

**HIDALGO COUNTY**  
**Professional Engineering Services**  
**Contract # C-18-221-08-28**  
**Work Authorization Form**

**WORK AUTHORIZATION NO. 6**

**THIS WORK AUTHORIZATION** is made pursuant to the terms and conditions of Section 4 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 Las Milpas Park Youth Facility Project.

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 **\$ 12,762.00**. 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. 6 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-Work Schedule".

## **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;
- Field testing and laboratory evaluation of concrete, observation of reinforced concrete;
- Field testing and laboratory evaluation of asphaltic concrete materials used during pavement construction; and
- Weld/bolt/metal deck observation to check conformance to the project drawings and/or building code.

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 limits 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.

#### **CONCRETE**

American Concrete Institute (ACI) or equivalent qualified engineering technicians will be provided on an as-requested basis to sample the plastic concrete used during construction. The concrete will be tested for slump, air content and temperature at the time of placement. Sets of concrete cylinders will be molded at each sampling.

Concrete specimens will have initial field curing as recommended by the ACI standards at the site and returned to our local or portable laboratory for completing final curing prior to testing. Compressive strength testing will be conducted at 7-days (1 or 2 specimens), 28-days (2 or 3 specimens) intervals to determine compliance with project specifications. All test results will be conveyed after testing is completed

## **ASPHALT**

Observations/testing will be performed by, or under the direction of TxDOT Level 1A and 1B certified engineering technicians or equivalent qualified engineering technicians 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.

## **STRUCTURAL STEEL**

Certified Welding Inspector (CWI) will make periodic observations of the structure for compliance to the project drawings and building code. Areas to be observed will include welds, bolted connections, and steel decking. Observations will be verbally transmitted on-site at the time of inspection with a written report issued as a follow-up.

Our services do not include observation and testing services relating to paints, NDE of steel members (ultra-sonic, radiography, and magnetic particle). Our services do not include observation and testing services at locations other than the project site or our laboratory.

## **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) Review concrete mixes submitted, on as scheduled basis;
- c) Coordinate field and laboratory testing;
- d) Communicate with Terracon field technicians, Contractor, and Owner's site representative;
- e) Review laboratory and field test reports;
- f) Control our budget and invoice;
- g) Performing site visits to the project site; and
- h) 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"**  
**COST PROPOSAL**

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

**SOILS**

Estimate 75 hours field testing and observation @ \$45/hour .....	\$ 3,375.00
Estimate 3 standard proctors @ \$225/test .....	\$ 675.00
Estimate 1 modified proctors @ \$275/test.....	\$ 275.00
Estimate 4 Atterberg Limits @ \$75/test.....	\$ 300.00
Estimate 4 percent passing No.200 sieve tests @ \$55/test .....	\$ 220.00
Estimate 1 lime determination tests (using PI) @ \$300/test.....	\$ 300.00
Estimate 18 nuclear gauge days @ \$35/day.....	\$ 630.00
Estimate 25 vehicle trips @ \$30/trip.....	\$ 750.00
Sub-Total (Soils).....	\$ 6,525.00

**CONCRETE**

Estimate 35 hours concrete testing and observation @ \$45/hour.....	\$ 1,575.00
Estimate 30 compressive strength tests @ \$14.50/test .....	\$ 435.00
Estimate 10 vehicle trips @ \$30/trip .....	\$ 300.00
Sub-Total (Concrete).....	\$ 2,310.00

**ASPHALT**

Estimate 15 hours senior engineering technician @ \$55/hour .....	\$ 825.00
Estimate 1 nuclear gauge days @ \$35/day.....	\$ 35.00
Estimate 1 maximum theoretical specific gravity @ \$110/day .....	\$ 110.00
Estimate 1 core rig and equipment day @ \$150/day.....	\$ 150.00
Estimate 3 asphalt cores (patching of holes, each) @ \$44/core patch .....	\$ 132.00
Estimate 3 vehicle trip charge @ \$30/trip .....	\$ 90.00
Sub-Total (Asphalt).....	\$ 1,342.00

**STRUCTURAL STEEL**

Estimate 16 hours of a Certified Welding Inspector (CWI) @ \$95/hour .....	\$ 1,520.00
Estimate 4 vehicle trips @ \$30/trip .....	\$ 120.00
Sub-Total (Structural Steel).....	\$ 1,640.00

CME Project Manager 6 hours @ \$90/hour .....	\$ 540.00
Senior Engineer 3 hour @ \$135/hour.....	\$ 405.00

Total Cost .....

**\$ 12,762.00**

# CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 of 1

Complete Nos. 1 - 4 and 6 if there are interested parties.  
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

**OFFICE USE ONLY  
CERTIFICATION OF FILING**

**1 Name of business entity filing form, and the city, state and country of the business entity's place of business.**  
Terracon Consultants, Inc.  
Pharr, TX United States

Certificate Number:  
2019-504624

Date Filed:  
06/13/2019

**2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.**  
Hidalgo County

Date Acknowledged:

**3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.**  
C-18-221-08-28  
Construction Materials Services for Hidalgo County Precinct #2 Las Milpas Park Youth Facility Project Work Authorization No. 6

4	Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
			Controlling	Intermediary
	Packer, Gayle	Olathe, KS United States	X	
	O'Grady, Michael	Olathe, KS United States	X	
	Pavlicek, Robert	Raleigh, NC United States	X	
	Cobb, Harold	Houston, TX United States	X	
	Covert, Michael	Olathe, KS United States	X	
	Anderson, Tim	Tempe, AZ United States	X	

**5 Check only if there is NO Interested Party.**

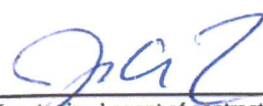
**6 UNSWORN DECLARATION**

My name is Jorge A. Flores, and my date of birth is 10/20/1972.

My address is 1506 Mid Cities Dr., Pharr, Tx., 78577, USA  
(street) (city) (state) (zip code) (country)

I declare under penalty of perjury that the foregoing is true and correct.

Executed in Hidalgo County, State of Texas, on the 13th day of June, 20 19.  
(month) (year)



Signature of authorized agent of contracting business entity  
(Declarant)

