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COUNTY CLERK
HIDALGO COUNTY, TEXAS

HIDALGO COUNTY
Professional Engineering Services
Contract # C-16-208-07-19
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 Sgt. Trevino Road Project from Raul Longoria Road to Cesar Chavez Road.

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 \$ **5,305.00**. 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. 7-1200-431-00-122-133-0-841

Requisition Number 313584 (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".

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

Observations/testing will be performed by, or under the direction of a Texas Registered Professional Engineer. 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 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.

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 – PROPOSAL

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

SOILS

Estimate 24 hours in-place nuclear moisture-density testing @ \$45/hour.....	\$ 1,080.00
Estimate 1 modified proctor (soil with gravel, base materials (6" mold)) @ \$275/test.....	\$ 275.00
Estimate 1 Atterberg Limits (Liquid and Plastic Limits – Single Point Test) @ \$75/test.....	\$ 75.00
Estimate 1 sieve analysis through 200 sieve (washed)@ \$110/test.....	\$ 110.00
Estimate 8 nuclear gauge days @ \$35/day.....	\$ 280.00
Estimate 8 vehicle trip charge @ \$30/trip.....	\$ 240.00
<i>Sub-Total (Soils)</i>	<i>\$ 2,060.00</i>

ASPHALT

Estimate 36 hours senior engineering technician @ \$55/hour.....	\$ 1,980.00
Estimate 1 core rig and equipment day @ \$150/day.....	\$ 150.00
Estimate 10 asphalt coring (patching of holes, each) @ \$44/core patch.....	\$ 440.00
Estimate 6 vehicle trip charge @ \$30/trip.....	\$ 180.00
<i>Sub-Total (Asphalt)</i>	<i>\$ 2,750.00</i>
CME Project Manager 4 hours @ \$90/hour.....	\$ 360.00
Senior Engineer 1 hour @ \$135/hour.....	\$ 135.00
<i>Total Cost</i>	<i>\$ 5,305.00</i>

AI-58161

Purchasing Department 19. B. 2.

CC - REGULAR

Meeting Date: 01/24/2017

Submitted For: Eddie Cantu, COMM. PCT. #2

Submitted By: Erika Zamora, COMM. PCT. #2

Department: COMM. PCT. #2

Information

CAPTION

Approval of Work Authorization No. 1 (with an estimated cost of \$5,305.00) as submitted by Terracon Consultants, Inc., Contract No. C-16-208-07-19 to provide construction material testing services for the Pct 2 Sgt Trevino Road Project.

BACKGROUND

Fiscal Impact

FISCAL YEAR: 2017 ACCT. #: 7-1200-431-00-122-133-0-841

FUNDS AVAILABLE Y/N?: Y MATCHING FUNDS Y/N?: N

BUDGETARY IMPACT:

Funding available as of 1/20/17.

Attachments

Work Auth #1

Form Review

Inbox	Reviewed By	Date
Purchasing Department	Marty Salazar	01/20/2017 02:53 PM
Budget & Management	Veronica Ortiz	01/20/2017 03:09 PM
Final Approval	Monica Badillo	01/20/2017 05:45 PM
Form Started By: Erika Zamora		Started On: 01/20/2017 11:36 AM
Final Approval Date: 01/20/2017		