

EXHIBIT “F”
HIDALGO COUNTY
Professional Engineering Services for Construction Material Testing Agreement
C-23-0287-08-08
(ARPA-22-124-095)

WORK AUTHORIZATION NO. 1

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of the Professional Engineering Services Agreement No. C-23-0287-08-08, incorporated herein by reference, for the **“Construction Material Testing - Hidalgo County Precinct 4 North Main Drain III Phase I Stormwater Project”** made by and between HIDALGO COUNTY, action herein by and through the Commissioner’s Court, hereinafter called the **“Owner,”** and Terracon Consultants, Inc., 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 and during the construction of the Project, or portions of the Project, as approved by the COUNTY.

The **Engineer** is to provide the scope of Services as required by the Agreement with Owner.

The scope of services to be provided by the **Engineer** is identified in **Attachment “A”** – *“Scope of Services to be provided by Engineer”* attached hereto and incorporated by reference.

PART 2. ESTIMATED COST

The estimated cost for services under this Work Authorization is **\$ 37,118.00**. This amount is based upon the costs outlined in the **Attachment “B”** – *“Fee Proposal”* attached hereto and incorporated by reference.

PART 3. PAYMENT

Compensation and payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the **Professional Engineering Services Agreement No. C-23-0287-08-08** between the **Owner** and the **Engineer**.

PART 4. FUNDING

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

Account No. 3-1290-431-50-115-282-4-723

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 the scopes of the Work Authorization, within the limits of Agreement No. C-23-0287-08-08 , provided in this Work Authorization; or on (_____ DATE)**. *If applicable:* Engineer shall conform to the

approved "Work/Project Schedule", attached hereto and incorporated by reference herein as **Attachment "C"**

PART 6. RESPONSIBILITIES AND OBLIGATIONS

This Authorization does not waive the parties' responsibilities and obligations provided under the **Agreement No. C-23-0287-08-08**

PART 7. ACKNOWLEDGEMENT AND CONFIRMATION

Acknowledgement and confirmation by **Hidalgo County Precinct 4, Commissioner Ellie Torres**, as to content and detail of this **Work Authorization No. 1**.

HIDALGO COUNTY PRECINCT No. 4

By: _____
Ellie Torres, Commissioner

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted and approved by the Hidalgo County Commissioners Court and hereby executed and effective as of the date indicated below.

APPROVED BY COMMISSIONERS' COURT ON AUGUST 8, 2023.

Agenda Item No. 91854

Executive Office: _____

ENGINEER:
Terracon Consultants, Inc.

COUNTY:
COUNTY OF HIDALGO

Jorge A. Flores, P.G, Senior Principal

Hon. Richard F. Cortez, County Judge

ATTEST:

Arturo Guajardo, Jr., County Clerk

LIST OF ATTACHMENTS:

Attachment "A" – *Scope of Services to be provided by Engineer*

Attachment "B" – *Fee Proposal*

Attachment "C" – *Approved Work/Project Schedule (If applicable)*



ATTACHMENT A

PROJECT SPECIFIC SCOPE OF SERVICES TO BE PROVIDED BY ENGINEER

1.0 SCOPE OF SERVICES

Based on our present understanding of this project, we anticipate the scope of our services to include the following:

- earthwork observation/sampling/testing
 - cast-in-place concrete observation/sampling/testing
1. Earthwork and Site Preparation Observations and Testing:
 - Observe and test fill placement and perform field density and moisture content testing during fill placement.
 - Testing quantities and frequencies will be in general accordance with the project specifications.
 - Perform laboratory testing of proposed fill soils to determine their dry density versus moisture content relationship in general accordance with the standard Proctor test method.
 2. Reinforced Concrete Observations and Testing:
 - Sample fresh concrete and perform field tests including slump, air content and temperature (ASTM C172, C143, C231, and C1064).
 - Observe placement methods and verify mix usage.
 - Perform compressive strength tests of concrete test cylinders cast in the field per ASTM C39.
 - Observe size, quantity, spacing, splice length, and cover of steel reinforcing.



ATTACHMENT B

FEE PROPOSAL

ATTACHMENT " B " FEE SCHEDULE

ESTIMATED FEE SUMMARY				
Our fee estimate is in accordance with the time and tests performed as shown below:				
Earthwork Observation/Testing				
Service	Quantity	Unit	Unit Rate	Estimate
Moisture/Density Curve (ASTM D698)	10	Each	\$ 225.00	\$ 2,250.00
Atterberg Limits (ASTM D4318)	10	Each	\$ 75.00	\$ 750.00
Sieve Analyses (-200)	10	Each	\$ 60.00	\$ 600.00
Sieve Analyses	3	Each	\$ 100.00	\$ 300.00
Nuclear Density Test	252	Each	\$ 11.50	\$ 2,898.00
Senior Engineering Technician	262	Hour	\$ 60.00	\$ 15,720.00
Vehicle Trip Charge	84	Per Trip	\$ 40.00	\$ 3,360.00
Subtotal, Earthwork				\$ 25,878.00
Concrete Observation/Testing				
Service	Quantity	Unit	Unit Rate	Estimate
Concrete Cylinders, (ASTM C31 & C39)	45	Each	\$ 15.00	\$ 675.00
Senior Engineering Technician	50	Hour	\$ 60.00	\$ 3,000.00
Vehicle Trip Charge	16	Per Trip	\$ 40.00	\$ 640.00
Subtotal, Concrete				\$ 4,315.00
Project Manager	35	Hour	\$ 135.00	\$ 4,725.00
Principal Engineer	10	Hour	\$ 175.00	\$ 1,750.00
Administrative Secretary	10	Hour	\$ 45.00	\$ 450.00
Subtotal, Project Manager				\$ 6,925.00
ESTIMATE TOTAL				\$ 37,118.00

Based on our review of the referenced documents, our estimated cost to perform the proposed scope of services is \$37,118.00. A breakdown of our cost is provided in the attached Cost Estimate. For the purposes of developing this estimate, the quantities were estimated based on typical means and methods by contractors/subcontractors in this area.

Please note this is only a budget estimate and not a not-to-exceed price. The Client would be billed only for the amount of service provided. Many factors, including those out of our control, such as weather, the contractor's schedule and efficiency, implementation of RFI's and/or ASI's, and how often we are called to the site, will dictate the final fee for our services. Furthermore, all costs associated with deviations, re-testing and re-inspections of failing items, on-site standby time, overtime, and short notice premiums are not included in our estimated cost.



Fees for services provided will be based on the attached Unit Rate Schedule. These rates will apply for the duration of the project. Overtime rates will be invoiced at 1.5x the quoted hourly field staff rate. Overtime rates are applicable for field staff utilized on Saturdays, Sundays, and Holidays.



ATTACHMENT C

APPROVED WORK/PROJECT SCHEDULE

1.0 SCHEDULING GUIDELINES

Our services will be provided on an “as requested” basis when scheduled by your representative. We recommend that you utilize the “Dispatch/Scheduling Phone Number” between the hours of 8:00 am and 5:00 pm.

Dispatch/Scheduling Phone Number: [956] 283-8254

During scheduling the following information should be provided to our dispatcher in order to best serve you:

- Project name and location
- Date and time of the requested service(s)
- Services required (please do not assume that technicians carry all equipment)
- Onsite location(s) of the requested service(s)
- Anticipated quantities of materials (i.e., cubic yards of concrete)
- Onsite contact information (name and phone number, if possible)
- Any special requirements (safety badging, drug testing, site orientation, etc.)

We require a minimum 24-hour notice to schedule personnel and avoid delays to construction activity. If our services are not scheduled according to this time frame, we will make every reasonable effort to accommodate your needs but may be unable to provide service. Terracon will only provide testing when contacted by your designated representative and will not be responsible for required testing if we are not scheduled.