

February 17, 2022

Adam Cwiklin, CWP
Water and Wastewater Superintendent
Town of Fraser
153 Fraser Avenue, PO Box 370
Fraser CO, 80442
Via email: acwiklin@town.fraser.co.us

RE: Proposal for a Sewer Upgrade Design, Fraser Colorado

Dear Adam:

Merrick & Company (Merrick) is pleased to present this proposal to complete the design of an upgrade to an existing sewer line that extends from manhole B010 on the east side of US Highway 40, beneath the highway and Union Pacific Railroad (UP) to manhole WO-12 on the west side of the UP right-of-way (ROW). The existing 8-inch sewer line is undersized to meet future demands and will be replaced with 10-inch and 12-inch lines.

Because the existing sewer line crosses beneath active railroad tracks and Highway 40, bypass pumping to replace the line in the same alignment would be impractical. Consequently, the new line will be designed in parallel with the existing line to keep the existing line in service through construction.

In December 2021, Merrick completed a single sheet conceptual plan-and-profile of the new sewer line which the Town utilized to initiate a permit request with UP for a new crossing under their ROW. This plan-and-profile will be a starting point to complete the design of the new sewer line, and the final design will be used to update the UP permit request, and to start a new request with the Colorado Department of Transportation (CDOT) for the crossing under Highway 40.

Scope of Services

Work would begin upon authorization from the Town. We will schedule a kickoff meeting with the Town (virtual or conference call) to confirm the project scope and key tasks and ensure everyone has the same understanding of the project and its deliverables. We will confer with the Town regarding any additional information that may be available since the conceptual design was completed including updated surveys and right-of-way filings.

Employee Owned



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Final Design Phase

Final design will include preparation of construction plans and specifications that conform to Town of Fraser and industry standards and includes preparation of contract documents necessary for competitive bidding.

Specific tasks include:

1. Geotechnical services: we propose to subcontract geotechnical services including mobilizing a drill rig with large rock capabilities for two borings, observing two test pits, collecting soil samples for laboratory testing, and preparation of a separate report of soil and groundwater conditions pertaining to horizontal borings.
2. Prepare all necessary design calculations, designs, final drawings, and specifications as are reasonably needed to advertise and obtain competitive construction bids.
3. Complete site visits and field observations as needed for design.
4. Provide coordination for obtaining utility locates.
5. Submit progress drawings at approximate 60% and 95% design level.
6. Prepare and furnish copies of drawings, details, specifications, and other contract documents for final review by the Town.
7. Assist the Town in completing permits for the new sewer line construction under UP and Highway 40 ROWs, including any necessary construction easements. We will meet with the Colorado Department of Transportation to discuss the potential for less expensive open cut construction in the Highway 40 ROW.
8. Prepare basic documents related to construction contracts for review and approval by the Town. These may include contract agreement forms, instructions to bidders, general conditions and project special provisions, and advertisement for bids.
9. Prepare a final Engineer's opinion of construction costs.
10. Assist in advertising and securing bids, tabulation and analysis of bid results.
11. Furnish recommendations on the award of construction contracts.

Construction Phase

This work will include engineering related services as required to assist the Town to ensure the project is constructed in conformance with the approved plans and specifications, and Town criteria. We understand the Town may provide daily inspection and overall on-site construction management. Merrick will provide assistance for only those services so directed by the Town. In an effort to provide continuity we would propose that our construction manager, Eric Vaughan, manage our internal resources to meet the Town's inspection needs and schedules. Services could be provided in conformance with our existing Construction Management and Inspection Services contract. Specific tasks include:

1. Conduct an on-site preconstruction meeting with the Contractor.
2. Complete site visits to observe construction progress and quality. We have assumed a visit every other week for 12 weeks, plus two additional visits for a pre-construction meeting and



final inspection, for a total of 8 visits. As much as possible, site visits will be coordinated with other inspection services by Eric Vaughan to reduce travel and be cost effective.

3. Check construction and shop drawings submitted by the Contractor for compliance with design concepts.
4. Review and respond to requests for information (RFIs).
5. Review and make recommendations on Contractor pay applications.
6. Support the Town in contract closeout by inspecting the project to recommend for or against meeting substantial completion, preparing a punch list, and inspecting the project to recommend for or against meeting final completion.

Assumptions

We have assumed that the information to be collected is available from existing sources and does not require research to create new data.

1. Surveying is not included in this scope as we understand that the Town prefers to directly contract these services. Merrick will provide coordination for these services and has requested a proposal on the Town's behalf from Core Consultants to survey the site vicinity, and to survey utility locations and depths. Core will subcontract potholing services as needed to confirm utility depths.
2. Merrick will coordinate with the Town for utility locates.
3. The Town will supply an excavator and operator to dig test pits.
4. The Town will work with adjacent property owners regarding the possible need for easement acquisition.
5. Costs for permits and easements are not included in our fee.
6. Our fee includes \$11,530 in subcontracted geotechnical services detailed in the attached proposal from CTL Thompson. The proposal from CTL Thompson included \$1,320 in costs for an excavator which will not be necessary because the Town will supply the excavator.



Schedule

We are prepared to start immediately upon your authorization and anticipate that the schedule for design completion will be as follows, based on a notice to proceed received on March 7, 2022 after the March 2, 2022 Town of Fraser Board of Trustees meeting.

Description	Anticipated Date
Kick Off Meeting	Week of March 21, 2022
Meet with CDOT	Week of April 4, 2022
Coordinate Geotechnical Investigations and Surveys. Coordinate Utility Locates. Meet with the Town in Person.	Week of May 2, 2022
Submit 30% Progress Drawings for Town Review	Week of May 16, 2022
Completion of Geotechnical Report and Survey Results	Week of May 23, 2022
Submit 60% Progress Drawings, Details, and Specifications for Town Review. Initiate CDOT Permit.	Week of June 20, 2022
Submit 95% Progress Drawings, Details, Specifications and Contract Documents for Town Review	Week of July 25, 2022
Submit Final Drawings, Details, Specifications, Contract Documents, Instructions to Bidders and Advertisement for Bids. Assist Town with Advertising for Bids	Week of August 22, 2022

We will also assist with bid tabulation, bid analysis and recommendations for award based on the Town's advertisement and bid schedule.

Fee

The Engineering services required, as described above, will be furnished on an hourly rate plus actual expense basis using the current Schedule of Hourly Rates.

- Geotechnical Services: \$11,530
- Engineering: \$38,000
- Construction Administration: \$19,787
- Total: \$69,317



Please contact me if you have any questions or concerns regarding these proposed services.

Sincerely,
Merrick and Company



Randy Kenyon, P.E.
Senior Project Manager

The above proposal is accepted by the Town of Fraser, and the Engineer is authorized to proceed with the work.

By: _____ Date: _____

