

**HIDALGO COUNTY
Professional Engineering Services
Agreement #C-17-137-05-16**

WORK AUTHORIZATION NO. 2

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 CONSULTING ENGINEERS, INC.** d/b/a **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 Environmental Services for Dicker Road within Hidalgo County Precinct 2.

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 \$148,913.00. This amount is based upon the costs outlined in the Estimated **Fee 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 4 of the Agreement.

PART 4. FUNDING

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

Account No. 8-1315-431-00-122-062-0-721

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.**

PART 6. RESPONSIBILITIES AND OBLIGATIONS

This Authorization does not waive the parties' responsibilities and obligations provided under the **Agreement.**

EXHIBIT A

Scope of Services to be provided by the County

The following provides an outline of the services to be provided by the Owner in the development of Projects (as defined and more particularly identified in Exhibit "A" attached to this Agreement).

General:

The Owner will provide to the Engineer the following:

- 1) Issue a Notice to Proceed (NOP) to initiate all required services.
- 2) Payment for work performed by the Engineer and accepted by the Owner in accordance with Section 4 of this Agreement.
- 3) Assistance to the Engineer, as necessary, to obtain the required data and information from other Engineering firms, local, regional, State and Federal agencies the Engineer cannot easily obtain.
- 4) Obtain Right-of-Entry (ROE) and access to the site and access to structures on the site as necessary and as often as necessary.
- 5) Provide any available relevant data the Owner may have on file concerning the project.
- 6) Provide timely review and decisions in response to the Engineer's request for information and/or required submittals and deliverables, in order for the Engineer to maintain the agreed upon work schedule prepared in accordance with Exhibit "C" attached to this Agreement.
- 7) Attend and participate in progress meetings as required and as coordinated and conducted by Engineer.

EXHIBIT B

Scope of Services to be provided by the Engineer

Hidalgo County Precinct #2 has requested a scope of work and cost proposal from L&G Engineering (L&G) to conduct the necessary permitting and construction management for the Dicker Road improvement project. The limits of the project are from Spur 115 (23rd Street) to FM 2016 (Jackson Road). The project includes three drainage outfalls which have been determined to be jurisdictional by the U.S. Army Corp of Engineers (USACE); therefore, requiring Nationwide Permits (NWP) for the widening and reconstruction of Dicker Road from two to four lanes with a center turn lane, shoulders and sidewalks. See the attached Location Map labeled as Exhibit A. The scope of work for this Work Authorization (WA) is outlined below.

Scope of Work

(FC 120) Task 1: Review of Existing Data and Field Work

L&G shall review the Preliminary Jurisdictional Determination (PDJ) documentation previously prepared, submitted, and received by Consultant/TxDOT from the USACE dated January 2015 along with available data pertaining to submittal.

L&G shall review the Finding of No Significant Impact (FONSI) document to assess documented water resources impacts at the drainage ditch crossings and ensure all resource agency coordination correspondence is available.

L&G shall review U.S. Geological Surveys (USGS) 7.5-minute topographic maps, National Wetland Inventory (NWI) maps, USDA NRCS soil survey maps for Hidalgo County, relevant aerial photography, historical maps, land use maps, and any other available maps for use in the compliance coordination process.

L&G shall review previously approved schematics and compare with the newly prepared proposed Plan and Profile (P&P) Sheets at each drainage crossing prepared by the Engineer.

L&G shall conduct field visits to verify and document existing conditions at each drainage crossing. These field visits shall entail taking photographs and random shovel tests to obtain soil samples at each drainage crossing to randomly proof previously obtained results.

L&G shall assess the impacts and determine the appropriate NWP for the project.

(FC 120) Task 2: Preparation of Permit Application

L&G shall complete the application for the permit and coordinate the necessary signatures with Hidalgo County Precinct #2.

L&G shall prepare the attachments, illustrations and drawings such as vicinity maps, plan view maps, and typical cross sections to complete the permit application.

L&G shall submit one complete original package to USACE, with one copy each to Hidalgo County Precinct #2 and TxDOT.

(FC 120) Task 3: Coordination with USACE and TxDOT

L&G shall coordinate with USACE on a bi-monthly basis on the status of the permit to ensure the permit is being processed.

L&G shall coordinate with the Texas Department of Transportation (TxDOT) Environmental (ENV) group on a bi-month basis to provide updates on the status of the permit on an as needed basis.

(FC 120) Task 4: Quality Assurance Plan (QAP) – 3rd Party Impact Verification

As part of a Quality Assurance Plan (QAP) to reduce potential construction delays L&G shall perform the following tasks:

Once 100% PS&E has been submitted L&G shall perform final engineering review of the design at the locations associated with the NWP to ensure compliance with the FONSI and NWP.

L&G shall provide updates to the Environmental Permits, Issues, and Commitment (EPIC) Sheets provided by the Engineer needed to be updated based on the outcome of the final NWP prior to bidding the project.

L&G shall monitor change orders during construction as they relate to structures associated with the NWP and provide guidance and support to avoid permitting delays during construction.

(FC 320) Task 5: Environmental Permit Compliance Construction Monitoring

Once the project has received bids for construction and a construction commencement date is known, L&G shall submit a Pre-Construction Notice along with an agenda packet to the USACE.

L&G shall attend the pre-construction meeting.

L&G shall provide the General Contractor with the General Conditions of the Nationwide Permit (NWP).

L&G shall review the General Conditions of the NWP at the pre-construction meeting with the Contractor.

L&G shall conduct periodic field visits to the construction site during the construction of the culverts/bridge at the drainage crossings to ensure compliance of the General Conditions of NWP throughout the duration of construction and document and photograph field visits.

L&G shall maintain an administrative record of the environmental permit compliance activities during construction for final submittal to USACE upon construction completion.

Once construction is completed, L&G shall assist Hidalgo County Precinct #2 with the compliance certification which provides the USACE a signed certification documenting completion of construction activity and will submit the necessary paperwork to USACE.

(FC 164) Task 6: Contract Management

L&G has conducted a preliminary background search on the project to develop a cost proposal for this scope of work. L&G will develop a plan to ensure the project tasks are performed within budget and scope of work. The work plan will include developing a project schedule and coordinating field work. L&G will coordinate with Hidalgo County Precinct #2 by providing a monthly progress report until construction completion. L&G will ensure all work is performed on a timely basis, the QAP is followed and Quality Assurance/Quality Control (QA/QC) is performed on each task.

(FC 164) Task 7: Administrative Management

L&G is aware the subject project is a high priority for Hidalgo County Precinct # 2 and currently on a fast track to accelerate the construction letting from the currently scheduled FY 2024 letting to as early as FY 2019. This task will require additional coordination with TxDOT, USACE, Hidalgo County Metropolitan Planning Organization (HCMPO), project engineers, and the Hidalgo County to avoid potential delays.

As a result of the accelerated project schedule, L&G will, at a minimum, provide in person quarterly updates to the Commissioner and Chief Administrator, a detailed description of ongoing activities that will be taking place under this Work Authorization.

EXHIBIT "C"
PROJECT SCHEDULE
On-Call Services for "Road and Bridge, C.I.P. and Other Projects in General"

WA #2 - Dicker Road ~ Environmental Services

TASK AND DESCRIPTION	2018								2019				2020-2021			
	JAN	FEB	MAR	APR	MAY	JUN	JUL-SEPT	OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC	JAN-MAR	APR-JUN	JUL-SEP	OCT-DEC
Dicker Road ~ Environmental Services																
<u>Notice to Proceed</u>																
<u>Task 1: Review of Existing Data and Field Work</u>																
<u>Task 2: Preparation of Permit Application</u>																
<u>Submit Application to USACE</u>																
<u>Task 3: Coordination with USACE and TxDOT</u>																
<u>Anticipated receipt of NWP</u>																
<u>Task 4: Quality Assurance Plan - 3rd Party Impact Verification</u>																
<u>Anticipated Letting Date by Hidalgo County</u>																
<u>Task 5: Environmental Permit Compliance Construction Monitoring</u>											To Approximately 24 Months					
<u>Task 6: Contract Management</u>																
<u>Task 7: Administrative Management</u>																

L&G Engineering
 Hidalgo County

EXHIBIT D
FEE PROPOSAL
On-Call Services for "Road and Bridge, C.I.P. and Other Projects in General"
WA#2 - Dicker Road Project ~ Environmental Services

Dicker Road (Environmental Services)		MANHOURS							L&G TOTAL HOURS	L&G Total Line Item Cost
		Senior Project Manager	Senior Engineer	Cadd Operator/GIS Analyst	Senior Engineering Tech	Senior Environmental Scientist / Specialist	Environmental Planner / Specialist	Admin / Clerical		
CONTRACT RATE (FY 2018)		\$204.04	\$169.06	\$64.13	\$93.28	\$163.23	\$81.62	\$58.30		
1	(FC 120) Review of Existing Data and Field Work			16	40	16	40		112	\$ 10,633.76
2	(FC 120) Preparation of Permit Application			16	40	16	40	8	120	\$ 11,100.16
3	(FC 120) Coordination w/USACE and TxDOT				24				24	\$ 2,238.72
4	(FC 120) Quality Assurance Plan - 3rd Party Impact Verification				40	16	40	8	104	\$ 10,074.34
5	(FC 320) Environmental Permit Compliance Construction Monitoring				384		384		768	\$ 67,161.60
6	(FC 164) Contract & Administrative Management	59	44			144		81	328	\$ 47,704.42
7									0	\$ -
8									0	\$ -
9									0	\$ -
10									0	\$ -
11									0	\$ -
12									0	\$ -
Total Hours		59	44	32	528	192	504	97	1456	\$ 148,913.00

* Rounded amount

***GRAND TOTAL**

\$ 148,913.00