

EXHIBIT E
-Work Authorization

HIDALGO COUNTY
Professional Engineering Services
Contract # C-20-064-01-14
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, **J&R ENGINEERING, LLC**, professional engineers of McAllen, Texas, hereinafter called "**Engineer**".

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the **Engineer** to provide Engineering Service required for the following Roadway Reconstruction Improvements:
Mile 1 East Reconstruction Project between Mile 8 N. Rd and Mile 9 N. 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 \$48,657.74. 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 5** of the Agreement.

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 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 #1**, as to content and detail of this **Work Authorization No. __1__**.

HIDALGO COUNTY PRECINCT No. 1

BY: _____
David Fuentes, Commissioner

PART 8. ACCEPTANCE AND APPROVAL

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

THE ENGINEER:

**THE OWNER:
HIDALGO COUNTY**

By: _____

By: _____
Richard F. Cortez, County Judge

ATTEST:

By: _____
Arturo Guajardo, Jr., County Clerk

LIST OF ATTACHMENTS

- ATTACHMENT "A" - Service to be provided by the Owner
- ATTACHMENT "B" - Services to be provided by the Engineer
- ATTACHMENT "C" - Work Schedule
- ATTACHMENT "D" - Cost Proposal

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 the Project.

General:

The **OWNER** will provide to the **ENGINEER** the following:

- (1) Provide the authorization to proceed with services through coordination with the project consulting with the Engineer.
- (2) Payment for work performed by the **ENGINEER** and accepted by the **OWNER** in accordance with Section 6 of the Agreement.
- (3) Assistance to the **ENGINEER**, as necessary, to obtain the required data and information from other local, regional, State and Federal agencies that the **ENGINEER** cannot easily obtain.
- (4) Provide any available relevant data the **OWNER** may have on file concerning the project.
- (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 Attachment "C" of this Agreement.
- (6) Attend and participate in progress meetings as required and as coordinated and conducted by the **ENGINEER**.
- (7) Assist the **ENGINEER** as required in the coordination with the USACE and the Federal Emergency Management Agency (FEMA) and any other coordinating agency or entity (*when and if applicable*).
- (8) Review and approve the Project design criteria.
- (9) Review and approve change orders as required and prepared by the **ENGINEER**.

EXHIBIT B

-Scope of Services to be provided by the Engineer

The following provides an outline of the service to be provided by the **ENGINEER** in the development of the project.

The **ENGINEER** will evaluate and design of the improvements as follows:

- (1) Review existing conditions to develop the design criteria;
- (2) Conduct field surveys to obtain information on existing conditions and topography on proposed project;
- (3) Identify alignments and right of ways of proposed project;
- (4) Coordinate with utility companies for locates and relocation as needed;
- (5) Prepare Construction plans, specification and estimates for project improvements (road reconstruction)
- (6) Assist in bidding of the improvements;
- (7) Provide construction staking and periodic inspection services during the construction phase of project improvements.

EXHIBIT C -Work Schedule

Task No.	Task Description	Activities	Start	End
	Notice to Proceed/Task Order	--	1/21/20	--
1	Planning	Project Evaluation		
		Review Existing Conditions to Develop Design Criteria	1/22/20	1/28/20
2	Survey/Topography	Surveying and Topography field work		
		Conduct Survey, Topography and utility locates along Mile 1 E. from Mile 8 N to Mile 9 N.	1/27/20	1/30/20
3	Preliminary Engineering	30% Design Package		
		Finalize Field Survey (Mapping)	1/30/20	2/4/20
		30% Design Package	2/3/20	2/10/20
		OWNER Review of Final Design Package {30%}	2/10/20	2/14/20
4	Final Design Phase	Develop Design; Complete Bidding Documents; Complete Final Plans and Specifications.		
		60% Final Design Package	2/14/20	2/21/20
		OWNER Review of Final Design Package (60%)	2/24/20	2/28/20
		90% Final Design Package	2/29/20	3/6/20
		OWNER Review of Final Design Package {90%}	3/6/20	3/13/20
		100% Final Design Package	3/13/20	3/20/20
		OWNER Review of Final Design Package	3/20/20	3/27/20
		Address Final Owner Comments	3/27/20	3/30/20
5	Bidding Phase Services	Advertising, Bid Phase, Selection		
		Advertising	4/3/20	4/24/20
		Bid Date	4/27/20	-
		Contractor Selection/ Execute Contract	-	4/28/20
6	Construction Period	Construction, Substantial Completion, Final Completion		
		Construction Start Date	5/4/20	-

The Engineer will inform the Owner (in reasonable advance of the delay) should the Engineer encounter delays that would prevent the performance of all work in accordance with the established work schedule.

EXHIBIT D

-Engineer's Contract Rates

Hidalgo County Precinct No. 1
Mile 1 East Reconstruction Project
Prepared by: J&R Engineering, LLC

Summary of Estimated Construction Costs: January 3, 2020

A. Mile 1 East Rd. Reconstruction Project (Limits: Mile 8 N Rd to Mile 9 N. Rd.)

1. Remove Stab Base and Asph Pav	14,722 SY	\$4.00	\$58,888.89
2. Mobilization	1 LS	\$7,500	\$7,500.00
3. Barricated, Signs & Traffic Handling	1 LS	\$10,000	\$10,000.00
4. 6" Subgrade Preparation (Lime Treated)	15,456 SY	\$4.00	\$61,822.22
5. 8" Flexbase	15,456 SY	\$8.50	\$131,376.00
6. 2" H.M.A.C.	14,722 SY	\$15.00	\$220,830.00
7. Prime Coat	4,417 GAL	\$4.50	\$19,874.70
8. Asphalt Driveways	16 EA	\$700	\$11,200.00
9. Roadside Ditch Grading	53 STA	\$450	\$23,850.00
10. 18" RCP	192 LF	\$40	\$7,680.00
11. SET (18") (4:1)	32 EA	\$1,100	\$35,200.00
12. Striping (Refl Pav Marking)	1 LS	\$15,000	\$15,000.00
13. Erosion Control	1 LS	\$5,000	\$5,000.00

Subtotal Mile 1 E Rd: \$608,221.81
Engineering Fee: \$48,657.74
Contingency (10%): \$60,822.18
Material Testing (2%): \$12,164.44

TOTAL: \$729,866.17