

PROJECT DESCRIPTION

The existing Lacamas Creek Pump Station was constructed in 1958 and is located just east of 1642 NE 3rd Avenue in Camas, WA on the west shoreline of Lacamas Creek. The pump station is nearing its design capacity, and many of the components have reached their useful life. The City of Camas has selected the Wallis Engineering team to design and complete permitting for a new Lacamas Creek pump station, and a nearby satellite pump station at Baz Park to serve homes and businesses in the NE 3rd Loop area.

The project is divided into three phases:

- Phase I: 30% design including environmental and archeological permitting. (WE#1460A)
- Phase II: Land use permitting, preparation of contract documents, and bidding (WE#1460B)
- Phase III: Construction services (WE#1460B)

Phases I and II have been completed. This supplemental agreement is for Phase III, Construction Services.

SPECIFIC SCOPE OF WORK

TASK 1 PROJECT MANAGEMENT AND ADMINISTRATION

This task is for the management, administration and to provide ongoing coordination for phase III of this project. The task includes technical management, financial management, and serving as liaison to City staff and design team.

Task 1.1 Define Project Objectives

The project manager will define the project goals, locations, and work criteria in coordination with the City. These items will be included in the Draft and Final scopes of work.

Task 1.2 Project Management and Coordination

The following items are included:

- Provide management, coordination and leadership of the consultant team continuously throughout the construction phase.
- Track Consultant team's contract costs and budgets on a monthly basis.
- Prepare monthly invoices and status reports detailing the previous month's work and a forecast of the coming month's work.
- Maintain the project files.

Assumptions:

- Project duration is 14 months: November 2019 – December 2020.

Deliverables:

- Draft and Final Scopes of Work.

- Monthly invoices and progress reports.

TASK 8 CONSTRUCTION PHASE SERVICES

This task objective is to provide construction engineering services to support the City's construction administration, management and inspection.

8.1 Pre-Construction Conference

Attend and participate in a 3-hour Pre-Construction Conference at the City office. Attendees will include Wallis (3), R&W (1), Ecological Land Services (1), and Archaeological Services (1).

- City will lead the preconstruction conference, provide an agenda and meeting minutes.

8.2 Weekly Construction Meetings and Client Meetings

Attend and participate in weekly construction meetings and client meetings. Attendance at client meetings to be as-requested by the City and includes meetings with the City's Construction Manager, Contractor, Inspector, and/or City staff.

- Wallis will attend up to 20 weekly construction meetings and up to five (5) client meetings.
- R&W, GreenWorks and GRI will attend up to five (5) weekly construction meetings and up to two (2) client meetings.

8.3 Survey Staking

KC Development will provide survey staking needed for construction of improvements including:

- Office calculations.
- Recover existing survey control, set and maintain survey control for the duration of the construction.
- Provide one set of stakes for erosion control fencing.
- Provide one set of stakes for gravity and force main sanitary sewer construction including lines, transition structures, manholes, laterals and tees. Stakes will be placed at horizontal angle points, PC's, PT's and vertical grade changes, every 50'. Stakes will be stationed, labeled and marked for cut to invert elevations. The Contractor will be provided with one set of cut sheet notes.
- Provide one set of stakes for the HDD, including alignment stakes and stakes every 25 feet over the line.
- Provide staking for the construction at two pump station locations. For each pump station:
 - Provide three sets of stakes for pads/structures/wet wells.
 - Provide one set of stakes for the fence/gate.
 - Provide one set of stakes for internal piping.
 - Provide one set of stakes for pavement, sidewalks, and site amenities.
 - Provide as-built data for preparation of as-built plans.
- Contractor will provide a minimum of two working days advance notice for survey requests.

8.4 Submittals and RFI's

- Review Contractor submittals for conformity to the Contract Documents.
- Respond to Contractor-generated RFI's.
- Provide interpretations of contract documents.

- Copy the City on all review comments routed to the Contractor.
- Assumes up to 100 submittals and 30 RFI's.

8.5 Construction Engineering

- Make engineering site visits as requested by the City to assist in the review of constructed improvements, including civil/site, mechanical, structural, and EI&C.
- Provide design revisions as requested by the City.
- Review and provide comments on technical merit of City-prepared change orders.
- Assumes up to five (5) site visits each for civil/site, mechanical, GreenWorks and R&W, and 10 site visits for GRI.
- Assumes review of up to 10 City-prepared change orders.

8.6 Environmental Permit Compliance

Ecological Land Services will provide the following:

- Monitor project for compliance with project's permit requirements.
- Establish requirements for permitting agency notifications and provide a memorandum to City summarizing required notifications.
- Make site visits as requested by the City to assist in the review of Contractor's environmental permit compliance. Up to five (5) site visits.

8.7 Archaeological Monitoring

Archaeological Services of Clark County will provide the following:

- Attend Pre-Construction Conference to familiarize the Contractor with regulations relating to the project's specific archaeological concerns and establish scheduling, communication, and safety protocols.
- Provide mail notification to Consulting Parties and affected Tribes providing adequate notice of construction and inviting Consulting Parties to observe construction.
- Meet with the construction supervisor and project inspectors, with the objective to review the areas to be monitored, the monitoring protocols, and the notification procedures in the event of an archaeological discovery. This review shall cover the following points:
 - Communication protocols will be reviewed, including contacts and provisions for additional personnel, if required.
 - Each party's obligations will be identified, including, but not limited to the construction contractor, archaeologist, project proponent, lead federal agency, DAHP, and Tribal personnel.
 - Site information detailing the location of archaeological resources will not be widely disseminated. This need for confidentiality will be communicated to construction personnel.
 - Scheduling procedures, including the amount of lead time, will be settled between the archaeologist, the City, and the construction contractor.
- Provide archaeological monitoring for all ground disturbing work on the east side of Lacamas Creek.
- Monitoring requests will be communicated directly to Archaeological Services by the City's construction manager, or by the Contractor.

- Verify that the area staked on the ground accurately reflects the areas to be monitored
- Monitoring is assumed to be (40) 8-hour days, including travel.
- Costs to coordinate the field monitoring schedule, and for downloading photographs and filing notes and maps are included.
- The budget covers costs to analyze and curate up to 1 cubic foot of artifacts recovered during construction monitoring and associated archival materials (e.g. field notes, photos) at the Burke Museum, Seattle, WA.
- A report summarizing the monitoring will be needed upon conclusion of the field monitoring. It will consist of a memo, maps showing the location and details, and photographs showing the extent of the monitoring. Updated archaeological site forms will need to be included.
- Archaeological Services will submit the report to Corps of Engineers to satisfy the monitoring requirement. The Corps of Engineers, in their capacity as lead federal agency, will then distribute the report to interested parties for comment.
- Archeological monitoring for inadvertent discoveries involving significant archeological resources is not included.

8.8 Pump Station Start-up

Wallis and R&W will provide on-site start-up and testing support services for technical assistance to the Contractor in starting up the new equipment for two pump stations.

- Facilitate system testing and start-up operations with Contractor and City, as needed.
- Assist the City's Facilities Integrator with system commissioning of both pump stations, including testing of the integrated control systems and associated programming and SCADA software configuration.
- Assist the Contractor's Control Systems Integrator with the commissioning of both pump stations, including the testing of the integrated control system, and associated programming of the site PLC and OIT.
- Assumes Contractor's Control Systems Integrator will lead all system commissioning.
- Assumes a 3-day allowance per pump station for start-up (6 days for two pump stations).

8.9 Record Drawings

The Wallis Team will provide the following:

- Prepare record drawings based on red-lined plans provided by the City and Contractor.
- Incorporate design revisions, change orders and as-built survey information.
- Provide Record Drawings in AutoCAD and PDF format.

8.10 Operations and Maintenance (O&M) Manual

Wallis and R&W will:

- Review and provide written comments on O&M Manual that is prepared by the Contractor.
- Assumes an initial review, one follow-up review, and one final review to confirm noted corrections have been incorporated.

8.11 Project Closeout

The Wallis Team will participate in project close-out activities with the City and Contractor, including:

- A 4-hour final project walk-through including pump stations, site improvements, and pipelines.

- Submit to City a final punch list of corrective action noted during the final walk-through.
- Provide project documentation to the City (as requested).

8.12 Post-Construction Monument Replacement Survey

It is anticipated that approximately six (6) existing survey monuments will be destroyed during construction. This task includes the following activities:

- File an "Application For Permit To Remove Or Destroy A Survey Monument" with DNR prior to construction for these monuments.
- Upon construction completion, replace the destroyed monuments (up to 6).
- File a "Completion Report For Monument Removal Or Destruction" with DNR to document the monument replacement.

Task 8 Assumptions (in addition to those noted specifically in sub-tasks):

- City will provide construction management and full-time inspection.

Task 8 Deliverables:

- Construction staking.
- Written submittal comments and RFI responses.
- Field Observation Reports to document on-site conditions, site observations, and recommendations.
- Written comments on City-prepared draft change orders.
- Design revisions.
- Memorandum summarizing documentation required for environmental permit compliance.
- Notification to Consulting Parties and affected Tribes.
- A report summarizing the archaeological monitoring.
- Record drawings in AutoCAD and PDF format.
- Written comments on review of O&M manual.
- Project close-out documentation.
- Application for Permit to Remove or Destroy A Survey Monument.
- Completion Report for Monument Removal or Destruction.

Agreement Exhibit B2 - Fee Estimate City of Camas - Lacamas Creek Sewer Pump Station Improvements Supplemental Agreement No. 2 October 2019																			
		AE	EM3	EM2	EM1	PE3	PE2	T3	A6	A4	Wallis Labor	Expenses	Subconsultants						Total Cost
		\$141.00	\$177.00	\$172.00	\$165.00	\$127.00	\$122.00	\$108.00	\$104.00	\$88.00									
Task 1	Project Management and Administration																		
1.1	Define Project Objectives	2	2	20		2				2	\$ 4,506.00								\$ 4,506.00
1.2	Project Management and Coordination		8	80					7	6	\$ 16,432.00								\$ 16,432.00
	TASK 1 SUBTOTAL	2	10	100	0	2	0	0	7	8	\$ 20,938.00		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,938.00
Task 8	Construction Phase Services																		
8.1	Pre-Construction Conference			4		4	4				\$ 1,684.00	\$ 21.00 (M)		\$ 2,200.00			\$ 713.00		\$ 4,618.00
8.2	Weekly Construction Meetings and Client Meetings			40		20	80				\$ 19,180.00	\$ 508.00 (M)			\$ 3,339.00		\$ 4,676.00	\$ 6,578.00	\$ 34,281.00
8.3	Survey Staking										\$ -		\$ 21,780.00						\$ 21,780.00
8.4	Submittals and RFI's										\$ -				\$ 2,321.00				\$ 2,321.00
	Submittals			30	18	26	168			3	\$ 32,192.00						\$ 16,527.00		\$ 48,719.00
	RFI's			10	4	10	40			1	\$ 8,618.00						\$ 3,993		\$ 12,611.00
8.5	Construction Engineering										\$ -	\$ 102.00 (M)			\$ 3,553.00			\$ 10,598.00	\$ 14,253.00
	Design Revisions			10	4	20	20	20			\$ 9,520.00								\$ 9,520.00
	Construction Site Visits			10	4	10	10				\$ 4,870.00						\$ 5,096.00		\$ 9,966.00
	Review and Respond to Change Orders			20							\$ 3,440.00						\$ 3,644.00		\$ 7,084.00
8.6	Environmental Permit Compliance										\$ -	\$ 102.00			\$ 6,050.00				\$ 6,152.00
8.7	Archaeological Monitoring										\$ -					\$ 39,606.00			\$ 39,606.00
8.8	Pump Station Start-up			8		20	20				\$ 6,356.00	\$ 122.00					\$ 2,112.00		\$ 8,590.00
8.9	Record Drawings			4		10	40	40			\$ 11,158.00		\$ 3,256.00		\$ 1,100.00		\$ 3,647.00		\$ 19,161.00
8.10	Operations and Maintenance (O&M) Manual			2		10	20				\$ 4,054.00						\$ 5,624.00		\$ 9,678.00
8.11	Project Closeout			20			20			8	\$ 6,584.00	\$ 21.00 (M)		\$ 880.00	\$ 1,216.00		\$ 3,604.00	\$ 550.00	\$ 12,855.00
8.12	Post-Construction Monument Replacement Survey										\$ -		\$ 2,420.00						\$ 2,420.00
	TASK 8 SUBTOTAL	0	0	158	30	130	422	60	0	12	\$ 107,656.00	\$ 876.00	\$ 27,456.00	\$ 9,130.00	\$ 11,529.00	\$ 39,606.00	\$ 49,636.00	\$ 17,726.00	\$ 263,615.00
	GRAND TOTAL	2	10	258	30	132	422	60	7	20	\$ 128,594.00	\$ 876.00 \$0	\$ 27,456.00	\$ 9,130.00	\$ 11,529.00	\$ 39,606.00	\$ 49,636.00	\$ 17,726.00	\$ 284,553.00

FEE SUMMARY	
Wallis Labor	\$ 128,594.00
Wallis Expenses	\$ 876.00
Subconsultants	
KC Dev	\$ 27,456.00
ELS	\$ 9,130.00
GreenWorks	\$ 11,529.00
Arch Services	\$ 39,606.00
R&W	\$ 49,636.00
GRI	\$ 17,726.00
NOTE: Fee includes 10% markup	
TOTAL BUDGET	\$ 284,553.00

EXHIBIT B

RATE SCHEDULE

Rates are effective thru December 31, 2020

<u>Title</u>	<u>Range</u>	
Associate Engineer	\$141	\$141
Senior Engineer	\$193	\$193
Engineering Manager I - VI	\$165	\$190
Project Engineer I - IX	\$117	\$163
Staff Engineer I - IV	\$95	\$115
Engineering Intern I - III	\$59	\$65
Designer	\$112	\$136
Construction Manager	\$125	\$125
Inspector	\$88	\$103
Technician I-IV	\$78	\$114
Administrative I – VI	\$47	\$104