

PROJECT BACKGROUND

The Main Pump Station is a wetwell/drywell pump station that receives a significant portion of the City’s wastewater flows and conveys flow directly to the wastewater treatment plant. This pump station was last upgraded in 2012 with a larger wetwell and other minor improvements. However, the City has noted a number of deficiencies that they would like to improve:

- The electrical equipment is aging, and new control panels and VFDs are needed.
- The hatches for wetwell and drywell access lack safety grates.
- The existing wetwell level sensor is a pressure transducer, and the City desires a radar level sensor.
- The wetwell concrete may exhibit some corrosion.
- Previous sewer plans noted that the pump station may not have sufficient capacity for future flows. Existing capacity should be confirmed.

The City has retained Wallis Engineering (Wallis) to provide engineering services to evaluate the existing pump station deficiencies, provide recommendations for improvements, and design the selected proposed improvements. This project is divided into two phases:

- Phase I – Preliminary Design (Completed)
- Phase II – Final Design

This scope of work is for Phase II, which is anticipated to be complete by June 30, 2025.

CONTRACT DURATION

Contract term shall be from the date contract is fully executed until June 30, 2025.

PROJECT TEAM

Wallis Engineering will serve as the prime consultant for this project, leading a team of subconsultants to complete all the services identified in the specific scope of work. The project team is listed below, with the responsibilities which they will complete.

| <i>Consultant</i> | <i>Responsibilities</i> |
|--------------------------------|-------------------------------|
| Wallis Engineering (Wallis) | Civil Engineering |
| Ecological Land Services (ELS) | Environmental Permitting |
| Industrial Systems (IS) | Electrical Engineering |
| Windsor Engineers (Windsor) | Mechanical Engineering (HVAC) |

SPECIFIC SCOPE OF WORK

TASK 1 PROJECT MANAGEMENT AND ADMINISTRATION (SUPPLEMENTED)

Objective: Provide full project management, administration, and coordination between all team members, City staff, regulatory authorities, and key stakeholders. This task includes technical and financial

management of the project, and leading meetings and design workshops as necessary. Key tasks will be to organize and conduct all meetings, develop and track project schedule proactively to address critical path elements and ensure on-time delivery, and communicate to City staff of project progress.

Task 1.1 Project Management and Coordination (Supplemented)

Wallis will provide project management, schedule, coordination, and direction to the City staff and design team to track project progress and adjust as necessary. The goals, objectives and potential impacts of the project will be confirmed by the City's project manager. Project management and coordination will include the following:

- Comprehensive project management to ensure the scope, schedule and budget are met. Provide a primary point of contact for the City while coordinating with the project team.
- Schedule and participate in bimonthly or as-needed coordination conference calls with the City Project Manager and other staff at their request.
- Monthly progress summaries will be submitted with invoices and will include task level budget status and brief summary of work completed within the invoice period. Billings will include staff, title, hourly rate, and hours charged to the project.

Task 1 Assumptions:

- Project management is anticipated to span a 12-month period for the duration of Phase II – Final Design.
- All meetings with City staff will be held at the City's offices or other venue of the City's choice.
- Wallis will hold bimonthly project coordination conference calls or virtual meetings with the City as necessary.

Task 1 Deliverables:

- Project scope and fee.
- Project Schedule and updates, as needed.
- Monthly progress billings on a time and materials basis per task.

TASK 3 FINAL DESIGN (NEW)

Objective: Advance the pump station design to the final completion level.

Task 3.1 60% Design

The design team will prepare and submit 60% plans, specifications, and estimate (PS&E) for City review. Comments from the Final Design Report will be reviewed and incorporated into 60% PS&E. Design will include the following work:

- Civil and process design:
 - Site layout of new bypass piping exterior to the building
 - Mechanical design of flow meter piping inside the drywell
 - Mechanical design of air release valve
 - New safety grating on all existing hatches, and new aluminum hinged floor doors to replace existing steel hatches.
 - New epoxy coating of existing wetwell
- Electrical design:
 - New control panel, to match City's current standards

- New active front end VFDs to replace existing VFDs
- ATS replacement in the existing switchgear
- Replace existing pressure transducer with radar-type level sensor
- New flow meter
- Ventilation monitoring and alarming per NFPA 820
- Replace general purpose receptacles in the building
- HVAC design:
 - IMC and NFPA 820 code review
 - Ventilation and cooling calculations
 - Equipment selection
 - Ducting design

Task 3.2 90% Design

The design team will prepare and submit 90% plans, specifications, and estimate (PS&E) for City review. Comments from the 60% design submittal will be reviewed and incorporated into 90% PS&E.

Task 3.3 Final Design

The design team will prepare and submit final plans, specifications, and estimate for City review. The PS&E will be further refined and comments from the 90% design submittal will be reviewed and incorporated into the final PS&E.

Task 3 Assumptions:

- A total of 2 review meetings will be held with the City following the 60% and 90% submittals.
- One additional site visit will be made by Wallis, IS, and Windsor
- Design will be limited to the improvements recommended in the Preliminary Design Report and summarized in Task 3.1.
- Technical specifications will be in CSI format. City will provide front end documents.
- Disturbed and excavated areas will be below the threshold for a grading permit and stormwater management requirements..

Task 3 Deliverables:

- 60%, 90% and final plans, specifications and estimate in PDF format.
- Meeting agendas and notes from design review meeting

TASK 4 ENVIRONMENTAL PERMITTING (NEW)

Objective: Obtain all required environmental permits for the project.

Task 4.1 Critical Area Delineation and Report

ELS will research pertinent site information, conduct a site visit to delineate critical areas within and adjacent to project area, and prepare a report of findings and figure set following City of Camas code.

Task 4.2 Buffer Mitigation Plan (if required)

Based on the results of the critical areas delineation and report, ELS will determine whether the proposed work will have buffer impacts. If buffer impacts are unavoidable, ELS will prepare a buffer mitigation plan and figures.

Task 4.3 Shorelines Permit Narrative

Based on the results of the critical areas delineation and report, ELS will determine whether the proposed work will require a shorelines permit. If a shorelines permit is required, ELS will prepare a narrative for a shorelines permit following the local Shoreline Management Plan.

Task 4 Assumptions:

- This scope of work does not include land use permitting services, which would also be required if a shorelines permit is required.

Task 4 Deliverables:

- Critical Areas Report
- Buffer Mitigation Plan (if required)
- Shorelines permit narrative (if required)

TASK 5 CONSTRUCTION PHASE SERVICES (NEW)

Objective: To provide support during bidding and construction.

Task 5.1 Bidding Services

Wallis will provide bidding phase services to the City. We will respond to bidder's questions, prepare addenda is needed, and make a Recommendation of Award.

Task 5.2 Construction Engineering Services

Wallis will review specific submittals for their conformity to the Contract Documents. Wallis will respond to contractor RFI's as necessary and make site visits during construction.

Task 5 Assumptions:

- The City will manage bidding and construction, with support from Wallis.
- Wallis will not attend the bid opening.
- Wallis will attend the preconstruction meeting; the City will lead the meeting.
- Four site visits during construction, including a final site visit to establish all minor corrective work required prior to issuing Final Completion.

Task 5 Deliverables:

- Up to three addenda
- Recommendation of award letter
- Submittal review comments
- Submittal log
- RFI responses
- RFI log

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Fee Estimate
 City of Camas | Main P.S. Improvements
 May 2024 | WE# CAMAS22WW.02

| | | EM3 | PE6 | PE4 | SE3 | T4 | A6 | A3 | Wallis Labor | Expenses | Subconsultants | | | Total Cost |
|---------------|--|----------|------------|----------|------------|-----------|-----------|----------|---------------------|-------------|---------------------|---------------------|---------------------|----------------------|
| | | | | | | | | | | | Ind. Sys. | Windsor | ELS | |
| | | \$207.02 | \$167.09 | \$156.58 | \$119.80 | \$132.41 | \$121.90 | \$87.22 | | | | | | |
| Task 1 | Project Management and Administration | | | | | | | | | | | | | |
| 1.1 | Project Management and Coordination | 8 | 40 | 8 | | | 8 | 7 | \$ 11,178.14 | \$ - | \$ - | \$ - | \$ 4,500.00 | \$ 15,678.14 |
| | TASK 1 SUBTOTAL | 8 | 40 | 8 | 0 | 0 | 8 | 7 | \$ 11,178.14 | \$ - | \$ - | \$ - | \$ 4,500.00 | \$ 15,678.14 |
| Task 3 | Final Design | | | | | | | | | | | | | |
| 3.1 | 60% Design | | 16 | | 40 | 8 | 8 | | \$ 9,729.00 | \$ - | \$ 9,300.00 | \$ 4,000.00 | \$ - | \$ 23,029.00 |
| 3.2 | 90% Design | | 16 | | 32 | 6 | 6 | | \$ 10,094.62 | \$ - | \$ 8,300.00 | \$ 4,000.00 | \$ - | \$ 22,394.62 |
| 3.3 | Final Design | | 8 | | 24 | 4 | 4 | | \$ 5,229.16 | \$ - | \$ 7,210.00 | \$ 4,000.00 | \$ - | \$ 16,439.16 |
| | TASK 2 SUBTOTAL | 0 | 40 | 0 | 96 | 18 | 18 | 0 | \$ 25,052.78 | \$ - | \$ 24,810.00 | \$ 12,000.00 | \$ - | \$ 61,862.78 |
| Task 4 | Environmental Permitting | | | | | | | | | | | | | |
| 4.1 | Critical Area Delineation and Report | | 1 | | 2 | 1 | | | \$ 539.10 | \$ - | | | \$ 9,500.00 | \$ 10,039.10 |
| 4.2 | Buffer Mitigation Plan | | 1 | | 2 | 1 | | | \$ 539.10 | \$ - | \$ - | \$ - | \$ 6,500.00 | \$ 7,039.10 |
| 4.3 | Shorelines Permit Documents | | 2 | | 4 | 1 | | | \$ 945.79 | \$ - | \$ - | \$ - | \$ 8,500.00 | \$ 9,445.79 |
| | TASK 3 SUBTOTAL | 0 | 4 | 0 | 8 | 3 | 0 | 0 | \$ 2,023.99 | \$ - | \$ - | \$ - | \$ 24,500.00 | \$ 26,523.99 |
| Task 5 | Construction Phase Services | | | | | | | | | | | | | |
| 5.1 | Bidding Services | | 4 | | 8 | | 4 | | \$ 2,114.36 | \$ - | \$ 1,100.00 | \$ 1,000.00 | \$ - | \$ 4,214.36 |
| 5.2 | Construction Engineering Services | | 16 | | 24 | 2 | | | \$ 5,813.46 | \$ - | \$ 9,800.00 | \$ 2,000.00 | \$ - | \$ 17,613.46 |
| | TASK 4 SUBTOTAL | 0 | 20 | 0 | 32 | 2 | 4 | 0 | \$ 7,927.82 | \$ - | \$ 10,900.00 | \$ 3,000.00 | \$ - | \$ 21,827.82 |
| | Project Subtotal | 8 | 104 | 8 | 136 | 23 | 30 | 7 | \$ 46,182.73 | \$ - | \$ 35,710.00 | \$ 15,000.00 | \$ 29,000.00 | \$ 125,892.73 |

| FEE SUMMARY | |
|---|----------------------|
| Wallis Labor | \$ 46,182.73 |
| Wallis Expenses <i>(M) = Mileage at current IRS Rate</i> | \$ - |
| Subconsultants | |
| Ind. Sys. | \$ 35,710.00 |
| Windsor | \$ 15,000.00 |
| ELS | \$ 29,000.00 |
| TOTAL BUDGET | \$ 125,892.73 |



RATE SCHEDULE

Rate Schedule good through December 31, 2024

| <u>Title</u> | <u>Range</u> | |
|----------------------------|--------------|----------|
| Associate Engineer | \$168.14 | \$168.14 |
| Senior Engineer | \$223.83 | \$223.83 |
| Engineering Manager I - VI | \$195.46 | \$222.78 |
| Project Engineer I - IX | \$129.26 | \$188.10 |
| Staff Engineer I - IV | \$108.24 | \$122.95 |
| Engineering Intern I - III | \$68.31 | \$78.82 |
| Designer | \$136.61 | \$156.58 |
| Construction Manager | \$147.12 | \$147.12 |
| Inspector I-III | \$105.09 | \$124.00 |
| Technician I-IV | \$84.07 | \$132.41 |
| Administrative I – VI | \$52.55 | \$121.90 |

These hourly rates include in-house office expenses, photocopying, and other incidental items. Mileage will be reimbursed at the current standard IRS rate. Outside expenses will be billed at cost plus 10%.