



January 14, 2026

Ms. Terri Lynn Ruckstuhl, P.E.
Senior Utilities Engineer
City of Seguin
P.O. Box 591
Seguin, Texas 78156-0591

**RE: Cordova Road 2.0 Mgal Elevated Water Storage Tank
Engineering Services Proposal**

Dear Ms. Ruckstuhl:

As requested by the City of Seguin (City), TRC Engineers, Inc. (TRC) has prepared this proposal for professional engineering and related services (as discussed herein) for the above-referenced project, consisting of a new 2,000,000 gallon elevated water storage tank, to be located near the intersection of Hwy. 46 and Cordova Road on east side of the TSTC college property.

PROJECT SUMMARY

The project will consist of professional engineering services in support of the following projects, which will be designed and constructed as one (1) single project:

1. 2.0 Mgal Elevated Water Storage Tank
 - a. The site will include a 2,000,000 gallon composite elevated storage water tank consisting of a concrete support pedestal and painted steel tank bowl, with overflow elevation and storage depth to match that of the City's 123 elevated tank as part of the upper pressure plane.
 - b. The tank will include a concrete floor at ground level, painted logos, interior and exterior lights, dedicated inlet with motorized control valve, distribution (discharge) piping, overhead garage doors, interior electrical and SCADA Communication mounted at the top of the tank.
2. SHSUD Interconnect
 - a. One (1) single story building structure, approximately 12 ft. wide x 25 ft. long to house the control valve, flow meter, controls and piping for an interconnect with SHSUD. The building will be constructed of split-face CMU walls on a concrete pad.
 - b. Building to include HVAC, electrical and lighting, and SCADA communication.
3. Sitework
 - a. Concrete roads and sidewalks. Entry road will extend from and connect to Cordova Road. The City will provide TRC with design drawings (CAD files) of the Cordova Road proposed improvements.
 - b. Tank overflow discharge routed into the on-site stormwater detention pond, if applicable.
 - c. Eight (8) foot tall concrete perimeter security fence for the two (2) acre site and the entrance road with automatic entry gate at Cordova Road, keypad (badge/fob access), and video monitoring.

- d. Site security cameras.
 - e. Tank LED lighting (white lighting).
 - f. Site LED lighting.
 - g. Site electrical.
 - h. Site piping.
4. Emergency Electrical Generator
- a. Pad-mounted, natural gas fed electrical generator with automatic transfer switch for automatic initiation upon power failure.
5. Stormwater Detention Pond
- a. A single earthen detention pond with concrete discharge structure, sized to detain the increased stormwater runoff flow for the 2-, 10-, 25-, 50- and 100-year storm events. No offsite storm discharge piping is anticipated or included in TRC's work scope.
 - b. Alternatively, a stormwater collection system will be installed to route the runoff to the stormwater detention pond constructed by the College.
6. Water Mains
- a. TRC's scope of work will include three (3) water mains, extending from Cordova Road to the Tank and installed within the entrance road property. This will include two (2) 24" water mains, one (1) for dedicated tank fill and one (1) for distribution, and one (1) 16" water main for the SHSUD interconnect. All pipe connections will be located within the Cordova Road right-of-way and will be within 100 feet of the site entrance road.

SCOPE OF WORK/WORK TASKS

Task 100. General Requirements

- 101. Attend kickoff meeting with the City to set major milestone dates, establish design standards and confirm goals and deliverables for the project. TRC will provide meeting minutes to establish agreed-upon determinations.
- 102. Obtain and Review Available Data, including:
 - a. Historical operational data.
 - b. Maps and Data Sources for review of the Design, as provided by the City.
 - c. Soil Surveys.
 - d. USGS 7.5-minute Quadrangle Maps.
 - e. FEMA Firm Map.

103. Conduct Field Review of Project – Conduct a single field review onsite with representatives of the City to ensure avoidance or minimization of environmental, permitting, and engineering issues and determine presence of any additional constraints.
104. Arrange for and participate in informal meetings with the City throughout the design phase to review progress and exchange ideas and information. A maximum of six (6) meetings is included in this scope of work.
105. Maintain a log of issues on the design and the party responsible for resolution.
106. Submit applications and/or permits for:
 - a. City of Seguin Engineering Department.
 - b. Texas Commission on Environmental Quality (TCEQ).
 - c. Federal Aviation Administration (FAA).
107. Prepare construction plans/specifications for the proposed project including all details. Construction plans shall include the following primary disciplines, as a minimum:
 - a. General
 - b. Demolition
 - c. Civil
 - d. Mechanical
 - e. Structural
 - f. Electrical and HVAC
 - g. Process control description for SCADA and P&ID's
 - h. Landscaping and Irrigation
 - i. Gas pipeline and metering for natural gas generator, for that portion within limits of tank site property.
 - j. Miscellaneous details
 - k. SWPPP and erosion control plan
108. One (1) construction bid packet will be developed and constructed to include both projects, as listed above.
109. Provide design submittals to the City for review for 30%, 60%, and 100% completion milestones.

Task 200. Environmental

The following environmental services will be provided:

201. TRC will perform a desktop-level review to identify existing conditions, previous cultural resource investigations and documented cultural resources within 1.6 km (1.0 mile) of the Project Area. TRC will conduct an archeological file search using the Texas Historical Commission (THC) Archeological Sites Atlas (THC Atlas) to compile current information on recorded cultural resources. TRC will review appropriate data sets to determine the potential for undocumented resources to be present within or immediately adjacent to the Project Area. Data reviewed may include but are not limited to the following: Current and historic aerial imagery, USGS topographic maps, Sanborn maps, USGS NHD data, NRCS Soil Survey data, cemetery records, and other readily available cultural and archaeological resources and data. The results of the desktop-level study will be summarized in a Cultural Resources Desktop Study Report and submitted to the THC to initiate Project Review and determine what level of cultural resources investigations may be required.
202. The Project may be subject to regulation by the U.S. Army Corps of Engineers (USACE) under Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act if Waters of the United States (WOTUS) are present on-site and impacts to them cannot be avoided. The Endangered Species Act protects plants and animals that are listed as endangered or threatened by the USFWS and the National Marine Fisheries Service (NMFS). Over 1,000 species of migratory birds are federally protected under the Migratory Bird Treaty Act (MBTA). Texas state laws and regulations provide additional protections to state listed species listed by the TPWD.

To facilitate Project planning and environmental due diligence and compliance with applicable federal laws and regulations protecting WOTUS and federal and state laws and regulations protecting plants and animals, TRC will perform a desktop-level review to assess the Project's potential for impacting potentially jurisdictional WOTUS and protected species and/or their habitat(s). The desktop review will include review of readily available data and resources including, but not limited to, the following:

- a. Current and historic aerial imagery,
- b. U.S. Geological Survey (USGS) topographic maps,
- c. USGS National Hydrography Dataset (NHD) data,
- d. U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) data,
- e. U.S. Department of Agriculture (USDA) – Natural Resources Conservation Service (NRCS) soil survey data,
- f. Federal Emergency Management Agency (FEMA) flood hazard maps and data,
- g. USFWS Information for Planning and Consultation (IPaC) project planning tool,
- h. Texas Parks and Wildlife Department (TPWD) Annotated County Lists of Rare Species,
- i. TPWD Texas Natural Diversity Database (TXNDD), and
- j. Other readily available resources and data.

203. Following the background desktop-level data review (Task 202), a TRC biologist will conduct an in-person site visit to confirm and verify the findings of the desktop review. During the site visit, the TRC biologist will document on-site conditions, the presence/absence of any on-site aquatic resources, and the presence/absence of potentially suitable protected species habitat(s).
204. Following the Site Visit (Task 203), TRC will prepare a memorandum summarizing the results of the desktop review and site visit. The memo will address any regulatory considerations that may be applicable to the Project and will include TRC's recommended next steps, if necessary. If additional services are identified as necessary, TRC will prepare a separate SOW and cost estimate for additional services, if requested. TRC will provide a draft TRC Summary Memo of Findings and Regulatory Considerations for DMS and/or the City of Seguin to review in electronic PDF format and will provide one (1) round of edits following receipt of review comments to produce a final Summary Memo of Findings and Regulatory Considerations.

Task 300. Topographical Surveying

301. Acquire field topographical data for the design portion of the project on City's coordinate system, to include detailed survey including utility locates (as furnished by the specific utility provider).
302. TRC will provide level C and D for SUE utility locating.
303. Locate and/or set property corners for City owned property for booster pump station site.
304. Existing Buried Utility Locates
 - a. Provide field locates (horizontal and vertical location) of existing buried utilities using non-destructive, hydro/vacuum excavation.
 - b. TRC's cost includes a maximum of six (6) hole locations, each with a maximum depth of ten (10) feet. The work is to be performed in one (1) mobilization.
 - c. TRC's surveyor will be present to shoot the encountered utilities.
 - d. Costs do not include traffic control.
 - e. Utility locates are assumed to be outside the pavement and TRC's cost does not include pavement repair.

Task 400. Geotechnical Services

A Geotechnical Exploration will be performed to support the design of a composite aboveground tank and a small operations building. The proposed site is located in open farmland. The operations building is assumed to be a lightly loaded, slab on grade structure approximately 15 ft. wide x 30 ft. long in size. Building/structural loads, anticipated foundation types, conceptual site development plans, settlement tolerances, or a grading plan is not known at this time; only a general site location plan is

available. The purpose of geotechnical exploration is to obtain an understanding of geological information and subsurface conditions; and to determine relevant engineering-related properties of the Site soils at the boring locations to be used for foundation design and construction of the tank and building by the City.

The following Scope of Work is based on TRC's understanding of the project and our experience with similar projects.

401. All work will be performed by qualified personnel under the supervision of a registered professional engineer from TRC, and the report(s) submitted shall bear the engineer's seal.
402. TRC will select and mark out the test boring locations in the field with a mobile based application using Google Earth KMZ files and by measuring off existing site features (e.g., edge of pavement, building corners, etc.) as a reference. TRC's drilling subcontractor will contact Texas 811 one-call utility notification to verify public utility locations within public right-of-way and easements where these utilities may enter the Project Site. The City will need to provide TRC with the locations of any known existing on-site subsurface utilities before the start of our field work. TRC will work with the City to identify possible underground utility locations and offset borings as necessary to avoid conflicts. Geophysical utility verification consisting of ground penetrating radar and EM induction to identify potential buried objects at the proposed test boring locations prior to drilling is not included in the current scope and costs but could be provided, *if requested and authorized*.
403. The test borings will be drilled by a drilling subcontractor under the observation of TRC's geotechnical engineering staff. All fieldwork will be conducted using a truck- or track-mounted drilling equipment. The City shall arrange for any necessary access and approvals required for the drill crew to work on the site during normal daytime working hours (minimum 8 hours per day) without any interruptions. We assume that all test boring locations are open and accessible to standard truck- and track-mounted drilling equipment.
404. TRC's drilling subcontractor will drill five (5) test borings for the tank and one (1) test boring for the support building at accessible locations. The borings for tank will be extended up to a depth of 80 feet below ground surface (bgs) and 40 feet bgs for the support building. The location of the borings will be identified once site plan is received based on site conditions. Soil sampling will be conducted continuously to a depth of 10 feet bgs and maximum 5-foot spacing thereafter to the target boring depth. We will perform soil sampling and field testing such as pocket penetrometer readings of cohesive samples, and other testing as may be required to secure necessary data. Soft shale is expected to be encountered at approximately 50 feet below ground surface (bgs). Rock coring may be performed (ASTM D2113) based on subsurface conditions encountered and at the discretion of the drilling inspection.
405. Groundwater measurements will be recorded during drilling and/or shortly after completion of each boring. No long-term groundwater measurements, installation of piezometers, or monitoring will be performed.

406. Borings will be backfilled with the soil cuttings. It should be noted that some settlement of the borehole backfill may occur over time. This proposal does not include return site visits for maintenance of the borehole locations after completion of our exploration program. No soil cuttings will be drummed or removed from the Sites and any excess drilling spoils will be placed adjacent to each test boring location within landscaped areas. Costs for drumming of drill cuttings, disposal of excess materials, decontamination of drilling or sampling tools, or grouting/sealing of the boreholes are not included in this proposal. No additional site restoration is included with the current scope of work or associated cost estimate.
407. The budget assumes that the drilling of the six (6) borings will be completed in five (5) working days, excluding boring markout. If additional days are required for the field drilling activities due to an increased number of borings or drilling depths, additional time to access boring locations, etc., TRC will discuss with the City the additional cost that can be realized for drilling and sampling beyond the assumed number of days of field work, if needed.
408. Upon completion of the field work the soil samples will be delivered to TRC's AASHTO accredited laboratory where the field classifications will be verified by a member of TRC's geotechnical engineering staff and representative samples will be selected for laboratory testing to evaluate engineering characters and parameters, including, but not limited to moisture content, grain size distribution, and plastic characteristics (Atterberg Limits). One (1) representative composite sample of the surficial soil materials (0-5 ft. bgs) encountered within the borings will be sent to an accredited laboratory for corrosivity testing (including electrical resistivity, pH, chlorides, sulfates).
409. Upon completing the field and laboratory testing, our engineering staff will summarize the work completed and prepare a Geotechnical Engineering Report. A draft report (electronic PDF copy) will be provided to the City for review. Once the City's comments have been addressed, a final version of the report (electronic PDF copy) will be provided to the City. The geotechnical engineering report will summarize TRC's understanding of the proposed construction, site conditions, exploration activities, subsurface conditions and impacts on the proposed foundations and construction, and address project specific concerns including but not be limited to issues such as:
- a. Recommended foundation system(s) and criteria to be used in the design, including but not limited to bearing capacity, axial and lateral pile capacities, recommended bearing elevation, and anticipated settlement, as applicable.
 - b. Foundation constructability concerns.
 - c. Earthwork recommendations for site preparation including placement, compaction and testing of fills.
 - d. Recommended active, at-rest, and passive pressures for below grade structures, excavations and temporary excavation support design by others, if applicable.
 - e. Groundwater conditions including perched conditions and control of groundwater during construction, as applicable.
 - f. Corrosivity potential on buried steel and concrete.

- g. Frost depth.
- h. Subgrade modulus for design of mats and/or slabs by others.
- i. Geotechnical parameters for use by others in the design of temporary excavation and temporary protection, such as sheeting, underpinning, and temporary dewatering systems.
- j. Seismic Site Class parameters as determined by ASCE 7-22.
- k. Other construction-related concerns, as warranted based on site subsurface conditions, details of the proposed construction, and anticipated loading conditions.

Copies of typed test boring logs, a test boring location plan, and the laboratory test results will be included as appendices to the report.

Task 500. Drainage Report

- 501. The study will utilize a HEC-RAS 2D model to model the area of the project site. The existing conditions will be modeled and the proposed conditions. The need for detention will be reviewed and it is anticipated to be small for the area. A detention pond run will be included in the proposed condition along with any pipes/inlets in the model. The preliminary layout shows a long driveway leading south to the 2-acre area. There is a waterway on the eastern part of the site that is a Zone AE floodplain (Guadalupe River Tributary #4a). The site itself is not located on a mapped floodplain as shown on FIRM maps 48187C0120G and 48187C0260G dated 3/27/2024.
- 502. If there is an increase in the flow from the additional impervious cover, the detention pond will be used to get the outflow of the site. If there is a change in flow this change in flow will be used in the impacts of the Guadalupe River Tributary 4a model. It is anticipated that the 2-acre site increase in flow will be small in comparison to the drainage area of Guadalupe River Tributary 4a which is about 2 square miles at Cordova Road. The project site is 0.16% of the drainage area of the Guadalupe River Tributary 4a.
- 503. The report will follow the Seguin stormwater criteria manual (November 3, 2023) for a Tier 3 report and will have the following:
 - a. Narrative of existing conditions, proposed development, and impacts
 - b. Aerial map with site identified
 - c. Digital Flood Insurance Rate Map (DFIRM) with site identified Project shown
 - d. Land use map and impervious cover exhibit (existing)
 - e. Land use map and impervious cover exhibit (proposed)
 - f. Soil type map with site identified
 - g. Onsite Drainage Area Map (Reference 1.4.4.4.)
 - h. Overall Drainage Area Map (Reference 1.4.4.4.)
 - i. Existing conditions site plan (Reference 1.4.4.5.)

- j. Grading and Drainage Site Plan (Reference 1.4.4.6)
- k. Hydrologic Data (Reference 1.4.4.7)
- l. Time of concentration flow paths, 2ft contours
- m. Flow, calcs and check
- n. Hydraulic Data (Reference 1.4.4.8)
- o. Downstream Impact Analysis (Reference 1.4.4.9)
- p. Inlet, channels, pipes calculations
- q. Narrative to downstream impacts
- r. Map showing downstream impacts
- s. Conclusion narrative summarizing potential project impacts and mitigation
- t. Signed and sealed Stormwater Management Report (digital copy)

Task 600. Design Memorandum

- 601. Prepare the Basis of Design Memorandum to establish the design parameters for the items listed under Project Summary above. The memorandum will be in accordance with TCEQ's design requirements (Chapter 290, Subchapter D) and include a flow schematic, site plan, layout of proposed buildings, structures and streets, description of the proposed facilities, and preliminary design calculations. A single Memorandum will be provided.
- 602. Meet with the City obtain comments in a single meeting. Resolve any issues if necessary and resubmit three (3) final copies to the City.
- 603. Submit the final Design Memorandum to TCEQ for review. Address comments from TCEQ, as applicable.

Task 700. Construction Contract Documents

Task 710. Level 1 (30%) Design

- 711. Provide sketches and drawings showing conceptual plan views of processes and structures.
- 712. Provide a site plan showing the location of paving and structures and major pipelines.
- 713. Provide a preliminary P&ID.
- 714. Provide selected cut-section views of structures for clarification as appropriate.
- 715. A total of three (3) sets of Level 1 documents will be submitted to the City for review.
- 716. The City will provide a written response to TRC regarding review comments.

717. A single meeting will be conducted with the City to review the comments for each of the projects.

Task 720. Level 2 (60%) Design

721. Provide drawings showing standard details.
722. Provide drawings showing the details of pipelines, mechanical equipment, processes and structures to be included in the project.
723. Major electrical equipment will be shown on background drawings to indicate preliminary design concepts. Provide site electrical loads to the City for electrical distribution service to the site.
724. Structural drawings and notes will be provided on the major structures.
725. Provide preliminary equipment specifications in CSI format including Divisions 0 and 1.
726. A total of three (3) sets of Level 2 documents will be submitted to the City for review.
727. The City will provide a written response to TRC regarding review comments.
728. A single meeting will be conducted with the City to review the comments for each of the projects.
729. Provide the opinion of probable construction cost (OPCC).

Task 730. Level 3 (100%) Design

731. Provide substantially complete drawings showing the details of all facilities. All drawings will be produced in AutoCAD. Completed standard and general detail sheets will be provided.
732. Completed technical specifications and front-end documents will be included. Specifications will include construction sequences and schedules as appropriate. Specifications will be in word format.
733. A total of three (3) sets of Level 3 documents will be submitted to the City for review.
734. The City will provide a written response to TRC regarding review comments.
735. A single meeting will be conducted with the City to review the comments for each of the projects.
736. Submit the bid documents to the City's development portal for review/approval.
737. Update the opinion of probable construction cost based on new information provided.

- 738. Incorporate all of the City's comments into a final set of drawings and specifications ready for bidding. Provide three (3) sets of documents to the City.
- 739. Submit final documents to the City and TCEQ for review, as applicable.

Task 740. Pre-Award Services

- 741. Coordinate bid letting date, time and place with the City and prepare final Invitation to Bid.
- 742. Assist and advise the City in placing the advertisements of the Invitation to Bid.
- 743. Identify potential contractors and suppliers acceptable to the City and distribute copies of Invitation to Bid.
- 744. Distribute copies of Invitation to Bid to plan rooms and contractor organizations.
- 745. Set up the project on CivCastusa.com to distribute the bid documents to prospective bidders and plan rooms.
- 746. Distribute plan holders list to recipients of bid documents prior to bid opening. Maintain a record of prospective bidders and suppliers to whom bid documents have been issued.
- 747. Interpret construction bid documents. Prepare and issue project addenda to the construction bid documents when required.
- 748. Coordinate pre-bid conference date, time and place with the City, facilitate pre-bid meeting and prepare meeting minutes issued as a project bid addendum.

Task 750. Bid Processing

- 751. Assist the City during bid opening, make preliminary tabulation of bids and review bids for completeness.
- 752. Review and evaluate the qualifications of the apparent successful bidder. The review and evaluation will include such factors as work previously completed, equipment and staffing that is available for the work, publicly available financial resources, technical experience and responses from references.
- 753. If applicable, attend one (1) meeting for contractor qualification interviews with City Staff and contractor personnel.
- 754. Prepare and distribute formal bid tabulation sheets, evaluate bids, and make written recommendation to the City concerning contract award.
- 755. Prepare conformed set of construction documents to reflect any project addendums or modifications.

Task 800. Pre-Construction & Construction Phase Services

801. Review the Contractor's insurance certificates and forward the certificates to the City for acceptance by the City's legal counsel. Engineer's review of the insurance certificates is only for the purpose of determination if the Contractor maintains the general types and amounts of insurance required by the contract documents and is not a legal review to determine if the Contractor's insurance coverage complies with all applicable requirements.
802. Prepare and distribute five (5) sets of the construction contract documents, to include furnishing to the contractor unsigned documents, review for conformance with contract requirements and transmitting the documents to the City for signature and distribution.
803. At a date and time selected by the City and at a facility provided by the City, attend the preconstruction conference and assist the City during the conference. Prepare an agenda for the conference. The preconstruction conference shall include a discussion of the Contractor's tentative schedules, procedures for transmittal and review of the Contractor's submittals, processing payment applications, critical work sequencing, change orders, record documents, the City's expectations of the Contractor throughout construction, and the Contractor's responsibilities for safety and first aid.
804. Project Administration – Perform project administration services during the pre-construction and construction phases of the project by performing the services described herein. The Engineer shall not have the authority or responsibility to supervise, direct, or control the Contractor's work or the Contractor's means, methods, techniques, sequences, or procedures of construction.
805. The Engineer shall not have the authority or responsibility for safety precautions and programs incident to the Contractor's work or for any failure of the Contractor to comply with laws, regulations, rules, ordinances, codes, or orders applicable to the Contractor furnishing and performing the work.
806. Review and comment on the Contractor' preliminary and baseline schedule and advise the City as to acceptability.
807. Analyze the Contractor's construction schedule, schedule of values, activity sequence, and construction procedures.
808. Review the Contractor's initial and updated schedule of estimated monthly payments and advise the City as to acceptability.
809. Provide inspections/meetings by a registered engineer on an as-needed basis to observe progress of the work and consult with the City and the Contractor concerning problems and progress of the work. The costs provided herein are based on a maximum of eighteen (18) inspections/meetings by a registered engineer. It is acknowledged that some amount of

inspections/meetings may be required that is over and above this amount and if additional inspections/meetings are desired by the City, TRC will submit a separate proposal to address this additional need.

810. Continuous construction inspection is included as a separate cost in the Compensation for Services provided below. This task is for the ground mounted facilities only (excludes the tank), and is described as follows:
- a. Services will be provided for a consecutive 12-month construction period.
 - b. Services assume a maximum 50-hour work week, Monday through Friday.
 - c. TRC's on-site inspector will not be a registered professional engineer, but he will have daily communication with the registered senior design engineer responsible for the project.

811. Tank Inspections

TRC will utilize a sub-consultant (STW Consultants LLC) to provide construction inspections for the proposed elevated tank. Construction inspections will be as outlined in AMPP & AWWA Manual of Water Supply Practice M42. Additionally, the construction inspections will consist of pre-construction with the foundation crew, concrete pedestal crew, welders, and painters. Overview of the delivery of materials, fabrication and installation, containment, interior and exterior, per-surface cleaning, interior and exterior blasting, removal of visible and invisible contaminants, interior and exterior prime coatings, intermediate coatings, final coatings, jobsite clean-up, consultations, and meetings. Providing a summary of findings, including items of correction and photographs. A maximum of sixty-eight (68) site visits/inspections is included in the below costs, as follows:

Foundation:	Seven (7) visits
Concrete Pedestal:	Eleven (11) visits
Concrete Dome:	Two (2) visits
Tank Erection/Welding (Ground):	Sixteen (16) visits
Tank Coating (Ground):	Nine (9) visits
Tank Jacking / Roof Welding:	Seven (7) visits
Final Coating:	Twelve (12) visits
Electrical/Valves, etc.:	Four (4) visits

812. Review drawings and other data submitted by the Contractor as required by the construction contract documents. Engineers review shall be for general conformity with the construction contract documents and shall not relieve the Contractor of any of his contractual responsibilities. Such reviews shall not extend to means, methods, techniques, sequences, or procedures of construction, or to safety precautions and programs incident thereto.
813. Interpret construction contract documents when requested by the City or the Contractor.
814. Review the Contractor's monthly payment requests. Review shall be for the purpose of making a full independent mathematical check of the Contractor's payment request. Verify

the quantities of work which are the basis of payment requests. Provide certification of the payment request to the City.

815. Provide documentation and administer the processing of change orders, including applications for extension of construction time. Evaluate the cost and scheduling aspects of all changes.
816. Interpret claims of the City and the Contractor relating to the acceptability of the work or the requirements of the construction contract documents.
817. Analyze data from performance testing of equipment by the Contractor or supplier when the construction contract documents require the equipment to be tested after installation. Submit conclusions to the City.
818. Receive and review guarantees, bonds and certificates of inspection, which are to be assembled by the Contractor and transmit them to the City.
819. Review and approve equipment O&M manuals and require Contractor to deliver the approved manuals to the City in 3-ring binder sets.
820. Upon substantial completion, in conjunction with the City, prepare a punch list of those items to be completed or corrected before final completion of the project. Submit results of the observation to the City and the Contractor.
821. Upon completion of the items of work on the punch list, conduct a final observation with the City and Contractor to determine if the work is completed. Provide to the City written recommendations concerning final payment, including a list of items, if any, to be completed prior to making such payment.
822. Upon completion of the project, revise the construction contract drawings to conform to the construction records. Record drawings will be based on the information furnished by the contractor, reflecting changes in the project made during construction. TRC will not provide field verification of the record drawings. Submit four (4) copies of the prints and an electronic version (CD format) to the City.
823. Prior to acceptance of the project, obtain all lien releases, warranty's, and any additional requirements per the contract specifications prior to acceptance.
824. Prepare acceptance letter along with established date for retention release.
825. Submit notice of completed project to TCEQ.

ASSUMPTIONS

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



1. TRC is not responsible for the time required by regulatory authorities or other parties for the approval process of permits, review of engineering documents, etc. TRC cannot guarantee the issuance of any permits or approvals and costs to file appeals or respond to permit challenges are not included.
2. TRC's standard construction contract documents, specifications and drawings will be used for the project. The specifications format will be CSI.
3. The City will acquire and provide to TRC access agreements for unfettered access to all private properties by TRC representatives.
4. Subconsultants for the use of project design will be selected by TRC.
5. There will be one design/construction project.
6. TRC's effort and costs for construction services are based on an eighteen (18) month construction project duration. If the construction period exceeds these time limits, TRC will provide an additional task order based on then-existing time-and-materials rates.
7. Drawings will be prepared utilizing AutoCad drawing software (two dimensional drawings only).
8. TRC is responsible for the health and safety of its employees; overall site health and safety is the responsibility of the contractor or other third parties.
9. There are no anticipated owner-supplied materials or equipment for this project or preparation of separate bid packages for such.
10. The general contractor will provide the project commissioning, which will be documented as a requirement in the construction contracts, including but not limited to vendor/manufacture equipment training/O&M, PLC/SCADA troubleshooting, and equipment startup.
11. TRC is not responsible for the permit preparation or related construction activities for the TPDES stormwater permit issued to the City and Contractor, if required, for the site. The Contractor will be responsible to manage, inspect and maintain the permit and required field devices.
12. On-site, full-time Construction inspection will consist of maximum 50-hour weeks.
13. Drainage Study Assumptions
 - TRC will be provided with the HEC-RAS model for Guadalupe River Tributary #4a. If the model must be obtained from FEMA, the timeline may be extended due to potential delays in the FEMA library's response. Typically, it takes three (3) weeks to receive a response, but delays may occur during a government shutdown.
 - Publicly available LiDAR data will be sufficient and usable to supplement information for the elevation certificate.

- Costs associated with LOMR, CLOMR, LOMA, or LOMC are not included in this scope.
- TRC will provide one (1) draft version of the report for the City's review. A single round of revisions will be completed based on City feedback before delivering the final version.

14. Geotechnical Assumptions

- The geotechnical services do not include testing or other type of investigation regarding the possible presence of hazardous or toxic substances either on-site or in imported materials.
- Attendance of meetings or conference calls are not included in this cost estimate.
- Construction administration, observation and testing services, construction engineering support, or review of design or construction drawings or specifications are not included.
- Stormwater infiltration testing, retaining wall design, pavement design, geophysical survey, evaluation related to liquefaction potential, karst, sinkholes, slope stability, or other geohazard mitigation plans are not included in the current scope of work.
- Test boring locations will be accessible to a truck- and track-mounted drilling equipment without the need for clearing or assistance from a dozer. Interruptions caused by others or impacts to the schedule or site accessibility related to the potential adverse weather conditions, if encountered, will result in additional charges to complete the field investigation or in a reduction to the number of test borings completed.
- Traffic control is not required.
- Services of a professional surveyor licensed by the State of Texas to determine the as-drilled boring locations and elevations of the existing ground surface is excluded. Ground surface elevations at the boring locations will be estimated based on existing topographic survey information provided by the City.
- TRC and our drilling subcontractor will not accept responsibility for the disruption or repair of underground utilities at approved drilling locations. We will work with the City to identify possible underground utility locations and offset test borings as necessary to avoid conflicts.
- No matting or other mitigation will be required for preventing damage to existing ground conditions or facilitating drill rig access due to soft soil conditions. No site restoration is planned or included in this proposal, other than backfilling of soil borings.
- The drilling and sampling equipment will not need to be decontaminated.
- A secure place to temporarily store or park drilling equipment is available at the Site.
- Soil samples collected during this exploration will be stored at our testing laboratory for thirty (30) days from the date of this report. At that time, they will be destroyed. If the City desires to have the samples stored for longer than thirty (30) days or delivered to an alternate location, TRC will make those arrangements for an additional fee.

- No delays beyond TRC's control will be encountered in performing the scope of services such as unforeseen travel circumstances, inclement weather, and conditions deemed unsafe by TRC personnel.
- Should the schedule be changed, or project be put on "hold" by the City, all costs incurred by TRC up to the notification of change of schedule or "hold" status will be billed to the City.
- Additional fees that TRC may incur once the project has resumed will also be billed to the City in addition to the quoted fee.
- To define the Seismic Site Class for this project, TRC will interpret the results of the test borings and estimate appropriate soil properties below the base of the test borings to a depth of 100 feet based on publicly available geologic information, anticipated subsurface conditions, and experience.

15. Environmental Assumptions

- TRC assumes funding for the project is from the City of Seguin and there are no state or federal funding sources.
- TRC assumes the Project is not located on and does not cross any federal property.
- TRC will provide one (1) electronic PDF draft version of all report deliverables described in this scope of work for review by DMS and/or client and will provide one (1) round of edits following receipt of review comments to produce final PDF versions of report deliverables.
- No additional environmental services or studies (e.g., ASTM Phase I Environmental Site Assessment; species-specific surveys; biological monitoring; on-site cultural resources surveys; etc.) beyond those specifically outlined in this scope of work will be performed. Should additional environmental services be required or requested, TRC will prepare a separate scope of work and cost estimate for additional services not outlined in this scope of work.
- This scope of work does not include migratory bird nesting surveys. Should the project need to clear vegetation between March 15th and September 15th, migratory nesting bird surveys may be necessary to facilitate compliance with the Migratory Bird Treaty Act. If requested, TRC will prepare a separate scope of work and cost estimate for additional services.
- This scope of work does not include any agency coordination/consultation beyond that which is specifically outlined in this scope of work. If requested, TRC will prepare a separate scope of work and cost estimate for additional services.
- This scope of work assumes that no impacts to potentially jurisdictional WOTUS would occur; therefore, no Section 404 permit would be required. If impacts to jurisdictional WOTUS cannot be avoided, TRC will prepare a separate scope of work and cost estimate to provide efforts for a Section 404 permit application.

- This scope of work does not include tribal coordination. If the Project requires tribal coordination, TRC will prepare a separate scope of work and cost estimate for additional services.
- If the City would like to receive written confirmation from the USACE on the jurisdictional status of waters present within the Project Area, an Approved Jurisdictional Determination from the USACE Fort Worth District would be necessary. This service is not included in this scope of work. If requested, TRC will prepare a separate scope of work and cost estimate for additional services.

EXCLUSIONS

The following items are specifically excluded from TRC's scope of work:

1. Design of offsite utilities extending outside of the two (2) acre tank site, unless otherwise noted above, including but not limited to fiber communication (if applicable), electrical supply to the site and natural gas supply for the generator.
2. Preparation of easement field notes or plats.
3. Design of colored lights for the tank exterior.
4. Construction staking or post-construction survey.
5. For composite tank, design of interior buildout in tank cavity (offices, etc.), if applicable.
6. Structural design of tank or foundation. This will be performed by the tank manufacturer.
7. Performing tank welding/x-ray inspections.
8. SCADA programming. This will be provided by the general contractor.
9. Preparation of specific operation and maintenance (O&M) manuals or process O&M's. The equipment/material O&M's will be provided by the general contractor.
10. Design of sanitary sewer or site drain piping (none is anticipated).
11. Preparation of easements, field notes or survey plats. Detailed title search or title policy, attendance at or preparation for condemnation hearings, landowner contact or easement negotiations.
12. Improvements or relocations for franchise utilities, if applicable.
13. Abatement, demolition, and means and methods of construction contractor or the work of the construction contractor.

14. Environmental or cultural review of project limits (other than listed above), archaeological surveys, endangered species mitigation plan/costs, species-specific threatened and endangered survey, Clean Water Act Section 404 individual permit and NWP 12 Pre-Construction Notification. Environmental assessment of the new booster station site, including but not limited to Phase 1 or 2 assessments or others.
15. Hazardous materials assessment and abatement and demolition management/oversight.
16. Remediation plan for excavated soil or liquid in the event that it is contaminated.
17. GIS mapping.
18. Construction survey and staking, post construction survey, or quality assurance testing for construction.
19. Services for zoning modifications or rezoning of the property, if applicable.
20. Determination of the FEMA flood plain level (including CLOMR, LOMR, etc.) for the sites.
21. Services required to rebid the project for any reason or to resolve bid protests.
22. Storm sewer design outside the two (2) acre site property.
23. PLC logic description and design, arc flash testing, and breaker coordination for electrical equipment/devices.
24. Design of bid alternates or multiple bid packages, unless specifically stated herein.
25. Engineering studies of alternative systems and equipment locations.
26. Value engineering design services after approval of 100% Construction Documents.
27. Any items not reflected in the scope of work/work tasks.
28. During the construction phase - Investigations, analyses, studies or design for substitutions of equipment or materials, corrections of defective or deficient work of the contractor or other deviations from the construction contract documents, providing shop, mill, field, laboratory or factory inspection of materials and equipment, analytical testing or third-party testing for construction QA/QC.
29. Procurement services.
30. Preparing data and reports for assistance to the City in preparation for hearings before regulatory agencies, courts, arbitration panels or mediators, giving testimony or expert representation or preparations, therefore.

31. Making revisions to drawings, specifications or other documents when such revisions are not consistent with approvals or instructions previously given to TRC or due to other causes not within the control of TRC.
32. Contractor payroll certifications, audits or field interviews of contractor employees related to salaries.
33. Payment of fees for permit applications, unless noted above.
34. Operator training or O&M instruction services. This will be provided by the individual equipment vendors and manufacturers as part of the construction project.
35. Drainage report EXCLUSIONS.

The following items are specifically excluded from TRC's scope of work.

- a. LOMC, LOMA, or LOMR are not included in the scope of work.
- b. Mitigation costs are not included in the scope of work.

COMPENSATION FOR SERVICES

The cost to provide the engineering services will be invoiced as a lump sum project on a percent-complete basis, invoiced as follows:

Topographical Surveying for Design:	\$12,350.00
Geotechnical Bores/Report:	\$37,500.00
Environmental/Cultural:	\$11,115.00
Engineering Design:	\$773,066.00
Bidding/Construction Administration:	\$244,565.00
Tank Construction Inspections ⁽¹⁾ :	\$56,879.00
Continuous Inspections for Groundwork ⁽²⁾ :	\$477,412.00
Existing Buried Utility Locations (SUE):	\$24,316.00
Contingency Allowance ⁽³⁾ :	\$75,000.00
Total:	\$1,712,203.00 (lump sum)

⁽¹⁾ This cost is based on periodic inspections (maximum of 68) as detailed in task 811 above. This cost will not be exceeded without prior written approval from the City. The inspection services will be provided by STW Consultants, LLC.

⁽²⁾ This cost is based on 12 months of continuous construction inspection.

⁽³⁾ These funds represent a contingency allowance for additional services that may be required but are unforeseen at this time and would only be used upon TRC's receipt of written direction to proceed from the Director of Water/Wastewater.

Ms. Terri Lynn Ruckstuhl, P.E.
City of Seguin
January 14, 2026
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Services will be provided in accordance with the Master Service Agreement (dated September 30, 2024) executed by the City and TRC. Fees for services quoted in this proposal are valid for a period of time not to exceed 60 days from the date of this letter.

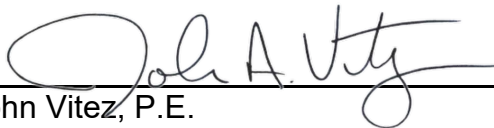
This proposal expressly excludes any and all taxes, tariffs, duties, and other similar charges or fees imposed by any governmental authority (collectively, "Taxes and Tariffs"). The prices and fees quoted in TRC's proposal do not include any such Taxes and Tariffs. The Client shall be solely responsible for the payment of all applicable Taxes and Tariffs arising from or related to the work contemplated by this proposal. If TRC or its subcontractors are required to pay Taxes and Tariffs on behalf of the Client, the Client shall promptly reimburse TRC for the full invoiced amount thereof.

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.

Sincerely,



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



John Vitez, P.E.
Vice President

City of Seguin

Date