



City Council Workshop Agenda

Tuesday, January 02, 2024, 4:30 PM
Council Chambers, 616 NE 4th AVE

NOTE: The City welcomes public meeting citizen participation. TTY Relay Service: 711. In compliance with the ADA, if you need special assistance to participate in a meeting, contact the City Clerk's office at (360) 834-6864, 72 hours prior to the meeting so reasonable accommodations can be made (28 CFR 35.102-35.104 ADA Title 1)

To observe the meeting (no public comment ability)

- go to www.cityofcamas.us/meetings and click "Watch Livestream" (left on page)

To participate in the meeting (able to public comment)

- go to <https://us06web.zoom.us/j/89000806597>

(public comments may be submitted to publiccomments@cityofcamas.us)

CALL TO ORDER

ROLL CALL

PUBLIC COMMENTS

WORKSHOP TOPICS

1. [Professional Services Agreement for Sewer STEP Main Assessment](#)
[Presenter: Rob Charles, Utilities Manager](#)
[Time Estimate: 5 minutes](#)
2. [Professional Services Agreement for Angelo Booster Station Generator](#)
[Presenter: Rob Charles, Utilities Manager](#)
[Time Estimate: 5 minutes](#)
3. [Professional Services Agreement for Lacamas Meadows Force Main Replacement](#)
[Presenter: Rob Charles, Utilities Manager](#)
[Time Estimate: 5 minutes](#)
4. [Well 6-14 Transmission Main Professional Services Agreement Amendment](#)
[Presenter: Rob Charles, Utilities Manager](#)
[Time Estimate: 5 minutes](#)
5. Staff Miscellaneous Updates
Presenter: Doug Quinn, City Administrator
Time Estimate: 10 minutes

COUNCIL COMMENTS AND REPORTS

PUBLIC COMMENTS

CLOSE OF MEETING



Staff Report

January 2, 2024 Council Workshop Meeting

Professional Services Agreement for STEP Main Assessment

Presenter: Rob Charles, Utilities Manager

Time Estimate: 5 minutes

Phone	Email
360.817.7003	rcharles@cityofcamas.us

BACKGROUND: The City has a large sewer force main (FM) in Lake Road which serves a majority of the STEP systems on the west side of the City and the south side of Lacamas Lake. Wafertech has been discharging to this line since they went into operation in the early 1990's. Wafertech has been experiencing hard scaling issues from chemical processes on their internal sewer lines which have reduced the capacity of their piping. The City expects that this scaling has also entered the City's FM. Since this is such an important FM and there is no way to bypass or redirect the flows in it, it is critical that the City maintain capacity within the FM for future sewer capacity.

SUMMARY: Gray and Osborne, Inc. has been working with the City on determining the amount of scaling in the City's FM and has proposed to create construction drawings to expose three different locations along the FM such that a piece of equipment can be placed on the pipe to measure any scale buildup. This is proposed along three different locations of the FM. If scale buildup is found, a plan to remove the scale buildup along the FM will be generated. Staff will likely be bringing back both a contract for a contractor to expose the FM and a company which will measure the scale buildup with specialized equipment at future dates. Removing any scale buildup by either chemical or mechanical means along the FM may also be brought back to Council by a separate contract.

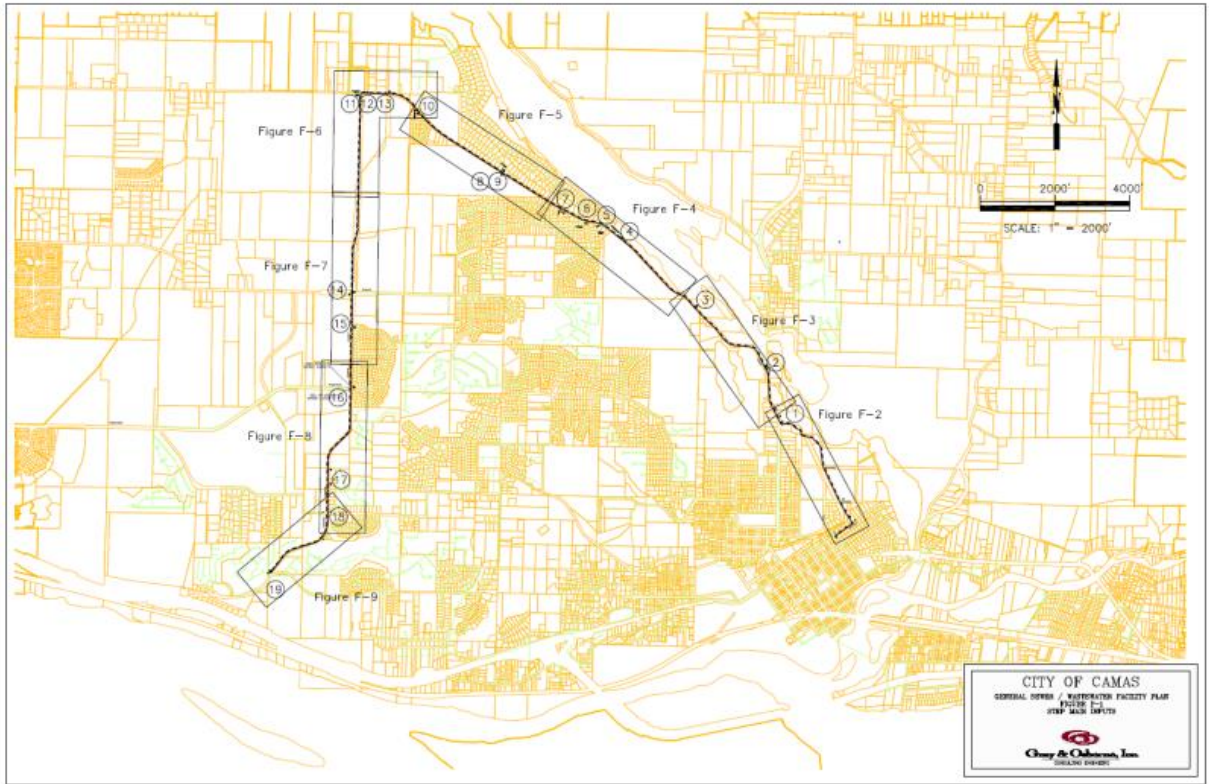


Figure 1: Lake Road FM



Figure 2: Proposed FM access points

BENEFITS TO THE COMMUNITY: As the City continues to experience growth, it is important that capacity of this FM is maintained to allow for increased sewer flows as development occurs. Staff will also be working closely with Wafertech to minimize scale impacts from their operation moving forward.

POTENTIAL CHALLENGES: Since the FM is located on Lake Road, there will be traffic issues related with exposing sections of pipe. Cleaning any scale buildup on the inside of the pipe may also be challenging.

BUDGET IMPACT: The cost for the plans and specifications of the design portion of the project is \$27,520. There are sufficient funds within the Sewer Utility to complete this work.

RECOMMENDATION: Staff recommends that this item be placed on the January 16, 2024 Council Regular Meeting Consent agenda for Council's consideration.

EXHIBIT A
SCOPE OF WORK
CITY OF CAMAS
STEP MAIN INSPECTION – DESIGN SERVICES

PROJECT UNDERSTANDING

The Septic Tank Effluent Pump (STEP) line that serves Wafertech, LLC (Wafertech), is experiencing plugging issues due to a buildup of scale. Wafertech primarily discharges industrial wastewater generated from silicon chip manufacturing. The scale is cement-like, and based on the analyses conducted, appears to be predominantly calcium phosphate, calcium silicate, and silica. There is concern that the City's STEP Main into which Wafertech discharges, is also scaled. The Camas STEP Main carries domestic, commercial, and industrial flows from west Camas to the north along Parker Road, then to the southeast along Lake Road south of Lacamas Lake, and then to the south along Everett Road, eventually carrying flow to the wastewater treatment plant (WWTP). The pipe is mostly made of PVC and varies in diameter from 8 inches to 24 inches.

There are challenges assessing the degree of scaling in buried pipe. If severely scaled, it may not be possible to complete the assessment from the interior of the pipe, due to the inability of devices to transit through the pipe. The recommended technology for assessment of the potentially (severely) scaled pipe is pipe penetrating radar (PPR), which can be used to assess the degree of scaling from the exterior of the pipe following excavation. The City has received a proposal from SewerVue Technology (SewerVue), a leading pipe inspection firm, for conducting PPR inspection of the City's STEP lines. Because each scale and pipe is unique (impacting the radar measurements), SewerVue has proposed that the inspection be completed at three locations expected to range from unscaled to highly-scaled, to verify that the technology provides the information desired. Based on consultation with the City, the following locations have been selected.

1. Wafertech's discharge line, near the point of connection to the City's STEP Main, likely severely scaled.
2. A location in the City's STEP Main upstream of Wafertech's discharge coming from Parker Road, a line unlikely to be scaled.
3. A location in the City's STEP Main downstream of Wafertech's connection point, along Lake Road, expected to be moderately scaled.

The locations anticipated for these excavations are shown in the attached figure.

This Scope includes the design of excavation and restoration and traffic control for a Contractor to support this inspection effort. Only Location 3 is expected to require significant restoration and traffic control, as the other two locations are off the road and unpaved.

In addition to these Design Tasks, this Scope includes pre-inspection planning and coordination with SewerVue and the City. It is assumed that SewerVue's effort is contracted directly to the City. Onsite assistance during the excavations and inspections is not included and would be addressed in a separate Scope or Amendment.

It is assumed that the work will be completed by a Contractor selected from the City's small works roster in a competitive bid.

The Scope is provided as follows. Exhibit B (attached), shows the not-to-exceed estimated cost for the effort.

DESIGN

Task 1 – Project Management and Oversight

Provide overall project management and oversight of the project work by the Project Manager and Principal-in-Charge. Services include the following:

- A. Procure sufficient staff resources to dedicate to the project.
- B. Manage and control project budget and schedule.
- C. Manage and provide monthly Progress Reports and invoices.

Task 2 – Kickoff Meeting

Conduct a kickoff meeting with the City staff to confirm Scope, identify critical path schedule and Task items, format and schedule for Deliverables, major project assignments, Stakeholder Contacts, and any special regulatory and funding agency requirements. The discussion will include, but not be limited to, the following topics:

- A. Review City-provided Record Drawings of existing system.
- B. Review and confirm project understanding.
- C. Review and confirm project schedule and Milestones/Deliverables.
- D. Identify project Stakeholders and discuss their needs and impacts on the project.
- E. Document the discussion of the meeting and distribute to all attendees.

Task 3 – Pre-Inspection Planning and Coordination with SewerVUE

- A. Conduct up to three remote meetings with SewerVUE and City staff.
- B. Review and comment on updated Proposal from SewerVUE and Contract with the City.
- C. Prepare a short Technical Memorandum (Letter Report) summarizing SewerVUE's site requirements and how they will be met, access issues, traffic control, schedules for excavation, inspection, restoration, and data evaluation.
- D. Coordinate SewerVUE's schedule with Contractor's.

Deliverable

- 1. Technical Memorandum.

Task 4 – 90 Percent Design

Prepare project Drawings, Specifications, and Cost Estimates for the work, representing a 90 Percent Design effort for City review and comment.

- A. Plans – Prepare Construction Plans in City-approved format to include title sheet, legend, location and vicinity maps, Plan and Profile Sheets, special notes, special details, etc.
- B. Specifications – Prepare project specifications in WSDOT format referencing the *2022 Standard Specifications for Road, Bridges, and Municipal Construction*. Specifications to include City-approved Proposal, Contract, and Bonding Documents, similar to that used in the bid form provided by the City for the 2023-2026 Commercial Sewer Tank Pumping Project.
- C. Quantities and Cost Estimates – Calculate bid quantities and prepare Construction Cost Estimates.
- D. Review Meeting – Meet with City staff as may be required to review project status and solicit concerns/comments.

Task 5 – Final Design

Prepare Final Design Drawings and Specifications for use as Bid Documents suitable for small works roster bidding, award, and construction of the project. Specifications will be prepared in WSDOT format, meeting City requirements, adhering to City codes and State guidelines where, and when applicable. Plans shall be prepared in City-approved format to include Plan and Profile Sheets and special details. Services will include the following.

- A. Final Plans – Prepare Final Bid/Construction Plans in City-approved format to include title sheet, legend, vicinity and location map, Plan and Profile Sheets, special notes, special details, etc.
- B. Specifications (Final) – Prepare Final Specifications in WSDOT format to include Proposal, Contract, Bonding Documents, and Technical Specifications.
- C. Quantities and Cost Estimates – Prepare Final Quantity Takeoff and Construction-Level Construction Cost Estimate.

Task 6 – Quality Assurance/Quality Control

Oversee two in-house, quality assurance/quality control (QA/QC) meetings at Gray & Osborne’s office during the course of the design project. The meetings will include senior project staff, selected design team members, and City staff (as required and/or desired). Meetings are to take place at the following levels.

- Kickoff.
- 90 Percent Design.

Ensure incorporation of relevant recommendations and suggestions into Bid/Construction Documents resulting from QA/QC reviews.

Task 7 – Bid Support

Assist the City during the bid phase. Services include the following.

- A. Support City staff to answer bid inquiries during bid phase.
- B. Support City staff to prepare any Bid Addenda as may be required.

SCHEDULE

The City desires the inspection to occur in July or August of 2024 to minimize school-related traffic impacts. It is anticipated that the project will be bid by April 2024.

BUDGET

The maximum amount payable to the Engineer for completion of work associated with this Scope of Work, including contingencies, salaries, overhead, direct non-salary costs, and net fee, is set forth in the attached Exhibit B. This amount will not be exceeded without prior written authorization of the City.

PROJECT ASSUMPTIONS REGARDING CITY RESPONSIBILITIES

This Scope of Work and the resulting maximum amount payable is based on the following assumptions as required for the development of the project. See also item assumptions noted in the aforementioned Tasks. Changes in these assumptions and responsibilities may cause a change in scope of the services being offered and result in a corresponding adjustment of the Contract price.

1. It is assumed that the work will be completed by a Contractor selected from the City’s small works roster in a competitive bid.
2. It is assumed that SewerVue’s effort is contracted directly to the City.
3. Onsite assistance during the excavations and inspections is not included and would be addressed in a separate Scope or Amendment.

EXHIBIT B**ENGINEERING SERVICES
SCOPE AND ESTIMATED COST*****City of Camas - Step Main Inspection - Design Services***

Tasks	Principal Hours	Project Manager Hours	Project Engineer Hours	AutoCAD/ GIS Technician/ Engineer Intern Hours
1 Project Management and Oversight	4	8		
2 Kickoff Meeting		4	4	
3 Pre-Inspection Planning and Coordination with SewerVUE Technology	4	32	8	
4 90 Percent Design	2	12	16	20
5 Final Design		4	8	6
6 Quality Assurance/Quality Control	4	4	4	
7 Bid Support	2	4	4	2
Hour Estimate:	16	68	44	28
Fully Burdened Billing Rate Range:*	\$150 to \$245	\$140 to \$245	\$125 to \$185	\$65 to \$175
Estimated Fully Burdened Billing Rate:*	\$235	\$210	\$145	\$100
Fully Burdened Labor Cost:	\$3,760	\$14,280	\$6,380	\$2,800

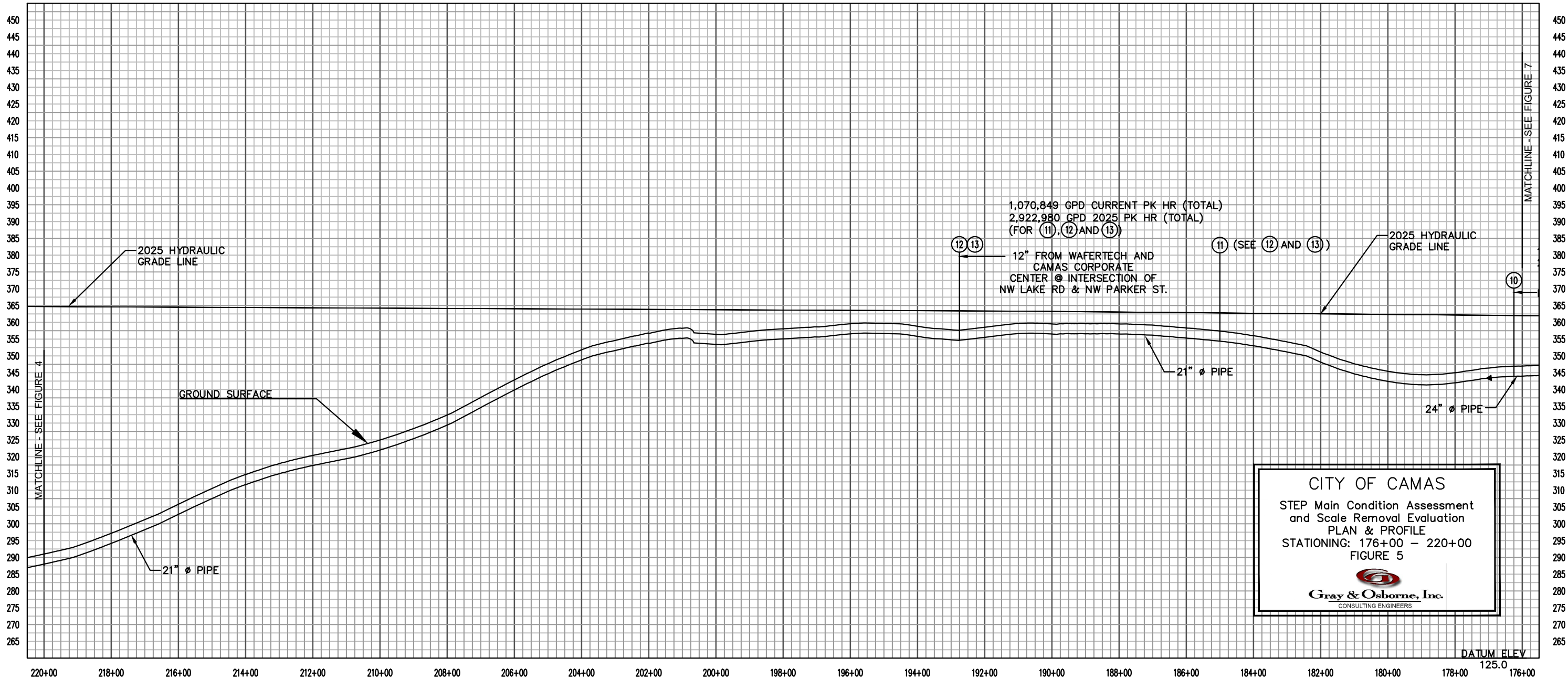
Total Fully Burdened Labor Cost: \$ 27,220

Direct Non-Salary Cost:

Mileage & Expenses (Mileage @ current IRS rate) \$ 300

TOTAL ESTIMATED COST: \$ 27,520

* Actual labor cost will be based on each employee's actual rate. Estimated rates are for determining total estimated cost only. Fully burdened billing rates include direct salary cost, overhead, and profit.





Staff Report

January 2, 2024 Council Workshop Meeting

Professional Services Agreement for Angelo Booster Station Generator

Presenter: Rob Charles, Utilities Manager

Time Estimate: 5 minutes

Phone	Email
360.817.7003	rcharles@cityofcamas.us

BACKGROUND: Angelo Water Booster Station at Fallen Leaf Park provides water supply to higher elevation locations in the City. The current generator in the building can only provide power to 3 of the 4 pumps in the building.

The existing generator at Lower Prune Hill (LPH) is scheduled to be replaced when the new reservoir and booster station are constructed at that location starting this year. That generator has the ability to power all 4 pumps at Angelo Booster Station.

SUMMARY: Consor Engineering is proposing to look at options to relocate the existing generator at LPH to the Angelo site. Options would include removing and replacing the existing generator inside the Angelo building with the LPH generator, relocating the LPH generator outside the Angelo building, or purchasing a new generator and installing it either inside or outside the building. If relocation of the existing generator at LPH to Angelo is feasible, relocations costs through a contractor will be brought back to council for approval.



Figure 1: Angelo Booster Station at Fallen Leaf Park



Figure 2: Angelo Booster Station Existing Generator

BENEFITS TO THE COMMUNITY: Sizing the generator to provide power for all 4 pumps will provide reliability of water service to zones which Angelo serves during a power outage.

BUDGET IMPACT: The cost for the analysis of the generator relocation is \$28,247 and there is sufficient budget in the water operations fund to cover this project.

RECOMMENDATION: Staff recommends that this item be placed on the January 16, 2024 Council Regular Meeting Consent Agenda for Council's consideration.

EXHIBIT A

SCOPE OF WORK

ANGELO BOOSTER STATION GENERATOR UPGRADE PROJECT

CITY OF CAMAS

Introduction

The City of Camas (City) Angelo Booster Station located at Fallen Leaf Park is the primary water booster pump station supplying the 455 Zone. It pumps from a 343 Zone 18-inch transmission main to serve the 455 Zone and feeds the suction side of the Lacamas Booster Pump Station. This station has four 75 hp split case double end suction pumps capable of pumping 1,000 gpm each. A selected well is called on with the first pump of the Angelo Booster Station to provide adequate suction side supply. If additional wells are called on to meet demand, a corresponding pump is also called on at the booster station to prevent over pressurization of the 343 Zone.

The existing 380 hp generator at the Angelo Booster Station is not large enough to power all the pumps. Preliminary evaluation by the City of the existing 470 hp generator at the Lower Prune Hill Pump Station that is being replaced with the upcoming pump station replacement project indicates it may be adequately sized to supply the Angelo Booster Station. The City has requested Consor North America, Inc. (Consor, Consultant) complete an evaluation of the feasibility of relocating the Lower Prune Hill generator to replace the existing generator at the Angelo Booster Station.

Project Understanding

The City believes the Lower Prune Hill generator proposed for relocation is large enough to operate all pumps at the Angelo Booster Station under emergency power operation. The City's preference would be to install the relocated generator unit inside the building where the existing generator is located but the cost and feasibility of this option is unknown. The Consor team will review available space and electrical / structural modifications which may be required based on as-built drawings for the following upgrade options:

- 1) Remove the existing generator from the existing Angelo Booster Station building and install the relocated generator unit inside the building.
- 2) Place the relocated generator and enclosure on a new concrete pad located outside the existing Angelo Booster Station building.
- 3) Purchase a new generator and install it in the existing Angelo Booster Station building or on a new concrete pad to replace the existing generator.

Scope of Services

Consultant will perform the following services.

Task 1 - Project Management

Objective

Provide overall leadership and team strategic guidance aligned with City staff objectives. Coordinate, monitor, and control the project resources to meet the technical, communication, and contractual obligations required for developing and implementing the project scope.

Activities

1.1 Project Management and Coordination

Provide comprehensive project management to include the following:

- Manage the project scope, schedule, and budget.
- Coordinate with Owner staff and subconsultants during the project.
- Prepare monthly progress reports to be submitted with invoices. Monthly progress reports will include task level budget status. Billings will include labor classification, hourly rate, and hours charged to the project.

1.2 Project Meetings

Schedule and attend project meetings as follows:

- Project 'kick-off' meeting / site visit.
- Generator Alternatives Evaluation deliverable review meeting.

For each meeting, prepare agenda and summary notes.

1.3 Quality Assurance and Quality Control (QA/QC)

All project deliverables will be reviewed for Quality Assurance and Quality Control by the Consultant's QA/QC review team. In addition, the Consultant's QA/QC review team will provide technical assistance throughout the project design.

Task Deliverables

- Monthly invoice and status report.
- Meeting agendas and summary notes for all meetings attended under this task.

Assumptions

- Kick-off meeting will be held in-person at the project site. Consultant personnel shall be guided by City personnel and provided authorized access.
- Project duration is approximately three (3) months.

Task 2 – Generator Alternatives Evaluation

Objective

Identify, gather, and review project background information necessary to complete the review. Review building codes, generator sizes, and cost impacts of different alternatives to determine the best generator option.

Activities

2.1 Review City-Provided Documents

This activity includes assimilating and reviewing the data and documents relating to the existing Angelo Booster Station. The City shall provide to Consor the following:

- As-built drawings of Angelo Booster Pump Station. Documents shall be in PDF format.
- Manuals and drawings of existing and proposed generators including dimensional drawings, weight, and anchor locations.
- Existing booster pump cut sheets.

The preceding information list may be amended by the Consultant in writing.

2.2 Generator Evaluation Report

Based on information obtained from Task 2.1 and the site visit, Consultant will review the feasibility of the existing Angelo Booster Station generator room to house the new generator with respect to structural, electrical, and building code requirements. If there is a fatal flaw that will not allow the generator to be housed in the existing room without major modifications, the City will be notified immediately and all further work will be focused on either the relocated generator or a new generator mounted on a new concrete pad outside the building.

The evaluation will also include the assessment of the age and serviceability of the existing Lower Prune Hill generator, updated electrical load summary for the Angelo Booster Station, and review of the existing automatic transfer switch. If placing the generator in the existing Angelo Booster Station building is feasible, Consultant will prepare a report that identifies the costs and design requirements for the three options outlined under Project Understanding.

Task Deliverables

- Draft and Final Generator Selection Report will be prepared and provided to the City in PDF.

Assumptions

- City will provide to Consultant the data identified in Task 2.1 within ten (10) working days of initial request.
- City will provide Consultant authorized access to water facilities. City personnel shall guide and accompany Consultant during site visit/field review.

- City to coordinate utility locates at pump station site for the site visit to inform location options for a concrete pad outside mounting option.
- Site visit shall be attended by Consultant Project Manager and Industrial Systems (electrical sub) Project Manager.
- City to confer with Building Department regarding code provisions to be applied to project.
- Generator siting alternative figures will be prepared as Bluebeam PDF markups to the as-built drawings.

Budget

The work will be performed on a time and materials basis with a not to exceed budget of \$28,247 (Attachment A) in accordance with the firm's current standard Schedule of Charges in effect at the time the work is performed (Attachment B).

Project Schedule

The anticipated project schedule is outlined in Table 1.

Table 1 | Project Schedule

TASK / ACTIVITY / MILESTONE	ANTICIPATED COMPLETION
Consultant Notice to Proceed Issued	December 15, 2023
Generator Selection Report	March 15, 2024

ATTACHMENT A

ANGELO BOOSTER STATION GENERATOR UPGRADE PROJECT

CITY OF CAMAS, WASHINGTON

PROPOSED FEE ESTIMATE

Item 2.

	Principal Engineer II	Professional Engineer IX	Cost Estimator III	Professional Engineer VI	Administrative III	Administrative II	Hours	Labor	Subconsultants		Multiplier % Markup	Subconsultant Total with Markup	Expenses	Total
									Structural	E&IC				
	\$261	\$240	\$276	\$206	\$122	\$112								
Average Billing Rate Estimated per Classification/Staff	\$269	\$247	\$284	\$212	\$126	\$115								
Staff Name	GruberJam	SteppBar	GriesingerRob	BargmeyerAle	MaliziaWil	SteinbergMor								
Task 1 - Project Management														
Task 1.1 - Project Management and Coordination		6			4		10	\$ 1,986			1.1	\$ -	\$ -	\$ 1,986
Task 1.2 - Project Meetings	4	6					10	\$ 2,559			1.1	\$ -	\$ 75	\$ 2,634
Task 1.3 - Quality Assurance and Quality Control (QA/QC)	4						4	\$ 1,075			1.1	\$ -	\$ -	\$ 1,075
Task 1 Subtotal	8	12	0	0	4	0	24	\$ 5,620	\$ -	\$ -		\$ -	\$ 75	\$ 5,695
Task 2 - Generator Alternatives Evaluation														
Task 2.1 - Review City-Provided Documents		2		2			4	\$ 919			1.1	\$ -	\$ -	\$ 919
Task 2.2 - Generator Evaluation Report	2	32	4	8		2	48	\$ 11,513	\$ 2,450	\$ 6,750	1.1	\$ 10,120	\$ -	\$ 21,633
Task 2 Subtotal	2	34	4	10	0	2	52	\$ 12,432	\$ 2,450	\$ 6,750		\$ 10,120	\$ -	\$ 22,552
TOTAL - ALL TASKS	10	46	4	10	4	2	76	\$ 18,052	\$ 2,450	\$ 6,750		\$ 10,120	\$ 75	\$ 28,247

2024 SCHEDULE OF CHARGES**Personnel:**

Labor will be invoiced by staff classification at the following hourly rates, which are valid from January 1, 2024 through December 31, 2024. After this period, the rates are subject to adjustment.

<u>Billing Classifications</u>	<u>2024 Rates</u>	<u>Billing Classifications</u>	<u>2024 Rates</u>
Principal Engineer VI	\$353	Construction Manager X	\$298
Principal Engineer V	\$330	Construction Manager IX	\$278
Principal Engineer IV	\$312	Construction Manager VIII	\$263
Principal Engineer III	\$293	Construction Manager VII	\$254
Principal Engineer II	\$277	Construction Manager VI	\$236
Principal Engineer I	\$264	Construction Manager V	\$217
Professional Engineer IX	\$252	Construction Manager IV	\$206
Engineering Designer IX	\$243	Construction Manager III	\$188
Professional Engineer VIII	\$240	Construction Manager II	\$173
Engineering Designer VIII	\$229	Construction Manager I	\$154
Professional Engineer VII	\$227	Quality Control Compliance Specialist	\$181
Engineering Designer VII	\$219	Inspector VII	\$217
Professional Engineer VI	\$216	Inspector VI	\$200
Engineering Designer VI	\$208	Inspector V	\$181
Professional Engineer V	\$204	Inspector IV	\$169
Engineering Designer V	\$195	Inspector III	\$150
Professional Engineer IV	\$192	Inspector II	\$134
Engineering Designer IV	\$192	Inspector I	\$116
Professional Engineer III	\$186	Technician IV	\$185
Engineering Designer III	\$186	Technician III	\$166
Engineering Designer II	\$171	Technician II	\$144
Engineering Designer I	\$158	Technician I	\$122
Principal III	\$357	Project Coordinator IV	\$174
Principal II	\$312	Project Coordinator III	\$162
Principal I	\$275	Project Coordinator II	\$145
Project Manager IV	\$260	Project Coordinator I	\$128
Project Manager III	\$248	Administrative III	\$128
Project Manager II	\$221	Administrative II	\$118
Project Manager I	\$193	Administrative I	\$104
Cost Estimator III	\$290		
Cost Estimator II	\$232		
Cost Estimator I	\$174		

Project Expenses:

Expenses incurred that are directly attributable to the project will be invoiced at actual cost. These expenses include the following:

CADD Hardware/Software	\$18.00/hour
Modeling and GIS Hardware/Software	\$10.00/hour
Mileage	Current IRS Rate
Postage and Delivery Services	At Cost
Printing and Reproduction	At Cost
Travel, Lodging, and Subsistence	At Cost

Outside Services:

Outside technical, professional, and other services will be invoiced at actual cost-plus 10 percent to cover administration and overhead.



Staff Report

January 2, 2024 Council Workshop Meeting

Professional Services Agreement for Lacamas Meadows Force Main Replacement

Presenter: Rob Charles, Utilities Manager

Time Estimate: 5 minutes

Phone	Email
360.817.7003	rcharles@cityofcamas.us

BACKGROUND: The 0.6 mile force main (FM) from Lacamas Meadows Sewer Lift Station to Lake Road has broken 5 times over the last 5 years in several different locations. The city is unable to determine why the breaks keep occurring, but it could be due to the quality of pipe that was installed or the material that was used to bed the pipe.

SUMMARY: The City is proposing to work with Consor Engineering to replace the entire length of pipe from the lift station to Lake Road. The proposal is to create plans so a contractor can bid on the project. The timeline would be to have this line replaced during the summer months to minimize impacts traffic and schools.



Figure 1: Lacamas Meadows FM alignment

BENEFITS TO THE COMMUNITY: Reduced impacts to citizens along the FM route for repairing the line, and reduced costs from having a contractor repair the line. Increased reliability in the line to transport sewage to the FM in Lake Road.

BUDGET IMPACT: The cost for the proposed design work by Consor Engineering is \$127,866 and there are sufficient funds in the sewer operations to cover this expenditure. A contract for construction will be brought back to Council for approval when a low bidder has been selected.

RECOMMENDATION: Staff recommends this item be placed on the January 16, 2024 Council Regular Meeting Consent Agenda for Council's consideration.

EXHIBIT A

SCOPE OF WORK

LACAMAS MEADOWS FORCE MAIN REPLACEMENT

CITY OF CAMAS

Introduction

The City of Camas (City) owns and operates the Lacamas Meadows Sanitary Lift Station located at 3263 NW 45th Avenue. The pump station and associated force main were constructed in 2006 as part of the development of the Lacamas Meadows subdivision. Since completion, the existing 4-inch CL 200 PVC force main has experienced several breaks. As such, the City has requested the assistance of CONSOR North America, Inc. (Consultant) to assist in the design of a replacement force main totaling approximately 3,200 feet in length. The specific scope of work included with this contract is provided below.

Scope of Services

Consultant will perform the following services in relation to the City's proposed Lacamas Meadows Force Main Replacement project.

Task 1 - Project Management

Objective

Provide overall leadership and team strategic guidance aligned with City staff objectives. Coordinate, monitor, and control the project resources to meet the technical, communication, and contractual obligations required for developing and implementing the project scope.

Activities

1.1 Project Management & Administration

Perform general administration and project management throughout the project design phase to provide successful completion of all tasks and elements of the project within the established scope, schedule, and budget.

Develop and maintain an overall project schedule and other resources as needed to meet scheduled milestones.

Proactively track progress of project work completed against schedule and budget.

Inform the City of any anticipated challenges during the project design phase as they may arise and develop solutions together.

1.2 Invoices / Status Reporting

Prepare monthly invoices, including expenditures by task, hours worked by project personnel, and other direct expenses with the associated backup documentation.

Monthly status reports to accompany each invoice, including progress report with description of work completed. Reports will also include milestone updates, cumulative expenditures, budget remaining, and percent complete by task.

Assumptions

- Project design and bid phase duration is anticipated to be six (6) months; therefore, it is assumed that there will be up to six (6) progress payments/status reports.

Deliverables

- Consultant shall deliver to the City a monthly invoice and status report covering:
 - Work on the project performed during the previous month.
 - Meetings attended.
 - Potential impacts to submittal dates, budget shortfalls or optional services.

1.3 Project Design Meetings

Work under this subtask includes coordinating schedules, developing agendas, preparing presentation materials, and summarizing meeting notes for key project meetings. This subtask includes the following meetings:

- Project Kick-off / Site Visit
- Preliminary Design Review Meeting
- 60% Design Review Meeting
- 90% Design Review Meeting

Assumptions

- Design review meetings will include Consultant PM and the Consultant design lead. Meetings will have an approximate duration of two (2) hours each.
- Design review meetings will be held at the City offices.

Deliverables

- Meeting agendas and meeting notes.

1.4 Quality Assurance / Quality Control (QA/QC)

Perform in-house QA/QC reviews of all deliverables prior to submitting to the City.

Task 2 – Data Collection

Objective

Work under this task includes coordinating with the City to acquire background data to support preliminary and final design work, as well as performing a professional survey of the area of interest.

Activities

Consultant will request and analyze background data pertinent to the design of project. Consultant will perform a topographic survey of the project area by a professional land surveyor licensed in the State of

Washington. Consultant will conduct two (2) site visits. One of the site visits will include performing a drawdown test at the existing pump station. The other site visit will be a plan-in-hand walkthrough to confirm locations of existing utilities and assess existing surface conditions.

Assumptions

- City will provide record drawings and pumping records.
- City will install a pressure transducer and data logger in the valve vault at the pump station site and record pressure data for the winter period of 2023/2024. City will provide data to Consultant for evaluation.
- Permission to enter any properties will be obtained by the client.
- No monuments will be set nor will any boundary lines be marked during the professional survey.
- Boundary lines in the survey will be shown by County GIS.
- Horizontal Datum will be based on Washington State Plan South and Vertical Datum will be based on Clark County NGVD 29(47).
- City personnel will accompany Consultant to the pump station site to perform a draw down test. A 4-hour visit is budgeted for this site visit, including travel time.

Deliverables

- There are no specific deliverables associated with this task, as the data will be used to complete subsequent tasks.

Task 3 – Preliminary Design

Objective

Work under this task includes preliminary engineering to confirm project design criteria.

Activities

Consultant will prepare a technical memorandum assessing existing force main replacement options, likely limited to open trench versus pipe bursting. Consultant will review available record drawings, utility mapping, and field data to identify design challenges associated with each construction method, which will be discussed in the memorandum. Also included in the memorandum will be a summary of historical run time data, draw down test results, and pressure logger data. This information will be used to determine if the existing pumps are sufficient to serve the basin and confirm buildout force main sizing. A draft of the technical memorandum will be submitted to the City for review followed by a review meeting between the City and the Consultant to discuss design options. Following the meeting the memorandum will be finalized and will include City decisions and final design criteria.

Assumptions

- No cathodic protection design, geotechnical, environmental, or cultural resource investigations will be required for this project.

Deliverables

- Draft and Final Memorandum in electronic (PDF) file format

Task 4 – Final Design

Objective

Work under this task includes preparation of final contract documents for bidding and construction of the proposed improvements. Consultant will submit plans and special provisions for City review at the 60% and 90% completion levels, incorporating City review comments from each prior submittal.

Construction drawings will be in accordance with City standards, policies, and procedures. Plan and profile drawings will be provided at a horizontal scale of 1-inch = 20 feet horizontal and 1-inch = 5 feet vertical. Special provisions will be based on the 2024 version of the *Standard Specifications for Road, Bridge, and Municipal Construction* published by the Washington State Department of Transportation. An engineer's estimate of probable construction costs will be developed and included at each design submittal stage.

4.1 60% Design

Based on the City's input during preliminary design, Consultant will develop a 60% design submittal that depicts the recommended force main improvements. Design at this stage will establish appropriate project limits, identify connection locations to the existing pressure sewer system, and include draft profiles. Consultant will send the draft 60% construction drawings to utility providers within the project limits to help identify potential conflicts between existing utilities and proposed work.

Assumptions

- If critical crossing depth information is needed, City to complete utility potholes and/or water valve measure downs as required.
- Project schedule assumes up to two (2) weeks of City time for review and comments following design submittal.

Deliverables

- 60% drawings in electronic (PDF) format. (see Preliminary Drawing List for sheets to be included with this submittal)
- 60% special provisions in electronic (PDF) format. (table of contents only)
- 60% cost estimate in electronic (PDF) format.

4.2 90% Design

Under this task, the 60% design will be advanced to 90% completion, incorporating City review comments.

Assumptions

- Consultant to assemble front end documents based on example provided by City.
- Surface restoration to be in accordance with City standards. No pavement design will be required.
- No curb ramp design will be required.

- Specifications shall require contractor to prepare traffic control plans. City to assist with procurement with all necessary permits.
- Project schedule assumes up to two (2) weeks of City time for review and comments following design submittal.

Deliverables

- 90% drawings in electronic (PDF) format
- 90% special provisions in electronic (PDF) format
- 90% cost estimate in electronic (PDF) format

4.3 100% (Final) Design

The final 100% design submittal will be advanced from the 90% submittal, incorporating City review comments.

Assumptions

- Consultant to assemble complete bid package including front end documents, bid proposal, special provisions, and construction drawings for procurement advertisement and bidding.
- Project schedule includes one (1) week for City review if requested.

Deliverables

- 100% signed drawings in electronic (PDF) format
- 100% signed special provisions in electronic (PDF) format
- 100% cost estimate in electronic (PDF) format

Task 5 – Bid Phase Services

Objective

Work under this task includes providing bid phase support to the City.

Activities

Consultant shall provide the following services as requested by the City.

- Respond to bidder questions.
- Prepare addenda as necessary.
- Check references for low bid contractor.

Assumptions

- City will lead the bidding process, including advertisement, plan holders list, posting/distributing bid documents and addenda, and conducting bid opening.
- City will lead the administration of contract award, including preparation of bid tabulation, recommendation of award, and notice of award.

Deliverables

- up to two (2) addenda and supporting drawings in electronic Word and PDF file formats

Budget

Consultant proposes to perform this work on a time and expenses basis with a total not to exceed amount of \$127,866. The proposed fee estimate is provided as Attachment A. Fee estimates are based upon Consultant's 2024 Schedule of Charges which is provided as Attachment B.

Project Schedule

The following is a proposed schedule of services for the project.

- Notice to Proceed – January 2024
- Preliminary Design – February 2024
- Final Design – March to June 2024
- Bidding, Award, and NTP – July to August 2024
- Construction – September to November 2024

Preliminary Drawings List

The following is a list of drawings anticipated to be required for the project.

General		
1	G-1*	Cover Sheet, Vicinity Map, and Index
2	G-2	Key Map
3	G-3*	General Notes and Legend
4	G-4*	Abbreviations
5	G-5	Erosion Control Standard Notes
Bypass Pumping Plans		
6	BP-1	Bypass Pumping Plan I
7	BP-2	Bypass Pumping Plan II
Sewer Plans		
8	SS-1*	Force Main Plan and Profile I
9	SS-2*	Force Main Plan and Profile II
10	SS-3*	Force Main Plan and Profile III
11	SS-4*	Force Main Plan and Profile IV
12	SS-5*	Force Main Plan and Profile V
13	SS-6*	Force Main Plan and Profile VI
14	SS-7*	Force Main Plan and Profile VII
15	SS-8*	Force Main Plan and Profile VIII
Details		
16	D-1	Project Specific Details I
17	D-2	Project Specific Details II
18	D-3	Standard Details I
19	D-4	Standard Details II

* Sheets to be included with 60% submittal.

ATTACHMENT A

LACAMAS MEADOWS FORCE MAIN REPLACEMENT
CITY OF CAMAS
PROPOSED FEE ESTIMATE

Item 3.

Staff Name	Principal Engineer II	Professional Engineer VI	Cost Estimator III	Engineering Designer II	Engineering Designer VI	Technician III	Administrative III	Project Coordinator I	Hours	Labor	Subconsultants	Multiplier % Markup	Subconsultant Total with Markup	Expenses	CADD Units \$18/hr	GIS Units \$10/hr	Total
	\$277 GruberJam	\$216 AbercrombieNat	\$290 GriesingerRob	\$171 PattersonMau	\$208 EstepMat	\$166 McFaddinNic	\$128 MallizaWil	\$128 SteinbergMor									
Task 1 - Project Management																	
Task 1.1 - Project Management & Administration	16								16	\$ 4,432		1.1 \$	\$ -	\$ -	\$ -	\$ -	\$ 4,432
Task 1.2 - Invoices / Status Reporting	6	6					4		16	\$ 3,470		1.1 \$	\$ -	\$ -	\$ -	\$ -	\$ 3,470
Task 1.3 - Project Design Meetings	16	24							40	\$ 9,616		1.1 \$	\$ -	\$ 79	\$ -	\$ -	\$ 9,695
Task 1.4 - Quality Assurance / Quality Control (QA/QC)	8								8	\$ 2,216		1.1 \$	\$ -	\$ -	\$ -	\$ -	\$ 2,216
Task 1 Subtotal	46	30	0	0	0	0	4	0	80	\$ 19,734	\$ -		\$ -	\$ 79	\$ -	\$ -	\$ 19,813
Task 2 - Data Collection																	
Task 2 Subtotal	0	16	0	16	2	24	0	0	58	\$ 10,592	\$ 21,400	1.1 \$	\$ 23,540	\$ 39	\$ 432	\$ -	\$ 34,603
Task 3 - Preliminary Design																	
Task 3 Subtotal	4	32	2	16	0	8	0	2	64	\$ 12,920	\$ -	1.1 \$	\$ -	\$ -	\$ 144	\$ -	\$ 13,064
Task 4 - Final Design																	
Task 4.1 - 50% Design	4	20	1	48		24			97	\$ 17,910		1.1 \$	\$ -	\$ -	\$ 432	\$ -	\$ 18,342
Task 4.2 - 90% Design	8	48	1	60	2	24		4	147	\$ 28,046		1.1 \$	\$ -	\$ -	\$ 432	\$ -	\$ 28,478
Task 4.3 - 100% (Final) Design	2	12		18		8		4	44	\$ 8,064		1.1 \$	\$ -	\$ -	\$ 144	\$ -	\$ 8,208
Task 4 Subtotal	14	80	2	126	2	56	0	8	288	\$ 54,020	\$ -		\$ -	\$ -	\$ 1,008	\$ -	\$ 55,028
Task 5 - Bid Phase Services																	
Task 5 Subtotal	2	16	0	4	0	4	0	0	26	\$ 5,358	\$ -	1.1 \$	\$ -	\$ -	\$ -	\$ -	\$ 5,358
TOTAL - ALL TASKS	66	174	4	162	4	92	4	10	516	\$ 102,624	\$ 21,400		\$ 23,540	\$ 118	\$ 1,584	\$ -	\$ 127,866

2024 SCHEDULE OF CHARGES**Personnel:**

Labor will be invoiced by staff classification at the following hourly rates, which are valid from January 1, 2024 through December 31, 2024. After this period, the rates are subject to adjustment.

<u>Billing Classifications</u>	<u>2024 Rates</u>	<u>Billing Classifications</u>	<u>2024 Rates</u>
Principal Engineer VI	\$353	Construction Manager X	\$298
Principal Engineer V	\$330	Construction Manager IX	\$278
Principal Engineer IV	\$312	Construction Manager VIII	\$263
Principal Engineer III	\$293	Construction Manager VII	\$254
Principal Engineer II	\$277	Construction Manager VI	\$236
Principal Engineer I	\$264	Construction Manager V	\$217
Professional Engineer IX	\$252	Construction Manager IV	\$206
Engineering Designer IX	\$243	Construction Manager III	\$188
Professional Engineer VIII	\$240	Construction Manager II	\$173
Engineering Designer VIII	\$229	Construction Manager I	\$154
Professional Engineer VII	\$227	Quality Control Compliance Specialist	\$181
Engineering Designer VII	\$219	Inspector VII	\$217
Professional Engineer VI	\$216	Inspector VI	\$200
Engineering Designer VI	\$208	Inspector V	\$181
Professional Engineer V	\$204	Inspector IV	\$169
Engineering Designer V	\$195	Inspector III	\$150
Professional Engineer IV	\$192	Inspector II	\$134
Engineering Designer IV	\$192	Inspector I	\$116
Professional Engineer III	\$186	Technician IV	\$185
Engineering Designer III	\$186	Technician III	\$166
Engineering Designer II	\$171	Technician II	\$144
Engineering Designer I	\$158	Technician I	\$122
Principal III	\$357	Project Coordinator IV	\$174
Principal II	\$312	Project Coordinator III	\$162
Principal I	\$275	Project Coordinator II	\$145
Project Manager IV	\$260	Project Coordinator I	\$128
Project Manager III	\$248	Administrative III	\$128
Project Manager II	\$221	Administrative II	\$118
Project Manager I	\$193	Administrative I	\$104
Cost Estimator III	\$290		
Cost Estimator II	\$232		
Cost Estimator I	\$174		

Project Expenses:

Expenses incurred that are directly attributable to the project will be invoiced at actual cost. These expenses include the following:

CADD Hardware/Software	\$18.00/hour
Modeling and GIS Hardware/Software	\$10.00/hour
Mileage	Current IRS Rate
Postage and Delivery Services	At Cost
Printing and Reproduction	At Cost
Travel, Lodging, and Subsistence	At Cost

Outside Services:

Outside technical, professional, and other services will be invoiced at actual cost-plus 10 percent to cover administration and overhead.



Staff Report

January 2, 2024 Council Workshop Meeting

Well 6-14 Transmission Main Professional Services Agreement Amendment

Presenter: Rob Charles, Utilities Manager

Time Estimate: 5 minutes

Phone	Email
360.817.7003	rcharles@cityofcamas.us

BACKGROUND: The City's adopted Water System Plan identifies a water transmission main project connecting Wells 6 and 14 at the lower wellfield that will allow the City to move more water into the City's distribution system. The professional services agreement for the design phase of this project was approved by Council in June 2023. Total design fees for the project total approximately \$225,000 to date. During the design process, it was determined that there are areas within the proposed alignment of the waterline which have the potential for landslide activity due to undocumented and non-engineered fill material which was placed at some time in the past. It was assumed during the design phase contract that the soils on the site were either engineering fill material or of a condition that construction of the water line would not cause any trench failures.

SUMMARY: The proposal amendment for geotechnical services on the project involves the geotechnical consultant coordinating with a contractor to drill bore holes up to 35 feet deep in the subject area and providing recommendations on placement of the waterline through this area. Revised permitting for the City's planning department will be submitted based on the geotechnical findings.

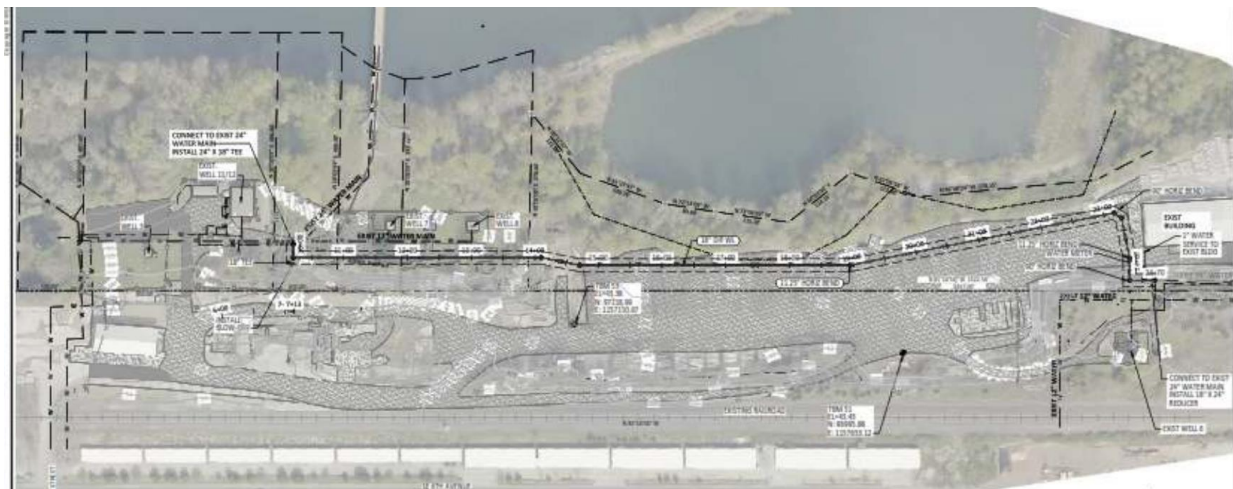


Figure 1: Water line connection between Well 6 and 14 at the City's Lower Wellfield

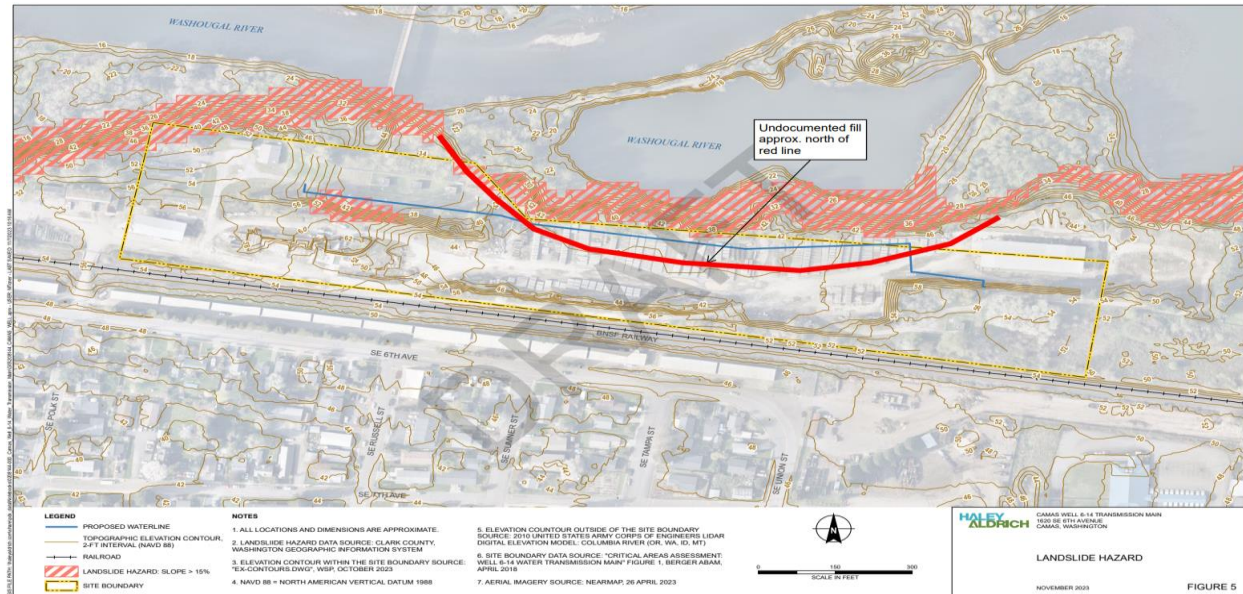


Figure 2: Undocumented fill area within proposed water line alignment

BENEFITS TO THE COMMUNITY: Moving additional water into the distribution system from the lower wellfield will help the city better meet the water consumption needs of its customers.

BUDGET IMPACT: The proposed cost of the geotechnical work is \$73,024.83. There are sufficient funds in the water operating budget to cover this additional expenditure.

RECOMMENDATION: Staff recommends this item be placed on the January 16, 2024, Council Regular Meeting Consent Agenda for Council's consideration.



20 December 2023

Mr. Rob Charles
Utilities Manager
City of Camas
1620 SE Eighth Avenue
Camas, WA 98607

Subject: Well 6/14 Water Transmission Main – Scope Amendment No. 05

Dear Mr. Charles:

Thank you for the opportunity to present this amendment for WSP to provide design and permitting services for the Well 6/14 Water Transmission Main project. This amendment is necessary to further investigate landslide hazards through geotechnical field exploration and testing. Testing will allow the Geotech to determine an estimated slope failure displacement in the event of an earthquake. Design documents will be updated based on findings from geotechnical testing.

PROJECT UNDERSTANDING

The Amendment 3 contract, (dated 7 June 2023) included bid ready design documents under the assumption that geotechnical testing was not required for design. The Draft Geotechnical Hazard Assessment Report indicates landslide hazards are highly likely due to steep slopes consisting of undocumented and un-engineered fill within the project area. The following scope of work assumes information found through geotechnical testing will not trigger a change in the alignment, however specifications and design criteria will need to be updated based on estimated displacement findings from the geotechnical investigation.

Draft SEPA, Shoreline Exemption Letter, Critical Areas Report, 90% plan, specifications, and estimate deliverables were prepared and provided to the City based on the assumption that no geotechnical hazards were present. Additional work under this contract amendment will include updates to the critical areas assessment, the SEPA checklist, shoreline exemption, and the bid set submittal documents based on findings from the geotechnical testing. This scope of work assumes a shoreline permit exemption will be granted. This understanding was confirmed in a virtual meeting with the City on October 20, 2023, with the City's Planning Director, Robert Maul.

Mr. Rob Charles
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OVERALL ASSUMPTIONS

- The proposed waterline alignment is found within a critical geological hazard area. Waterlines are an allowed use, and a permit will not be required.
- The proposed waterline alignment is within shoreline jurisdiction due to the geologic hazard liquefaction mapping. However, an exemption will be requested. Should the exemption be denied, a contract amendment will be required to reroute the waterline outside of shoreline jurisdiction or amend the City's shoreline master program to allow waterlines in the Natural shoreline environment designation.
- Site plan review would not be required based on Camas Municipal Code 18.18.020(A)(3) and (B)(3).
- A landscape, tree, and vegetation plan will not be required.
- All work products will be provided in Microsoft Word or PDF format.

SCOPE OF SERVICES

The following is WSP's proposed scope of work to address the items outlined above.

Task 1. Project Management

This task in our original scope and fee is supplemented to extend the time of performance for the project beyond 2023 as described in Amendment 3. The new time of performance shall extend through August 2024. Project management work during the extended timeline includes additional invoicing, project updates, subconsultant management, and coordination.

Task 2.6. Geotechnical Site Review

Scope

Haley & Aldrich (H&A) will perform a field exploration and laboratory testing program to inform geotechnical recommendations for the pipeline design and construction. Specific services to be completed are the following items:

- Conduct a site visit to mark proposed explorations and identify potential obstacles to location access.
- Coordinate location of existing site utilities via the One-Call Service and through the use of a private locator for utility locates near the boring and test pit locations.
- Observe drilling by a subcontractor at two boring locations along the proposed alignment, including:
 - Observe and log two borings drilled as deep as 35 feet below existing ground surface (bgs) using sonic drilling methods.

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- Attempt to collect soil samples from each boring at 2.5 to 5-foot depth intervals by advancing split spoon samplers. (H&A anticipates that the presence of cobbles may preclude the collection of some samples).
- Observe test pit excavation by a subcontractor at up to six exploration locations along the proposed alignment. Test pits will be excavated to a maximum depth of up to 15 feet bgs using a track-mounted backhoe.
- Conduct a program of laboratory testing on select soil samples collected to evaluate engineering properties of the materials. For budgeting purposes, it is assumed testing will include moisture content and grain size distributions determinations, and a suite of tests to identify soil corrosion potential. However, actual tests will depend upon the materials encountered during explorations.
- Evaluate soil conditions encountered during field exploration work; evaluate seismic hazards; and develop geotechnical design recommendations and general construction guidelines for pipelines. The analysis will include the following:
 - Development of seismic design parameters and evaluation of the potential for liquefaction, seismic settlement, lateral spread, and seismic slope instability.
 - Geotechnical engineering assessments and recommendations for the pipeline including subgrade properties, corrosion potential, and bedding and backfill material requirements.
 - Soil settlement potential under pipe and backfill loads.
 - Anticipated subgrade conditions and potential need for pipe subgrade stabilization.
 - Recommendations for open excavation, trenchless construction, subgrade stabilization, shoring, and ground control during construction.
 - Lateral earth pressures for shoring design, including active, at-rest, and passive pressures.
 - Backfill recommendations for the pipeline and compaction criteria.
- Prepare a geotechnical exploration report (draft and final versions in PDF format), including:
 - Summary of subsurface conditions;
 - Geological profiles along the pipeline alignment;
 - Results of engineering analysis; and
 - Recommendations for the pipeline design and construction.

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- Provide project management and support services, including staff coordination, subcontractor coordination, and telephone consultations with the design team.

Task 2 Assumptions

- Others will coordinate right-of-way access for reconnaissance of and explorations along the project alignment.
- H&A will complete a one-day site visit prior to the start of drilling for utility clearance and site access evaluation. Boring locations will be marked by stakes for public utility clearance purposes.
- Soil cuttings from borings will be drummed and removed from the site. Borings will be backfilled with bentonite.
- Test pits will be backfilled with spoils and backfill will be tamped in place using excavator-mounted equipment. No compaction testing of backfill is proposed.
- H&A will not survey locations and elevations of completed explorations.
- Permits, if necessary to perform the site exploration activities, will be provided by the city.

Task 2 Deliverables

- Draft Geotechnical Investigation Report in PDF.
- Final Geotechnical Investigation Report in PDF

Task 5. Bid Set Submittal

Task 5.1. Final Bid Set

Finalize the plans, specifications, and cost estimate for bidding purposes. Incorporate review comments from the 90% Submittal stage and update documents per Geotechnical investigation findings.

Task 5 Assumptions

- No alignment changes.

Task 5 Deliverables

- Final Bid Set Plans, Specifications and Cost Estimate in PDF Format

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Task 6. Permitting Services

Task 6.1. Revised Critical Areas Assessment

A draft critical areas assessment for the project was completed in November 2023. The report will be updated to reflect the findings of the geotechnical site investigation in Task 2.6. Additionally, the project is now located within shoreline jurisdiction and the critical areas assessment will be updated to reflect the Shoreline Master Program regulations found in Chapter 16.50.

Task 6.2. Revised SEPA Checklist and Shoreline Exemption Letter

Based on the geotechnical site investigation findings prepared by Haley & Aldrich and the revised critical areas assessment, WSP will update the draft SEPA checklist to address geologically hazardous areas to ensure compliance with the City's code. To update the checklist, WSP will:

- Revise the Earth section, if required, to incorporate findings from the geotechnical site investigation.
- Revise the Water section to include updated findings from the revised critical areas assessment.
- Revise the Land and Shoreline use section to discuss critical areas and shoreline jurisdiction based on available mapping, the geotechnical report, and the updated critical areas assessment.
- Revise the shoreline exemption letter to reflect the geotechnical site investigation findings.
- Provide the revised draft checklist to the City's utilities manager for review.
- Revise the SEPA checklist once based on comments from the City's utilities manager and Community Development staff.
- Review the City's draft staff report and draft an email requesting edits to the conditions of approval.
- Attend one, 1-hour meeting with the project team and Community Development staff to discuss the project after submittal of the SEPA checklist and the shoreline exemption letter.
- Provide the shoreline exemption letter, SEPA checklist, standard application form (already completed), and plans to the City's utility manager for submittal to the City.

Task 6 Assumptions

- The geotechnical site investigation will indicate that on-site slopes are a landslide risk, but mitigation will be achieved through specifying hazard resilient pipe that will allow for continued function after the landslide. No additional mitigation will be required.
- There will be a 1-hour meeting with Community Development staff and a WSP project engineer, and senior planner, and natural resources scientist will attend.
- SEPA and shoreline submittal fees will be paid directly by the City of Camas.

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- Haley & Alrich will provide a geotechnical site investigation report to document the estimated slope displacement. If estimated slope displacement cannot be mitigated through a hazard resilient pipe, a scope amendment will be required to shift the water alignment outside of the geological hazard area.
- The city will be the lead agency and will make the SEPA threshold determination.
- The city is responsible for SEPA notice and review.
- SEPA review by the city will result in a determination that impacts are not significant.
- One round of review of the revised SEPA checklist and shoreline exemption by the City's utility manager
- Preparation of responses to questions in the checklist will involve coordination with the city based on the 90 percent design-level plans from Amendment 3.
- The City's utility manager will submit the shoreline exemption application and SEPA checklist to the Community Development Department after receipt from WSP

Task 6 Deliverables

- Revised draft and final critical areas site assessment report
- Draft and final revisions to the SEPA checklist
- Draft and final shoreline exemption letter

SCHEDULE

The schedule for these tasks is estimated to extend through August 2024 for design and permitting.

FEE ESTIMATE

We propose a not-to-exceed budget of \$73,024.83. This fee will be accrued on a time-and-materials basis. If you agree with this proposal, please incorporate this scope of work into the City's contracting documentation. A fee breakdown by task is provided below:

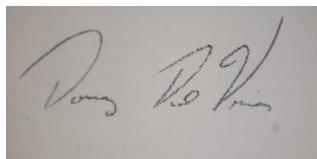
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Task 1	\$15,125.67
Task 2	\$2,371.53
Task 2.6 ¹	\$30,250.00
Task 5	\$15,792.03
Task 6	\$9,485.60
TOTAL	\$73,024.83

1. Work to be completed by Haley & Aldrich

Thank you for the opportunity to provide this amendment and we look forward to working with you. If you have any questions or comments about this proposal, please contact me at 503-290-1341 and Douglas.DeVries@wsp.com or Sarah Merrill at 503-417-9362 and Sarah.Merrill@wsp.com.

Sincerely,



Douglas De Vries, P.E.
 Sr. Water/Wastewater Engineer



Sarah Lingley
 Sr. Vice President