

HIDALGO COUNTY
Professional Engineering Services
Agreement C-23-0497-01-09

WORK AUTHORIZATION NO. 1

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of the Professional Engineering Services Agreement No. C-23-0497-01-09, incorporated herein by reference, for the **“Geotechnical and Construction Material Services for the "SATF Phase II Parking Lot Renovations Project”** project made by and between HIDALGO COUNTY, action herein by and through the Commissioner’s Court, hereinafter called the **“Owner,”** and **Millennium Engineers Group, Inc.,** hereinafter called **“Engineer”**.

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the **Engineer** to provide Geotechnical & 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 **\$9, 835.40**. 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-23-0497-01-09** between the **Owner** and the **Engineer**.

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 completion of the scopes of the Work Authorization, within the limits of Agreement No. C-23-0497-01-09 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-23-0497-01-09.

PART 7. ACKNOWLEDGMENT 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, approved by Hidalgo County Commissioners' Court on March 19th, 2024 as indicated below and effective as of 19th day of **March, 2024**.

EXECUTED as of the day and year first written above.

APPROVED BY COMMISSIONERS' COURT ON MARCH 19TH, 2024

Agenda Item No. 94661

Executive Office: _____

ENGINEER:
B2Z ENGINEERING, LLC

COUNTY:
COUNTY OF HIDALGO

Aisha Gonzalez, President

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)*

EXHIBIT D
ESTIMATED MAN-HOURS AND TEST BREAKDOWN

**Hidalgo County Facility Management
Parking Facility Reconstruction
Construction Materials Testing**

Subgrade

- Sampling and laboratory testing of soils and base materials proposed for use in the construction of Project (Roads/Bridges/Misc.) to determine compliance of these materials with project plans and specifications.
- Field density testing of soils and base materials to ensure proper compaction as required by project plans and specifications.

	Test	Guide Specs	Additional Assumptions	Unit	Qty.	Contract Rate	Total
Atterberg Limits of Soils	ASTM D-4318/Tex-106E	One Per Phase		Each	2	\$135.00	\$270.00
Moisture/Density	ASTM D698/Tex-114-E	One Per Phase		Each	1	\$225.00	\$225.00
In-Place Density	ASTM D6938/Tex-115-E	Every 1,000 Square Yard	Assuming 3 FD per trip	Each	9	\$28.00	\$252.00
Reports			LD, PI, MD & FD	Each	5	\$25.00	\$125.00
Tech Time (Soils)			LD, PI, MD & FD	Hour	22	\$83.91	\$1,846.02
# of Trips (Tech)			5 Trips (60 Miles RT)	Miles	300	\$0.625	\$187.50
**Admin/Clerical				Hour	6	\$66.55	\$399.30
Item Subtotal							\$3,304.82

Flexbase

- Sampling and laboratory testing of soils and base materials proposed for use in the construction of Project (Roads/Bridges/Misc.) to determine compliance of these materials with project plans and specifications.
- Field density testing of soils and base materials to ensure proper compaction as required by project plans and specifications.

	Test	Guide Specs	Additional Assumptions	Unit	Qty.	Contract Rate	Total
Atterberg Limits of Soils	ASTM D-4318/Tex-106E	One Per Phase		Each	1	\$135.00	\$135.00
Moisture/Density	ASTM D1557/Tex-113-E	One Per Phase		Each	1	\$225.00	\$225.00
In-Place Density	ASTM D6938/Tex-115-E	Every 1,000 Square Yard	Assuming 3 FD per trip	Each	9	\$28.00	\$252.00
Reports			LD, PI, MD & FD	Each	5	\$25.00	\$125.00
Tech Time (Soils)			LD, PI, MD & FD	Hour	20	\$83.91	\$1,678.20
# of Trips (Tech)			4 Trips (60 Miles RT)	Miles	240	\$0.625	\$150.00
**Admin/Clerical				Hour	5	\$66.55	\$332.75
Item Subtotal							\$2,897.95

Asphalt Concrete Pavement

- Field compaction testing of asphalt to ensure proper compaction during lay down operations.
- Field sampling and laboratory testing of asphalt materials to determine their material properties and their compliance with project plans and specifications.

	Test	Guide Spec	Additional Assumptions	Unit	Qty.	Contract Rate	Total
Roadway							
Pavement Thickness	ASTM D3549	Every 1500 SY	1 core per location	Each	2	\$65.00	\$130.00
Rolling Pattern	Tex-207-F Part IV			Each	3	\$45.00	\$135.00
Reports				Each	2	\$25.00	\$50.00
Tech Time (Asph)		Every 1500 SY		Hour	10	\$83.91	\$839.10
# of Trips (Tech)			2 Trips (60 Miles RT)	Miles	120	\$0.625	\$75.00
**Admin/Clerical				Hour	2	\$66.55	\$133.10
Item Subtotal							\$1,362.20

Hydraulic Cement Concrete - Miscellaneous

- Field sampling and testing of fresh concrete and laboratory testing of hardened concrete to determine compliance with project plans and specifications.
- Concrete batching as well as the asphalt testing at the plants to insure delivery of acceptable material to the job site (as required).

	Test	Guide Specs	Additional Assumptions	Unit	Qty.	Contract Rate	Total
Concrete							
Strength	ASTM C 39/C192	Every 60CY	1 Set=4 Cyl	Each	4	\$30.00	\$120.00
Reports				Each	2	\$25.00	\$50.00
Tech Time (Conc)				Hour	3	\$83.91	\$251.73
# of Trips (Tech)			4 Trips (60 Miles RT)	Miles	120	\$0.625	\$75.00
**Admin/Clerical				Hour	2	\$66.55	\$133.10
Item Subtotal							\$629.83

Summary

Sub-Total (CMT Items) =	\$8,194.80
Sr. Engineering Tech (9 hrs x \$109.95/hr):	\$989.55
Project Engineering (5 hrs x 130.21/hr):	\$651.05

** Project Administrative Fee is assessed on a per invoice basis and involves engineering review, evaluation, management and administration

Constuction Materials Testing Total : \$9,835.40