

WORK AUTHORIZATION NO. 2

THIS WORK AUTHORIZATION is made pursuant to the terms and conditions of the **Professional Engineering Services** Agreement No. C-21-0946-12-28, incorporated herein by reference, for the "On-Call Engineer Services for Road & Bridge, Capital Improvement Projects, and Other Projects in General" made by and between **HIDALGO COUNTY**, action herein by and through the **Commissioner's Court**, hereinafter called the "**Owner**" and **COMPANY**, hereinafter called "**Engineer**".

PART 1. SCOPE OF WORK

The purpose of this Work Authorization is for the Engineer to provide:

- Flashing signal design services.

The **Engineer** is to provide the Scope of Services as required by the Agreement with the 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 \$12,849.50.

This amount is based upon the costs outlined in **Attachment "B" – Contract Rates** 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-21-0946-12-28 between the **Owner** and the **Engineer**.

PART 4. FUNDING

This Work Authorization No. 2 shall be funded through funding source:

Account No. _____

Requisition No. _____ **(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-21-0946-12-28, provided in this Work Authorization; or on _____**. *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 **Agreement No. C-21-0946-12-28**.

PART 7. ACKNOWLEDGEMENT AND CONFIRMATION

ACKNOWLEDGEMENT and confirmation by Hidalgo County Precinct No. 4 Commissioner Ellie Torres, as to content and detail of this Work Authorization No. 2.

HIDALGO COUNTY

COMMISSIONER PRECINCT No. 4:

BY: _____

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 _____, 20_____.

ENGINEER:

OWNER:

COBB, FENDLEY & ASSOCIATES, INC.

HIDALGO COUNTY

By: Digitally signed by Steven Bak, P.E.
dn: cn=C, o=CobbFendley.com,
ou=CobbFendley.com, cn=Steven Bak, P.E.
Date: 2022.10.28 16:34:48-0500 Steven Bak, P.E. _____

By: _____

Printed Name: Steven Bak, P.E.

Printed Name: _____

Title: Vice President

Title: _____

Date: October 28, 2022

Date: _____

ATTEST:

List of Attachments:

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

Attachment "B" – *Contract Rates*

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

Attachment "D" – *Cost Proposal*

Attachment "E" – *Insurance*

Attachment "F" – *1295 Form*

ATTACHMENT A

SCOPE OF SERVICES

Project Management

Overall management of the tasks associated with this project including the quality assurance / quality control process in order to ensure a quality final product.

Agency Coordination

Coordinate with TxDOT as required (e-mail, phone, video conference).

Site Visit

A site visit shall be performed to survey and investigate site conditions and to sketch utilities from an 811 (One Call) locate to be performed prior to the site visit.

Base Mapping

A formal topographic survey will not be performed. En lieu of this, field measurements, aerial photography (Google Earth) and the 811 locate will be utilized to produce a base map for the design. Any formal topographic survey related activities performed by CobbFendley survey department field crews will be for an additional fee.

Geotechnical Engineering

Geotechnical engineering is not expected to be part of this project. Traffic signal pole foundation design will be assumed as a worst-case scenario. Any geotechnical engineering related activities performed by CobbFendley will be for an additional fee.

Flashing Signal Design

A flashing signal design shall be produced for Ramseyer Rd and Kenyon Rd. Below is a summary of the design elements that shall be provided for the intersection:

- Strain pole design (two poles with luminaires)

These proposed traffic signal improvements shall be provided in a set of plans as required by TxDOT, which includes the following:

- Title Sheet / Index
- Proposed Flashing Signal Layout (Strain Pole)
- Electrical Schedule and Sign Design
- General Notes
- Flashing Signal Notes
- Applicable TxDOT Standards

Note: Any TDLR inspection fees to be paid for by the Client. Separate existing condition diagram, flashing signal elevations and signing / pavement marking layout would be for an additional fee.

All traffic signal equipment utilized in the design will be to TxDOT standards and specifications.

Confirmation of Power

The proposed power location for the intersection shall be identified and followed up by coordination with responsible power company to confirm the power location. A letter / e-mail shall be obtained from responsible power company documenting their acceptance to the power source.

90%, 100% Submittal Coordination

Coordination and plan set assembly of milestone submittals to TxDOT.

Construction Estimate and Quantities

Construction estimate and quantities will be provided for the flashing signal design to be included in the overall project package. Project specifications will be identified and listed by number only. It will be the contractor's responsibility to research and/or print out any specifications.

Project Manual

A formal project manual is not expected to be part of this project. Any project manual related activities performed by CobbFendley will be for an additional fee.

Bid Phase Services

Bid phase services are not expected to be part of this project. Any project manual related activities performed by CobbFendley will be for an additional fee.

Construction Phase Services

Construction phase services are not expected to be part of this project. Any construction phase services related activities performed by CobbFendley will be for an additional fee.

TxDOT Permitting

CobbFendley is not expecting to fill out nor produce any of the permit applications for TxDOT and this will be for an additional fee.

Deliverables:

The deliverable shall consist of the following:

- PDF's for all official submittals (no hard copies – see note below).

Note: Any hard copies of specifications, plan set, etc will be paid for by the Client.

ADDITIONAL SERVICES

Services not included in the description of Scope of Services in this proposal may be provided by CobbFendley, and if provided by CobbFendley, said services shall be considered to be Additional Services and shall require additional fees.

BASIS OF COMPENSATION

We propose to perform the described scope of services for a lump sum fee of **\$12,849.50**.

SCHEDULE OF SERVICES

CobbFendley is authorized to begin work on this project immediately upon receipt of Client's signature on this Authorization and any additional authorizations that may be required from the client.

CobbFendley will use reasonable efforts to complete its Services as follows:

- Within twenty-five (25) working days upon receipt of notice to proceed to produce 60% plans to submit to TxDOT.
- Within fifteen (15) working days (after TxDOT review) to coordinate with TxDOT, address comments and submit 90% plans.
- Within ten (10) working days (after TxDOT review) to coordinate with TxDOT, address comments and submit 100% plans.

However, due to the nature of this project and possible adverse effects of weather and information from others beyond the control of CobbFendley, the final delivery date will be negotiated.



2022 Standard Rate Schedule

| | |
|--|-------------|
| Senior Engineer V or Principal | \$314.00/HR |
| Senior Engineer IV or Project Manager V | \$314.00/HR |
| Senior Engineer III or Project Manager IV | \$292.00/HR |
| Senior Engineer II or Project Manager III | \$254.00/HR |
| Senior Engineer I or Project Manager II | \$238.00/HR |
| Engineer III or Project Manager I | \$184.00/HR |
| Engineer II | \$163.00/HR |
| Engineer I | \$135.00/HR |
| Graduate Engineer II..... | \$124.00/HR |
| Graduate Engineer..... | \$113.00/HR |
| Sr. Project Coordinator..... | \$150.00/HR |
| Project Coordinator | \$103.00/HR |
| Senior Technician III (GIS, Telecom, Utility, CAD, Field)..... | \$179.00/HR |
| Senior Technician II (GIS, Telecom, Utility, CAD, Field)..... | \$156.00/HR |
| Senior Technician I (GIS, Telecom, Utility, CAD, Field)..... | \$135.00/HR |
| Technician III (GIS, Telecom, Utility, CAD, Field)..... | \$108.00/HR |
| Technician II (GIS, Telecom, Utility, CAD, Field)..... | \$88.00/HR |
| Technician I (GIS, Telecom, Utility, CAD, Field)..... | \$65.00/HR |
| Licensed State Land Surveyor | \$254.00/HR |
| Senior Registered Professional Land Surveyor..... | \$227.00/HR |
| Registered Professional Land Surveyor | \$184.00/HR |
| Project Surveyor. | \$163.00/HR |
| Certified Photogrammetrist. | \$215.00/HR |
| 4 Person Survey Crew | \$206.00/HR |
| 3 Person Survey Crew | \$184.00/HR |
| 2 Person Survey Crew | \$156.00/HR |
| 1 Person Survey Crew | \$113.00/HR |
| 2 Person Hy-Drone Crew | \$368.00/HR |
| 2 Person UAV Drone Crew | \$254.00/HR |
| Construction Manager III..... | \$302.00/HR |
| Construction Manager II..... | \$249.00/HR |
| Construction Manager I..... | \$201.00/HR |
| Construction Observer III | \$168.00/HR |
| Construction Observer II | \$141.00/HR |
| Construction Observer I | \$119.00/HR |
| Sr. Right-of-Way Agent III or ROW Project Manager III..... | \$263.00/HR |
| Sr. Right-of-Way Agent II or ROW Project Manager II..... | \$210.00/HR |
| Sr. Right-of-Way Agent I or ROW Project Manager I..... | \$189.00/HR |
| Right-of-Way Agent III or ROW Attorney..... | \$168.00/HR |
| Right-of-Way Agent II..... | \$147.00/HR |

(Continued)

| | |
|------------------------------|-----------------|
| Right-of-Way Agent I..... | \$116.00/HR |
| Right-of-Way Technician..... | \$105.00/HR |
| Administrative | \$113.00/HR |
| Clerical..... | \$86.00/HR |
| Field Data Device | \$40.00/HR/unit |

SUBSURFACE UTILITY ENGINEERING

| | |
|--|------------------|
| Two-Man Designating Crew (4-Hour Minimum) | \$184/HR |
| One-Man Designating Crew (4-Hour Minimum) | \$119/HR |
| Vacuum Excavation Truck with 2 Technicians (Vac 6000) (4-Hour Minimum)..... | \$341/HR |
| Vacuum Excavation Truck with 2 Technicians (Vac 3000 & 4000) (4-Hour Minimum)..... | \$319/HR |
| Ground Penetrating Radar with 1 Technician (4-Hour Minimum) | \$281/HR |
| Traffic Control Officer..... | @ Cost + 10% |
| Traffic Control (Lane Closures, etc.) | To Be Negotiated |
| Permits (Local, State, etc.)..... | @ Cost + 10% |
| Designation, Location & Traffic Control Vehicles..... | \$6.50/Mile |

REIMBURSABLE EXPENSES

| | |
|---|-----------------------|
| Technology Fee (*) | \$3.75/HR |
| Consultant or Specialty Contractor (Outside Firm) | @ Cost + 10% |
| Courier, Special Equipment Rental | @ Cost + 10% |
| Reasonable Out of Town Travel Expenses (Air, Hotel, Rental, etc.) | @ Cost |
| Mileage (Standard Car or Truck)..... | IRS Approved Rate |
| Per Diem for Out of Town Travel (Per Day/Person) | GSA Standard Rate/Day |
| Title Plant Charges | @ Cost + 10% |
| Other Misc. Expenses Related to the Project..... | @ Cost + 10% |

In-House Reproduction:

- Copies (Up to 11" x 17")..... \$0.15/Each
- Color Prints (Up to 11" x 17")..... \$1.50/Each
- Color Prints (Larger than 11" x 17")
- Bluelines (All Sizes)..... \$1.00/Each
- Bond Prints (All Sizes)..... \$2.00/Each
- Mylar Prints
- Vellum Prints

(*) Technology charges added to each billable man-hour.

| | |
|----------------------|----------------------------------|
| Project: | Ramseyer Rd and Kenyon Rd |
| Description: | Flashing Signal Design |
| Method of Pay | Lump Sum |

| Task Description | Task Cost | Principal Hours | Project Manager Hours | Project Engineer Hours | EIT Hours | Engineer Tech Hours | CADD Operator Hours | Clerical Hours | Total Labor Hours |
|---|------------|-----------------|-----------------------|------------------------|-----------|---------------------|---------------------|----------------|-------------------|
| Project Management | \$1,101.00 | 1 | 2 | 1 | | | | 1 | 5 |
| Agency Coordination | \$504.00 | | 2 | | | | | | 2 |
| Site Visit / 811 (One Call) Locate | \$608.00 | | | 2 | 2 | | | | 4 |
| Base Mapping | \$1,769.00 | | 1 | 1 | 3 | 3 | 4 | | 12 |
| Flashing Signal Design | | | | | | | | | |
| Title Sheet / Index | \$803.00 | | | | 1 | 2 | 3 | | 6 |
| Proposed Flashing Signal Layout (Strain Pole) | \$2,049.00 | | | 2 | 4 | 3 | 6 | | 15 |
| Electrical Schedule / Sign Design | \$1,056.00 | | | 1 | 2 | 1 | 4 | | 8 |
| General Notes | \$786.00 | | | | 3 | 1 | 2 | | 6 |
| Flashing Signal Notes | \$803.00 | | | | 4 | 1 | 1 | | 6 |
| Applicable TxDOT Standards | \$917.00 | | | | 1 | 2 | 4 | | 7 |
| Confirmation of Power | \$435.00 | | | 1 | 2 | | | | 3 |
| Construction Estimate and Quantities | \$949.00 | | 1 | 1 | 4 | | | | 6 |
| Submittals Packages (90%, 100%) | \$753.00 | | 1 | | 1 | 1 | 1 | 1 | 5 |
| Hours Subtotals | | 1 | 7 | 9 | 27 | 15 | 26 | 2 | 85 |

| Contract Rate Per Hour | Principal | Project Manager | Project Engineer | EIT | Engineer Tech | CADD Operator | Clerical | Labor Subtotal |
|-----------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|
| | \$333.00/HR. | \$252.00/HR. | \$173.00/HR. | \$131.00/HR. | \$165.00/HR. | \$114.00/HR. | \$91.00/HR. | |
| Subtotal Labor Costs | \$333.00 | \$1,764.00 | \$1,557.00 | \$3,537.00 | \$2,475.00 | \$2,964.00 | \$182.00 | \$12,812.00 |

| Direct Expenses | Unit | Quantity | Unit Cost | | | Subtotal |
|----------------------|------|----------|-----------|--|--|----------|
| Mileage (Site Visit) | Mile | 60 | \$ 0.625 | | | \$ 37.50 |

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|---------------------------------|-----------------|
| Direct Expenses Subtotal | \$ 37.50 |
|---------------------------------|-----------------|

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|------------------------------|---------------------|
| TOTAL COST (LUMP SUM) | \$ 12,849.50 |
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