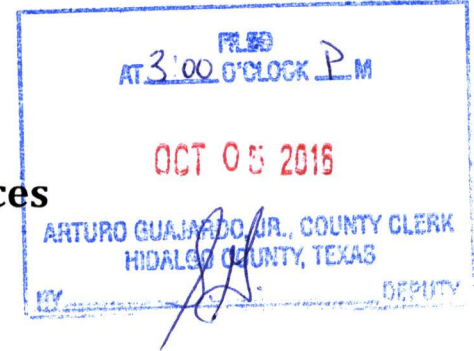


HIDALGO COUNTY
Professional Engineering Services
Contract # C-16-330-10-04
Work Authorization Form



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, **TEDSI INFRASTRUCTURE GROUP, INC.**, professional engineers of Mission, Texas, hereinafter called "**Engineer**".

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the **Engineer** to provide engineering services required for the projects specific Road and Drainage Improvements to various roads as identified herein for (FEMA DR 4245) Project "Indian Hills" in Hidalgo County Pct. 1.

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 \$ **118,737.18**. 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. _____

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 project completion as indicated in the "Exhibit C-Preliminary Work Schedule".

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 #1 _____.

BY: *A.C. Cuellar, Jr.*
A.C. Cuellar, Jr., 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 _____, 2016.

THE ENGINEER:
TEDSI INFRASTRUCTURE GROUP, INC.

Jesus Salinas
By: **Jesus Salinas**

THE OWNER:
HIDALGO COUNTY

Ramon Garcia
By: **Ramon Garcia, County Judge**

ATTEST:

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



APPROVED BY
COMMISSIONERS' COURT
ON: *10/4/16 gms*

LIST OF ATTACHMENTS

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

EXHIBIT "B"

Generalized Services to be provided by the Engineer

A. BASIC ENGINEERING SERVICES

ROADWAY DESIGN CONTROLS

- 1) Develop Typical Sections- No pavement design will be completed as part of the scope of work. Pavement section will be based on directive from Hidalgo County Pct. No. 1
- 2) Prepare plan and profile sheets as required for the reconstruction.
- 3) Develop plan and profiles for inclusion in sheets.
- 4) Detuning roadway quantities and prepare quantity summary sheet.

MISCELLANEOUS (ROADWAY)

- 1) Develop Miscellaneous Roadway Details.
- 2) Prepare Title Sheet and Index sheets.
- 3) Calculate project quantities and prepare quantity summary sheet.
- 4) Prepare general notes.
- 5) Prepare list of Standard Drawing to be included in the plans.
- 6) Upon completion of the review of the final plans by Hidalgo County Precinct. No. 1, the ENGINEER shall assemble and furnish signed original (11" x 17") drawings which shall include all applicable standards. The Engineer may sign/seal plans manually or include an electronic signature/seal.
- 7) Coordinate with Pct. 1 and other agencies as necessary.

SIGNING, PAVEMENT MARKINGS AND SIGNALIZATION

- 1) Signing and Pavement Markings are to be shown on roadway P&P sheets as necessary.

CONSTRUCTION SUPPORT

- 1) Prepare Bid Documents
- 2) Attend and Coordinate Pre-bid Conference
- 3) Evaluate Bids
- 4) Make Award Recommendation
- 5) Assist County with preparation of Contract Documents
- 6) Attend Pre-Construction Conference upon request by County
- 7) Respond to Request for Information (RFI) from Contractor
- 8) Review Pay Requests
- 9) Preparation of Change Orders
- 10) Final Site Visit
- 11) Record Drawings

B. FIELD DESIGN SURVEY SERVICES

FIELD SURVEYING

- 1) Topographic survey of entire project length including:
 - a) Topography of existing roadway and ditch within existing apparent ROW.
 - b) Topography shall include any existing drainage crossings.
 - c) Include flow lines, size and direction of drainage channels/structures
 - d) Include utilities
 - e) Perform one-call (Dig Tess) and identify and locate utilities (within Limits of R.O.W) as flagged/marked by utility companies
 - f) Include inverts on sanitary sewer, measure downs to top of keys on water and gas mains
 - g) Establish x,y, and z coordinates of power poles, manholes and valves of various utilities, flow lines of existing sanitary sewer and storm sewer lines, and subsequent utility ties of facilities exposed by others. Surveyor to survey nearest manhole/valve invert outside project limits.
 - h) Establish 2 benchmarks for project control.

C. ADDITIONAL SERVICES NOT INCLUDED AS PART OF THIS PROJECT

GEOTECHNICAL SERVICES

- 1) Pavement section design or testing prior to PS&E development
 - a) Material testing during construction

ATTACHMENT "C"

Work Schedule

Indian Hills East - Hidalgo County Pct. No. 1

Task	Months from Notice to Proceed				
	1	2	3	4	5
FIELD SURVEY					
ROADWAY DESIGN					

ATTACHMENT D
FEE PROPOSAL

INDIAN HILLS EAST

SITE	CONSTRUCTION COST	ENGINEERING FEE	SURVEYOR FEE	TOTAL PROFESSIONAL SERVICE FEE
Campacuas	\$ 175,699.00	\$ 13,353.12	\$ 3,338.28	\$ 16,691.41
Cherokee	\$ 167,329.00	\$ 12,717.00	\$ 3,179.25	\$ 15,896.26
Santawan	\$ 68,738.00	\$ 5,224.09	\$ 1,306.02	\$ 6,530.11
Caddoe	\$ 85,922.00	\$ 6,530.07	\$ 1,632.52	\$ 8,162.59
Kickapoo	\$ 43,472.00	\$ 3,303.87	\$ 825.97	\$ 4,129.84
Wichita	\$ 29,438.00	\$ 2,237.29	\$ 559.32	\$ 2,796.61
Tejas	\$ 302,936.00	\$ 23,023.14	\$ 5,755.78	\$ 28,778.92
Shawnee	\$ 107,962.00	\$ 8,205.11	\$ 2,051.28	\$ 10,256.39
Cheyenne	\$ 154,945.00	\$ 11,775.82	\$ 2,943.96	\$ 14,719.78
Seminole	\$ 60,581.00	\$ 4,604.16	\$ 1,151.04	\$ 5,755.20
Creek Place	\$ 52,843.00	\$ 4,016.07	\$ 1,004.02	\$ 5,020.09
TOTAL	\$ 1,249,865.00	\$ 94,989.74	\$ 23,747.44	\$ 118,737.18