subgrade Moisture-Density Testing on the following: Trenches for 8" and 12" Sanitary Sewer 8" Force Main</i>
Atterberg Limits of Soils	5	Ea.	\$78.48	\$392.40	
Material Finer #200	5	Ea.	\$65.49	\$327.45	
Test Report	5	Ea.	\$23.24	\$116.20	
Technician (Soils)	15	Hr.	\$47.14	\$707.10	
Mileage (Trip Charge)	400	Mi.	\$0.52	\$208.00	
				Subtotal:	\$2,765.05
<i>In-Situ Soils Testing-Field -Sanitary Sewer and Force Main</i>					
Field Density Test	450	Ea.	\$23.56	\$10,602.00	<i>Trench Backfill Field Density Testing on the Following: 8" and 12" Sanitary Sewer and 8" Force Main one test per 250 L.F. per each 12" Layer Total 16,000 L.F. x avg. 7' cover</i>
Test Report	60	Ea.	\$23.24	\$1,394.40	
Technician (Soils)	150	Hr.	\$47.14	\$7,071.00	
Mileage (Trip Charge)	4800	Mi.	\$0.52	\$2,496.00	
				Subtotal:	
<i>Treated Backfill Sand Testing-Laboratory</i>					
Standard Proctor	2	Ea.	\$202.78	\$405.56	<i>Quantity Based On 2 visits to obtain samples for laboratory testing</i>
Atterberg Limits of Soils	2	Ea.	\$78.48	\$156.96	
Test Report	2	Ea.	\$23.24	\$46.48	
Technician (Soils)	3	Hr.	\$47.14	\$141.42	
Mileage (Trip Charge)	160	Mi.	\$0.52	\$83.20	
				Subtotal:	\$833.62
<i>Treated Backfill Sand Soils Testing-Field</i>					
Field Density Test	40	Ea.	\$23.56	\$942.40	<i>Quantity Based On 10 site visits to perform compaction testing</i>
Test Report	10	Ea.	\$23.24	\$232.40	
Technician (Soils)	25	Hr.	\$47.14	\$1,178.50	
Mileage (Trip Charge)	800	Mi.	\$0.52	\$416.00	
				Subtotal:	\$2,769.30
<i>Flexible Base (Caliche) Pavement Repair Areas -Testing-Laboratory</i>					
Standard Proctor	1	Ea.	\$202.78	\$202.78	<i>Quantity based on 1 site visit to obtain sample for laboratory testing</i>
Atterberg Limits of Soils	1	Ea.	\$78.48	\$78.48	
Sieve Analysis (Dry)(4 Sieve)	1	Ea.	\$58.85	\$58.85	
Texas Wet Ball Mill	1	Ea.	\$229.11	\$229.11	
Technician (Soils)	4	Hr.	\$47.14	\$188.56	
Test Report	2	Ea.	\$23.24	\$46.48	
Mileage (Trip Charge)	84	Mi.	\$0.52	\$43.68	
				Subtotal:	\$847.94
<i>Flexible Base (Caliche) Pavement Repair Areas-Field Testing and Monitoring</i>					
Field Density Test	40	Ea.	\$23.56	\$942.40	<i>Quantities based on ten (10) visits to perform in-place testing</i>
Test Report	10	Ea.	\$23.24	\$232.40	
Technician (Soils)	25	Hr.	\$47.14	\$1,178.50	
Mileage (Trip Charge)	800	Mi.	\$0.52	\$416.00	
				Subtotal:	\$2,769.30
<i>Hot Mix Asphalt Paving-Pavement Repair Areas</i>					
Ext. Sieve Analysis/Asph Content	2	Ea.	\$229.04	\$458.08	<i>Quantities based on site visits to perform testing</i>
Density of Asphaltic Cores	3	Ea.	\$71.96	\$215.88	
Asphalt Rolling Patterns	10	Ea.	\$39.27	\$392.70	
Coring/ACP Thickness	16	Ea.	\$65.49	\$1,047.84	
Technician (Asphalt)	16	Hr.	\$60.18	\$962.88	
Mileage (Trip Charge)	300	Mi.	\$0.52	\$156.00	
Test Report	8	Ea.	\$23.24	\$185.92	
				Subtotal:	\$3,419.30

Concrete Placement - Lift Station

Air Content(Pressure Method)	2	Ea.	\$23.51	\$47.02	<i>Assuming 2 Placements on Lift Station Slab</i>
Test Report	2	Ea.	\$23.24	\$46.48	
Technician (Concrete)	6	Hr.	\$60.18	\$361.08	
Mileage (Trip Charge)	200	Mi.	\$0.52	\$104.00	
			Subtotal:	\$558.58	
Cyl. Spec. Prep, Hold, Cure	8	Ea.	\$11.83	\$94.64	<i>Quantities based on sample pickup and deliver to laboratory for Compression Testing</i>
Comp. Str. Of Cyl. Specimen	8	Ea.	\$15.68	\$125.44	
Test Reports (7 and 28 day)	4	Ea.	\$23.24	\$92.96	
Technician (Concrete)	6	Hr.	\$60.18	\$361.08	
Mileage (Trip Charge)	200	Mi.	\$0.52	\$104.00	
			Subtotal:	\$778.12	

Estimated Field and Laboratory Test Fees				\$36,304.61
Engineering Specialist (Report Review)(Hr.)	24	\$117.75		\$2,826.00
Engineer-Principal (Report Review)(Hr.)	24	\$157.08		\$3,769.92
Estimated Materials Testing Total				\$42,900.53