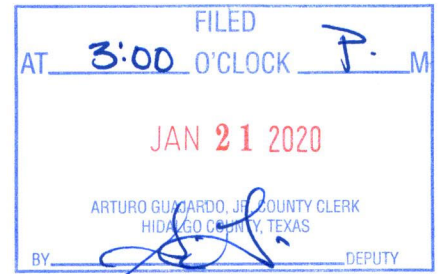


EXHIBIT E
-Work Authorization

HIDALGO COUNTY
Professional Engineering Services
Agreement# C-19-257-09-24



WORK AUTHORIZATION NO. 2

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, Alpha Infrastructure Engineering PLLC professional engineers of Weslaco Texas, hereinafter called "**Engineer**".

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the "Engineer" to provide_ General Management, Coordination, ROW, Utilities, and Design Surveying, Plan Specifications, & Estimate and Construction Phase Services required for Mile 12 N Rd and Earling Rd. 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 \$88,926.00. This amount is based upon the costs outlined in the Estimated **Cost Proposal** attached hereto as **EXHIBIT "D1"**.

PART 3. PAYMENT

Compensation and payment to the Engineer for the services established under this Work Authorization shall be made in accordance with Article 5 of the Agreement.

PART 4. FUNDING

This Work Authorization No. 2 shall be funded through funding source:
Account No. 9-1355-431-00-121-268-0-721
Requisition Number 40635 **(MUST BE INCLUDED AFTER CC APPROVAL)**
d 269

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 scopes of the work authorization.

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 No.1*, as to content and detail of this **Work Authorization No. _2_**.

HIDALGO COUNTY PRECINCT NO. 1:

By: _____
Hon. David Fuentes, Commissioner, Pct. 1

PART 8. ACCEPTANCE AND APPROVAL

This Work Authorization is hereby accepted, approved by Hidalgo County Commissioners' Court on January 14, 2020 as indicated below and effective as of 14th day of January, 2020.

THE ENGINEER:
Alpha Infrastructure Engineering PLLC

THE OWNER:
HIDALGO COUNTY

By: _____
Juan M. Gamez, PE / President

By: Richard F. Cortez
Richard F. Cortez, County Judge

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

APPROVED BY
COMMISSIONERS' COURT
ON: 1/14/20 grs

BY: _____

Attachments:

- Exhibit A
- Exhibit B
- Exhibit C
- Exhibit D1

EXHIBIT "A"
HIDALGO COUNTY PRECINCT No. 1

Mile 12 N Rd and Earling Rd Roadway Improvements

SCOPE OF SERVICES
To be Provided by the Owner

EXHIBIT A

-SCOPE OF SERVICES TO BE PROVIDED BY THE OWNER

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 Engineer the following:

- 1) Provide the authorization to proceed with services through coordination with the project consulting and design Engineer.
- 2) Payment for work performed by the Engineer and accepted by the Owner in accordance with Article 3 of this Agreement.
- 3) Assistance to the Engineer, as necessary, to obtain the required data and information from other local, regional, State and Federal agencies the Engineer 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 Engineer's request for information and/or required submittals and deliverables, in order for the Engineer 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 Engineer.
- 7) Provide the authorization to proceed with services on project by project basis through consulting design and construction Engineer.

EXHIBIT "B"
HIDALGO COUNTY PRECINCT No. 1

Mile 12 N Rd and Earling Rd Roadway Improvements

SCOPE OF SERVICES

To be Provided by the Engineer

EXHIBIT B

Scope of Services to be provided by the Engineer

GENERAL MANAGEMENT / COORDINATION

1. Meet w/ Owner to establish Project Scope and Design Criteria.
2. Meet w/ Owner's Staff on all project related items.
3. Perform Quality Control & Quality Assurance (QCQA).

RIGHT-OF-WAY, UTILITIES, AND DESIGN SURVEYING

Right-of-Way & Utilities Survey

1. Survey existing roadway right-of-way and adjoining parcel lines in project coordinate system.
2. Obtain most current existing right-of-way information (plats, deeds, ownership info).
3. Prepare Project Base Map of project limits showing exist ROW and Property lines.
4. Contact "One Call" to request marking of underground utilities.
5. Request existing utility information from local utility companies.
6. Perform surveying for horizontal location of "Flagged" underground utilities & visible overhead lines.

Design Survey

- 1.** Establish project control points at each end of project.
- 2.** Establish Horizontal and Vertical Control BM's @ 1,000-Ft spacing (Est. 6 BM's).
- 3.** Perform topographic survey to 200-Ft beyond limits of project.
- 4.** Take X-Sections @ 100-Ft spacing to 20-Ft beyond ROW (when possible).
- 5.** Take driveway or intersecting road X-Sections to 10-Ft beyond ROW.
- 6.** Pick up horizontal location of all visible overhead or on-ground utilities and markings from "one-call" services.
- 7.** Take X-Sections of Irrigation Canal @ 50-Ft spacing to 200-Ft from Roadway centerline each side.
- 8.** Take X-Sections of Drain Ditch @ 50-Ft spacing to 200-Ft from Roadway centerline each side.
- 9.** Obtain Side Drain data (centerline station, size, length, flow lines, etc.).
- 10.** Obtain culvert's size of structures, type, skew angle, material.
- 11.** Locate any other topographic feature within project area (within 20-ft outside of ROW).
- 12.** Process ASCII files to develop DTM.

PLANS SPECIFICATIONS & ESTIMATE

- 1.** Title Sheet & Index of Sheets
- 2.** Project Layout
- 3.** Horizontal & Vertical Survey Control
- 4.** Existing & Proposed Typical Sections
- 5.** Develop General Notes and Specs
- 6.** Earthwork & Cross-Sections
- 7.** Figure Quantities & Prepare E&Q Sheets
- 8.** Sequence of Construction
- 9.** Traffic Control Plan General Notes
- 10.** Traffic Control Plan
- 11.** Plan & Profile (Roadway)
- 12.** Driveway & Intersection Details
- 13.** Outfall Details
- 14.** Cross Culvert X-Sections & Profiles
- 15.** Irrigation Crossing Structure Plan & Profile
- 16.** Irrigation Structures Details
- 17.** Prepare storm water pollution prevention plan (SW3P) following NPDES general permit requirements
- 18.** Provide interim drawing submittals (3 sets)
- 19.** Provide Final Drawings on 11"x17" Paper
- 20.** Provide Engineer's Construction Cost Estimate

CONSTRUCTION PHASE SERVICES

- 1.** Review submittals
- 2.** Review Construction Materials Testing Reports
- 3.** Perform Construction Site Observations
- 4.** Perform Final Inspection
- 5.** Prepare Construction Record Drawings
- 6.** Close out Project

EXHIBIT "C"

HIDALGO COUNTY PRECINCT No.1
 WA2 Mile 12N RD
 Mile 1 East to Mile 2East

Engineering Schedule Summary	Duration	2020			
		December	January	February	March
Management / Coordination	30 days				
PS&E	60 days				
Construction Assistance	120 Day				

Total Days to Perform Project 102

<i>Engineering Schedule Summary</i>	Duration	2020				
		December	January	February	March	April
Management / Coordination	30 days					
PS&E	60 days					
Construction Assistance	120 Day					

Total Days to Perform Project 102

Exhibit D-1
 -Estimated Project Fee Schedule

Task and Description	Principal	Project Manager	Senior Engineer	R.P.L.S	Senior Engineering Technician	CAD Technician	Survey Crew	Clerical	Total
Hourly Rate	\$ 240.00	\$ 160.00	\$ 140.00	\$ 150.00	\$ 70.00	\$ 68.00	\$ 150.00	\$ 40.00	
A. General Management and Co	10	10	15	0	20	20	0	10	85
	\$ 2,400.00	\$ 1,600.00	\$ 2,100.00	\$ -	\$ 1,400.00	\$ 1,360.00	\$ -	\$ 400.00	\$ 9,260.00
B. PS&E	40	50	50	0	65	72	0	40	317
	\$ 9,600.00	\$ 8,000.00	\$ 7,000.00	\$ -	\$ 4,550.00	\$ 4,896.00	\$ -	\$ 1,600.00	\$ 35,646.00
C. Construction Oversight Services	3	4	8	0	8	6	0	10	39
	\$ 720.00	\$ 640.00	\$ 1,120.00	\$ -	\$ 560.00	\$ 408.00	\$ -	\$ 400.00	\$ 3,848.00

Total Professional Man Hour Estimate	53	64	73	0	93	98	0	60	441
Total Estimated Professional Services Fee	\$ 12,720.00	\$ 10,240.00	\$ 10,220.00	\$ -	\$ 6,510.00	\$ 6,664.00	\$ -	\$ 2,400.00	\$ 48,754.00

Exhibit D-1

-Estimated Project Fee Schedule

Task and Description	Principal	Project Manager	Senior Engineer	R.P.L.S	Senior Engineering Technician	CAD Technician	Survey Crew	Clerical	Total
Hourly Rate	\$ 240.00	\$ 160.00	\$ 140.00	\$ 150.00	\$ 70.00	\$ 68.00	\$ 150.00	\$ 40.00	
A. General Management and Coordination	5 \$ 1,200.00	10 \$ 1,600.00	15 \$ 2,100.00	0 \$ -	20 \$ 1,400.00	20 \$ 1,360.00	0 \$ -	10 \$ 400.00	80 \$ 8,060.00
B. PS&E	27 \$ 6,480.00	40 \$ 6,400.00	40 \$ 5,600.00	0 \$ -	55 \$ 3,850.00	68 \$ 4,624.00	0 \$ -	38 \$ 1,520.00	268 \$ 28,474.00
C. Construction Oversight Services	3 \$ 720.00	4 \$ 640.00	7 \$ 980.00	0 \$ -	7 \$ 490.00	6 \$ 408.00	0 \$ -	10 \$ 400.00	37 \$ 3,638.00

Total Professional Man Hour Estimate	35	54	62	0	82	94	0	58	385
Total Estimated Professional Services Fee	\$ 8,400.00	\$ 8,640.00	\$ 8,680.00	\$ -	\$ 5,740.00	\$ 6,392.00	\$ -	\$ 2,320.00	\$ 40,172.00

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.

Alpha Infrastructure PLLC
 Weslaco, TX, TX United States

Certificate Number:
 2020-573451

Date Filed:
 01/03/2020

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:
 01/03/2020

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-19-257-09-24 work auth #2"
 On Call Services for "Road and Bridge, C.I.P. and Other Project in General" for projects within Hidalgo County Precinct No. 1

4	Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
			Controlling	Intermediary

5 Check only if there is NO Interested Party.

6 UNSWORN DECLARATION

My name is _____, and my date of birth is _____.

My address is _____, _____, _____, _____, _____.
(street) (city) (state) (zip code) (country)

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

Executed in _____ County, State of _____, on the _____ day of _____, 20____.
(month) (year)

 Signature of authorized agent of contracting business entity
 (Declarant)

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
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 Alpha Infrastructure PLLC
 Weslaco, TX, TX United States

Certificate Number:
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 Hidalgo County

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 C-19-257-09-24 work auth #2"
 On Call Services for "Road and Bridge, C.I.P. and Other Project in General" for projects within Hidalgo County Precinct No. 1

4	Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
			Controlling	Intermediary

5 Check only if there is NO Interested Party.

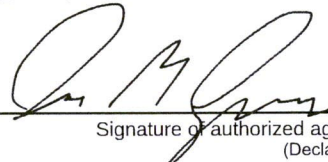
6 UNSWORN DECLARATION

My name is Juan M. Gamez, and my date of birth is 07/05/1981.

My address is 7840 N. FM 88, Weslaco, TX, 78599, US.
(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 TX, on the 3 day of January, 20 20.
(month) (year)


 Signature of authorized agent of contracting business entity
 (Declarant)