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October 26, 2015

Mr. Emery E. Gallagher
Water/Wastewater Utility Director
City of Seguin
P.O. Box 591
Seguin, Texas 78156-0591

RE: Sagebiel Road 10" Sanitary Sewer Replacement Project
Engineering Services Proposal (Revised)

Dear Mr. Gallagher:

At the request of the City of Seguin, this letter represents TRC's engineering services proposal for the above-referenced project, which will consist of the replacement of approximately 4,100 linear feet of 10" sanitary sewer main on Sagebiel Road extending from FM 466 to connect to the existing main that extends across Geronimo Creek.

The cost to provide the engineering services, based on the attached preliminary scope of work, is as follows:

Design Services:	\$38,912.00
Topographical Surveying:	\$6,680.00
Environmental:	\$7,824.00
Easements (maximum of two):	\$1,430.00
Total:	\$54,846.00

The services will be provided under the Master Services Agreement executed by the City and TRC. If this is acceptable, please execute on the line provided below and return this proposal to TRC

The opportunity to provide this proposal is greatly appreciated. If you have any questions regarding this information, please feel free to contact this office.

Sincerely,

H. Craig Bell, P.E. - TRC

City of Seguin

Date

10/26/15

Date

CITY OF SEGUIN
SAGEBIEL ROAD 10" SANITARY SEWER REPLACEMENT PROJECT
ENGINEERING SERVICES PROPOSAL
PRELIMINARY SCOPE OF WORK
(10/26/15)

ENGINEERING DESIGN SCOPE OF WORK:

1. Acquire field topographical data needed for the project design. Provide two (2) construction/permanent easements.
2. Provide environmental services (See attached scope).
3. Provide submittal package to TCEQ for project notification.
4. Prepare construction plans/specifications for the proposed project, including all details.
5. Assist the City in bidding process including preparation of advertisement document, assist the City in the opening and tabulation of bids, prepare award recommendation letter and prepare construction contract documents.
6. Assist the City during construction consisting of pre-construction meeting, contractor correspondence, submittal review, pay request review, periodic site visits (maximum of four), final inspection, preparation of contractor punch list and record drawing preparation (3 sets of hard copies and one CD electronic copy).

EXCLUSIONS:

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

- Construction staking.
- Continuous construction inspection.
- Detailed title search or title policy.
- Attendance at or preparation for condemnation hearings.
- Easement or Plat documents, landowner contact or easement negotiations (other than listed above).
- Archaeological surveys (if applicable).
- Endangered species mitigation plans/costs (if applicable).
- Species-specific threatened and endangered survey.
- Clean Water Act Section 404 individual permit.



ENVIRONMENTAL SCOPE OF WORK:

PROJECT DESCRIPTION

The City of Seguin is proposing to replace approximately 4,100 linear feet (0.78 mile) of 10-inch sanitary sewer main along Sagebiel Road from FM 466 to an existing main across a tributary to Geronimo Creek. The proposed project would occur within existing right-of-way along Sagebiel Road, then within a 20-foot permanent utility easement across private property from the end of Sagebiel Road to the existing manhole. Along private property, construction would occur within a 50-foot temporary construction easement. Depth of cut for the proposed sewer main is typically 6 to 8 feet, but includes cuts up to 16 feet. Crossing of the tributary would be done by open cut.

SCOPE OF WORK (SOW)

The proposed SOW includes jurisdictional determination of potential waters of the U.S. in accordance with U.S. Army Corps of Engineers (USACE) regulations, habitat assessment for federally and state-listed threatened and endangered (T&E) species, and project consultation with the Texas Historical Commission (THC).

TASK 1: Natural Resource Services

TRC will perform an investigation of the natural resources within the proposed project area to identify existing conditions and determine the presence of sensitive natural resources that could potentially be impacted by the proposed project. The natural resources investigations will consist of a background data review and field survey. Results of the investigation will be used in support of USACE reporting requirements.

Waters of the U.S. Delineation

TRC will perform a background review of existing and available data, including U.S. Geological Survey (USGS) topographic maps, USFWS National Wetland Inventory (NWI) maps, U.S. Department of Agriculture Natural Resources Conservation Service (NRCS) Soil Surveys, Federal Emergency Management Agency (FEMA) floodplain maps, aerial photography, as well as other available planning maps and reports.

Following the background data review, TRC biologists will conduct a field survey to determine the location and extent of any potential waters of the U.S., including wetlands, within the proposed project area. The survey will be performed in accordance with methods described in the 1987 Corps of Engineers Wetlands Delineation Manual (USACE 1987) and Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Great Plains Region (Version 2.0; USACE 2010). The boundary of water bodies potentially subject to USACE jurisdiction are defined by the Ordinary High Water Mark (OHWM), except where wetlands are present. The OHWM is the line on the water body's bank established by the presence and/or fluctuations of water, and is indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, and/or changes in the character of the soil. Vegetation, soils, and hydrology will be recorded for each wetland and non-wetland site on appropriate USACE field data forms. The boundaries of the wetlands will be marked in the field with flagging at intervals necessary to accurately depict the wetland boundary. Data collection sites and jurisdictional wetland and/or water body boundaries will be surveyed using a sub-meter Global Positioning System (GPS) unit.



Habitat Assessment for Threatened and Endangered Species

In accordance with USACE Section 404 permitting requirements, the Endangered Species Act of 1973, and State of Texas regulations, TRC will perform a background review of existing and available data to determine the potential for protected species to occur within the project area. The background data review will include a search for the current listing of Federal and State-listed rare, threatened, and endangered species for Guadalupe County; federally-designated Critical Habitat; the Texas Parks and Wildlife Department's (TPWD) Texas Natural Diversity Database (TXNDD); as well as other available data to assess the potential for protected species to occur within the project area.

Following the background data review, TRC biologists will conduct a survey concurrent with the waters of the U.S. delineation for T&E species habitat, vegetation communities, and other sensitive natural resources that may be present within or adjacent to the project area. TRC will identify predominant vegetation communities and address their abilities to provide habitat to support T&E species.

U.S. Army Corps of Engineers Coordination

Based on a preliminary review of current project information provided by project engineers, TRC anticipates that the proposed project would utilize a Nationwide Permit (NWP) 12 (Utility Line Activities), without pre-construction notification (PCN). Results of the natural resource investigations will be documented for project notification to the USACE – Fort Worth District Engineer within four weeks of completion of the field investigation.

TASK 2: Cultural Resource Services

TRC will perform a desktop review to identify existing conditions and identify documented cultural resources within the area of potential effect (APE) that could potentially be impacted by the proposed project. This data will be summarized in a letter of consultation and submitted to the THC for review.

THC Consultation

TRC will perform an archeological site file search using the THC Archeological Sites Atlas (THC Atlas) to compile current information on recorded cultural resources that are situated within a 1-mile radius of the APE. Other documents, including historic aerial photographs, USGS topographic maps, Sanborn maps, Texas General Land Office (GLO) documents, Historic Texas Overlay Database maps, and cemetery records may also be reviewed. The results of this site file search will be compiled in a letter of consultation for submission to THC. THC will review the letter of consultation and provide a response within 30 days of submission.

If THC concludes that the proposed undertaking could impact existing archeological sites or areas of high archeological potential, then they will require further investigation by a professional archeologist in the form of an archeological survey in compliance with the guidelines set forth in the Antiquities Code of Texas (Section 191.0525) and Texas Health and Safety Code (Title 1, Section 711). In addition, this project will likely require a USACE permit (NWP 12). Given this, compliance with the guidelines of Section 106 of the National Historic Preservation Act (36 CFR § 800) will also be followed.



If after consultation THC determines that an archeological survey of the proposed project area is required, then TRC will prepare a separate SOW and cost estimate for this service and submit to the City for approval.

ASSUMPTIONS:

TRC proposes to complete the services described in this SOW with the following assumptions:

- TRC anticipates that the field survey performed under Task 1 will require up to one full day to complete, including travel time. The field survey would be performed by two TRC biologists from the Austin, Texas office under one mobilization.
- Where necessary, the City will be responsible for arranging property access prior to commencement of the field survey for properties not located within public right-of-way. TRC will not perform any field investigation on properties where access has not been granted.
- Based on a preliminary review of the current project information provided by project engineers, TRC anticipates that the proposed project would utilize a NWP 12, without PCN. If it is later determined that additional permitting or PCN is required, then TRC will prepare a separate SOW and cost estimate for submittal to the City and subsequent approval prior to completing additional services.
- This SOW does not include USACE mitigation planning and/or implementation costs.
- This SOW covers a prescribed level of effort through the archeological site file search and THC consultation. If after consultation THC requires additional work in the form of an archeological survey, reconnaissance, and/or monitoring, then TRC will prepare a separate SOW and cost estimate for additional services and submit to the City for approval.
- This SOW assumes that no more than five (5) culturally significant properties (historic sites, National Register properties, historic markers, etc.) are located within one (1) mile of the APE. If the archeological site file search reveals more than five properties, then TRC will prepare a separate SOW and cost estimate for additional services and submit to the City for approval.
- No additional environmental services or studies (e.g., ASTM Phase I Environmental Site Assessment, T&E species-specific surveys, biological monitoring, etc.) beyond those already outlined in this SOW will be performed.
- Based on a preliminary review of the current project information provided by TRC's project engineers, TRC anticipates that the proposed project will have minimal impacts to sensitive natural resources. If it is determined after investigation that sensitive natural resources will be impacted by the proposed project, additional environmental services and fees may be required.