

October 17, 2025

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

**RE: 12" Sanitary Sewer Replacement & 12" Water Main Extension Project
Cordova Lift Station to Link Road
Engineering Services Proposal Amendment No. 2**

Dear Mr. Howe:

Ward, Getz, and Associates, PLLC (WGA) has prepared this proposal for amended professional engineering services for the extension of the upsized 12" diameter water main extension project and additional 8" water main extension.

PROJECT DESCRIPTION - WATER

The proposed amendment will consist of extending the currently designed 12" water main and adding an 8" water line to complete a looped system. The amendment shall include the following components (defined as project limits):

1. Approximately 6,300 additional linear feet of 12" PVC water main within the ROW along Link Road and Barbarossa Road.
2. Approximately 3,800 additional linear feet of 8" PVC water main within the ROW along Field Road.
3. Approximately twenty (20) additional fire hydrants with 6" PVC piping and isolation valves.
4. Connection to the proposed 12" line at the Hueber Road and Field Road intersection by others.

ENGINEERING SCOPE OF WORK (SOW)

WGA will perform the following additional Scopes of Work:

A. Topographical Survey

1. Acquire additional field topographical data for the additional water line extension of the project on City's coordinate system, to include:
 - a. Detailed survey including utility locates (as furnished by the specific utility provider) within the project limits described above.

- b. Provide subsurface utility engineering (SUE) for utility locates (quality level C and D) unless otherwise noted.
 2. Set horizontal and vertical primary control points.
 - a. Primary control points shall be set at a spacing of 500 ft. or greater and inter-visible with each other where possible, away from possible disturbance from construction activity.
 - b. Primary control points shall be used as the primary horizontal and vertical control for the project and as benchmarks for the project.
 - c. Horizontal and vertical data for primary control shall be based on Static RTK observations using the Leica Smartnet Network or approved equal.
 - d. The horizontal datum shall be based on NAD83 (2011) using the Texas Coordinate System, Central Zone (4203),
 - e. The vertical datum shall be based on NAVD88 using Geoid 12B.
 - f. Secondary control points shall be set as necessary for conventional ground surveying and terrestrial LiDAR scans
 3. Perform necessary research to obtain ownership records for properties affected by the project limits.
 - a. Prepare a project ownership spreadsheet and perform right-of-entry (ROE) coordination for site access from property owners to secure access for locating property corners, topographic design surveying within the survey limits and to set proposed right of way (ROW) corners. The City will send the right-of-entry access forms to the various property owners and acquire signatures if necessary.
 4. Provide design level topographic survey data within the project survey limits.
 - a. The survey will be performed on the ground utilizing a combination of terrestrial LiDAR with traditional field observation methods to locate found visible features, both horizontally and vertically, including existing on-site structures, drainage features, adjacent and onsite sidewalks, curb lines, pavement, roadway paint striping, driveways, fences and visible above-ground utility appurtenances within the survey limits.
 - b. The survey will obtain topographic field elevations throughout the project site at 50-foot x 50-foot grid intervals for use in developing a digital terrain model.
 - c. Markings from franchise utility services and city utilities will be located at time of survey.
 - d. Flowline elevations of found storm water and sanitary sewer manhole inlet structures immediately adjoining the site will be identified.
 - e. The survey will field locate found protected trees 6 inches or greater in trunk diameter measured at breast height, in accordance with municipal code. Trees will be tagged in the field and shown on the survey noting trunk diameter, species and canopy size.

- f. Survey deliverable will be an AutoCAD .dwg file showing topographic points, features and 1 ft contours, accompanied by a point file in .csv format and digital terrain model in .xml format.
5. Surveyor will perform necessary research to acquire ROW maps, current adjoining property deeds and subdivision plats for properties affected by the project limits.
 - a. Field boundary reconnaissance will be performed to locate found subject property and adjoining property corner monumentation.
 - b. Results will be compared, and boundary resolutions determined for affected rights-of-way and properties adjoining the project limits.
 - c. Existing easements of record discovered during abstracting will be shown on the survey.
 - d. Deliverable will be PDF copies of property research and an AutoCAD .dwg file showing established ROW lines, adjoining property lines, found easements and record property ownership information.

B. Permitting

1. Update applications and/or permits for:
 - a. Texas Commission on Environmental Quality (TCEQ) – summary transmittal letter.

C. Construction Documents

1. Update construction documents for the amendments.
2. Submit 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. Provide conformed set of bid plans for the overall project and update existing project documents to Contractors through addendums and bid forms to include into current project bid timeline.

D. Construction Support

1. Organize and attend monthly construction meetings (maximum of 3 additional) and provide meeting minutes. Periodic construction inspection of the project will occur prior to or after these meetings for a maximum of two (2) hours per day for three (3) additional months after the start date of the project, for a maximum total of eighteen (18) inspections.

E. Construction Inspection (Full Time)

1. WGA will provide full time construction inspection of the project at nine (9) hours per day for five (5) days per week for a maximum additional three (3) months after the start date of the project.
2. All specified tasks will be followed and adhered to per the original proposal dated March 5, 2024.

ENVIRONMENTAL SCOPE OF WORK

Threatened & Endangered (T&E) Species Desktop Assessment (Office Work Only)

WGA will document expected compliance with the Endangered Species Act (ESA), a desktop review and assessment of federally and state-listed threatened and endangered species will be completed. The project area will be evaluated for known occurrences and suitable habitat associated with special status species that have been documented by Texas Parks and Wildlife Department (TPWD) (e.g. Texas Natural Diversity Database (TXNDD) datasets) and U.S. Fish and Wildlife Service (USFWS) (e.g. mapped critical habitat datasets). The evaluation shall document existing habitats by aerial photography interpretation and assess the areas for the likely presence of the specific habitat types required for state or federally listed rare, threatened, and endangered species, as well as migratory birds. A USFWS Information for Planning and Consultation (IPaC) review will be requested for the project area.

An on-the-ground survey is not included in this scope of work, and this desktop assessment may result in the identification of necessary on-the-ground surveys or agency consultations prior to project commencement.

Cultural Resources Management (CRM) Desktop Assessment (Office Work Only)

WGA will document expected compliance with the National Historic Preservation Act (NRHP), as required by any federal permit issuance or to document compliance with the Texas Historic Commission (THC) as required by any state permit issuance, a professional archeologist will compile information on available previously recorded cultural resources surveys (e.g. Texas Archeological Sites Atlas datasets), archaeological sites, and historic resources within the proposed project area and to assess the potential for the presence of unidentified cultural resources eligible for inclusion in the NRHP. The cultural resources desktop review document is intended to be used to coordinate future cultural resource compliance with relevant regulatory agencies. This scope of work does not include a pedestrian survey of the project area. This assessment may identify the need for on-the-ground additional scopes of work, which would be dependent on the proposed development plan and the subsequent concerns that a THC project reviewer or specified federal agency project managers are anticipated to have.

WGA does not expect a need for on-the-ground survey based upon the majority of the project has been disturbed by previous construction activities from the original installation of the sewer line.



However, the below approach is suggested should it be necessary and has been included as an alternative cost.

ASSUMPTIONS

As the basis for the preparation for this amendment and the associated cost of service, the following assumptions were made which, if found to be incorrect may result in request(s) from WGA 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 the field survey and/or environmental investigations for properties not located within City right-of-way. WGA will not perform any field investigation on properties where access has not been granted.
2. Subsurface Utility Engineering if provided will not relieve the contractor from the duty to comply with applicable utility damage prevention laws and regulations, including, but not limited to, giving notification to utility owners or “One-Call Notification Centers” before excavation.
3. Should the schedule be changed or put on “hold” by the City, all costs incurred by WGA up to notification of change of schedule or “hold” status will be billed to the City. Additional fees that WGA 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.
4. The entire project will consist of a single bid/construction project.
5. WGA’s effort and costs for construction services are based on a new total of twenty one (21) month construction project duration, starting from the date of the Contractor’s notice to proceed. If the construction period extends beyond this time period, WGA may request additional compensation.
6. All other assumptions from the original proposal dated March 5, 2024 will be considered in effect for this amendment.

EXCLUSIONS

All exclusions from the original proposal dated March 5, 2024 will be considered in effect for this amendment.



COMPENSATION FOR SERVICES

WGA will provide the professional engineering services as outlined herein for a total lump sum fee as follows:

Water Extension Project*

Environmental/Cultural Services (Desktop):	\$6,490.00
Topographical Surveying:	\$66,451.00
Engineering Design:	\$108,430.00
Construction Management:	\$67,630.00
Construction Inspection (Full Time – 3 months):	\$60,828.00
Subtotal Water:	\$309,829.00

*Assumes work on the sewer project is awarded and water project at the same time.

Total Amendment:	\$309,829.00
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The total fee of the amendment is for a lump sum cost of \$309,829.00.

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

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,



K. Beau Perry, P.E.
Regional Practice Leader

10-17-25

Date

City of Seguin

Date