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DEC 22 2017
ARTURO GUAJARDO, JR. COUNTY CLERK HIDALGO COUNTY, TEXAS
BY _____ DEPUTY

**HIDALGO COUNTY**  
**Professional Engineering Services**  
**Contract # C-17-228-08-08**  
**Work Authorization Form**

**WORK AUTHORIZATION NO. 1**

**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, Terracon Consultants, Inc., professional engineers of Pharr, Texas, hereinafter called "**Engineer**".

**PART 1. SCOPE OF WORK**

The purpose of this Work Authorization is for the **Engineer** to provide construction material testing services for the Industrial Blvd. Project located along Industrial Boulevard between 15<sup>th</sup> Street and Military Highway in Hidalgo, TX.

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 **\$ 6,274.00**. 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** \_\_\_\_\_ of the Agreement.

**PART 4. FUNDING**

This Work Authorization No. 1 shall be funded through funding source:

Account No. \_\_\_\_\_

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 project completion as indicated in the "Exhibit C-Preliminary Work Schedule".

**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 #2**, as to content and detail of this **Work Authorization No. 1**.

**HIDALGO COUNTY PRECINCT #2** \_\_\_\_\_

BY:           EAC CA          

**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 \_\_\_\_\_, 2017.

**THE ENGINEER:**  
**Terracon Consultants, Inc.**

**THE OWNER:**  
**HIDALGO COUNTY**

          JAG            
By: **Jorge A. Flores, P.G.**

          Ramon Garcia            
By: **Ramon Garcia, County Judge**

**ATTEST:**

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



12/19/17 *ms*

**LIST OF ATTACHMENTS**

- EXHIBIT "A" - Service to be Provided by the Owner
- EXHIBIT "B" - Services to be Provided by the Engineer
- EXHIBIT "C" - Work Schedule
- EXHIBIT "D" - Cost Proposal

## **EXHIBIT “A”**

### Services to be Provided by 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 Laboratory the following:

- 1) Provide the authorization to proceed with services through coordination with the project consulting and design Laboratory.
- 2) Payment for work performed by the Laboratory and accepted by the Owner in accordance with Article 3 of this Agreement.
- 3) Assistance to the Laboratory, as necessary, to obtain the required data and information from other local, regional, State and Federal agencies the Laboratory cannot easily obtain.
- 4) Provide any available relevant data the Owner may have on file concerning the projects.
- 5) Provide timely review and decisions in response to the Laboratory’s request for information and/or required submittals and deliverables, in order for the Laboratory to maintain the agreed upon work schedule prepared in accordance with Exhibit “A” attached to this Agreement.
- 6) Attend and participate in progress meetings as required and as coordinated and conducted by Laboratory.
- 7) Provide the authorization to proceed with services on project by project basis through consulting design and construction Laboratory.

## **EXHIBIT B**

### **Scope of Services to be provided by the Engineer**

Terracon will perform materials testing in general accordance with the project specifications. The time required for quality control testing during the construction phase on the project is directly related to the contractor's scheduling and performance. Therefore, our fee for materials testing and observation services will be based upon applicable unit prices and hourly rates. Our anticipated scope of services is as follows:

- Field density/moisture testing and laboratory evaluation of soils; and
- Field testing and laboratory evaluation of asphaltic concrete materials used during pavement construction.

Experienced field/laboratory personnel will be provided for testing services. All field/laboratory materials testing/inspection will be performed under the direction of a Texas Registered Professional Engineer. A detailed scope of services envisioned to complete the testing is as follows:

#### **SOILS**

The field services will be supported by appropriate laboratory evaluation of soils used as fill or backfill on the site. The laboratory testing will include laboratory moisture-density relationship (Proctor), with sieve analysis and Atterberg limit determinations for classification and/or determination of import fill suitability. Laboratory material evaluations will be conducted as specified for each type of soil encountered during fill placement. The testing will be performed to check compliance with project specifications. The project contractor and construction manager personnel on the site will be informed of our field observations and test results. Written reports of test results will be prepared on a regular basis throughout the project duration and distributed per your directive.

#### **ASPHALT**

Observations/testing will be performed under the direction of a TxDOT Level 1A and 1B Certified Technician on as requested basis during placement of asphalt at the project. The asphalt will be sampled and submitted to our laboratory for mix properties, asphalt content and aggregate grain size distribution to verify compliance with project specifications. Asphalt cores will confirm thickness and nuclear gauge density.

#### **PROJECT MANAGEMENT**

The project manager will be the point of contact for the project and his duties include as related materials testing and observation services the following:

- a) Attend construction meetings, on as scheduled basis;
- b) Coordinate field and laboratory testing;

- c) Communicate with Terracon field technicians, Contractor, and Owner's site representative;
- d) Review laboratory and field test reports;
- e) Control our budget and invoice;
- f) Performing site visits to the project site; and
- g) Provide technical assistance.

## **EXHIBIT C – Work Schedule**

Terracon's work schedule is directly related to the contractor's scheduling and performance. It is the responsibility of the contractor or your designated representative to notify Terracon, in advance (minimum of 24 hour notice), for testing services required on this project. Our services will be performed on an as requested basis.

## EXHIBIT D – PROPOSAL

Our fee estimate is in accordance with the time and tests performed as shown below.

### SOILS

Estimate 42 hours in-place nuclear moisture-density testing @ \$45/hour.....	\$ 1,890.00
Estimate 1 standard proctor (soil (4" and 6" mold, each)) @ \$225/test.....	\$ 225.00
Estimate 1 modified proctor (soil with gravel, base materials, each) @ \$275/test.....	\$ 275.00
Estimate 2 Atterberg Limits (Liquid and Plastic Limits – Single Point Test) @ \$75/test.....	\$ 150.00
Estimate 1 sieve analysis through 200 sieve (washed)@ \$110/test.....	\$ 110.00
Estimate 12 nuclear gauge days @ \$35/day.....	\$ 420.00
Estimate 14 vehicle trip charge @ \$30/trip.....	\$ 420.00
<i>Sub-Total (Soils).....</i>	<i>\$ 3,490.00</i>

### ASPHALT

Estimate 24 hours asphalt observations/testing (senior tech) @ \$55/hour.....	\$ 1,320.00
Estimate 1 coring rig & generator, per day @ \$300/day.....	\$ 300.00
Estimate 6 asphalt cores, (patching of holes) @ \$44/hole.....	\$ 264.00
Estimate 3 vehicle trips @ \$30/trip.....	\$ 90.00
<i>Sub-Total (Asphalt).....</i>	<i>\$ 1,974.00</i>
CME Project Manager 6 hours @ \$90/hour.....	\$ 540.00
Senior Engineer 2 hours @ \$135/hour.....	\$ 270.00
<i>Total Cost.....</i>	<i>\$ 6,274.00</i>