

May 20, 2022

City of Temple
Deborah Mason, P.E.
3210 E. Ave. H, Bldg. A
Temple, TX 76501



**Professional Services Proposal for the 2022 City of Temple Leon River Trunk Sewer – Phase 2
Revised Proposal**

Dear Ms. Mason,

We would like to thank the City of Temple for the opportunity to submit a preliminary opinion of probable cost and engineering fee proposal for the 2022 City of Temple Leon River Trunk Sewer – Phase 2. (Please refer to attached maps and documents for further information).

This project shall consist of approximately 8,550 linear feet of new 30” PVC Wastewater Gravity Lines to be designed to extend between the City of Temple Water Treatment Plant and the existing Poison Oak Lift Station. In addition, 5,400 linear feet of new 18” Force Main and a New Lift Station are to be constructed. The new force main is planned for construction between the Leon River Lift Station and the Temple Belton Wastewater Treatment Plant and will include a direction bore beneath the Leon River. As part of this project the Poison Oak Lift Station will be taken off-line, salvaged, and demolished.

Clark Associates, PLLC will complete design topography surveys, new wastewater line designs, construction document preparation, Phase I ESA services, Environmental Waters of the US Determination, Cultural Resource Services, Geotechnical soil investigation services, right of entry, and project bidding services. In addition, Clark Associates can provide permanent utility and temporary construction easements, as required, and at the City’s request. We estimate that approximately 38 properties may be impacted by the new easements and 33 properties may require right of entry.

To provide these professional design services, Clark Associates, PLLC will utilize the following sub-consultants:

Sub consultant	Service(s) provided
All County Surveying	Topographic Surveys
	Standard ROW Parcel Preparation
	Temporary Construction Easement Preparation
Groundwater & Environmental Services	Preliminary WOTUS Jurisdictional Determination & WOTUS Services
Stateside Right of Way	Right of Entry (ROE) Services
Langerman Foster Engineering	Geotechnical Services
Terracon	ESA Phase I
	Cultural Resource and Archeological Services

The proposed timeline for the PHASE 1 Design Services is 120 calendar days from the authorization of notice to proceed. The proposed timeline for the PHASE 2 Design Services is 265 calendar days from the authorization of notice to proceed and acquisition of property rights of entry.

Clark Associates, PLLC, hereinafter Engineer, proposes to the City of Temple, hereinafter Client, Professional Engineering Services, for the 2022 City of Temple Leon River Trunk Sewer – Phase 2, for a Lump Sum Amount not to exceed \$861,070.00. We estimate the total cost of the construction to be \$7,449,986.50. (Please refer to attached Maps, Exhibits, and the Preliminary Opinion of Probable Cost for an itemized breakdown and scope of services.)

Please contact us if you require additional information or have further questions regarding this proposal.

Sincerely,

A handwritten signature in black ink, appearing to be 'MLC', written over a faint circular stamp.

Monty L. Clark, P.E., CPESC



EXHIBIT “A”
Professional Services Proposal for 2022 City of Temple
Leon River Trunk Sewer – Phase 2

Scope of Professional Services

PHASE I DESIGN SERVICES:

Preliminary Civil Engineering Design Phase: **\$ 19,200.00**

- Research Existing Utilities

Provide Sanitary Sewer Basin Assessment for the following conditions:

Existing Conditions:

- Map the existing service areas (identified as CCNs in the Master Plan) and collect the current flow data for the Pea Ridge Lift Station. Existing areas will be defined as those CCN areas with some improvements contributing to the current flow data.
- Map the existing service areas and collect the current flow data for the Leon River Lift Station.
- Determine the anticipated flow at the existing Leon River Lift Station when the proposed 30-inch gravity line is installed and the existing Pea Ridge Lift Station is abandoned.
- Add in any new services anticipated with the construction of the Leon River trunk sewer.
- Determine the Leon River Lift Station and force main modifications required to accommodate the Pea Ridge Lift Station abandonment.

Future Conditions:

- Using the values from the Master Plan, determine the projected flow at the Leon River Lift Station upon ultimate development of the existing upstream service area.
- Determine sanitary sewer main line sizing to accommodate 100% developed conditions.
- Determine required Leon River Lift Station and force main modifications to accommodate ultimate development of the existing City of Temple service area.
- Determination as to how best can these Leon River Lift Station and force main modifications be approached with optimum infrastructure utilization.

Ultimate Conditions:

- Determine the ultimate flow at the Leon River Lift Station.
- Determine Leon River Lift Station and force main modifications required to accommodate full development of the ultimate service areas.
- Determine phased Leon River Lift Station and force main modifications to optimize future infrastructure and upgrades.

Flow Monitoring of Existing Trunk Sewer (If required):

60 Day Analysis

\$ 11,500.00

- Provide Management and Supervision
- Flow Meter Investigation (1 Meters)
- Flow Meter Installation (1 Meters) to determine existing flows
 - Meter to be provided directly upstream of the Poison Oak Lift Station
- Provide Reporting

Additional Services 30 Day Extension (Flow Meters) \$185.00 meter per day

PHASE 2 DESIGN SERVICES:

Surveying Services:

\$ 84,600.00

- Provide Project Elevation Benchmark
- Locate Existing Rights of Ways and Property Boundaries
- Prepare Design Topography Surveys

Civil Engineering Design Phase:

\$ 592,490.00

- Research Existing Utilities
- Prepare 30% Design Alignments for City Staff Review
- Prepare 60% Design Construction Documents
- Prepare 100% Final Design Construction Documents
- Prepare Technical Details and Specifications
- Provide Engineers Sealed Opinion of Construction Cost and Probable Days to Complete Project Construction
- Attend and Facilitate Project Coordination with the City Staff
- Attendance at Property Owner/Neighborhood Meetings (If required)
- Provide Miscellaneous Maps and Exhibit Drawings (If required)

Project Bidding Phase:

\$ 3,500.00

- Prepare and Distribute Copies of Plans, Bid Schedule, and Specifications to the City of Temple Purchasing Department
- Prepare and Distribute Digital Copies of Plans, Bid Schedule, and Specifications to the City of Temple Purchasing Department
- Attend and Facilitate a Pre-Bid Meeting
- Respond to Contractors Request For Information
- Prepare and Issue Necessary Addenda
- Attendance at Bid Opening
- Review Contractor Bids for conformance to Engineers Plans
- Provide Bid Tabulation and Sealed Letter of Recommendation to Award Project
- Provide Engineers Sealed Opinion of Probable Cost and Number of Days to Construct
- Attendance at City of Temple Council Meeting for Construction Project Award

Atmos Design and Field Coordination:

\$ 3,500.00

- Provide Onsite Representation during third party contractor excavations (potholing)
- Survey GPS Location Services to determine Horizontal Coordinates
- Coordinate with Contractor to Determine Vertical Elevations of existing Gas Mains
- Submission of Plans to Atmos for Coordination and Review
- Provide Contractor Coordination and Scheduling with Landowners
- Provide Coordination and Potholing Scheduling with Atmos Representatives
- Provide Construction Plans to Atmos and Facilitate Atmos Comments
- Provide Coordination with City Staff
- Assist the City of Temple Staff with Bidding the Potholing Excavations

Geotechnical Services:

\$ 15,800.00

- Provide Engineering Analysis and Report to include:
 - Boring location plan
 - Boring logs with subsurface stratification
 - 5 Bores at 25' depth
 - Subsurface exploration procedures
 - Encountered subsurface conditions
 - Summarized laboratory data
 - Groundwater levels observed during and at completion of drilling

Standard Easement Parcel Preparation with Temporary Construction Easement

\$ 2,200.00 (each)

(We estimate 38 easements will be required if new sanitary sewer mains are to be constructed outside of existing Rights of Way and on Private Properties)

Right of Entry Services:

\$ 21,780.00

- Coordinate and Obtain Right of Entries to obtain permissions to enter private properties and acquire topographic survey (We estimate a Maximum 33 Properties @ \$660.00 each)

Base Phase I ESA Services: **\$ 6,500.00**

- The ESA will be performed consistent with the procedures included in ASTM E1527-13 Standard Practice for Site Assessments: Phase I Environmental Process.
 - REC Definition
 - Physical Setting
 - Historical Use Information
 - Regulatory Records Review
 - Site and Adjoining/Surrounding Property Reconnaissance
 - Report Preparation (PDF Format)
 - ring location plan (16 borings at 5' depth)

Cultural Resource Services: **\$ 4,500.00**

Environmental Waters of the US Services:

Task 1: Jurisdictional Waters Determination: **\$ 3,500.00**

- Perform a site visit and conduct a field evaluation of the sewer line ROW to determine if any portion of the site is potentially subject to Corps of Engineers jurisdiction under Section 404 of the Clean Water Act.
- The site assessment will include an evaluation of vegetation, soils, and hydrology, in a manner consistent with Corps of Engineers guidance, to determine if the site includes “jurisdictional” wetlands or other “waters of the U.S.” A letter report will be submitted to CLIENT to provide conclusions of the field evaluation.

Task 2. Jurisdictional Waters Delineation **\$ 5,500.00**

- Perform a delineation of jurisdictional waters (“wetlands delineation”) at crossings of waters of the United States that could require a PCN and prepare a Delineation of Waters of the United States Report.
- The delineation will be performed in accordance with USACE protocols.
- Pin flags will be set at the boundary of jurisdictional waters (e.g., streams and wetlands).
- Prepare report to include the following:
 - Review of Available Site Information, which will include discussions on land use, topography and hydrology, soils, and other relevant information.
 - Field Methodology.
 - Results, which will include tabulated field observations, a map of identified jurisdictional wetlands and other “waters of the United States”, and discussion of the results.
 - Conclusion.
 - Completed USACE field forms.
 - Site Photos.

Task 3. USACE Permitting Support **\$ 5,100.00**

- Prepare a Preconstruction Notification (PCN) for the project pursuant to Nationwide Permit (NWP) 58. To the extent possible, ENGINEER will rely on the client or its agents to provide development plans needed for the permit application. ENGINEER will coordinate as necessary with USACE throughout project review and authorization.
- The contents of the PCN typically contain the following elements:
 - USACE NWP 58 PCN Form.
 - Attachment A – Delineation of Waters of the United States.
 - Attachment B – Color Photographs.
 - Attachment C – Summary Table of Single and Complete Crossings.
 - Attachment D – Required Drawings/Figures.
 - Attachment E – Threatened and Endangered Species Reports and/or Letters.
 - Attachment F – Historic Properties and Cultural Resources Reports and/or Letters.
 - Attachment G – Conceptual Mitigation Plan.

It is possible that the USACE will require mitigation (compensation) for permanent impacts to waters of the United States. This can be accomplished through the purchase of credits from an approved Mitigation Bank or through on-site mitigation.

If mitigation is required, mitigation bank credits will be purchased separately by the client from an approved mitigation bank.

Key Assumptions:

- Site access will not be restricted.
- The Scope does not include surveying, as surveying of the boundaries of jurisdictional waters is generally not required in the Fort Worth District of USACE for permitting purposes.
- Pin flags will be set at jurisdictional boundaries to facilitate surveying by the client in case a need for surveying or verification of the delineation arises.
- ENGINEER cannot guarantee authorization of the proposed activity by the USACE.
- USACE permit authorization shall not be a basis for payment.
- The City of Temple will assist Engineer with identifying current growth trends for “future conditions” mapping and flow estimates.



PROFESSIONAL FEE SCHEDULE

Licensed Professional Engineer (PE)	\$ 185.00/hr.
Licensed Professional Structural Engineer (PE)	\$ 210.00/hr.
Licensed Professional Architect	\$ 175.00/hr.
Engineer in Training (EIT)	\$ 115.00/hr.
Design Technician	\$ 90.00/hr.
CADD Technician	\$ 80.00/hr.
CADD Draftsman	\$ 65.00/hr.
Clerical	\$ 55.00/hr.
Licensed Professional Land Surveyor (RPLS)	\$ 275.00/hr.
Field Crew & Total Station	\$ 175.00/hr.
Field Crew & GPS	\$ 250.00/hr.
Survey Technician	\$ 125.00/hr.
Survey Research and Schematic Production	\$ 90.00/hr.
Daily On-Site Inspection Services	\$ 55.00/hr.
Landscaping Designer	\$ 85.00/hr.
Expenses	Additional Cost Plus 10%