

WORK AUTHORIZATION NO. 2
PROJECT: Utility Coordination for South San Gabriel
Ranches Subdivision (Aqua Water)

This Work Authorization is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated July 16, 2019 and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Cobb, Fendley & Associates, Inc. (the "Engineer").

Part 1. The Engineer will provide the following Engineering Services set forth in Attachment "B" of this Work Authorization.

Part 2. The maximum amount payable for services under this Work Authorization without modification is \$62,287.40.

Part 3. Payment to the Engineer for the services established under this Work Authorization shall be made in accordance with the Contract.

Part 4. This Work Authorization shall become effective on the date of final acceptance and full execution of the parties hereto and shall terminate on December 31, 2021. The Engineering Services set forth in Attachment "B" of this Work Authorization shall be fully completed on or before said date unless extended by a Supplemental Work Authorization.

Part 5. This Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

Part 6. County believes it has sufficient funds currently available and authorized for expenditure to finance the costs of this Work Authorization. Engineer understands and agrees that County's payment of amounts under this Work Authorization is contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to continue to make payments under this Contract. It is further understood and agreed by Engineer that County shall have the right to terminate this Contract at the end of any County fiscal year if the governing body of County does not appropriate sufficient funds as determined by County's budget for the fiscal year in question. County may effect such termination by giving written notice of termination to Engineer.

Part 7. This Work Authorization is hereby accepted and acknowledged below.

EXECUTED this ____ day of _____, 20__.

ENGINEER:

Cobb, Fendley & Associates, Inc.

COUNTY:

Williamson County, Texas

By: Sandra S Khoury
Signature

By: _____
Signature

Sandra Khoury, P.E.
Printed Name

Printed Name

Sr. Vice President
Title

Title

October 8, 2020
Date

Date

LIST OF ATTACHMENTS

Attachment A - Services to be Provided by County

Attachment B - Services to be Provided by Engineer

Attachment C - Work Schedule

Attachment D - Rate Schedule

ATTACHMENT A

SERVICES TO BE PROVIDED BY COUNTY

Williamson County and/or its Designated Representative(s) will provide project direction, review and oversight of engineering services for all Road & Bridge Division Projects and will provide all project related design files, topographic survey and right-of-way data to assist with utility relocation efforts.

ATTACHMENT B

SERVICES TO BE PROVIDED BY ENGINEER

Scope of Services provided by Cobb, Fendley & Associates, Inc. (the *Engineer*), involves water line relocation and engineering services in Williamson County, Texas, (the County) for the Road & Bridge Division as described below:

This scope includes the following major tasks:

1. WATER UTILITY DESIGN

1. WATER UTILITY DESIGN.

The *Engineer* will coordinate and develop PS&E for utilities to be included in the construction contract for the County upon written request by the Utility Owner and/or the County. All joint bid utility plan requests are to be approved by the County or Designated Representative prior to commencing work.

The *Engineer's* Project Manager
is: Ms. Kristen Van Hoosier, P.E.
Cobb, Fendley & Associates, Inc.
505 East Huntland Drive, Suite 100
Austin, Texas 78752
Telephone: 512-834-9798

- 1.1. The *Engineer* shall develop PS&E and special details to accommodate or adjust utilities, including water. Prior to developing any special utility detail or PS&E set, the *Engineer* shall notify the County and its Designated Representative in writing regarding each utility conflict that may require an accommodation. As directed by the County or its Designated Representative, the *Engineer* shall coordinate with the Utility Owner to develop the PS&E package and special details. The *Engineer* shall develop each utility detail or PS&E package in compliance with the County or governing agency guidelines.
- 1.2. The *Engineer* shall provide design phase services including the following:
Design, bid and construction phase services for the installation of approximately 4,350 linear feet of 3", 4" and 2" waterline, 450 linear feet of 4" and 12" steel encasement installed via open trench, required appurtenances, and connections to the existing 3" and 4" water mains associated with the construction of the South San Gabriel Ranches Subdivision Road and Drainage Improvements project in Williamson County. Following is a detailed task list for design:
 - 1.2.1. 30% Deliverable. 30% schematic of the waterline relocations provided to the Utility Owner.
 - 1.2.1.1. Gather and analyze data. Obtain plans and electronic files for roadway and topographic information. This proposal assumes that the survey information will be provided by the roadway engineer and that it will provide data adequate to design the

- water line relocations.
 - 1.2.1.2. Prepare preliminary adjustments and relocations.
 - 1.2.1.3. Coordinate with Utility Owner on preliminary layouts and relocations.
 - 1.2.2. Plans. CobbFendley will prepare design plans for submittal to the Utility Owner at 90% and 100% completion. The **Engineer** shall prepare General Notes. The **Engineer** shall prepare each plan sheet, detail sheet, special specification, special provision, and special note required to incorporate the utility designs into the County's plans.
 - 1.2.2.1. Cover sheet. (1 Sheet)
 - 1.2.2.2. General Notes. (1 Sheet)
 - 1.2.2.3. Overall Layout Sheet (1 Sheet)
 - 1.2.2.4. Plan sheets (5 Sheets).
 - 1.2.2.5. Adjustment Sheets (4 sheets)
 - 1.2.2.6. Detail Sheets (2 sheets)
 - 1.2.3. Design calculations. The **Engineer** shall perform design calculations as necessary.
 - 1.2.4. Specifications. The **Engineer** shall provide a list of governing specifications and special provisions.
 - 1.2.5. Quantity Take-Off.
 - 1.2.6. Cost Estimate. The **Engineer** shall prepare quantities for construction bid items, as well as estimate of probable costs, at the 30%, 90%, and 100% design submittals.
 - 1.2.7. Project Quality Assurance / Quality Control (QA/QC). The **Engineer** will provide internal and comprehensive quality assurance/quality control reviews throughout the Project development. All documents, ("water utility relocation/adjustment work products") submitted to the County shall undergo QC reviews prior to submittal. A project manager/engineer will perform the QA/QC function. The **Engineer** shall perform internal quality control reviews on the PS&E prior to each design milestone submittal.
 - 1.2.8. Submittals. The **Engineer** shall submit plans at each respective design milestone to the Utility Owner, the **Utility Coordinator** and the County or Designated Representative for review. The **Utility Coordinator** and the County or Designated Representative shall provide written comments on the plan submittal within five (5) business days from receipt.
 - 1.2.9. Respond to comments. The **Engineer** shall prepare a written response to comments for inclusion with the subsequent submittal.
 - 1.2.10. Coordination/Review meetings. The **Engineer** shall coordinate with the Utility Owner for their review of the design plans at each submittal.
 - 1.2.11. Approvals. The **Engineer** shall coordinate with the Utility Owner for their approval of the design plans.
- 1.3. The **Engineer** shall not assist in the bid phase of the project. **Exclusions** are as follows:
- 1.3.1. Attend pre-bid conference.
 - 1.3.2. Respond to contractor's questions during the bidding process.

- 1.3.3. Prepare addenda to address contractor questions.
 - 1.3.4. Review bid tabs.
 - 1.3.5. Review contractor recommendation.
 - 1.3.6. Selection of the contractor.
- 1.4. The **Engineer** shall provide limited construction phase services associated with the utility relocation, including administration and observation assistance, and excluding inspection services. A detailed scope of services is below:
- 1.4.1. Review 15 project submittals/shop drawings. The **Engineer** shall review each submittal up to two (2) times.
 - 1.4.2. Respond to two (2) Requests for Information (RFI). The **Engineer** shall coordinate with the Utility Owner and the Contractor on RFIs and respond with clarifications as needed.
 - 1.4.3. One (1) Change Order. The **Engineer** shall assist the Utility Owner in negotiation and preparation of change order documents, as necessary.
 - 1.4.4. Record Drawings. The **Engineer** shall prepare a set of record drawings based on Contractor's redlines in the field.
 - 1.4.5. **Exclusions** are as follows:
 - 1.4.5.1. Attend preconstruction meeting.
 - 1.4.5.2. Attend meetings when utility adjustments are in process.
 - 1.4.5.3. Attend periodic site visits.
 - 1.4.5.4. Final Walk Through and Punch List.
 - 1.4.5.5. Project Close Out.
 - 1.4.5.6. Review of pay application and affidavits.
 - 1.4.5.7. Preparation of a Concurrence Letter.
 - 1.4.5.8. Review of pay estimates.
 - 1.4.5.9. Inspection services.
- 1.5. The **Engineer** cannot perform utility design if that individual had a role in utility coordination on the project.

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Qtr 3, 2020 Jul	Qtr 4, 2020 Aug	Qtr 1, 2021 Sep	Qtr 2, 2021 Oct	Qtr 3, 2021 Nov	Qtr 4, 2021 Dec	Qtr 1, 2022 Jan
1	Task	Notice to Proceed	1 day	Tue 10/6/20	Tue 10/6/20								
2	Task	UTILITY ENGINEERING	323 days	Wed 10/7/20	Fri 12/31/21								
3	Task	30% SUBMITTAL	12 days	Wed 10/7/20	Thu 10/22/20	1							
4	Task	UTILITY OWNER REVIEW	5 days	Fri 10/23/20	Thu 10/29/20	3							
5	Task	90% SUBMITTAL	29 days	Fri 10/30/20	Wed 12/9/20	4							
6	Task	UTILITY OWNER REVIEW	5 days	Thu 12/10/20	Wed 12/16/20	5							
7	Task	100% SUBMITTAL	27 days	Thu 12/17/20	Fri 1/22/21	6							
8	Task	UTILITY OWNER APPROVAL	5 days	Mon 1/25/21	Fri 1/29/21	7							
9	Task	CONSTRUCTION PHASE	180 days	Mon 2/1/21	Fri 10/8/21	8							
10	Task	PROJECT CLOSEOUT	60 days	Mon 10/11/21	Fri 12/31/21	9							

Williamson County Road & Bridge Division Utility Engineering	Task	Inactive Summary	External Tasks
	Split	Manual Task	External Milestone
	Milestone	Duration-only	Deadline
	Summary	Manual Summary Rollup	Progress
	Project Summary	Manual Summary	Manual Progress
	Inactive Task	Start-only	
	Inactive Milestone	Finish-only	

Utility Engineering Services

Attachment D

Fee Schedule

Description of Work Task	Senior Project Manager	Senior Engineer	Project Engineer II	Project Engineer I	Senior Technician	Technician II	Clerical	Total Hours	Total Cost
	\$235.00	\$195.00	\$150.00	\$125.00	\$145.00	\$115.00	\$80.00		
UTILITY ENGINEERING	24	32	80	160	40	0	24	360	\$ 51,600.00
CONSTRUCTION	0	0	20	48	0	0	4	72	\$ 9,320.00
Total Hours	24	32	100	208	40	0	28	404	
Cost	\$5,640	\$6,240	\$15,000	\$26,000	\$5,800	\$0	\$2,240		\$ 60,920.00

Other Direct Expenses

Description	Unit Cost	Units	CobbFendley	
			Quantity	Total
In-House Reproduction:				
Copies (up to 11"x17")	\$ 0.15	each	4070	\$610.50
Color Prints (up to 11"x17")	\$ 1.50	each	0	\$0.00
Color Prints (Larger than 11"x17")	\$ 3.00	sq. ft.	0	\$0.00
Standard Postage	\$ 0.50	each	0	\$0.00
Express Mail (billed at cost - estimated cost shown)	\$ 25.50	each	0	\$0.00
Local Deliveries (billed at cost - estimated cost shown)	\$ 15.00	each	6	\$90.00
Mileage (billed at IRS approved rate - estimated cost shown)	\$ 0.585	mile	1140	\$666.90
Designation & Traffic Control Vehicle	\$ 3.50	mile	0	\$0.00
Location Vehicle (Van/Truck)	\$ 6.50	mile	0	\$0.00
Traffic Control (Lane Closures, etc.) (billed at cost - estimated cost shown)	\$ 1,500.00	each	0	\$0.00
Permits (Local, State, etc.) (billed at cost - estimated cost shown)	\$ 350.00	each	0	\$0.00
				\$1,367.40

Work Authorization Total \$ 62,287.40