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November 7, 2022

Mr. Tim Howe
Director of Water/Wastewater
City of Seguin
P.O. Box 591
Seguin, Texas 78156-0591

RE: Groundwater/Surface Water Interconnect
Water Pipeline Project - Final Engineering
Engineering Services Proposal

Dear Mr. Howe:

TRC Engineers, Inc. (TRC) has prepared this proposal for professional engineering services for the design of the groundwater/surface water interconnect project, to extend from near the intersection of 8th Street and Rio Nogales Drive to the SH 123 Elevated Storage Tank. This proposal is a supplement to the preliminary engineering services previously approved by the City (dated January 17, 2022).

PROJECT DESCRIPTION

The proposed project will consist of a PVC water main routed north from the City's existing water line located on 8th Street to the SH 123 elevated storage tank site North of I-10, as shown on the attached pipeline route map, to include the following components (defined as project limits):

1. Approximately 15,500 linear feet of 24" PVC water main to include jack-and-bore of a steel casing pipe with PVC carrier pipe beneath I-10 and SH 123 Business.

2. Twelve (12) 24" isolation gate valves.

3. Thirty (30) fire hydrants with 6" PVC piping and isolation valves.

4. One pressure reducing station on the south side of Interstate-10 for the connection to the existing surface water pipeline located on 8th Street. For the operation of the proposed pipeline into the existing pipeline, the Water Plant booster pumps/pipeline do not have the ability to pump against the upper pressure plane system pressure. Thus, for the event where the system will be fed from the SH 123 Tank, the design would include SCADA radio and antenna to communicate with the Water Plant booster pumps to lock out the pumps.

5. Connection to the SH 123 elevated storage tank. The general contractor will sub-contract with the tank manufacturer (Landmark) to make this connection.

6. Connection to the existing water system at N Guadalupe St & Rio Nogales.

ENGINEERING SCOPE OF WORK

TRC will perform the following Engineering Scope of Work:

A. Permitting

1. Submit applications and/or permits for:
    a. Texas Commission on Environmental Quality (TCEQ) – summary transmittal letter.
    b. TxDOT – utility crossing permits for SH 123 Business and I-10.

B. Construction Documents

1. Prepare construction documents for the proposed project, consisting of:
    a. Technical specifications, bidding and contract documents.
    b. General sheets, including general construction notes.
    c. Water pipeline plan and profile drawing sheets.
    d. Phased traffic control plan to maintain traffic during construction, if requried.
    e. Erosion control plan.
    f. City of Seguin Standard Construction Details.
    g. Miscellaneous details.
2. Submit 60%, 90% and 100% construction documents to City for review/approval, and meeting with City Staff to discuss each.
3. Acquire information from the franchise utilities (gas, telephone, cable, etc.) and determine need for relocation. The City will provide direct correspondence with the franchise utilities. Design of existing utility relocations shall be provided by others.
4. Attend public outreach meetings to discuss the proposed project (Maximum of two), if required.
5. Provide final set of construction documents for bid.

C. Bidding Support

1. Organize and participate in construction pre-bid meeting.
2. Address contractor questions during the bidding process and submit bid addendums as applicable.

3. Assist the City in bidding process including preparation of advertisement document, opening and tabulation of bids, and award recommendation letter.

4. Attend City Council meeting for construction award.

5. Prepare construction contract documents.

D. Construction Support

1. Organize and conduct the pre-construction meeting.

2. Provide contractor correspondence, submittal review, request for information review, and pay request review.

3. Organize and attend monthly construction meetings (maximum of 20) and provide meeting minutes.

4. Organize and attend final inspection and prepare contractor punch list.

5. Prepare documents for project closeout including certificate of construction completion, which will set the construction warranty period.

6. Prepare record drawings based on information provided by the Contractor (3 sets of hard copies and one electronic copy PDF). TRC will not validate as-built conditions.

E. Construction Inspection

1. TRC will provide periodic construction inspection of the project at two (2) times per month for a maximum of four (4) hours per day for twenty (20) months after the start date of the project, for a maximum total of forty (40) inspections.

2. Inspection of critical path items as part of the periodic construction inspection including but not limited to:

   a. Utility coordination meetings.

ASSUMPTIONS

As the basis for the preparation for this proposal and the associated cost of service, the following assumptions were made which, if found to be incorrect may result in request(s) from TRC for additional compensation:

1. Where necessary, the City will be responsible for arranging property access (and acquiring executed right-of-entries) prior to commencement of any field survey and/or environmental investigations that may be required for properties not located within City right-of-way. TRC will not perform any field investigation on properties where access has not been granted.

2. Should the schedule be changed or put on “hold” by the City, all costs incurred by TRC up to notification of change of schedule or “hold” status will be billed to the City. Additional fees that TRC may incur as a result of the change of schedule or “hold” status will be billed to the City once the Project has resumed in addition to the cost of services included in this proposal.

3. The entire project will consist of a single bid/construction project.

4. TRC’s effort and costs for construction services are based on a twenty (20) month construction project duration, starting from the date of the Contractor’s notice to proceed. If the construction period extends beyond this time period, TRC may request additional compensation.

5. Environmental and cultural resource services are being provided for this project through the preliminary engineering services previously approved by the Ctiy. This proposal assumes no additional work is required for those services.

6. The pressure reducing valve for the surface water pipeline connection would include a radio and antenna for communication to the City’s SCADA system.

EXCLUSIONS

The following items are specifically excluded from the scope of work:

1. Any design services not listed above, including but not limited to design of landscape or irrigation, street reconstruction, sidewalks or accessibility, electrical or lighting.

2. Full-time construction inspection.

3. Post-construction topographical survey or GIS system updates.

4. Design of improvements or relocations for sanitary sewer lines, electrical lines, gas lines, telephone lines or other franchise utilities.

5. Construction staking or field staking for other purposes.

6. Attendance at or preparation for condemnation hearings, easements or plat documents, landowner contact or easement negotiations, other than mentioned above.

7. Preparation of permits, applications, etc, other than mentioned above.

8. Costs for permitting or application fees or review fees by regulatory authorities, other than mentioned above or included in the cost table.

9. TDLR registration, fees, inspections, or plan review/approval.

10. US Army Corps of Engineers (USACE) permit preparation or notification, if applicable.

11. Land Acquisition Services.

12. Design of electrical distribution extension to the proposed pressure reducing station, if required.

13. SCADA programming.

14. Determination of valves for isolation for the low pressure area south of I-10, to convert area to the upper pressure plane.

COMPENSATION FOR SERVICES

TRC will provide the professional engineering services as outlined herein and within the Master Services Agreement executed between the City and TRC (dated December 16, 2003), for a total lump sum fee as follows:

Engineering Design:	$886,740.00
Construction Administration:	$167,660.00
Total:	**$1,054,400.00**

This fee includes labor and material costs associated with the Scope of Work identified above.

This fee takes into account the reduced Scope of Work as compared to the Preliminary Engineering proposal for services that were previously approved by the City. The Preliminary Engineering scope of work was for a water line length of eight miles, while this Final Engineering scope of work is for a water line length of three miles. The topographical surveying is reduced accordingly, the number of required easement field notes is reduced from 35 to 15, and the number of required Geotechnical bores is reduced from 35 to 13.

TRC's fee above is based on a continuous flow of work. Any delays or restrictions, caused by customer or customer's sub consultants, which result in idle-time or inefficiencies, could be cause for additional compensation.

The payment schedule will be via monthly progress billing.

Changes in scope, including additional scenarios or modification to the scenarios identified above will be evaluated for additional services and/or materials cost through a formal change order process, which results in approval of the additional cost prior to executing the additional work. Fees for services quoted in this Letter of Agreement are valid for a period of time not to exceed 60 days from the date of this letter.

We appreciate the opportunity to assist with this project and are available to proceed immediately with your written approval. Please review this proposal and, upon acceptance, sign in the space provided below, returning a copy for our files.

Sincerely,

Craig Bell

H. Craig Bell, P.E.
Austin Engineering Director – DMS

November 7, 2022
Date

City of Seguin

Date

CITY OF SEGUIN GROUND WATER/SURFACE WATER INTERCONNECT

8TH ST

PROPOSED PRESSURE REDUCING VALVE

LOWER PRESSURE PLANE INTERCONNECT

INTERSTATE 10

RIO NOGALES ST

N GUADALUPE ST

N AUSTIN ST

STREMPEL RD

ELEVATED STORAGE TANK

LEGEND

PROPOSED GW/SW INTERCONNECT
TOTAL PIPE LENGTH = 15,463 LF (2.92 MILES)

N

0 300 600 1200

SCALE : 1" = 600'

TRC ENGINEERS, INC.
505 E. HUNTLAND DRIVE, STE. 250 AUSTIN, TX 78752
T.B.P.E. FIRM REGISTRATION # F-8632
(512) 454 - 8716

F:\WORK IN PROGRESS\SEGUIN\486131 GROUNDWATER - SURFACE WATER INTERCONNECT\500 CAD-GIS DRAWINGS\501 DRAWINGS\501.3 EXHIBITS\PIPELINE REFERENCE 24X36 BLOWUPS GABY'S EXHIBITS.DWG - 11/7/22