White Salmon City Council Meeting
A G E N D A
April 01, 2020 – 6:00 PM
119 NE Church White Salmon WA 98672
Zoom Teleconference Meeting
Meeting ID: 846 618 123 Password: 636670
Call in Numbers:

669-900-6833	**929-205-6099**	**301-715-8592**
346-248-7799	**253-215-8782**	**312-626-6799**

Call to Order

Roll Call

Changes to the Agenda

Presentations

1 Mayor's Remarks Regarding COVID-19

Business Items

2. Resolution 2020-04-501 Ratifying Proclamation of Emergency and Providing Temporary Procedures to Respond to COVID-19
   a. Presentation and Discussion
   b Action
3. Authorization of Crestline Payment No. 2 and USDA Reimbursement Request No. 2 - Jewett Water Main Improvements Project
   a. Presentation and Discussion
   b. Action
4. Personal Services Contract - Gray & Osborne Inc., Transportation Engineering
   a. Presentation and Discussion
   b. Action
5. Personal Services Contract - Aspect Consulting - Hydrogeological Engineering Services
   a. Presentation and Discussion
   b. Action
6. Personal Services Contract - Bell Design Company - General Civil Engineering and Surveying Services
   a. Presentation and Discussion
   b. Action
7. Personal Services Contract - Anderson Perry & Associates - Water and Wastewater Engineering
   a. Presentation and Discussion
   b. Action
8. Personal Services Contract - Anderson Perry & Associates - 14-Inch Main Line Replacement Project
   a. Presentation and Discussion
   b. Action
9. Proposed 2020 Budget Amendment (Documents to be Added)
   a. Presentation and Discussion
   b. Action

Consent Agenda

10. Approval of Meeting Minutes - March 4 and March 11, 2020
11. Approval of Vouchers

Department Head and Committee Reports

Executive Session (if needed)

Adjournment

AGENDA MEMO

Needs Legal Review:	Yes
Council Meeting Date:	April 1, 2020
Agenda Item:	Resolution 2020-04-501, Ratifying Proclamation of Emergency and Providing Temporary Procedures to Respond to the COVID-19 Pandemic
Presented By:	Mayor Marla Keethler

Action Required
Adoption of Resolution 2020-04-501, Ratifying Proclamation of Emergency and Providing Temporary Procedures to Respond to the COVID-19 Pandemic.

Motion
Move to adopt Resolution 2020-04-501, Ratifying Proclamation of Emergency and Providing Temporary Procedures to Respond to the COVID-19 Pandemic.

Explanation of Issue
On March 13,2020, Mayor Keethler issued Emergency Proclamation 2020-01, declaring the COVID-19 pandemic to be an emergency in the City of White Salmon pursuant to Section 38.52.070 RCW and other relevant provisions of state and federal law. A copy of the Emergency Proclamation is attached.

The City Council is required to ratify the Emergency Proclamation at its next regularly scheduled meeting which is April 1, 2020 because the City Council did not meet on March 18.

The Mayor has also established a number of temporary procedures to respond to the COVID-19 pandemic that also need to be ratified.

Included with this agenda memo is the “Letter to Employees” referenced in the proposed resolution.

Staff Recommendation
Mayor Marla Keethler and staff recommends the City Council adopt Resolution 2020-04-501, Ratifying Proclamation of Emergency and Providing Temporary Procedures to Respond to the COVID-19 Pandemic.

RESOLUTION 2020-04-501

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF WHITE SALMON, WASHINGTON, RATIFYING PROCLAMATION OF EMERGENCY AND PROVIDING TEMPORARY PROCEDURES TO RESPOND TO THE COVID-19 PANDEMIC

WHEREAS, the State of Washington, along with much of the world, is experiencing an outbreak of the Novel Coronavirus, known as COVID -19, and;

WHEREAS, COVID-19 is a respiratory disease that can result in serious illness or death and is easily spread from person to person, and;

WHEREAS, on January 31, 2020 the United States Department of Public Health and Human Services Secretary declared a public emergency for the 2019 Novel Coronavirus beginning on January 27, 2020, and;

WHEREAS, on February 20, 2020 Governor Inslee proclaimed a state of emergency (Proclamation 20-05) for all counties in Washington State due to the spread of COVID-19 and directed that the plans and procedures of the Washington State Comprehensive Emergency Management Plan be implemented, and;

WHEREAS, on March 3, 2020 Klickitat County Emergency Operations Center was activated to Level-2 (partial activation) and is working to ensure that local stakeholders have access to all relevant information related to COVID-19 for preparation purposes, and;

WHEREAS, on March 13, 2020 the President of the United States declared a national emergency related to COVID-19, and;

WHEREAS, on March 13, 2020, Mayor Marla Keethler issued Emergency Proclamation 2020-01, declaring the COVID-19 pandemic to be an emergency in the City of White Salmon pursuant to Section 38.52.070 RCW and other relevant provisions of state and federal law; and

WHEREAS, on March 23, 2020 Governor Inslee issued Proclamation 20-25 amending Proclamation 20-05 requiring residents of Washington to "Stay Home – Stay Healthy;" and

WHREAS, on March 24, 2020 Governor Inslee issued Proclamation 20-28 amending Proclamation 20-005 waving certain requirements in RCW 42.56, the Public Records Act, and RCW 42.30, the Open Public Meetings Act, that provides for any activity that necessitates an in-person setting; and

WHEREAS, the existing conditions related to COVID-19 warrant the proclamation of the existence of a local emergency and providing for temporary procedures to respond to the COVID-19 pandemic.

NOW, THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WHITE SALMON AS FOLLOWS:

Section 1. Ratification and Finding of Fact.
Council hereby ratifies Emergency Proclamation 2020-01 issued by Mayor Marla Keethler for the City of White Salmon on March 13, 2020. Council further finds that an emergency exists pursuant to Section 39.04.280(2)(b) RCW and authorizes the Mayor to waive any necessary competitive bidding requirements related to the COVID-19 emergency.

Section 2 – City's Response and Operations.

A. The City is committed to protecting the public and staff by minimizing the spread of COVID-19 and complying with Governor Inslee's order to "Stay Home – Stay Healthy." The City has and will continue to follow the guidelines provided by the State of Washington and the Klickitat County Health Officer, who prescribe social distancing and minimizing gatherings of people to best combat the spread of COVID-19.

B. The City has closed, and will continue to maintain closures, of all city offices to the general public beginning Monday, March 16 until further notice. Citizens may pay utility bills, acquire licenses, submit permit applications, contact staff and transact other City business via telephone, email, and online. City staff is working remotely where and when possible. City public works staff is working in shifts and ensuring the city's critical infrastructure is maintained in good operating condition.

C. All construction work, including the City's Jewett Blvd. Water Main Improvements project, is halted until further notice. Emergency construction work will be allowed with the appropriate permits. The City will arrange for inspections of emergency construction work.

D. City parks will remain open, except that the playground equipment located in Rheingarten Park has been closed until further notice. If law enforcement or staff observes that good social distancing is not being maintained, the City reserves the right to close all city parks.

E. The City will not issue late fees, penalties, etc., nor shut off water, due to late or unpaid payments. City utility billing will continue to be issued.

F. All City Committee and Planning Commission meetings are cancelled.

G. Pursuant to Governor Proclamation 20-28, council meetings will be held via teleconferencing until such time in person meetings can resume. Public comment will not be taken at any city council meeting via teleconference. All meetings held via teleconference will be recorded and the recordings will be made available to the public and posted on the city's webpage, if possible. The public is encouraged to send questions, concerns, and comments to the City Clerk Treasurer via email. The City Clerk Treasurer will ensure that all emails are disseminated to the appropriate staff and/or officials. Agendas and agenda packets, along with instructions on how to attend the meeting by teleconference will be posted on the city's webpage. Until further notice, hard copies of

the agenda packet will not be provided. Agendas and instructions on how to attend the meeting will be posted at Fire Hall, City Hall and the Post Office. Per Governor Inslee's Proclamation 20-28, council meetings will be held only to address necessary and routine matters or matters necessary to respond to the COVID-19 outbreak and the current public health emergency.

Any other matters will be held until regular public participation under the Open Public Meetings Act is possible.

The Mayor is authorized to adjourn regularly scheduled council meetings (first and third Wednesdays of each month) in lieu of the requirement of a quorum of council to adjourn a meeting as provided in RCW 42.30.090. In the event a regular meeting is adjourned, notices will be posted at the White Salmon Fire Hall, City Hall, and the Post Office

H. Mayor Marla Keethler issued the attached "Letter to Employees" on March 17, 2020 providing direction to employees regarding using any form of paid leave during the COVID-19 event, effective March 17, 2020 through April 24, 2020. The City Council confirms the decision of the Mayor to not require employees to use any form of paid leave in the event employees are directed to be self-quarantined, quarantined, sent home with symptoms, stay home sick or unable to work due to scheduling or office closures and extends, if necessary, the provisions until further notice.

Section 3 – Budget.
During the term of this Resolution, the City Council adopts the following budget restrictions:

A. All non-essential equipment replacements are hereby suspended, unless the replacement is completely funded by grants or the City's enterprise utility funds or is already on order.

B. The City Council hereby encourages the expenditures of funds for acquiring necessary technology to facilitate employees to work from home where remote work is possible and approved by the Mayor and the appropriate Department Head.

C. All staff time dedicated to emergency health responses related to COVID-19 pandemic must be tracked to allow for FEMA reimbursement.

Section 4 – Single-Use Carryout Bag Requirements.
The requirement for charging a fee for providing paper bags to customers is suspended until further notice. Retail establishments may establish requirements that do not allow for customers to bring their own carryout bags due to concerns over COVID-19.

Section 5 – Communication.
A. All updates regarding City functions and actions related to the COVID-19 pandemic will be posted on the City's website to provide the public with the best updated information.

B. The City will cancel and discourage any unnecessary gatherings of community members and/or staff during the term of this resolution.

Section 6 – Effectiveness.
The provisions of this Resolution shall become effective upon adoption and expire on April 24, 2020 unless further extended or shortened by further action of the City Council.

ADOPTED by the Council of the City of White Salmon, Washington. Dated this 1st day of April, 2020.

_____
Marla Keethler, Mayor

ATTEST:

_____
Jan Brending, Clerk Treasurer

APPROVED AS TO FORM:

_____
Kenneth B. Woodrich, City Attorney

City of White Salmon, Washington
Emergency Proclamation 2020-01

WHEREAS, the State of Washington, along with much of the world, is experiencing an outbreak of the Novel Coronavirus, known as COVID -19, and;

WHEREAS, COVID-19 is a respiratory disease that can result in serious illness or death and is easily spread from person to person, and;

WHEREAS, on January 31, 2020 the United States Department of Public Health and Human Services Secretary declared a public emergency for the 2019 Novel Coronavirus beginning on January 27, 2020, and;

WHEREAS, on February 20, 2020 Governor Inslee proclaimed a state of emergency (Proclamation 20-05) for all counties in Washington State due to the spread of COVID-19 and directed that the plans and procedures of the Washington State Comprehensive Emergency Management Plan be implemented, and;

WHEREAS, on March 3, 2020 Klickitat County Emergency Operations Center was activated to Level-2 (partial activation) and is working to ensure that local stakeholders have access to all relevant information related to COVID-19 for preparation purposes, and;

WHEREAS, on March 13, 2020 the President of the United States declared a national emergency related to COVID-19, and;

WHEREAS, proactive measures must be taken to protect public health, safety and welfare of City of White Salmon residents, visitors, and staff, and;

WHEREAS, additional resources may be required in response to the COVID-19 outbreak, and;

WHEREAS, the City may require supplemental assistance, and;

WHEREAS, the severity of this event may go beyond the capability of local resources and the duration of the event is unknown, and;

WHEREAS, the existing conditions related to COVID-19 warrant the proclamation of the existence of a local emergency.

NOW, THEREFORE, I, Marla Keethler, Mayor of the City of White Salmon, do hereby proclaim that a local emergency now exists due to the COVID-19 outbreak and that emergency operations are in effect, and this necessitates the utilization of emergency powers granted under RCW 38.52.070.

The City of White Salmon is authorized to exercise the powers vested under this proclamation considering the exigencies of this emergency without regard to time-consuming procedures and formalities prescribed by law (except Constitutional requirements).

This emergency proclamation shall expire unless confirmed and adopted by the White Salmon City Council at the next regularly scheduled City Council Meeting.

Dated March 13, 2020.

Marla Keethler, Mayor

Jan Brending, City Clerk Treasurer

City of White Salmon
Office of City Hall

March 17, 2020

City of White Salmon Employees

In light of the ongoing COVID-19 situation, we want to update you on the current efforts underway to deal with the challenges of this rapidly-changing series of events.

Effective Monday, March 16, 2020, the City of White Salmon Mayor decided to close all city offices to the public through April 24, 2020 but will continue full staffing and conduct normal business as practical. Klickitat County, the City of Bingen and the City of Goldendale have also closed their offices to the public.

In order to remove any barriers from you being able to follow current and future COVID-19 related directives we have decided that employees will not be required to use any form of paid leave in the event you are directed to be self-quarantined, quarantined, sent home with symptoms, stay home sick or unable to work due to scheduling or office closures. This is effective March 17, 2020 through April 24, 2020.

If for some reason daycare is no longer available due to a daycare having to close or if your partner/spouse is unable to care for the children due to COVID-19, employees will not be charged leave to stay home and take care of their children.

In the event you are unable to report to work for any of the above reasons but you are well, check with your supervisor to consider possible telecommuting options during your absence.

The Klickitat County Department of Emergency Management (DEM) and the Klickitat County Health Department have been communicating, coordinating, planning, and preparing with local stakeholders (local hospitals and medical clinics; local fire departments/fire districts and the EMS district; local police and the Sheriff's office), the Washington State Department of Health, and the Washington State Emergency Operations Center. Local elected and appointed officials are meeting on a regular basis to discuss how the cities and county will deal with any significant impacts of COVID-19.

The Klickitat County Emergency Operations Center (EOC) – which serves the cities and the county – has been activated at Level 2 (partial activation) for better support and coordination among local government and local stakeholders. The EOC, located on the ground floor of the DEM/9-1-1 building, in Goldendale, has been communicating and coordinating with the State EOC to provide and receive incident-related information, seek resources, and maintain awareness about the state of COVID-19 in Washington State. The city has submitted to the Klickitat Emergency Operations Center our contingency plans to continue critical services and limited staffing, if needed, during this evolving situation.

Currently, there is one confirmed COVID-19 case within Klickitat County. Several persons have been tested by the Klickitat County Health Department – all have been negative for the virus. More test results

are outstanding. However, the combined effort to develop and maintain situational awareness – and maintain communications in Klickitat County for when sustained community spread is identified.
In abundance of caution and concern for the health of all City employees, we urge you to remember the following:

- Washington your hands frequently, with soap and warm water, for at least 20 seconds.
- Use an alcohol-based hand sanitizer with at least 60% alcohol when soap and warm water are not readily available.
- Avoid touching your eyes, nose, and mouth with unwashed hands.
- Clean and disinfect frequently touched objects and surfaces.
- Cover coughs and/or sneezes with a tissue – then throw the tissue in the trash and wash your hands, as previously mentioned. If not a tissue, cough or sneeze into the inside of your elbows/shirt-sleeve.
- **Stay home if you are ill** – do not spread your illness to nearby employees – this is very important for the continuity of operations in city government.

If you feel unwell – and decide your symptoms need medical review – please call your medical provider for advice. Do not show up at the medical office/clinic/facility. Schedule a time to meet your medical provider. Approach the facility using the access path provided to you during your scheduling phone call (patients with symptoms are being kept apart from other patients and medical staff – you may be met outside the facility or asked to enter through a separate door). Cover your face with a mask that will be provided by the medical staff. Avoid exposing others to your illness during transport.

Above all, **DO NOT PANIC**. Most personnel who develop COVID-19 recover in a few days, with no long-term problems. At-risk groups (60+ years and/or underlying chronic illness) should consider social distancing to avoid potential exposure to the illness. If you are ill – or think you have been exposed to someone who has COVID-19 – self-quarantine may be suggested. Do not take a chance on exposing others – and our community – to the virus. While being tested for the virus has been problematic, pleas know that test results do not influence medical care (you are treated for the symptoms that you exhibit) and do not influence the duration of the illness. The virus must run its course – currently there are no anti-viral medicines approved to treat or shorten the duration of COVID-19.

Together, we will get through this. There are things that you should do – and things that you should not do. Please follow the direction of the CDC, the Washington State Health Department, and the Klickitat County Health Department. Realize that their direction may change as more is learned about COVID-19. Their direction will help you and your families avoid illness; will help protect at-risk populations; will help safe-guard our communities and their economic well-being; and will help to avoid overloading pre-hospital and medical care providers during potential periods of extreme demand.

Throughout our history we have endured and survived many challenges. If we work together and help each other we will survive this crisis too.

Marla Keethler, Mayor

Patrick Munyan, City Administrator

Item Attachment Documents:

3. Authorization of Crestline Payment No. 2 and USDA Reimbursement Request No. 2 - Jewett Water Main Improvements Project
   a. Presentation and Discussion
   b. Action

AGENDA MEMO

Needs Legal Review: Yes
Council Meeting Date: April 1, 2020
Agenda Item: Authorization of Crestline Construction Payment No. 2 and USDA Reimbursement Request No. 2

Action Required
Authorize the Crestline Construction Payment No. 2 and USDA Reimbursement Request No. 2

Motion
Move to approve Crestline Construction Payment No. 2 in the amount of $268,450.97 and USDA Reimbursement Request No. 1 in the amount of $301,601.14.

Explanation of Issue
Documents for Crestline Payment No. 2 and USDA Reimbursement Request No. 2 (Loan Draw No. 2) are attached.

At this time, the construction project has been closed due to COVID-19 and the Governor's Stay Home-Stay Healthy order.

Staff Recommendation
Staff recommends the city council authorize payment of Crestline Construction Payment No. 2 in the amount of $268,450.97 and authorize submittal of USDA Reimbursement Request No. 2 in the amount of $301,601.14.

OUT LAY REPORT AND REQUEST FOR REIMBURSEMENT

Draw Request Number:	City of White Salmon			Jewett Water Main Improvements 2019				
				Payment Requested				
No. 2	**Initial Budget**	**Current Budget**	**Previous Paid to Date**	**No. 2**	**Paid to Date**		**Balance Remaining**	**%**
Misc. Soft Costs								
Administrative & Legal	10,000.00	10,000.00	3,193.00		3,193.00		6,807.00	31.93%
Bond Counsel	15,000.00	15,000.00	-		-		15,000.00	0.00%
Interim Financing	95,000.00	95,000.00	-		-		95,000.00	0.00%
		-	-		-		-	0.00%
		-	-		-		-	0.00%
		-	-		-		-	0.00%
		-	-		-		-	0.00%
		-	-		-		-	0.00%
		-	-		-		-	0.00%
		-	-		-		-	0.00%
Engineering/Architectural								
Design Services	105,000.00	268,700.00	267,319.32		267,319.32		1,380.68	99.49%
Bidding, Construction & Obseration Services	325,000.00	325,000.00	24,183.02	33,150.17	57,333.19		267,666.81	17.64%
		-	-		-		-	0.00%
		-	-		-		-	0.00%
		-	-		-		-	0.00%
		-	-		-		-	0.00%
		-	-		-		-	0.00%
		-	-		-		-	0.00%
Construction w/ sales tax								
Crestline Construction Comp LLC	2,307,501.48	2,319,810.23	280,781.39	268,450.97	549,232.36		1,770,577.87	23.68%
		-	-		-		-	0.00%
		-	-		-		-	0.00%
		-	-		-		-	0.00%
		-	-		-		-	0.00%
		-	-		-		-	0.00%
		-	-		-		-	0.00%
Contingency	589,498.52	425,798.52					425,798.52	
Contingency as a Percent of Total	17.10%	12.31%						
Total	**3,447,000.00**	**3,459,308.75**	**575,476.73**	**301,601.14**	**877,077.87**		**2,582,230.88**	25.35%
PROJECT FUNDING BREAKDOWN								
Applicant contribution	254,000.00	266,308.75	254,000.00	-	254,000.00		12,308.75	95.38%
Other Funders 1		-	-		-		-	0.00%
Other Funders 2		-	-		-		-	0.00%
Other Funders 3		-	-		-		-	0.00%
Other Funders 4		-	-		-		-	0.00%
Other Funders 5		-	-		-		-	0.00%
Other Funders 6		-	-		-		-	0.00%
Other Funders 7		-	-		-		-	0.00%
Other Funders 8		-	-		-		-	0.00%
Other Funders 9		-	-		-		-	0.00%
USDA RD Loan	3,193,000.00	3,193,000.00	321,476.73	301,601.14	623,077.87		2,569,922.13	19.51%
USDA RD Grant		-	-		-		-	0.00%
Total	**3,447,000.00**	**3,459,308.75**	**575,476.73**	**301,601.14**	**877,077.87**		**2,582,230.88**	25.35%
FUNDS - DIFFERENCE	-	-	-	-	-		-	

Date of Outlay Report	**3/27/2020**
APPROVAL AND SIGNATURE SECTION	
OWNER'S APPROVAL:	
Mayor Marla Keethler	DATE
ENGINEER/ARCHITECT APPROVAL:	
Dave Jepsen	DATE
USDA RURAL DEVELOPMENT	
CONCURRENCE:	
RD Specialist Name	DATE

Version 3.2 - 12/24/2009

OWNER CERTIFICATION: I certify that to the best of my knowledge and belief the billed costs or disbursements are in accordance with the terms of the project and that the reimbursement represents the Federal share due which has not been previously requested and that an inspection has been performed and all work is in accordance with the terms of the award.

Invoices will be approved by the borrower and their engineer, as appropriate, and submitted to the processing office for concurrence. The review and acceptance of project costs, including construction pay estimates, by USDA Rural Development does not attest to the correctness of the amounts, the quantities shown or that the work has been performed under the terms of the agreements or contracts.

Notes:

CONTRACTOR'S APPLICATION FOR PAYMENT NO. 2

To Owner: **City of White Salmon, Washington**

From Contractor: **Crestline Construction Company, LLC**

Project: **Jewett Water Main Improvements**

Application Period: **February 29, 2020** through **March 25, 2020**

Application Date: **March 25, 2020**

Date of Substantial Completion		**Date Ready for Final Payment**	
Original:	**September 16, 2020**	Original:	**October 16, 2020**
Revised:		Revised:	
On Schedule:	Yes X No	On Schedule:	Yes X No

Change Order Summary

Approved Change Orders

Number	Additions	Deductions
1	$12,308.75	
TOTALS	$12,308.75	$0.00
NET CHANGE BY CHANGE ORDERS	**$12,308.75**	

Current Contract Price

1. Original Contract Price	$2,307,501.48
2. Net Change by Change Orders	$12,308.75
3. Current Contract Price (1 plus 2)	$2,319,810.23

Application For Payment

1. Total Work Completed and Stored to Date (see attached)	$535,836.45
2. Retainage Withheld (5%)	($26,791.82)
3. Retainage Paid	$0.00
4. Sales Tax (7.5%)	$40,187.73
5. Liquidated Damages Withheld	$0.00
6. Less Previous Applications for Payments	($280,781.39)
7. AMOUNT DUE THIS APPLICATION	**$268,450.97**

Contractor's Certification:

The undersigned Contractor certifies, to the best of its knowledge, the following: (1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with Work covered by prior Applications for Payment; (2) Title of all Work, materials, and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to Owner at time of payment free and clear of all Liens, security interests, and encumbrances (except such as are covered by a Bond acceptable to Owner indemnifying Owner against any such Liens, security interest, or encumbrance); (3) All Work covered by this Application for Payment is in accordance with the Contract Documents and not defective; (4) Record Drawings are up-to-date, accurate, and complete for Work performed; and (5) Certified payroll forms are current and account for all applicable personnel.

Dated: 3/26/2020 Contractor: **Crestline Construction Company, LLC**

By: _____

The "Amount Due this Application" is shown on page 1.

Recommended by Engineer

Anderson Perry & Associates, Inc.

Dated: March 26, 2020 By: _____

Approved by Owner

City of White Salmon, Washington

Dated: _____ By: _____

Title: _____

Concurred with by Agency

USDA Rural Development

Dated: _____ By: _____

Title: _____

CONTRACTOR'S APPLICATION FOR PAYMENT NO. 2
CITY OF WHITE SALMON, WASHINGTON
JEWETT WATER MAIN IMPROVEMENTS

Bid Item No.	Description	BID PRICES			PREVIOUS		THIS PERIOD (Calculated)		TOTAL TO DATE (Basis of Payment)	
		Qty.	Unit	Unit Price	Qty.	Amount	Qty.	Amount	Qty.	Amount
1	Mobilization/Demobilization	All Req'd	LS	$75,000.00	75%	$56,250.00	0%	$0.00	75%	$56,250.00
2	Construction Facilities and Temporary Controls	All Req'd	LS	75,000.00	10%	7,500.00	30%	22,500.00	40%	30,000.00
3	ESC Lead	30	DAY	90.00	2	180.00	0	0.00	2	180.00
4	Trench Excavation System Safety System	All Req'd	LS	1,500.00	0%	0.00	100%	1,500.00	100%	1,500.00
5	Potholing All Known Connections, Crossings, and Utility Crossings	All Req'd	LS	26,000.00	4.5%	1,170.00	25%	6,500.00	29.5%	7,670.00
6	Potholing - Additional	30	HR	300.00	0	0.00	7	2,100.00	7	2,100.00
7	Cap Existing Water Mains	23	EA	250.00	0	0.00	0	0.00	0	0.00
8	Abandonment of Existing PRV Vaults	All Req'd	LS	6,900.00	0%	0.00	0%	0.00	0%	0.00
9	Remove Existing Valve Boxes	32	EA	100.00	0	0.00	0	0.00	0	0.00
10	Remove Existing Fire Hydrant	9	EA	850.00	0	0.00	0	0.00	0	0.00
11	Rock Excavation	400	CY	50.00	0	0.00	63	3,150.00	63	3,150.00
12	Foundation Stabilization	40	CY	55.00	0	0.00	0	0.00	0	0.00
13	Asphalt Removal	5,380	SY	2.00	0	0.00	471	942.00	471	942.00
14	Temporary Asphalt Installation and Removal, 2 In. Thick	3,770	LF	13.00	0	0.00	1,440	18,720.00	1,440	18,720.00
15	Temporary Asphalt Installation and Removal, 3 In. Thick	1,610	LF	17.00	0	0.00	0	0.00	0	0.00
16	Repair of Unmarked Storm Drain Line	6	EA	490.00	0	0.00	2	980.00	2	980.00
17	Repair of Unmarked Water Service Line	9	EA	500.00	0	0.00	2	1,000.00	2	1,000.00
18	Repair of Unmarked Sewer Service Line	5	EA	485.00	0	0.00	0	0.00	0	0.00
19	Repair of Unmarked Irrigation System	7	EA	180.00	0	0.00	0	0.00	0	0.00
20	Asphalt Restoration, HMA Cl. 3/8- or 1/2-In. PG 64H-28	2,520	TON	149.00	0	0.00	0	0.00	0	0.00
21	Job Mix Compliance Price Adjustment	EST	CALC	1.00	0	0.00	0	0.00	0	0.00
22	Compaction Price Adjustment	EST	CALC	1.00	0	0.00	0	0.00	0	0.00
23	Cyclic Density Price Adjustment	EST	CALC	1.00	0	0.00	0	0.00	0	0.00
24	Pavement Marking Restoration	All Req'd	LS	2,625.00	0%	0.00	0%	0.00	0%	0.00
25	Concrete Sidewalk Removal and Restoration	140	SY	85.00	0	0.00	0	0.00	0	0.00
26	Concrete Curb Removal and Restoration	250	LF	62.00	0	0.00	0	0.00	0	0.00
27	Gravel Surfacing	310	SY	12.00	0	0.00	0	0.00	0	0.00
28	Erosion Control Matting	40	SY	4.00	0	0.00	0	0.00	0	0.00
29	Landscaping Restoration	1,100	SF	19.00	0	0.00	0	0.00	0	0.00
30	12-In. Water Main	5,240	LF	82.00	0	0.00	1,115	91,430.00	1,115	91,430.00
31	8-In. Water Main	2,960	LF	63.00	0	0.00	0	0.00	0	0.00
32	6-In. Water Main	430	LF	51.00	0	0.00	0	0.00	0	0.00
33	4-In. Water Main	25	LF	75.00	0	0.00	0	0.00	0	0.00
34	2-In. Water Main	120	LF	38.00	0	0.00	0	0.00	0	0.00
35	2-In. Water Main Under Retaining Wall	All Req'd	LS	3,300.00	0%	0.00	0%	0.00	0%	0.00
36	1-In. Water Service Line ***(Revised Per CO-1, Item No. 1-3)***	1,910	LF	25.00	0	0.00	0	0.00	0	0.00
37	Water Service Line, Service Side ***(Revised Per CO-1, Item No. 1-4)***	385	LF	44.00	0	0.00	0	0.00	0	0.00
38	Water Service Line, Main Connection	67	EA	150.00	0	0.00	0	0.00	0	0.00
39	Water Service Line, Meter Connection	69	EA	100.00	0	0.00	0	0.00	0	0.00
40	New or Relocated Water Meter	32	EA	800.00	0	0.00	0	0.00	0	0.00
41	Connection to Existing 8-In. Water Line	2	EA	5,300.00	0	0.00	0	0.00	0	0.00
42	Connection to Existing 6-In. Water Line	16	EA	5,000.00	0	0.00	0	0.00	0	0.00
43	Connection to Existing ≤ 4-In. Water Line	5	EA	4,500.00	0	0.00	0	0.00	0	0.00
44	Non-Potable Crossing, CDF	5	EA	550.00	0	0.00	0	0.00	0	0.00
45	Non-Potable Crossing, Casing Pipe	9	EA	2,000.00	0	0.00	0	0.00	0	0.00

CONTRACTOR'S APPLICATION FOR PAYMENT NO. 2
CITY OF WHITE SALMON, WASHINGTON
JEWETT WATER MAIN IMPROVEMENTS

Bid Item No.	Description	BID PRICES Qty.	Unit	Unit Price	PREVIOUS Qty.	PREVIOUS Amount	THIS PERIOD (Calculated) Qty.	THIS PERIOD (Calculated) Amount	TOTAL TO DATE (Basis of Payment) Qty.	TOTAL TO DATE (Basis of Payment) Amount
46	12-In. Gate Valve	27	EA	$2,300.00	0	$0.00	8	$18,400.00	8	$18,400.00
47	8-In. Gate Valve	28	EA	1,300.00	0	0.00	6	7,800.00	6	7,800.00
48	6-In. Gate Valve	1	EA	975.00	0	0.00	0	0.00	0	0.00
49	4-In. Gate Valve	1	EA	770.00	0	0.00	0	0.00	0	0.00
50	2-In. Gate Valve	4	EA	575.00	0	0.00	0	0.00	0	0.00
51	8-In. Tapping Valve and Sleeve	1	EA	6,300.00	0	0.00	0	0.00	0	0.00
52	Fire Hydrant Assembly and Auxiliary Valve	19	EA	4,100.00	0	0.00	0	0.00	0	0.00
53	Bollard	6	EA	750.00	0	0.00	0	0.00	0	0.00
54	Fire Hydrant Extension	9	LF	1,000.00	0	0.00	0	0.00	0	0.00
55	Additional Ductile Iron Fitting	2,000	LB	3.00	0	0.00	0	0.00	0	0.00
56	Valve Marker	33	EA	50.00	0	0.00	0	0.00	0	0.00
57	Temporary Water Service	All Req'd	LS	8,000.00	0%	0.00	0%	0.00	0%	0.00
58	Jewett Blvd PRV Station	All Req'd	LS	91,000.00	0%	0.00	0%	0.00	0%	0.00
59	Oak St PRV Station	All Req'd	LS	66,500.00	0%	0.00	0%	0.00	0%	0.00
60	Vine St PRV Station	All Req'd	LS	66,500.00	0%	0.00	0%	0.00	0%	0.00
61	Bingen Master Meter Vault	All Req'd	LS	46,500.00	0%	0.00	0%	0.00	0%	0.00
62	Insertion Valve	1	EA	7,750.00	0	0.00	0	0.00	0	0.00
								Total Bid Items	**$**	**240,122.00**

Change Orders:		Qty.	Unit	Unit Price	PREVIOUS Qty.	PREVIOUS Amount	THIS PERIOD Qty.	THIS PERIOD Amount	TOTAL TO DATE Qty.	TOTAL TO DATE Amount
Change Order No. 1										
1-1	Fire Hydrant at Skyline Hospital	All Req'd	LS	4,200.00	0%	0.00	0%	0.00	0%	0.00
1-2	New Storm Drain for Spring Discharge	All Req'd	LS	7,250.00	0%	0.00	0%	0.00	0%	0.00
1-3	1-In. Water Service Line with CTS HDPE Tubing ***(See Bid Item No. 36)***									
1-4	Water Service Line with CTS HDPE Tubing, Service Side ***(See Bid Item No. 37)***									
								Total All Change Orders	**$**	**0.00**

Materials Stored to Date:	Qty.	Unit	Unit Price	PREVIOUS Qty.	PREVIOUS Amount	THIS PERIOD Qty.	THIS PERIOD Amount	TOTAL TO DATE Qty.	TOTAL TO DATE Amount
CL 350 Ductile Iron Pipe (4", 6", 8", and 12") and Restraint Gaskets (Order No. 0847689)				100%	$208,833.06	0%	$0.00	100%	$208,833.06
Pipe, Valves, Fittings, and Other Miscellaneous Materials (see Materials On Hand Worksheet)				0%	0.00	100%	158,940.80	100%	158,940.80
Materials Installed (see Materials On Hand Worksheet)					0.00		(72,059.41)		(72,059.41)
							Total Materials Stored to Date	**$**	**295,714.45**
							TOTAL WORK COMPLETED AND MATERIALS STORED TO DATE	**$**	**535,836.45**

Percent of Contract Price Completed to Date **10%**

Installed Piping

Valve Size 12-in.
Length of Valves 1.17

Bid No.	Description	Stationing Beg.	Stationing End	Total LF	No. of Valves	Length of Valves, LF	Net LF	Percent Complete	Payable LF
30	12-in. Water Main	1550	147	1,403	8	9	1,394	80%	1,115

Begin. Station	Ending Station	Rock Depth	Cu. Ft.
Application for Payment No. 2			
14+03	13+89	1'	42
13+77	13+70	1'	21
11+30	11+23	1'	21
10+95	10+51	1'	132
9+93	9+89	1'	12
8+05	7+99	2'	36
7+99	7+91	1'	24
7+91	7+83	3'	72
7+83	7+65	3'	162
7+65	7+46	4'	228
7+27	7+15	4'	144
7+15	7+05	3'	90
6+97	6+86	4'	108
6+80	6+40	4'	480
6+40	6+27	3'	117
		Total Cu. Ft.	1689
Application for Payment No. 2		**Total CY**	**63**

Invoice	Date	Invoice Amount	Allowed Amount	Basis
Materials On-Hand - Application for Payment No. 1			**$ 208,833.06**	
Invoices Submitted for Application for Payment (AP) No. 2				
847689	2/27/2020	$ 92,945.07	$ 298.76	Other materials covered in AP No. 1
847689-1	2/28/2020	$ 702.50	$ -	Materials part of AP No. 1
847689-2	3/2/2020	$ 149,333.83	$ 33,849.58	Other materials covered in AP No. 1
852536	2/17/2020	$ 46,026.63	$ 46,026.63	
852703	2/24/2020	$ 371.31	$ 371.31	
852791	2/20/2020	$ 1,002.76	$ 1,002.76	
852910	2/26/2020	$ 489.42	$ 489.42	
852942	2/20/2020	$ 135.72	$ 135.72	
853166	2/17/2020	$ 119.89	$ 119.89	
853375	2/17/2020	$ 1,156.21	$ 1,156.21	
854031	2/26/2020	$ 3,153.37	$ 3,153.37	
854101	2/20/2020	$ 751.02	$ 751.02	
854771	2/24/2020	$ 12,892.06	$ 12,892.06	
855930	2/26/2020	$ 5,345.47	$ 5,345.47	
855987	2/26/2020	$ 31,896.08	$ 31,896.08	
855987-1	2/26/2020	$ 3,100.00	$ 3,100.00	
856909	2/28/2020	$ 13,625.60	$ 13,625.60	
857153	2/26/2020	$ 254.91	$ 254.91	
857414	3/5/2020	$ 169.12	$ 169.12	
858496	3/11/2020	$ 645.58	$ 645.58	
858670	3/5/2020	$ 3,657.31	$ 3,657.31	
	Subtotal	$ 367,773.86	**$ 158,940.80**	
	Total		**$ 367,773.86**	

Materials Installed

Installed	Quantity	Unit	Cost, $
12-inch Pipe	1,115	LF	$ 42,352.85
12-Inch Valve	8	EA	$ 21,341.18
8-Inch Valve	6	EA	$ 8,365.38
Materials Installed		Subtotal	**$ 72,059.41**

Net Materials On-Hand **$ 295,714.45** Difference between On Hand & Installed

Unit Cost Determination

Description	Overall Cost	Quantity	Unit	Unit Cost
12-Inch Pipe	$ 200,634.76	5,282	LF	$ 37.98
8-Inch Pipe	$ 90,038.28	3,153	LF	$ 28.56
6-Inch Pipe	$ 1,201.50	462	LF	$ 2.60
4-Inch Pipe	$ 645.58	60	LF	$ 10.76
12-Inch Valve	$ 26,676.48	10	EA	$ 2,667.65
8-Inch Valve	$ 16,730.75	12	EA	$ 1,394.23
6-Inch Valve	$ 6,784.92	12	EA	$ 565.41

See Unit Costs presented in Crestline Construction Company Job History Report

Report Selections:				
Job:	202001	Job Status:	Active
Phase:	ALL	Phase Status:	Active, Inactive, Complete
Cost Type:	ALL	Division:	ALL
Tran. Type:	AP, EQ, GL, IC, JC, PR, OH	Customer:	ALL
Vendor:	FERENT1	Draw Appl. #:	ALL
Employee:	ALL	A/P Contract Labor Hours?	No
Inv. Item:	ALL	Master Job?	No

Crestline Construction Company

Job Cost History Report From Inception To 03/26/20

Including Payroll and A/P Invoices in Progress

UnPosted?	Date	Tran Type	Reference	Description	Additional Information	Hours	Unit of Measure Quantity	Amount
Job: 202001 Jewett Water Line								
	Phase: Cost Type: M Material							
	03/06/20	Y AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0860386 dated 3/ 6/20			162.00
			Subtotal for Phase: Cost Type: M Material			**0.00**	**0.00**	**162.00**
	Phase: 1010 MOBILIZATION/DEMOBILIZATI Cost Type: M Material							
	02/28/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0855466 dated 2/26/20			212.52
			Subtotal for Phase: 1010 MOBILIZATION/DEMOBILIZATI Cost Type: M Material			**0.00**	**0.00**	**212.52**
	Phase: 1300 12-IN. WATER MAIN Cost Type: M Material							
	02/26/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0852536 dated 2/17/20			28,052.95
	02/28/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0854771 dated 2/24/20			3,692.13
	03/17/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0847689 dated 2/27/20		2,651.00 LF	84,799.99
	03/17/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0847689-1 dated 2/28/20			702.50
	03/17/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0847689-2 dated 3/ 2/20		2,631.00 LF	83,387.19
			Subtotal for Phase: 1300 12-IN. WATER MAIN Cost Type: M Material			**0.00**	**5,282.00**	**200,634.76**
	Phase: 1310 8-IN. WATER MAIN Cost Type: M Material							
	02/26/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0852536 dated 2/17/20			17,973.68
	02/26/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0853166 dated 2/17/20			119.89
	02/26/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0853375 dated 2/17/20			1,156.21
	02/28/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0852703 dated 2/24/20			371.31
	02/28/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0854771 dated 2/24/20			4,301.43
	03/05/20	Y AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0857414 dated 3/ 5/20			169.12
	03/17/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0847689-2 dated 3/ 2/20		3,153.00 LF	65,946.64
			Subtotal for Phase: 1310 8-IN. WATER MAIN Cost Type: M Material			**0.00**	**3,153.00**	**90,038.28**
	Phase: 1320 6-IN. WATER MAIN Cost Type: M Material							
	02/28/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0854771 dated 2/24/20			737.22
	03/17/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0847689 dated 2/27/20		462.00 LF	7,078.28
			Subtotal for Phase: 1320 6-IN. WATER MAIN Cost Type: M Material			**0.00**	**462.00**	**7,815.50**
	Phase: 1330 4-IN. WATER MAIN Cost Type: M Material							
	02/28/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0854771 dated 2/24/20			134.70

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Crestline Construction Company

Job Cost History Report From Inception To 03/26/20

Including Payroll and A/P Invoices in Progress

UnPosted?	Date	Tran Type	Reference	Description	Additional Information	Hours	Unit of Measure Quantity	Amount
Job: 202001 Jewett Water Line								
			Phase: 1330 4-IN. WATER MAIN Cost Type: M Material					
	03/17/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0847689 dated 2/27/20		60.00 LF	1,066.80
			Subtotal for Phase: 1330 4-IN. WATER MAIN Cost Type: M Material			**0.00**	**60.00**	**1,201.50**
			Phase: 1340 2-IN. WATER MAIN Cost Type: M Material					
	03/11/20	Y AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0858496 dated 3/11/20			645.58
			Subtotal for Phase: 1340 2-IN. WATER MAIN Cost Type: M Material			**0.00**	**0.00**	**645.58**
			Phase: 1350 2-IN. WATER MAIN UNDER RE Cost Type: M Material					
	03/17/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0855930 dated 2/26/20			304.22
			Subtotal for Phase: 1350 2-IN. WATER MAIN UNDER RE Cost Type: M Material			**0.00**	**0.00**	**304.22**
			Phase: 1360 1-IN. WATER SERVICE LINE Cost Type: M Material					
	03/05/20	Y AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0858670 dated 3/ 5/20			3,657.31
	03/05/20	Y AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0858731 dated 3/ 5/20			~~447.58~~ DS
	03/17/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0855930 dated 2/26/20			680.00
			Subtotal for Phase: 1360 1-IN. WATER SERVICE LINE Cost Type: M Material			**0.00**	**0.00**	**4,784.89**
			Phase: 1370 WATER SERVICE LINE SERVI Cost Type: M Material					
	03/17/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0855930 dated 2/26/20			2,722.58
			Subtotal for Phase: 1370 WATER SERVICE LINE SERVI Cost Type: M Material			**0.00**	**0.00**	**2,722.58**
			Phase: 1380 WATER SERVICE LINE MAIN Cost Type: M Material					
	02/28/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0857153 dated 2/26/20			254.91
	03/17/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0855930 dated 2/26/20			1,438.67
			Subtotal for Phase: 1380 WATER SERVICE LINE MAIN Cost Type: M Material			**0.00**	**0.00**	**1,693.58**
			Phase: 1400 NEW OR RELOCATED WATER ME Cost Type: M Material					
	03/17/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0855930 dated 2/26/20			200.00
			Subtotal for Phase: 1400 NEW OR RELOCATED WATER ME Cost Type: M Material			**0.00**	**0.00**	**200.00**
			Phase: 1460 12-IN. GATE VALVE Cost Type: M Material					
	02/28/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0854771 dated 2/24/20			2,264.86
	02/28/20	Y AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0856909 dated 2/28/20		26.00 EA	4,428.32
	02/28/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0855987-1 dated 2/26/20			3,100.00
	03/17/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0854031 dated 2/26/20			1,383.30
	03/17/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0855987 dated 2/26/20		10.00 EA	15,500.00
			Subtotal for Phase: 1460 12-IN. GATE VALVE Cost Type: M Material			**0.00**	**36.00**	**26,676.48**
			Phase: 1470 8-IN. GATE VALVE Cost Type: M Material					
	02/28/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0854771 dated 2/24/20			1,091.52
	02/28/20	Y AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0856909 dated 2/28/20			4,087.68
	03/17/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0854031 dated 2/26/20			1,503.47
	03/17/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0855987 dated 2/26/20		12.00 EA	10,048.08

Crestline Construction Company

Job Cost History Report From Inception To 03/26/20

Including Payroll and A/P Invoices in Progress

UnPosted?	Date	Tran Type	Reference	Description	Additional Information	Hours	Unit of Measure Quantity	Amount
Job: 202001 Jewett Water Line								
			Subtotal for Phase: 1470 8-IN. GATE VALVE Cost Type: M Material			**0.00**	**12.00**	**16,730.75**
			Phase: 1480 6-IN. GATE VALVE Cost Type: M Material					
	02/28/20	Y AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0856909 dated 2/28/20			170.32
	03/17/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0854031 dated 2/26/20			266.60
	03/17/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0855987 dated 2/26/20		8.00 EA	6,348.00
			Subtotal for Phase: 1480 6-IN. GATE VALVE Cost Type: M Material			**0.00**	**8.00**	**6,784.92**
			Phase: 1490 4-IN. GATE VALVE Cost Type: M Material					
	02/28/20	Y AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0856909 dated 2/28/20			170.32
			Subtotal for Phase: 1490 4-IN. GATE VALVE Cost Type: M Material			**0.00**	**0.00**	**170.32**
			Phase: 1500 2-IN. GATE VALVE Cost Type: M Material					
	02/28/20	Y AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0856909 dated 2/28/20			681.28
			Subtotal for Phase: 1500 2-IN. GATE VALVE Cost Type: M Material			**0.00**	**0.00**	**681.28**
			Phase: 1520 FIRE HYDRANT ASSEMBLY AND Cost Type: M Material					
	02/28/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0854771 dated 2/24/20			670.20
	02/28/20	Y AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0856909 dated 2/28/20			4,087.68
			Subtotal for Phase: 1520 FIRE HYDRANT ASSEMBLY AND Cost Type: M Material			**0.00**	**0.00**	**4,757.88**
			Phase: 1570 TEMPORARY WATER SERVICE Cost Type: M Material					
	02/26/20	Y AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0852910 dated 2/26/20			489.42
	02/28/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0852791 dated 2/20/20			1,002.76
	02/28/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0852942 dated 2/20/20			135.72
	02/28/20	AP	FERENT1	Ferguson Enterprises, Inc#3007	Invoice 0854101 dated 2/20/20			751.02
			Subtotal for Phase: 1570 TEMPORARY WATER SERVICE Cost Type: M Material			**0.00**	**0.00**	**2,378.92**
Job 202001 Recap			**Total for Job: 202001 Jewett Water Line**			**0.00**	**9,013.00**	~~368,595.96~~ 367,773.86

DS
3/26/2020

Hours / Amount	Material	Total
	0.00 **162.00**	***0.00*** **162.00**
1010 MOBILIZATION/DEMOBILIZATI	***0.00*** **212.52**	***0.00*** **212.52**
1300 12-IN. WATER MAIN	***0.00*** **200,634.76**	***0.00*** **200,634.76**
1310 8-IN. WATER MAIN	***0.00*** **90,038.28**	***0.00*** **90,038.28**

UnPosted? | Tran Type | Date | Reference | Description | Additional Information | Hours | Unit of Measure: Quantity | Amount

	Material	Total
1320 6-IN. WATER MAIN	*0.00* 7,815.50	*0.00* 7,815.50
1330 4-IN. WATER MAIN	*0.00* 1,201.50	*0.00* 1,201.50
1340 2-IN. WATER MAIN	*0.00* 645.58	*0.00* 645.58
1350 2-IN. WATER MAIN UNDER RE	*0.00* 304.22	*0.00* 304.22
1360 1-IN. WATER SERVICE LINE	*0.00* 4,784.89	*0.00* 4,784.89
1370 WATER SERVICE LINE SERVI	*0.00* 2,722.58	*0.00* 2,722.58
1380 WATER SERVICE LINE MAIN	*0.00* 1,693.58	*0.00* 1,693.58
1400 NEW OR RELOCATED WATER ME	*0.00* 200.00	*0.00* 200.00
1460 12-IN. GATE VALVE	*0.00* 26,676.48	*0.00* 26,676.48
1470 8-IN. GATE VALVE	*0.00* 16,730.75	*0.00* 16,730.75
1480 6-IN. GATE VALVE	*0.00* 6,784.92	*0.00* 6,784.92
1490 4-IN. GATE VALVE	*0.00* 170.32	*0.00* 170.32
1500 2-IN. GATE VALVE	*0.00* 681.28	*0.00* 681.28

UnPosted?

Date	Tran Type	Reference	Description	Additional Information	Hours	Quantity	Unit of Measure	Amount

	Material	Total
1520 FIRE HYDRANT ASSEMBLY AND	*0.00* 4,757.88	*0.00* 4,757.88
1570 TEMPORARY WATER SERVICE	*0.00* 2,378.92	*0.00* 2,378.92
Total	*0.00* 368,595.96	*0.00* 368,595.96

UnPosted?	Date	Tran Type	Reference	Description	Additional Information	Hours	Unit of Measure: Quantity	Amount
Report Recap by Job				47 records processed	Report Totals	0.00	9,013.00	368,595.96

Hours / Amount	Material	Total
202001 Jewett Water Line	*0.00* 368,595.96	*0.00* 368,595.96
Total	*0.00* 368,595.96	*0.00* 368,595.96

($162.00)

Total: $368,433.96

FERGUSON WATERWORKS
9129 NORTH TYNDALL AVENUE
PORTLAND, OR 97217-6964

Please contact with Questions: 503-240-6747

INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0847689	$92,945.07	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

FERGUSON WATERWORKS #3011
PO BOX 847411
DALLAS, TX 75284-7411

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP TO:

CRESTLINE CONSTRUCTION LLC
1000 E JEWETT BLVD
JEWETT WATER MAIN IMPROVEMENTS
WHITE SALMON, WA 98672

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH
3011	3011	WAE	DUCTILE PIPE	ADK	JEWETT WATER MAIN IMPROVE	02/27/20	ID 73795

ORDERED	SHIPPED		ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
60	60	60	AFT350PP	4 CL350 CL DI FASTITE PIPE	17.780	FT	1066.80
460	440	462	AFT350PU	6 CL350 CL DI FASTITE PIPE	13.580	FT	6273.96
3140		0	AFT350PX	8 CL350 CL DI FASTITE PIPE		FT	0.00
5280	2651	2651	AFT350P12	12 CL350 CL DI FASTITE PIPE	28.490	FT	75526.99
22	22	22	AAFGRGSKTU	6 AMARILLO FAST GRIP GSKT	36.560	EA	804.32
148		0	AAFGRGSKTX	8 AMARILLO FAST GRIP GSKT		EA	0.00
262	132	132	AAFGRGSKT12	12 AMARILLO FAST GRIP GSKT	70.250	EA	9273.00
	AP No. 1			INVOICE SUB-TOTAL			92945.07

LEAD LAW WARNING: IT IS ILLEGAL TO INSTALL PRODUCTS THAT ARE NOT "LEAD FREE" IN ACCORDANCE WITH US FEDERAL OR OTHER APPLICABLE LAW IN POTABLE WATER SYSTEMS ANTICIPATED FOR HUMAN CONSUMPTION. PRODUCTS WITH "NP IN THE DESCRIPTION ARE NOT LEAD FREE AND CAN ONLY BE INSTALLED IN NON-POTABLE APPLICATIONS. BUYER IS SOLELY RESPONSIBLE FOR PRODUCT SELECTION.

Thank you for your business

TERMS:	NET 10TH PROX	ORIGINAL INVOICE	TOTAL DUE	$92,945.07

All past due amounts are subject to a service charge of 1.5% per month, or the maximum allowed by law, if lower. If Buyer fails to pay within terms, then in addition to other remedies, Buyer agrees to pay Seller all costs of collection, including reasonable attorney fees. Complete terms and conditions are available upon request or at https://www.ferguson.com/content/website-info/terms-of-sale, incorporated by reference. Seller may convert checks to ACH.

FERGUSON
WATERWORKS
9129 NORTH TYNDALL AVENUE
PORTLAND, OR 97217-6964

Please contact with Questions: 503-240-6747

INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0847689-1	$702.50	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

FERGUSON WATERWORKS #3011
PO BOX 847411
DALLAS, TX 75284-7411

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP TO:

CRESTLINE CONSTRUCTION LLC
1000 E JEWETT BLVD
JEWETT WATER MAIN IMPROVEMENTS
WHITE SALMON, WA 98672

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH
3011	3011	WAE	DUCTILE PIPE	ADK	JEWETT WATER MAIN IMPROVE	02/28/20	ID 73828

ORDERED	SHIPPED		ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
3140		0	AFT350PX	8 CL350 CL DI FASTITE PIPE		FT	0.00
2629		0	AFT350P12	12 CL350 CL DI FASTITE PIPE		FT	0.00
148		0	AAFGRGSKTX	8 AMARILLO FAST GRIP GSKT		EA	0.00
130	10	10	AAFGRGSKT12	12 AMARILLO FAST GRIP GSKT	70.250	EA	702.50
	AP No. 1						
				INVOICE SUB-TOTAL			**702.50**
							Allowed $ 0.00

LEAD LAW WARNING: IT IS ILLEGAL TO INSTALL PRODUCTS THAT ARE NOT "LEAD FREE" IN ACCORDANCE WITH US FEDERAL OR OTHER APPLICABLE LAW IN POTABLE WATER SYSTEMS ANTICIPATED FOR HUMAN CONSUMPTION. PRODUCTS WITH "NP IN THE DESCRIPTION ARE NOT LEAD FREE AND CAN ONLY BE INSTALLED IN NON-POTABLE APPLICATIONS. BUYER IS SOLELY RESPONSIBLE FOR PRODUCT SELECTION.

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TERMS: NET 10TH PROX **ORIGINAL INVOICE** **TOTAL DUE** **$702.50**

All past due amounts are subject to a service charge of 1.5% per month, or the maximum allowed by law, if lower. If Buyer fails to pay within terms, then in addition to other remedies, Buyer agrees to pay Seller all costs of collection, including reasonable attorney fees. Complete terms and conditions are available upon request or at https://www.ferguson.com/content/website-info/terms-of-sale, incorporated by reference. Seller may convert checks to ACH.

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WATERWORKS
9129 NORTH TYNDALL AVENUE
PORTLAND, OR 97217-6964

Please contact with Questions: 503-240-6747

INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0847689-2	$149,333.83	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

FERGUSON WATERWORKS #3011
PO BOX 847411
DALLAS, TX 75284-7411

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP TO:

CRESTLINE CONSTRUCTION LLC
1000 E JEWETT BLVD
JEWETT WATER MAIN IMPROVEMENTS
WHITE SALMON, WA 98672

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH
3011	3011	WAE	DUCTILE PIPE	ADK	JEWETT WATER MAIN IMPROVE	03/02/20	ID 73859

ORDERED	SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
3140	1520 3153	AFT350PX	8 CL350 CL DI FASTITE PIPE	1,633 LF 18.600	FT	58645.80
2629	2509 2631	AFT350P12	12 CL350 CL DI FASTITE PIPE	122 LF 28.490	FT	74957.19
148	148 148	AAFGRGSKTX	8 AMARILLO FAST GRIP GSKT	0 49.330	EA	7300.84
120	120 120	AAFGRGSKT12	12 AMARILLO FAST GRIP GSKT	0 70.250	EA	8430.00
	AP NO. 1			△		
			INVOICE SUB-TOTAL			**149333.83**

30,373.80
3,475.78
33,849.58
Allowed

LEAD LAW WARNING: IT IS ILLEGAL TO INSTALL PRODUCTS THAT ARE NOT "LEAD FREE" IN ACCORDANCE WITH US FEDERAL OR OTHER APPLICABLE LAW IN POTABLE WATER SYSTEMS ANTICIPATED FOR HUMAN CONSUMPTION. PRODUCTS WITH "NP IN THE DESCRIPTION ARE NOT LEAD FREE AND CAN ONLY BE INSTALLED IN NON-POTABLE APPLICATIONS. BUYER IS SOLELY RESPONSIBLE FOR PRODUCT SELECTION.

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TERMS: NET 10TH PROX **ORIGINAL INVOICE** **TOTAL DUE** **$149,333.83**

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FERGUSON
WATERWORKS
9129 NORTH TYNDALL AVENUE
PORTLAND, OR 97217-6964

Please contact with Questions: 503-240-6747

INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0852536	$46,026.63	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

FERGUSON WATERWORKS #3011
PO BOX 847411
DALLAS, TX 75284-7411

SHIP TO:

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH ID
3011	3011	ORONLY	DUCTILE FITTINGS	ADK	JEWETT WATER MAIN IMPROVE	02/17/20	73651

ORDERED	SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
			12" FITTINGS			
1	1	DFCROSS12X	DOM 12X8 DI 125# C110 FLG CRS	1477.700	EA	1477.70
14	14	DFT12X	DOM 12X8 DI 125# C110 FLG TEE	1393.430	EA	19508.02
10	10	DMJFTLA12U	DOM 12X6 MJXFLG C153 TEE L/A	354.190	EA	3541.90
3	3	DMJ2LA12	DOM 12 MJ C153 22-1/2 BEND L/A	260.330	EA	780.99
6	6	DMJ1LA12	DOM 12 MJ C153 11-1/4 BEND L/A	246.620	EA	1479.72
1	1	DFCR12X	DOM 12X8 DI 125# C110 FLG CONC RED	641.220	EA	641.22
1	1	DFBFRLA12X	DOM 12X8 MJXFLG C110 RED L/A	624.100	EA	624.10
			8" FITTINGS			
5	5	DFTX	DOM 8 DI 125# C110 FLG TEE	709.050	EA	3545.25
4	4	DFTXU	DOM 8X6 DI 125# C110 FLG TEE	712.470	EA	2849.88
1	1	DFTXP	DOM 8X4 DI 125# C110 FLG TEE	602.860	EA	602.86
5	5	DMJFTLAXU	DOM 8X6 MJXFLG C153 TEE L/A	208.260	EA	1041.30
1	1	DMJ9LAX	DOM 8 MJ C153 90 BEND L/A	153.460	EA	153.46
11	11	DMJF4LAX	DOM 8 MJXFE C153 45 BEND L/A	167.850	EA	1846.35
7	7	DMJ4LAX	DOM 8 MJ C153 45 BEND L/A	122.630	EA	858.41
2	2	DMJF2LAX	DOM 8 MJXFE C153 22-1/2 BEND L/A	138.380	EA	276.76
11	11	DMJ2LAX	DOM 8 MJ C153 22-1/2 BEND L/A	119.890	EA	1318.79
3	3	DMJF1LAX	DOM 8 MJXFE C153 11-1/4 BEND L/A	123.310	EA	369.93
5	5	DMJ1LAX	DOM 8 MJ C153 11-1/4 BEND L/A	109.610	EA	548.05
1	1	DMJFALAX	DOM 8 MJXFE C153 ADPT L/A	126.740	EA	126.74
1	1	DMJSCAPLAX	DOM 8 MJ C153 SLD CAP L/A	65.770	EA	65.77
1	1	DBFX	DOM 8 DI C110 125# BLND FLG	121.940	EA	121.94
1	1	DTAPBFXK	8X2 DI C110 125# TAP BLND FLG	150.040	EA	150.04
12	12	DFBFMRLAXU	DOM 8X6 FLGXMJ C110 RED L/A	276.770	EA	3321.24
1	1	DMJRLAXU	DOM 8X6 MJ C153 RED L/A	100.710	EA	100.71
2	2	DFBFMRLAXP	DOM 8X4 FLGXMJ C110 RED L/A	240.460	EA	480.92
2	2	DMJSCAPLAU	DOM 6 MJ C153 SLD CAP L/A	41.790	EA	83.58
2	2	DMJ4LAP	DOM 4 MJ C153 45 BEND L/A	55.500	EA	111.00
			INVOICE SUB-TOTAL			**46026.63**

LEAD LAW WARNING: IT IS ILLEGAL TO INSTALL PRODUCTS THAT ARE NOT "LEAD FREE" IN ACCORDANCE WITH US FEDERAL OR OTHER APPLICABLE LAW IN POTABLE WATER SYSTEMS ANTICIPATED FOR HUMAN CONSUMPTION. PRODUCTS WITH "NP IN THE DESCRIPTION ARE NOT LEAD FREE AND CAN ONLY BE INSTALLED IN NON-POTABLE APPLICATIONS. BUYER IS SOLELY RESPONSIBLE FOR PRODUCT SELECTION.

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TERMS: NET 10TH PROX **ORIGINAL INVOICE** **TOTAL DUE** **$46,026.63**

All past due amounts are subject to a service charge of 1.5% per month, or the maximum allowed by law, if lower. If Buyer fails to pay within terms, then in addition to other remedies, Buyer agrees to pay Seller all costs of collection, including reasonable attorney fees. Complete terms and conditions are available upon request or at https://www.ferguson.com/content/website-info/terms-of-sale, incorporated by reference. Seller may convert checks to ACH.

FERGUSON
WATERWORKS
9129 NORTH TYNDALL AVENUE
PORTLAND, OR 97217-6964

Please contact with Questions: 503-240-6747

INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0852703	$371.31	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

FERGUSON WATERWORKS #3011
PO BOX 847411
DALLAS, TX 75284-7411

SHIP TO:

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH
3011	3011	ORONLY	8" FLG 22-1/2	ADK	JEWETT WATER MAIN IMPROVE	02/24/20	IO 73747

ORDERED	SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
1	1	DF2X	22-1/2 IN SL-9 DOM 8 DI 125# C110 FLG 22-1/2 BEND	371.310	EA	371.31
			INVOICE SUB-TOTAL			**371.31**

LEAD LAW WARNING: IT IS ILLEGAL TO INSTALL PRODUCTS THAT ARE NOT "LEAD FREE" IN ACCORDANCE WITH US FEDERAL OR OTHER APPLICABLE LAW IN POTABLE WATER SYSTEMS ANTICIPATED FOR HUMAN CONSUMPTION. PRODUCTS WITH "NP IN THE DESCRIPTION ARE NOT LEAD FREE AND CAN ONLY BE INSTALLED IN NON-POTABLE APPLICATIONS. BUYER IS SOLELY RESPONSIBLE FOR PRODUCT SELECTION.

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TERMS: NET 10TH PROX **ORIGINAL INVOICE** **TOTAL DUE** **$371.31**

All past due amounts are subject to a service charge of 1.5% per month, or the maximum allowed by law, if lower. If Buyer fails to pay within terms, then in addition to other remedies, Buyer agrees to pay Seller all costs of collection, including reasonable attorney fees. Complete terms and conditions are available upon request or at https://www.ferguson.com/content/website-info/terms-of-sale, incorporated by reference. Seller may convert checks to ACH.

FERGUSON
WATERWORKS
9129 NORTH TYNDALL AVENUE
PORTLAND, OR 97217-6964

Please contact with Questions: 503-240-6747

INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0852791	$1,002.76	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

FERGUSON WATERWORKS #3011
PO BOX 847411
DALLAS, TX 75284-7411

SHIP TO:

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH
3011	3011	ORONLY	BYPASS WATER	ADK	JEWETT WATER MAIN IMPROVE	02/20/20	IO 73706

ORDERED	SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
1	1	FTUM	6X3 DI 125# C110 FLG TEE	166.390	EA	166.39
1	1	MJFALAU	6 MJXFLG C153 ADPT L/A	80.340	EA	80.34
1	1	MJLSLAU	6X12 MJ C153 LONG SLV L/A	90.850	EA	90.85
2	2	FNWR1FFGAU	6 RR 1/8 FF 150# GSKT	3.410	EA	6.82
2	2	FNWNBSZ1U	6 ZN 150# FLG NUT/BLT SET	9.690	EA	19.38
3	3	E1106DSC	6 MEGALUG ACC PKG W/ MJ GSKT F/ DI	43.000	EA	129.00
1	1	MJFALAM	3 MJXFLG C153 ADPT L/A	50.680	EA	50.68
1	1	E1103DSC	3 MEGALUG ACC PKG W/ MJ GSKT F/ DI	35.280	EA	35.28
1	1	IMJTGM	3 SBR MJ IPS TRANS GSKT	14.700	EA	14.70
3	3	FNWR1FFGAM	3 RR 1/8 FF 150# GSKT	1.540	EA	4.62
2	0	FNWNBSZ1M	3 ZN 150# FLG NUT/BLT SET		EA	0.00
1	1	FNWNBSZ3M	3 ZN 300# FLG NUT/BLT SET 300# BOLTS FOR 2 HDPE FLG 5/8"X3-1/2" BOLTS	15.320	EA	15.32
3	3	MB25028NG	LF 1 MIP X COMP BALL CORP ST	72.880	EA	218.64
3	3	M504385	LF 1 SS CTS INS STFNR	2.420	EA	7.26
2	2	TAPBFMK	3X2 DI C110 125# TAP BLND FLG	44.820	EA	89.64
2	2	IGNKU	2X6 GALV STL NIP	17.210	EA	34.42
			INVOICE SUB-TOTAL			**963.34**
			FREIGHT			**39.42**

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TERMS: NET 10TH PROX — ORIGINAL INVOICE — **TOTAL DUE** **$1,002.76**

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PORTLAND, OR 97217-6964

Please contact with Questions: 503-240-6747

INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0852910	$489.42	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

FERGUSON WATERWORKS #3011
PO BOX 847411
DALLAS, TX 75284-7411

SHIP TO:

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH
3011	3011	ORONLY	BYPASS SADDLE	ADK	JEWETT WATER MAIN IMPROVE	02/26/20	ID 73776

ORDERED	SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
3	3	R202NH035042	3X1 IP SPRG WSHR F/ HDPE 2	155.730	EA	467.19
			INVOICE SUB-TOTAL			**467.19**
			FREIGHT			**22.23**

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20200/

Thank you for your business

TERMS: NET 10TH PROX **ORIGINAL INVOICE** **TOTAL DUE** **$489.42**

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WATERWORKS
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PORTLAND, OR 97217-6964

Please contact with Questions: 503-240-6747

INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0852942	$135.72	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

FERGUSON WATERWORKS #3011
PO BOX 847411
DALLAS, TX 75284-7411

SHIP TO:

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH
3011	3011	ORONLY	3" HDPE BYPASS	ADK	JEWETT WATER MAIN IMPROVE	02/20/20	ID 73713

ORDERED	SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
400	0	PEI11AM40	3X40 IPS DR11 HDPE PIPE		C	0.00
2	2	PEI11FLAM	3 IPS PC200 DR11 FLG ADPT	21.180	EA	42.36
2	2	IBUPSDR1103B	3 SDR11 200 PSI DI BU RNG	15.600	EA	31.20
2	2	PEI9B4M	3 IPS PC250 DR9 45	31.080	EA	62.16
			INVOICE SUB-TOTAL			**135.72**

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TERMS: NET 10TH PROX **ORIGINAL INVOICE** **TOTAL DUE** **$135.72**

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WATERWORKS
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PORTLAND, OR 97217-6964

Please contact with Questions: 503-240-6747

INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0853166	$119.89	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

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DALLAS, TX 75284-7411

SHIP TO:

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH ID
3011	3011	ORONLY	DUCTILE FITTINGS	ADK	JEWETT WATER MAIN IMPROVE	02/17/20	73651

ORDERED	SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
1	1	DMJ2LAX	DOM 8 MJ C153 22-1/2 BEND L/A	119.890	EA	119.89
			INVOICE SUB-TOTAL			**119.89**

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TERMS: NET 10TH PROX **ORIGINAL INVOICE** **TOTAL DUE** **$119.89**

All past due amounts are subject to a service charge of 1.5% per month, or the maximum allowed by law, if lower. If Buyer fails to pay within terms, then in addition to other remedies, Buyer agrees to pay Seller all costs of collection, including reasonable attorney fees. Complete terms and conditions are available upon request or at https://www.ferguson.com/content/website-info/terms-of-sale, incorporated by reference. Seller may convert checks to ACH.

FERGUSON
WATERWORKS
9129 NORTH TYNDALL AVENUE
PORTLAND, OR 97217-6964

INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0853375	$1,156.21	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

FERGUSON WATERWORKS #3011
PO BOX 847411
DALLAS, TX 75284-7411

Please contact with Questions: 503-240-6747

SHIP TO:

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH
3011	3011	ORONLY	DUCTILE FITTINGS	ADK	JEWETT WATER MAIN IMPROVE	02/17/20	ID 73651

ORDERED	SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
1	1	DFTXU	DOM 8X6 DI 125# C110 FLG TEE	712.470	EA	712.47
2	2	DMJFALAX	DOM 8 MJXFE C153 ADPT L/A	126.740	EA	253.48
2	2	DMJ4LAU	DOM 6 MJ C153 45 BEND L/A	95.130	EA	190.26
			INVOICE SUB-TOTAL			**1156.21**

LEAD LAW WARNING: IT IS ILLEGAL TO INSTALL PRODUCTS THAT ARE NOT "LEAD FREE" IN ACCORDANCE WITH US FEDERAL OR OTHER APPLICABLE LAW IN POTABLE WATER SYSTEMS ANTICIPATED FOR HUMAN CONSUMPTION. PRODUCTS WITH "NP IN THE DESCRIPTION ARE NOT LEAD FREE AND CAN ONLY BE INSTALLED IN NON-POTABLE APPLICATIONS. BUYER IS SOLELY RESPONSIBLE FOR PRODUCT SELECTION.

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FEB 18 2020
JOB# 202061
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TERMS: NET 10TH PROX **ORIGINAL INVOICE** **TOTAL DUE** **$1,156.21**

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FERGUSON
WATERWORKS
9129 NORTH TYNDALL AVENUE
PORTLAND, OR 97217-6964

INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0854031	$3,153.37	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

FERGUSON WATERWORKS #3011
PO BOX 847411
DALLAS, TX 75284-7411

Please contact with Questions: 503-240-6747

SHIP TO:

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH
3011	3011	ORONLY	BOLTS GASKETS	ADK	JEWETT WATER MAIN IMPROVE	02/26/20	IO 73787

ORDERED	SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
22	22	ATSGA12	12 FF 1/8 TORUSEAL NSF61 FLG GSKT	12.690	EA	279.18
8	8	ATSGA12	12 FF 1/8 TORUSEAL NSF61 FLG GSKT	12.690	EA	101.52
30	30	SP-DFBSETZ12	12 DOM ZN FLG BOLT SET	33.420	EA	1002.60
45	45	ATSGAX	8 FF 1/8 TORUSEAL NSF61 FLG GSKT	9.880	EA	444.60
13	13	ATSGAX	8 FF 1/8 TORUSEAL NSF61 FLG GSKT	9.880	EA	128.44
57	57	T1LBXN1Z08	DOM 8 PLT ZN N&B SET	13.790	EA	786.03
20	20	ATSGAU	6 FF 1/8 TORUSEAL NSF61 FLG GSKT	7.220	EA	144.40
20	20	T1LBXN1Z06	DOM 6 PLT ZN N&B SET	13.330	EA	266.60
			INVOICE SUB-TOTAL			**3153.37**

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1-5010

20200

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TERMS: NET 10TH PROX **ORIGINAL INVOICE** **TOTAL DUE** **$3,153.37**

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PORTLAND, OR 97217-6964

Please contact with Questions: 503-240-6747

INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0854101	$751.02	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

FERGUSON WATERWORKS #3011
PO BOX 847411
DALLAS, TX 75284-7411

SHIP TO:

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH
3011	3011	ORONLY	3" HDPE BYPASS	ADK	JEWETT WATER MAIN IMPROVE	02/20/20	ID 73713

ORDERED	SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
10	10	P7100200S411	2 MPT 304 X SDR11 TRANS COUP	26.250	EA	262.50
6	6	PEI11B9M	3 IPS PC200 DR11 90	18.520	EA	111.12
20	20	PEI11B9K	2 IPS PC200 DR11 90	8.010	EA	160.20
8	8	PEI11B9P	4 IPS PC200 DR11 90	27.150	EA	217.20
			INVOICE SUB-TOTAL			**751.02**

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JOB# 702001
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TERMS: NET 10TH PROX **ORIGINAL INVOICE** **TOTAL DUE** **$751.02**

All past due amounts are subject to a service charge of 1.5% per month, or the maximum allowed by law, if lower. If Buyer fails to pay within terms, then in addition to other remedies, Buyer agrees to pay Seller all costs of collection, including reasonable attorney fees. Complete terms and conditions are available upon request or at https://www.ferguson.com/content/website-info/terms-of-sale, incorporated by reference. Seller may convert checks to ACH.

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INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0854771	$12,892.06	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

FERGUSON WATERWORKS #3011
PO BOX 847411
DALLAS, TX 75284-7411

Please contact with Questions: 503-240-6747

SHIP TO:

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH ID
1614	1614	ORONLY	FORD RESTRAINTS	ADK	JEWETT WATER MAIN IMPROVE	02/24/20	73740

ORDERED	SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
68	68	FUFR1400DA12U	12IN UFR1400-DA-U RESTRAINER	87.110	EA	5923.48
109	109	FUFR1400DA8U	8IN UFR1400-DA-U RESTRAINER	45.480	EA	4957.32
56	56	FUFR1400DA6U	6IN UFR1400-DA-U RESTRAINER	33.510	EA	1876.56
5	5	FUFR1400DA4U	4IN UFR1400-DA-U RESTRAINER	26.940	EA	134.70
			INVOICE SUB-TOTAL			**12892.06**

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15010
202001

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TERMS: **NET 10TH PROX** **ORIGINAL INVOICE** **TOTAL DUE** **$12,892.06**

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WATERWORKS
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PORTLAND, OR 97217-6964

Please contact with Questions: 503-240-6747

INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0855930	$5,345.47	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

FERGUSON WATERWORKS #3011
PO BOX 847411
DALLAS, TX 75284-7411

SHIP TO:

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH
3011	3011	ORONLY	WATER SERVICE	ADK	JEWETT WATER MAIN IMPROVE	02/26/20	IO 73787

ORDERED	SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
			Source Order#: 0855496			
			BID ITEM 34			
			BID ITEM 35			
100	100	AX42250100	2X100 CTS 250 PSI NSF BLUE	1.200	FT	120.00
2	2	MH15403NK	LF 2 CTS COMP UNION	85.790	EA	171.58
2	2	M506141	LF 2 CTS SS INS STFNR	6.320	EA	12.64
			BID ITEM 37			
46	46	MB25008NG	LF 1 CC X CTS COMP BALL CORP ST	56.230	EA	2586.58
			BID ITEM 38			
39	39	MH15428NG	LF 1 CTS COMP X MIP COUP	15.990	EA	623.61
25	25	MH15403NG	LF 1 CTS COMP UNION	18.020	EA	450.50
196	196	M504385	LF 1 SS CTS INS STFNR	1.860	EA	364.56
			BID ITEM 40			
100	100	AX42250100	2X100 CTS 250 PSI NSF BLUE	1.320	FT	132.00
200	200	AX41250100	1X100 CTS 250 PSI NSF BLUE	0.340	FT	68.00
			BID OPTIONS			
			BID ITEM 04			
2000	2000	AX41250100	1X100 CTS 250 PSI NSF BLUE	0.340	FT	680.00
			BID ITEM 05			
400	400	AX41250100	1X100 CTS 250 PSI NSF BLUE	0.340	FT	136.00
			INVOICE SUB-TOTAL			**5345.47**

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1-5340

2020CJ

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TERMS: NET 10TH PROX **ORIGINAL INVOICE** **TOTAL DUE** **$5,345.47**

All past due amounts are subject to a service charge of 1.5% per month, or the maximum allowed by law, if lower. If Buyer fails to pay within terms, then in addition to other remedies, Buyer agrees to pay Seller all costs of collection, including reasonable attorney fees. Complete terms and conditions are available upon request or at https://www.ferguson.com/content/website-info/terms-of-sale, incorporated by reference. Seller may convert checks to ACH.

FERGUSON
WATERWORKS
9129 NORTH TYNDALL AVENUE
PORTLAND, OR 97217-6964

Please contact with Questions: 503-240-6747

INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0855987	$31,896.08	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

FERGUSON WATERWORKS #3011
PO BOX 847411
DALLAS, TX 75284-7411

SHIP TO:

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH
3011	3011	ORONLY	MUELLER GATE VLV	ADK	JEWETT WATER MAIN IMPROVE	02/26/20	IO 73787

ORDERED	SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
			Source Order#: 0855954			
2	0	MA23611912OL	12 DI MJ X FLG RW OL GATE VLV L/A		EA	0.00
10	10	MA23611912OL	12 DI MJ X FLG RW OL GATE VLV L/A	1550.000	EA	15500.00
9	9	MA236119XOL	8 MJ X FLG RW OL GATE VLV L/A	825.000	EA	7425.00
3	3	MA236106XOL	8 FLG RW OL GATE VLV W/ H/WHL	874.360	EA	2623.08
12	12	MA236119UOL	6 DI MJ X FLG RW OL GATE VLV L/A	529.000	EA	6348.00
			INVOICE SUB-TOTAL			**31896.08**

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1-5019

202001

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TERMS: NET 10TH PROX **ORIGINAL INVOICE** **TOTAL DUE** **$31,896.08**

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FERGUSON
WATERWORKS
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PORTLAND, OR 97217-6964

INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0855987-1	$3,100.00	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

FERGUSON WATERWORKS #3011
PO BOX 847411
DALLAS, TX 75284-7411

Please contact with Questions: 503-240-6747

SHIP TO:

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH
3011	3011	ORONLY	MUELLER GATE VLV	ADK	JEWETT WATER MAIN IMPROVE	02/26/20	IO 73787

ORDERED	SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
			Source Order#: 0855954			
2	2	MA23611912OL	12 DI MJ X FLG RW OL GATE VLV L/A	1550.000	EA	3100.00
			INVOICE SUB-TOTAL			**3100.00**

LEAD LAW WARNING: IT IS ILLEGAL TO INSTALL PRODUCTS THAT ARE NOT "LEAD FREE" IN ACCORDANCE WITH US FEDERAL OR OTHER APPLICABLE LAW IN POTABLE WATER SYSTEMS ANTICIPATED FOR HUMAN CONSUMPTION. PRODUCTS WITH "NP IN THE DESCRIPTION ARE NOT LEAD FREE AND CAN ONLY BE INSTALLED IN NON-POTABLE APPLICATIONS. BUYER IS SOLELY RESPONSIBLE FOR PRODUCT SELECTION.

1-5010
20300/

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TERMS: NET 10TH PROX **ORIGINAL INVOICE** **TOTAL DUE** **$3,100.00**

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FERGUSON
WATERWORKS
9129 NORTH TYNDALL AVENUE
PORTLAND, OR 97217-6964

Please contact with Questions: 503-240-6747

INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0856909	$13,625.60	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

FERGUSON WATERWORKS #3011
PO BOX 847411
DALLAS, TX 75284-7411

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP TO:

CRESTLINE CONSTRUCTION LLC
GRAVEL LOT WEST OF
65205 HWY 14
WHITE SALMON, WA 98672

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH ID
3011	3011	WAE	VALVE CANS	ADK	JEWETT WATER MAIN IMPROVE	02/28/20	73824

ORDERED	SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
80	80	E366952	DOM VLV BX LID WTR 940	20.400	EA	1632.00
80	80	E366918	DOM 18 VLV BX TOP 940	83.730	EA	6698.40
80	80	E85556024U	DOM 24 VLV BX BSE UND 940 & 045	66.190	EA	5295.20
			INVOICE SUB-TOTAL			**13625.60**

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TERMS: NET 10TH PROX **ORIGINAL INVOICE** **TOTAL DUE** **$13,625.60**

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FERGUSON
WATERWORKS
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PORTLAND, OR 97217-6964

INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0857153	$254.91	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

FERGUSON WATERWORKS #3011
PO BOX 847411
DALLAS, TX 75284-7411

Please contact with Questions: 503-240-6747

SHIP TO:

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH
3011	3011	ORONLY	WATER SERVICE	ADK	JEWETT WATER MAIN IMPROVE	02/26/20	IO 73787

ORDERED	SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
			Source Order#: 0855496			
			BID ITEM 36			
2000	2000	TW12SLDUFBL500	12GA SLD COP UF WIRE BLUE 500	77.460	M	154.92
2	2	PSD3105B52	3X1000 UG DET WTR BLUE	30.630	EA	61.26
			BID ITEM 37			
500	500	TW12SLDUFBL500	12GA SLD COP UF WIRE BLUE 500	77.460	M	38.73
			INVOICE SUB-TOTAL			**254.91**

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1-5070
202004

Thank you for your business

TERMS: NET 10TH PROX **ORIGINAL INVOICE** **TOTAL DUE** **$254.91**

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INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0857414	$169.12	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

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PO BOX 847411
DALLAS, TX 75284-7411

SHIP TO:

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH
3011	3011	ORONLY	FOSTER ADAPTER	ADK	JEWETT WATER MAIN IMPROVE	03/05/20	IO 73930

ORDERED	SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
1	1	I8FABC	8 FOSTER ADPT W/ MJ ACC KIT	169.120	EA	169.12
			INVOICE SUB-TOTAL			**169.12**

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MAR 9 2020
JOB# 202004
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TERMS: NET 10TH PROX — ORIGINAL INVOICE — **TOTAL DUE** **$169.12**

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FERGUSON
WATERWORKS
9129 NORTH TYNDALL AVENUE
PORTLAND, OR 97217-6964

Please contact with Questions: 503-240-6747

INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0858496	$645.58	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

FERGUSON WATERWORKS #3011
PO BOX 847411
DALLAS, TX 75284-7411

SHIP TO:

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH
3011	3011	ORONLY	ROMAC SADDLE	ADK	JEWETT WATER MAIN IMPROVE	03/11/20	ID 74002

ORDERED	SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
2	2	R202S143872	12X2 IP DBL SS STRP SDL	165.800	EA	331.60
2	2	R202S090572	8X2 IP DBL SS STRP SDL 8.63-9.05	127.890	EA	255.78
1	1	R50102380238500	2.38X2.38X5 COUP W/ SHOPCOAT N&B	58.200	EA	58.20
			INVOICE SUB-TOTAL			**645.58**

LEAD LAW WARNING: IT IS ILLEGAL TO INSTALL PRODUCTS THAT ARE NOT "LEAD FREE" IN ACCORDANCE WITH US FEDERAL OR OTHER APPLICABLE LAW IN POTABLE WATER SYSTEMS ANTICIPATED FOR HUMAN CONSUMPTION. PRODUCTS WITH "NP IN THE DESCRIPTION ARE NOT LEAD FREE AND CAN ONLY BE INSTALLED IN NON-POTABLE APPLICATIONS. BUYER IS SOLELY RESPONSIBLE FOR PRODUCT SELECTION.

RECEIVED
MAR 1 2 2020
JOB# 202001
COST CODE
AMT $ PM

Thank you for your business

TERMS: NET 10TH PROX **ORIGINAL INVOICE** **TOTAL DUE** **$645.58**

All past due amounts are subject to a service charge of 1.5% per month, or the maximum allowed by law, if lower. If Buyer fails to pay within terms, then in addition to other remedies, Buyer agrees to pay Seller all costs of collection, including reasonable attorney fees. Complete terms and conditions are available upon request or at https://www.ferguson.com/content/website-info/terms-of-sale, incorporated by reference. Seller may convert checks to ACH.

FERGUSON
WATERWORKS
9129 NORTH TYNDALL AVENUE
PORTLAND, OR 97217-6964

Please contact with Questions: 503-240-6747

INVOICE NUMBER	TOTAL DUE	CUSTOMER	PAGE
0858670	$3,657.31	69347	1 of 1

PLEASE REFER TO INVOICE NUMBER WHEN MAKING PAYMENT AND REMIT TO:

FERGUSON WATERWORKS #3011
PO BOX 847411
DALLAS, TX 75284-7411

SHIP TO:

CRESTLINE CONSTRUCTION LLC
JEWETT WATER MAIN IMPROVE
3600 CRATES WAY SUITE 100
THE DALLES, OR 97058-3543

SHIP WHSE.	SELL WHSE.	TAX CODE	CUSTOMER ORDER NUMBER	SALESMAN	JOB NAME	INVOICE DATE	BATCH
3011	3011	ORONLY	WATER SERVICE	ADK	JEWETT WATER MAIN IMPROVE	03/05/20	IO 73930

ORDERED	SHIPPED	ITEM NUMBER	DESCRIPTION	UNIT PRICE	UM	AMOUNT
			Source Order#: 0855496			
17	17	MB25008NG	LF 1 CC X CTS COMP BALL CORP ST BID ITEM 38	56.230	EA	955.91
4	4	GBRNKM	LF 2X3 BRS NIP GBL	10.920	EA	43.68
4	4	MH15428NK	LF 2 CTS COMP X MIP COUP BID ITEM 40	64.440	EA	257.76
12	12	MH15403NK	LF 2 CTS COMP UNION	85.790	EA	1029.48
8	8	MH15428NK	LF 2 CTS COMP X MIP COUP	64.440	EA	515.52
32	32	M506141	LF 2 CTS SS INS STFNR	6.320	EA	202.24
8	8	IBRLF9K	LF 2 BRS 90 ELL	47.250	EA	378.00
4	4	IBRLFS9K	LF 2 BRS ST 90 ELL	68.680	EA	274.72
			INVOICE SUB-TOTAL			**3657.31**

LEAD LAW WARNING: IT IS ILLEGAL TO INSTALL PRODUCTS THAT ARE NOT "LEAD FREE" IN ACCORDANCE WITH US FEDERAL OR OTHER APPLICABLE LAW IN POTABLE WATER SYSTEMS ANTICIPATED FOR HUMAN CONSUMPTION. PRODUCTS WITH "NP IN THE DESCRIPTION ARE NOT LEAD FREE AND CAN ONLY BE INSTALLED IN NON-POTABLE APPLICATIONS. BUYER IS SOLELY RESPONSIBLE FOR PRODUCT SELECTION.

RECEIVED
MAR 9 2020
JOB# 40209
COST CODE
AMTS PM

Thank you for your business

TERMS: NET 10TH PROX — ORIGINAL INVOICE — **TOTAL DUE** **$3,657.31**

All past due amounts are subject to a service charge of 1.5% per month, or the maximum allowed by law, if lower. If Buyer fails to pay within terms, then in addition to other remedies, Buyer agrees to pay Seller all costs of collection, including reasonable attorney fees. Complete terms and conditions are available upon request or at https://www.ferguson.com/content/website-info/terms-of-sale, incorporated by reference. Seller may convert checks to ACH.

Item Attachment Documents:

4. Personal Services Contract - Gray & Osborne Inc., Transportation Engineering
   a. Presentation and Discussion
   b. Action

AGENDA MEMO

Needs Legal Review:	Yes
Council Meeting Date:	April 1, 2020
Agenda Item:	Personal Services Contract – Transportation Engineering – Gray & Osborne, Inc.

Action Required
Authorize the Mayor to sign Personal Services Contract with Gray & Osborne, Inc. for Transportation Engineering Services.

Motion
Move to authorize the Mayor to sign Personal Services Contract with Gray & Osborne, Inc. for a master contract and fees as established in Exhibit A for a two-year period ending December 31, 2021 for Transportation Engineering Services.

Explanation of Issue
The City of White Salmon requested Statements of Qualifications from engineering firms for General Civil Engineering, Transportation Engineering, Water Engineering, Wastewater Engineering, Hydrogeological Engineering and Services, and Surveying Services. Sixteen companies submitted Statements of Qualifications. The SOQ's were evaluated under each category.

Based on the evaluations and rankings of the companies, staff finds that Gray & Osborne, Inc. is a highly qualified firm to provide the transportation engineering services the city needs for 2020-2021 period.

Staff Recommendation
Staff recommends the city council authorize the Mayor to sign a Personal Services Contract with Gray & Osborne, Inc. for the city's transportation engineering services.

CITY OF WHITE SALMON
PERSONAL SERVICES CONTRACT

This contract is between the City of White Salmon and Gray & Osborne, Inc., hereafter called Contractor. City's Contract Administrator for this contract is Patrick Munyan, City Administrator.

Effective Date and Duration
This contract shall become effective on the date at which every party has signed this contract. This contract shall expire, unless otherwise terminated or extended on December 31, 2021.

Statement of Work
(a) This contract is for Transportation Engineering Services for a two-year period.
(b) Each specific project or service provided under this contract will require a task order/scope of work with estimated hours and costs associated with the project or service to be approved by the City of White salmon.

Consideration
(a) City agrees to pay Contractor for time, materials and expenses incurred in the performance of duties as identified in each approved task order/scope of work.
(b) Monthly invoices shall be submitted to the City itemizing all time, materials and expenses incurred as planning consultant to the City, breaking down such expenses by project. Costs for time, materials and expenses shall be pursuant to Gray & Osborne Inc.'s fee schedule as provided in Exhibit A.

Amendments
The terms of this contract shall not be waived, altered, modified, supplemented or amended in any manner whatsoever except by written instrument signed by both parties.

Terms and conditions listed on page two

CONTRACTOR DATA, CERTIFICATION, AND SIGNATURE

Name (please print): Gray & Osborne, Inc.
Federal Tax ID No: 91-0890718

Address: 1130 Rainer Ave. So., Suite 300
Seattle, WA 98144
Phone: 206-284-0860
Email: mjohnson@g-o.com

Citizenship: Non resident alien	☐	Yes	X	No
Business Designation (Check one):	☐	Individual	☐	Sole Proprietorship
	☐	Partnership	☐	Estate/Trust
	X	Corporation	☐	Public Service Corporation
	☐	Governmental/Nonprofit		

Payment information will be reported to the IRS under the name and taxpayer ID number provided above. Information must be provided prior to contract approval. Information not matching IRS records could subject Contractor to 31 percent backup withholding.

I, the undersigned: agree to perform work outlined in this contract in accordance to the terms and conditions (listed on the front and backside and made part of this contract by reference) and the statement of work made part of this contract by reference hereby certify under penalty of perjury that I/my business am not/is no in violation of any Washington tax laws; and thereby certify I am an independent contractor. As noted in No. 21 of the Standard Contract Provisions, where required for Federal funding, Contractor certifications and signatures apply to Exhibits C and D.

Approved by the Contractor: _____ _____
Signature Date

Approved by the City: _____ _____
Marla Keethler, Mayor Date

Approved by Council: _____
Date

STANDARD CONTRACT PROVISIONS FOR PERSONAL SERVICES (NON-PERS MEMBERS)

1. Retirement System Status

Contractor is not a contributing member of the Public Employees' Retirement System and is responsible for any federal or state taxes applicable to any comprehensive or payments paid to contractor under this contract. Contractor is not eligible for any benefits from these contract payments of federal Social Security, unemployment insurance, or workers compensation except as a self-employed individual.

2. Effective Date and Duration

The passage of the contract expiration date (as recorded on reverse side) shall not extinguish, prejudice or limit either party's right to enforce this contract with respect to any default or defect in performance that has not been cured.

3. Government Employment Status

If this payment is to be charged against federal funds, Contractor certifies it is not currently employed by the federal government.

4. Subcontractors and Assignment

Contractor shall not enter into any subcontractors for any other work scheduled under this contract without prior written consent of the City. Subcontractors exceeding $20,000 in cost shall contain all required provisions of the prime contract.

5. Dual Payment

Contractor shall not be compensated for work performed under this contract by any other municipality of the State of Washington.

6. Funds Available and Authorized

City certifies at the time of contract execution that sufficient funds are available and authorized for expenditure to finance costs of this contract within the City's appropriation or limitation.

7. Termination

(a) This contract may be terminated by mutual consent of both parties, or by the City upon 30 days' notice in writing and delivered by certified mail or in person.

(b) City may terminate this contract effective upon delivery of written notice to the Contractor, or at such later date as may be established by the City, under any of the following conditions:

(i) If City funding from federal, state or other sources is not obtained and continued at levels sufficient to allow for the purchase of the indicated quality of services. The contract may be modified to accommodate a reduction in funds.

(ii) If federal or state regulations or guidelines are modified, changes or interpreted in such away that the services are no longer allowable or appropriate for purchase under this contract or are no longer eligible for the funding proposed for payments authorized by this contract.

(iii) If any license or certificate required by law or regulation to be held by the Contractor to provide the services required by this contract is for any reason denied, revoked or no renewed. Any such termination of this contract under subparagraphs 7(a) or 7(b) shall be without prejudice to any obligations or liabilities of either party already accrued prior to such termination.

(c) The City may terminate the whole or any part of this agreement by written notice of default (including breach of contract) to the Contractor.

(i) If the Contractor fails to provide services called for by this contract within the time specified herein or any extension thereof, or

(ii) If the Contractor fails to perform any of the other provisions of this contract, or so fails to pursue the work as to endanger performance of this contract in accordance with its terms, and after receipt of written notice from the City, fails to correct such failures within 10 days or such other period as the City may authorize.

The rights and remedies of the City provided in the above clause related to defaults (including breach of contract) by the Contractor shall not be exclusive and are in addition to any other rights and remedies provide by law or under this contract.

8. Access to Records

City, the Secretary of State's Office of the State of Washington, the federal government, and their duly authorized representatives shall have access to the books, documents, papers and records of the Contractor directly pertinent to the specific contract for the purpose of making audit, examination, excerpts and transcripts of the period of three (3) years after final payment. Copies of applicable records shall be made available upon request. Payment for cost of copies is reimbursable by City.

9. State Tort Claims Act

Contractor is not an officer, employee or agent of the State or City as those terms are used in RCW 4.96.020.

10. Compliance with Applicable Law

Contractor shall comply with all federal, state and local laws and ordinances applicable to the work under this contract.

11 Indemnification

(a) Indemnity-Claims for Other than Professional Liability

Contractor shall defend, save and hold harmless the City their officers, agents and employees form all claims, suites or actions of whatsoever nature, including international acts resulting from or arising out of the Contractor or its subcontractors, agents or employees under this agreement. The Contractor waives, with respect to the City, its immunity under industrial insurance, Title 51 RCW. This waiver has been mutually negotiated by the parties. This indemnification shall survive the expiration or termination of this Agreement.

(b). Indemnity-Claims for Professional Liability

Contractor shall defend, save and hold harmless the City, their officers, agents and employees, from all claims, suits or actions arising out of the professional negligent acts, errors or omissions of Contractor or its subcontractors and subconsultants, agents or employees in performance of professional services under this agreement.

12. Insurance

(a) Liability Insurance. Contractor shall maintain occurrence form commercial general liability and automobile liability insurance for the protection of he contractor, the City, its commissioners, employees, and agents. Coverage shall include personal injury, bodily injury, including death, and broad form property damage, including loss of use of property, occurring in the course of or in any way related to Contractor's operations, in an amount not less than $1,000,000.00 combined single limit per occurrence. Such insurance shall name the City as an additional insured with a coverage endorsement at least as broad as ISO CG 20 10 10 01.

(b) Workers' Compensation Coverage. Contractor certifies that Contractor has qualified for State of Washington Workers' Compensation coverage for all Contractor's employees who are subject to Washington's Workers' Compensation statute, either as a carrier-insured employer as provided by RCW Chapter 51 or as a self-insured employer.

(c) Certificates. Within 10 calendar days after full execution of this contract, Contractor shall furnish the City with certificates evidencing the date, amount, and type of insurance required by this contract. All policies shall provide for not less than thirty (30) days' written notice to the City before they may be canceled.

(d) Primary Coverage. The coverage provided by insurance required under this contract shall be primary, and shall not seek contribution from any insurance or self-insurance carried by the City.

13. Ownership of Work Product

All work products of the Contractor which result from this contract are the exclusive property of the City.

14. Nondiscrimination

Contractor agrees to comply with all applicable requirements of federal civil rights and rehabilitation statutes, rules and regulations. Contractor also shall comply with the Americana with Disabilities Act of 1990 (Pub L No. 101-336) including Title II of that Act, and all regulations and administrative rules established pursuant to that law.

15. Successors in Interest

The provisions of this contract shall be binding upon and shall inure to the benefit of the parties hereto, and their respective successors and assigns.

16. Execution and Counterparts

This contact may be executed in several counterparts, each of which shall be an original, all of which shall constitute but one and the same instrument.

17. Force Majeure

Neither party shall be held responsible for delay or default caused by fire, civil unrest, labor unrest, acts of God and war which is beyond such party's reasonable control. Each party shall, however, make all reasonable efforts to remove or eliminate such a cause of delay or default and shall, upon the cessation of the cause, diligently pursue performance or its obligations under the contract.

18. Severability

The parties agree that if any terms or provisions of this contract is declared by the court of competent jurisdiction to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the contract did not contain the particular terms or provisions held to be invalid.

19. Errors

The contractor shall perform such additional work as may be necessary to correct errors in the work required under this contract without undue delays and without additional cost.

20. Waiver

The failure of the City to enforce any provisions of the contract shall not constitute a waiver by the City of that or any other provision.

21. Other Requirements

When federal funds are involved in this contract, Contractor Debarment and Non-Collusion certifications and signatures apply to Exhibit C and D.

22. Governing Law

The provisions of this contract shall be construed in accordance with the provisions of the laws of the State of Washington. Any action or suit involving any question arising under this contract must be brought in the appropriate court of the state of Washington, Skamania County.

23. Attorney Fees

The prevailing party shall be entitled to reasonable attorney fees at trial and on appeal in an action brought with respect to this contact.

24. Merger Clause

THIS CONTRACT AND ATTACHED EXHIBITS CONSTITUTES THE ENTIRE AGREEMENT BETWEEN THE PARTIES. NO WAIVER, CONSENT, MODIFICATION OR CHANGE OF TERMS OF THE CONTRACT SHALL BIND EITHER PARTY UNLESS IN WRITING AND SIGNED BY BOTH PARTIES. SUCH WAIVER, CONSENT, MODIFICATION OR CHANGE IF MADE, SHALL BE EFFECTIVE ONLY IN SPECIFIC INSTANCES AND FOR THE SPECIFIC PURPOSE GIVEN. THERE ARE NO UNDERSTANDINGS, AGREEMENTS OR REPRESENTATIONS, ORAL OR WRITTEN, NOT SPECIFIED HEREIN REGARDING THIS CONTRACT. CONTRACTOR, BY THE SIGNATURE OF ITS AUTHORIZED REPRESENTATIVE, HEREBY ACKNOWLEDGES THAT HE/SHE HAS READ THIS CONTRACT, UNDERSTANDS IT AND AGREES TO BE BOUND BY ITS TERMS AND CONDITONS.

EXHIBIT "A"

GRAY & OSBORNE, INC.

PROFESSIONAL ENGINEERING SERVICES CONTRACT
FULLY BURDENED BILLING RATES*
THROUGH JUNE 15, 2020**

Employee Classification	Fully Burdened Billing Rates		
AutoCAD/GIS Technician/Engineering Intern	$ 50.00	to	$132.00
Electrical Engineer	$120.00	to	$190.00
Structural Engineer	$110.00	to	$167.00
Environmental Technician/Specialist	$ 83.00	to	$138.00
Engineer-In-Training	$ 85.00	to	$133.00
Civil Engineer	$93.00	to	$135.00
Project Engineer	$119.00	to	$148.00
Project Manager	$119.00	to	$200.00
Principal-in-Charge	$135.00	to	$200.00
Resident Engineer	$122.00	to	$167.00
Field Inspector	$ 81.00	to	$145.00
Field Survey (2 Person)***	$170.00	to	$224.00
Field Survey (3 Person)***	$265.00	to	$306.00
Professional Land Surveyor	$118.00	to	$152.00
Secretary/Word Processor***	N/A		

* Fully Burdened Billing Rates include overhead and profit.

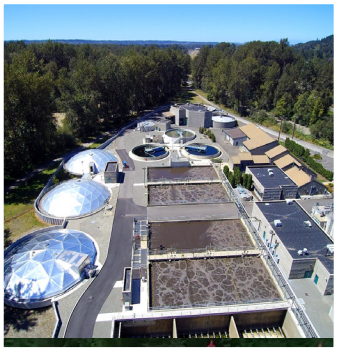
** Updated annually, together with the overhead.

All actual out-of-pocket expenses incurred directly on the project are added to the billing. The billing is based on direct out-of-pocket expenses; meals, lodging, laboratory testing and transportation. The transportation rate is $0.58 per mile or the current maximum IRS rate without receipt IRS Section 162(a).

*** Administration expenses include secretarial and clerical work; GIS, CADD, and computer equipment; owned survey equipment and tools (stakes, hubs, lath, etc. – Note: mileage billed separately at rate noted); miscellaneous administration tasks; facsimiles; telephone; postage; and printing costs, which are less than $150.

Statement of Qualifications

City of White Salmon
2020 Engineering Services



February 2020

GRAY & OSBORNE, INC. 85th ANNIVERSARY 1935 2020 CONSULTING ENGINEERS

Gray & Osborne, Inc.
CONSULTING ENGINEERS

Gray & Osborne, Inc.
CONSULTING ENGINEERS

February 18, 2020

Jan Brending
Clerk Treasurer
City of White Salmon
PO Box 2139
White Salmon WA 98672

SUBJECT: STATEMENT OF QUALIFICATIONS, 2020 ENGINEERING SERVICES ROSTER
CITY OF WHITE SALMON, KLICKITAT COUNTY, WASHINGTON
G&O #PR202.24

Dear Ms. Brending:

Gray & Osborne is pleased to submit a Statement of Qualifications for Engineering Services for the City of White Salmon. Our Statement of Qualifications is arranged as follows: Introduction, Project Examples, Project Team Qualifications, and References.

We have the expertise to provide services in the following categories as listed in your RFQ:

- Transportation
- Water
- Wastewater
- Water Rights/hydrogeological
- General Civil Engineering
- Surveying Services

In 2018 we were selected as the City's consulting engineer and have actively provided our services in varying disciplines when requested by the City. We look forward to continuing to provide our engineering consulting services to the City in 2020 if selected once again.

If you have any questions about our qualifications and experience, we would be happy to meet with the City at your convenience. My contact information is 360.571.3350 or rwalters@g-o.com.

Sincerely,

GRAY & OSBORNE, INC.

Ryan Walters, P.E.

RW/dlp
Encl.

ABOUT GRAY & OSBORNE

Gray & Osborne has helped cities, special purpose districts, and government agencies deliver successful public works projects to their communities since 1935. Our staff of over 145 experienced design professionals are located in six offices throughout Washington State and provide a broad range of engineering services. We are well known for developing innovative engineering solutions within our clients' schedule and budget.

Our Services Include

- Utilities
- Water
- Wastewater
- Surface Water
- Transportation
- Right-of-Way
- Environmental Services and Permitting
- Architectural/Structural
- Electrical
- Construction Management
- Survey
- On-Call Engineering
- GIS Services
- Financial Analysis
- Development Review Services
- Grant and Loan Assistance

Six offices across Washington State

- A wide range of engineering disciplines.
- Personal attention of local staff and resources of a large regional firm.
- The Vancouver office would be the lead office for the City of White Salmon.
- Ryan Walters, P.E., would serve as Project Manager 360.571.3350 rwalters@g-o.com

SUMMARY OF SERVICES

Water

Water Comprehensive Planning
Conservation Planning
Source Development
Water Treatment Design
Pilot Plant Studies
Hydraulic Modeling
Booster Stations
Storage Reservoirs
Groundwater Supply & Treatment
Reservoir & Dam Design
Disinfection Systems
Irrigation Systems

Wastewater

Sewer Comprehensive Planning
Infiltration & Inflow Studies
Hydraulic Modeling
Lift Station Design
Wastewater Treatment Planning & Design
Effluent Disposal
Outfall/Mixing Zone Studies
Biosolids Management
Wastewater Reuse & Ultraviolet Disinfection
Treatment Plant Capacity Analysis

Stormwater

Surface Water Comprehensive Planning
Stormwater Management
NPDES Phase II Compliance
Hydraulic & Hydrologic Modeling
Drainage System Design
Detention & Treatment Systems
Permitting
Sedimentation & Erosion Control
Utility Formation
Fisheries Mitigation
Habitat Assessment

Utilities

Water Transmission & Distribution Systems
Pressure Reducing Stations
Infiltration & Inflow Rehabilitation
Collection Systems
Force Mains
Metering Stations
Booster Stations
Trenchless Construction

Transportation

Site Planning & Development
Corridor Studies
Traffic Modeling
Mitigation Impact Fees
Traffic Calming Devices
Half Street Improvements
Pedestrian & Bicycle Facilities
Geometric Design
Asphalt Overlay & Rehabilitation
Signalization
Roundabouts
Illumination
Streetscape & Landscape
Trails & Recreational Facilities
Utilities – Underground/Overhead
LAG Experience

Electrical

Electrical Comprehensive Planning
Electrical Transmission & Distribution
Instrumentation & Control
SCADA
Emergency Power Systems

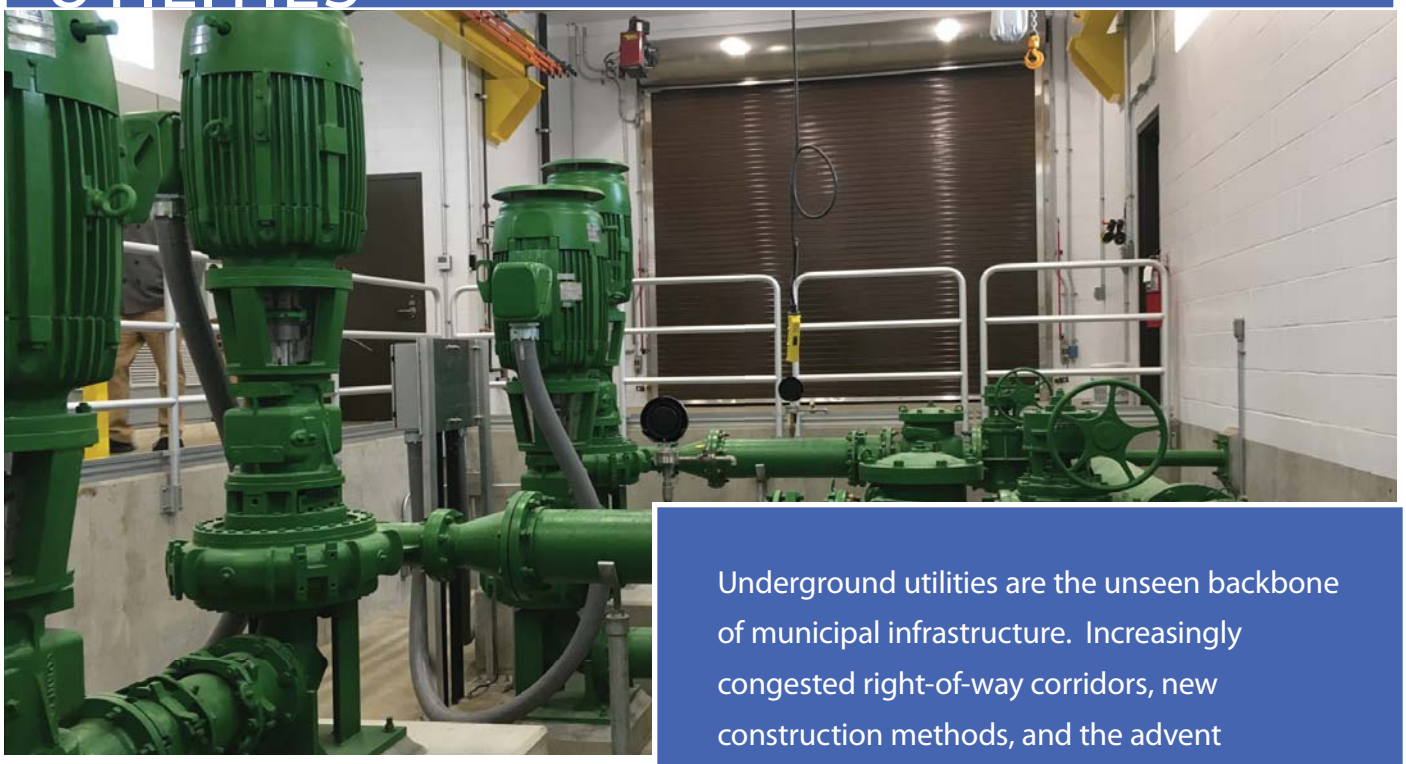
Specialty Services

Annexations
Architectural Services
Boat Ramps
City Engineering Services
Construction Management
Financial Analysis
Geographic Information System
Grant & Loan Applications
Heating, Ventilation & Air Conditioning
LEED
LID/ULID Formation
Plan Review Services
Public Meetings
Retaining Wall Design
Structural & Mechanical Design
Utility Rate Studies

Survey

Topographical
Global Positioning System
Construction Staking
Boundary
Records of Survey
Right-of-Way

UTILITIES



Mukilteo Water & Wastewater District – Lift Station 10

King County Water District 54 – 223rd Waterline

Silver Lake Water & Sewer District – District Headquarters

Underground utilities are the unseen backbone of municipal infrastructure. Increasingly congested right-of-way corridors, new construction methods, and the advent of trenchless technologies have created new challenges and opportunities in the maintenance and development of these vital lifelines. Gray & Osborne specializes in the design and construction management of the following utility components:

- Water Transmission and Distribution Systems
- Water Pump Stations
- Water Pressure Reducing Stations
- Water Interties
- Sanitary Sewer Collection Systems
- Trenchless Construction and Repair
- Sewer Lift Stations
- Sewer Force Mains
- Stormwater Collection and Transmission
- Site Development
- Decant Stations

TOWN OF CARBONADO – UTILITY REPLACEMENT

This project involved designing new community-wide water and sewer systems and had five schedules: (1) water main replacement, (2) sanitary sewer main replacement, (3) restoration, (4) a sidewalk, and (5) a water main replacement additive on another road. The new water system consists of 2,100 feet of 12-inch ductile iron pipe connecting the transmission main to the Town and 17,600 feet of 8-inch ductile iron water main. The new gravity sanitary sewer system consists of 14,800 feet of 8-inch PVC pipe, with 900 feet of PVC C900 due to depth, and 13,500 feet of side sewer pipe that was installed to reroute approximately 215 properties' sewers to connect to the new sewer main.

CITY OF MABTON – CITYWIDE WATER MAIN AND VALVE REPLACEMENT

The project included the replacement of the City's aging water system with approximately 11,500 feet of 8-inch, 700 feet of 6-inch, and 500 feet of 4-inch diameter water main; 38 connections to the existing water system; 170 water services; 20 fire hydrants; 110 gate valves; and the associated surface restoration.

CITY OF KIRKLAND – 1ST STREET WATER AND SEWER REPLACEMENT

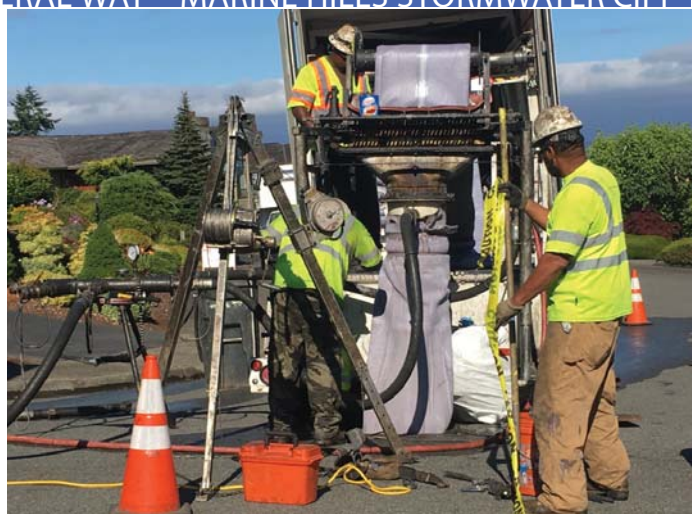
Schedule A – Sanitary Sewer Main (5th to 16th) replaced 3,000 feet of 8-inch concrete sewer main with 8-inch PVC sewer main within the 1st Street corridor, including 11 manholes, 42 side sewers, replaced 42 ADA ramps, full overlay of 1st Street, and other general restoration work. Schedule B – Water Main (10th to 14th) installed 1,000 feet of 8-inch, 120 feet of 6-inch, and 150 feet of 4-inch DI water main, 50 feet of HDPE water main, and 21 water services. Schedule C – Sanitary Sewer Main (Central Way to 5th) replaced approximately 1,300 feet of 8-inch concrete sewer main with 8-inch PVC sewer main within the 1st Street corridor, including 4 manholes, 9 side sewers, replaced 11 ADA ramps, full overlay of 1st Street, and other general restoration work.

CITY OF BUCKLEY – 2018 UTILITIES

Schedule A – Water Main Improvements was not awarded. Schedule B – Sanitary Sewer Improvements installed 1,500 feet of 8-inch sanitary sewer main, 400 feet of 6-inch side sewer pipe, nine manholes, and associated restoration. Schedule C – Storm Improvements installed 150 feet of 12-inch, 350 feet of 24-inch, and 5 feet of 30-inch CPEP storm sewer pipe; 17 catch basins; and associated restoration. Schedule D – Rainier Street Water Improvements installed 620 feet of 8-inch DI water main, 35 feet of 6-inch DI water main, eight gate valves, three fire hydrants, 11 service connections, and associated restoration.

CITY OF FEDERAL WAY – MARINE HILLS STORMWATER CIPP

Gray & Osborne provided technical support through design and construction of approximately 16,300 linear feet of 12-, 15-, and 18-inch cure-in-place pipe (CIPP) for stormwater. Our primary duties for the project included preparation of technical specifications, submittal review, training of inspectors, and on-call engineering for questions during design and construction.



MUKILTEO WATER & WASTEWATER DISTRICT – 2019 WATER AND SEWER IMPROVEMENTS

Schedule A constructed 3,200 feet of DI force main in downtown Mukilteo and along SR 525. The project also included an auger bore of approximately 170 feet in order to cross SR 525. Restoration included overlays and installing ADA ramps. Schedule B installed approximately 1,900 feet of 8-inch DI water main, replacing existing 6-inch cast iron water main along Washington Avenue, 6th Street, and Lincoln Avenue from Goat Train Road to 5th Street, and installed approximately 270 feet of 8-inch PVC gravity sewer main and two manholes. This schedule also included installing fire hydrants, valves, blowoff, connections to the existing system and water services, and replacing two PRV stations.

MUKILTEO WATER & WASTEWATER DISTRICT – LIFT STATION 10 REPLACEMENT

This project replaced an existing lift station with a new wet well, building, and installed four 100 hp pumps with variable frequency drives. Due to significantly high head conditions, two pumps are required to pump in series to achieve the needed 1,200 gpm capacity. The project also included a significant retaining wall to enable maintenance vehicle access, a trolley hoist and bridge crane to provide loading and unloading the pumps, a 230 kW generator inside the building, surge anticipator valve, MCC and new control panel, and installed 2,900 feet of 10-inch DI force main. The project required numerous permits from the City of Mukilteo.

ALDERWOOD WATER & WASTEWATER DISTRICT – D-1 TRANSMISSION MAIN

There were three schedules of work. Schedule A installed approximately 10,600 feet of new 24-inch diameter water transmission main near Thrasher's Corner/Grannis Road to Filbert Road in Bothell. The new water main allowed the District to create a new pressure zone to reduce pressures in the Canyon Park neighborhood. Schedule A also installed nine ADA curb ramps, cathodic protection system, and surface restoration. Schedule B replaced approximately 2,000 feet of cast iron water main with 8-inch ductile iron water main, replaced 63 water services, and surface restoration. Schedule C relocated approximately 900 feet of water main at Filbert Road, Locust Way, and Larch Way to accommodate WSDOT road improvements.

ALDERWOOD WATER & WASTEWATER DISTRICT – 228TH/NORTH CREEK BRIDGE CROSSING

This project replaced an existing 12-inch water main that was located underneath North Creek at 228th Street SE in Bothell. The water main had been exposed by the creek and was in danger of being washed away. The project included constructing a bridge crossing in 24-inch casing and included buried Flex-Tend fittings for seismic protection.

WATER

LOTT Clean Water Alliance – Reclaimed Water Reservoir

Castle Rock – Addition of Upflow Clarifiers

Naval Base Kitsap (Bangor) – Fluoridation Facility

Good, clean water is no longer an "unlimited resource," even here in the Northwest. Gray & Osborne's water professionals have planned and designed water systems throughout Washington State since 1935. We have developed innovative and sustainable solutions for surface water filtration, spring and well development, groundwater contaminants, desalinization, reservoirs, pumping, and distribution. Our services include the following:

- Water Comprehensive Plans
- Hydraulic Modeling
- Water Rights Transfer and Acquisition
- Source Development
  - Surface Water Intakes
  - Groundwater Wells
- Water Treatment
  - Surface Water
  - Groundwater
  - Disinfection
  - Corrosion Control
  - Disinfection By-Product Control
- Reservoirs and Dams
- Pilot Plant Studies
- Storage Reservoirs
  - New
  - Recoating
  - Seismic Retrofit
- Booster Stations
- Pressure Reducing Valve Stations

CITY OF OLYMPIA – McALLISTER WELLFIELD

G&O assisted the City with developing a new wellfield having an initial capacity of 15 MGD and an ultimate capacity of 23 MGD. The project equipped three wells with vertical turbine pumps in CMU well house buildings. The wells have capacities of 1,500, 3,000, and 6,000 gpm. A fourth well will be drilled and equipped in a future phase. A new operations building and chlorine gas disinfection facility were constructed. A 12,500-volt primary power service was extended to the site and 480-volt power was distributed to each well. The control system is integrated into the City's existing telemetry and control system.

CITY OF WARDEN – REPURPOSE WELL 5 AND DRILL AND EQUIP WELLS 8 AND 9

This project constructed new water supply wells and repurposed Well 5 as an irrigation well due to contaminants in the aquifer. Well 5 work included a new pump and new inverter-duty 200 hp motor with approximately 800 feet of new irrigation main. This allowed an existing irrigation well to be reconstructed to serve as Well 8. Well 9 was also drilled as a part of the Well 8 reconstruction project and both wells together will produce about 4,000 gpm. Well 8 is equipped with a 300 hp submersible pump operating on a VFD and connected to the system through a 16-inch transmission main. Well 9 will be equipped with a 300 hp line-shaft vertical turbine pump.

CITY OF POULSBO – LINCOLN WELL TREATMENT FACILITY

The project included the design and construction of a 1,000 gpm treatment facility to remove iron and manganese from two well sources. The project included a new CMU filter building housing pyrolusite filters, a concrete backwash settling tank and recycle system, and an auxiliary generator. The facility was added to an existing well site with a limited footprint.

CITY OF KENT – 640 ZONE RESERVOIR

G&O worked closely with the City of Kent to design and commission this new storage facility on the east side of their distribution system. The 4.0 MG steel reservoir is 75 feet in diameter and 138 feet tall. Features include a spiral staircase for easy roof access, multilevel sample taps, seismic anchorage, and a decorative mural. The reservoir is the first part of a two-phased project which will eventually include a water booster station and a new upper pressure zone. The project was awarded the 2011 Steel Standpipe of the Year by the Steel Tank Institute.

KING COUNTY WATER DISTRICT 54 – MARINE VIEW DRIVE WATER MAIN

This project in downtown Des Moines installed 3,000 feet of 12-inch ductile iron water main under Marine View Drive (SR 509), 1,000 feet under side streets intersecting Marine View Drive, and four bore crossings (100 feet each) under Marine View Drive. Fifteen fire hydrants were installed and new water main was connected to the existing system at 11 locations.

CITY OF ISSAQUAH – MOUNTAIN PARK BOOSTER STATION

The project included the demolition of an existing booster station and the construction of a replacement 2,000 gpm booster station. The facility included three 100-horsepower pumps capable of 1,000 gallons per minute each with variable frequency drives. A 230-kilowatt generator was installed in the pump station building for auxiliary power. The facility was constructed on a very tight site that was wedged between a busy street and an apartment complex.

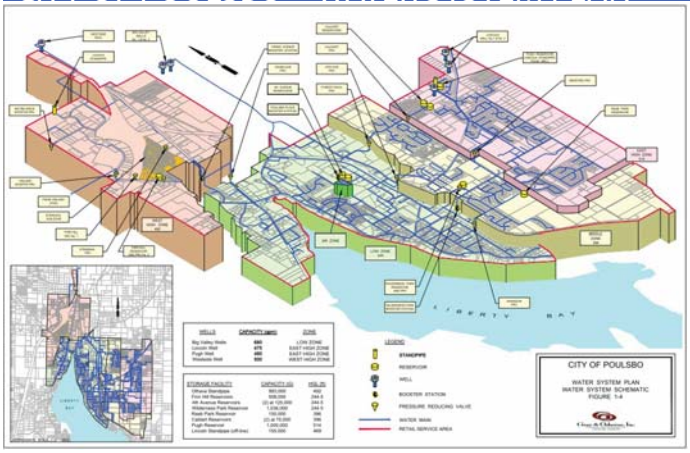
CITY OF BOTHELL – PENN PARK RESERVOIR REPLACEMENT

The Penn Park Reservoir Replacement included demolishing an existing 0.5 MG concrete reservoir and replacing it with a new 1.0 MG welded steel reservoir. The reservoir is 90 feet in diameter with a 25-foot shell height. The project also included constructing a soldier pile wall, segmental concrete block retaining wall, site storm drainage and collection, electrical telemetry and instrumentation, and landscaping.

SILVER LAKE WATER & SEWER DISTRICT – RESERVOIR 3 IMPROVEMENTS

The project included welding access stairs, gutters, downspouts, a catwalk access system, Tideflex mixing system, and interior recoating of the existing 4.2 MG reservoir. The project also included demolishing the existing booster station building and constructing a new CMU building around the existing pumps and piping, including new variable frequency drives, a new control panel, a bridge crane lifting system, a new jockey pump for low-flow conditions, stairway access to the existing pump pit, and coiling door vehicle access.

CITY OF POULSBO – WATER SYSTEM PLAN



The Water System Plan fulfilled the DOH WAC 249-290-100 requirements and provides 6- and 20-year planning horizons. It included a detailed analysis of source, water rights, storage, and distribution system capacity. The City has four pressure zones, four sources, and seven storage facilities and is currently facing development pressures as it continues to grow and expand. One focus of the plan was to determine the improvements necessary to ensure that future development could be effectively served by the City's water resources and infrastructure. The plan provides concise 6-and 20-year Capital Improvement Plans as well as a financial analysis to determine the impact of the capital projects on system budgeting.

WASTEWATER

Sumner – Regional Wastewater Treatment Facility

Lake Stevens Sewer District – Permeate Pumps

Kitsap County – Central Kitsap Wastewater Treatment Plant Dewatering Facilities

Here in the Northwest, state agencies, local governments, and community stakeholders are all committed to improving the water quality in our lakes, rivers, and the Puget Sound. The wastewater professionals at Gray & Osborne are focused on practical applications of appropriate technologies that help communities plan, finance, and build facilities that help to ensure the future of clean water in our region. Wastewater services that we provide include the following:

- Facility Planning
- Sewer Comprehensive Planning
- Treatment Plant Capacity Analysis
- Treatment Planning and Design
- Secondary Treatment
- Nutrient Removal
- Water Reclamation and Reuse
- Ultraviolet Disinfection
- Biosolids Management
- Outfall/Mixing Zone Studies
- Infiltration and Inflow Studies
- Collection System Hydraulic Modeling
- Lift Station Design
- Energy Efficiency and Recovery

LAKE STEVENS SEWER DISTRICT – DARWIN SMITH WASTEWATER TREATMENT FACILITY

The Darwin Smith WWTF is a 5.01 MGD membrane bioreactor (MBR) wastewater treatment plant which will meet the needs of the Lake Stevens community for the next 50 years. The $100 million project was constructed through the partnership and cooperation of multiple state and local agencies, has moved critical facilities out of the floodplain, and uses nutrient removal, MBR, UV, energy recovery, and Class A biosolids treatment technologies to produce clean water which exceeds regulatory requirements. The plant is designed to be expanded to Class A reclaimed water production and distribution.

PORT GAMBLE S'KLALLAM TRIBE – WASTEWATER FACILITIES

The project constructed a new membrane bioreactor (MBR) wastewater treatment facility and effluent infiltration areas. The facilities were designed to meet the projected 20-year wastewater treatment requirements. The project included a centralized, 184,000 gpd MBR wastewater treatment plant. The facility is equipped with UV disinfection, non-potable water system, and odor control. Effluent produced by the new MBR treatment plant is infiltrated to groundwater in a 3.1-acre drainfield.

CITY OF CAMAS – WASTEWATER TREATMENT PLANT

G&O has worked with the City to plan, finance, build, and commission three major expansions and improvements to its wastewater treatment facility. The facility currently has a maximum month capacity of 6.1 MGD while providing nitrogen removal and producing Class A biosolids. The project includes sustainability features such as the repurposing of existing concrete structures to new uses, reduction of energy requirements through nitrification/denitrification, the use of biogas for heating anaerobic digesters and biosolids drying, the use of Class A biosolids as a soil amendment, and the use of UV disinfection to replace the use of gas chlorine.

CITY OF KITTITAS – WASTEWATER TREATMENT PLANT IMPROVEMENTS

Improvements included a mechanical fine screen inside a new partially enclosed structure, replacement of the influent pump station pumps with new submersible centrifugal pumps, and installation of ORP sensors in the existing sequencing batch reactors (SBRs). The mechanical fine screen brought the facility into compliance with WAC 173-308-205 and addressed the decreasing capacity of the SBR caused by manufactured inerts entering the facility. The ORP sensors allow the operators to monitor the biological performance of the SBR and better control the process.

CITY OF BRIDGEPORT – WASTEWATER TREATMENT FACILITY

Improvements to the City's Wastewater Treatment Facility included a new influent lift station, aerated grit chamber, aeration basin with selector zones and fine-bubble aeration, centrifugal blowers, secondary clarifier, return activated waste pump station, sludge holding tank, sludge dewatering system, and grit/electrical building.

CITY OF SUMNER – REGIONAL WASTEWATER TREATMENT FACILITY

G&O successfully managed a series of projects spanning 18 years that collectively increased the maximum month design capacity of the City's Wastewater Treatment Facility (WWTF) from 2.6 to 6.1 MGD. The initial Phase 1 upgrade began with facility planning. Phase 2 expansion was the 2013 Facility Plan Amendment that updated the Phase 2 design criteria to reflect the impact of water conservation on influent wastewater characteristics. G&O oversaw a number of other projects at the WWTF including modifications to the effluent pump station and the anaerobic digester piping and mixer.

CITY OF BURLINGTON – WASTEWATER COMPREHENSIVE PLAN

The plan evaluated the City's wastewater facilities and recommended upgrades to pump stations, gravity sewer pipe, and a number of WWTP improvements, including modifications to the influent pump station, installation of a second influent screen, modifications to the existing anaerobic digesters, and construction of new digesters and an additional aeration basin. The plan identified improvements/replacements to the WWTP laboratory, secondary clarifier mechanisms, gravity thickener mechanism, solids dewatering equipment and UV system, as well as three pump stations.

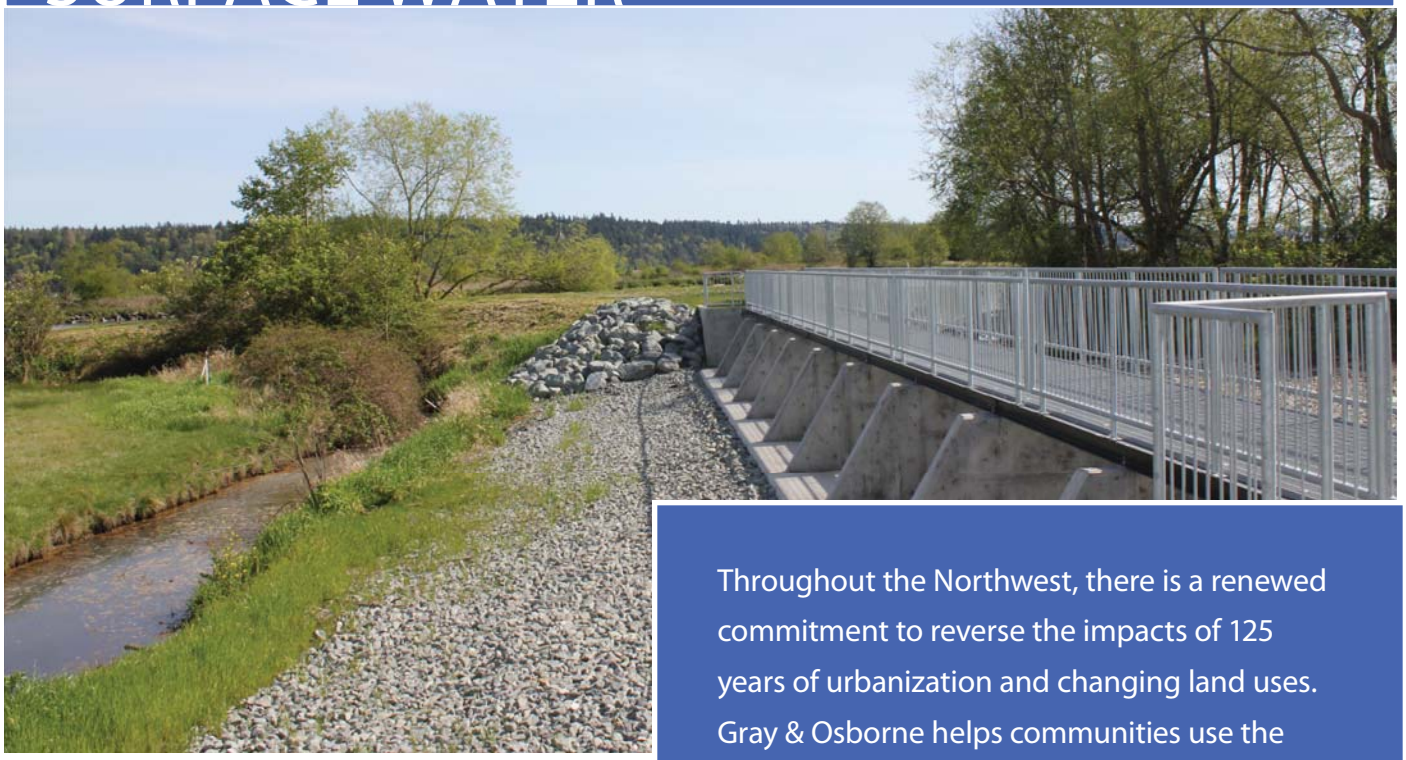
PORT GAMBLE S'KLALLAM TRIBE – CASINO PUMP STATION

The project constructed upgrades to an existing pump station that had experienced reliability problems due to the existing submersible centrifugal pumps getting clogged with rags. The pump station was also undersized for future flows. The station was upgraded with new submersible chopper-style centrifugal pumps with additional flow capacity capable of pumping 150 gpm at 38 feet TDH to handle the projected 20-year design flows. The pump station was retrofitted with radio telemetry communication that was integrated into the WWTF SCADA. The project included installing a portable hoist and security fence, and replaced the existing force main with 140 feet of 4-inch HDPE and 285 feet of 4-inch DI pipe.

MUKILTEO WATER & WASTEWATER DISTRICT – BIG GULCH WWTF OUTFALL

This project replaced the District's CMP outfall installed in 1969 in Puget Sound. The work included 650 feet of 24-inch fused HDPE pipe, 13 buried concrete anchors, 9 unburied concrete anchors, 3 stainless steel flanged connections, a connection at an existing manhole, and a diffuser. The project required Ecology approval, a Nationwide Permit 7 from the Army Corps of Engineers, a Hydraulic Project Approval from Fish and Wildlife, a City of Mukilteo Grading and Shoreline Permit, and a Pipeline License from the BNSF Railway Company. All of the necessary permits and approvals were obtained in less than 9 months. The outfall pipe and concrete anchors were all assembled off site and then mobilized by barge.

SURFACE WATER



Port Susan Bay – Drainage Gate

Lake Forest Park – NE 178th Street Culvert Replacement

Sammamish – Stormwater Facility

Throughout the Northwest, there is a renewed commitment to reverse the impacts of 125 years of urbanization and changing land uses. Gray & Osborne helps communities use the following tools to make real and sustainable progress in surface water quality and salmon recovery:

- Comprehensive Planning
- Environmental Planning and Permitting
- Stormwater Management
- Sedimentation and Erosion Control
- NPDES Phase II Compliance
- Surface Water Utility Formation
- Geomorphological Studies
- Hydraulic and Hydrologic Modeling
- Stream Bank Stabilization
- Fish Habitat Enhancement
- Low Impact Development
- Conveyance, Detention, and Treatment
- Stormwater Pump Stations

CITY OF LAKE FOREST PARK – NE 178TH STREET CULVERT REPLACEMENT

As part of a project to widen and reconstruct a section of NE 178th Street, G&O completed design, permitting, and construction management for a 9-foot by 21-foot three-sided fish-passable box culvert for McAleer Creek, stream bank armoring, in-channel large woody debris, and stream bank plantings. LID techniques were included for the FHWA and TIB grant-funded road improvement project. G&O assisted the City with the grant application. Permitting included a JARPA, an HPA, an Army Corps Nationwide 14 Permit, and an Ecology Construction Stormwater General Permit.

CHELAN COUNTY – CHIWAWA LOOP ROAD PHASE 3 IMPROVEMENTS

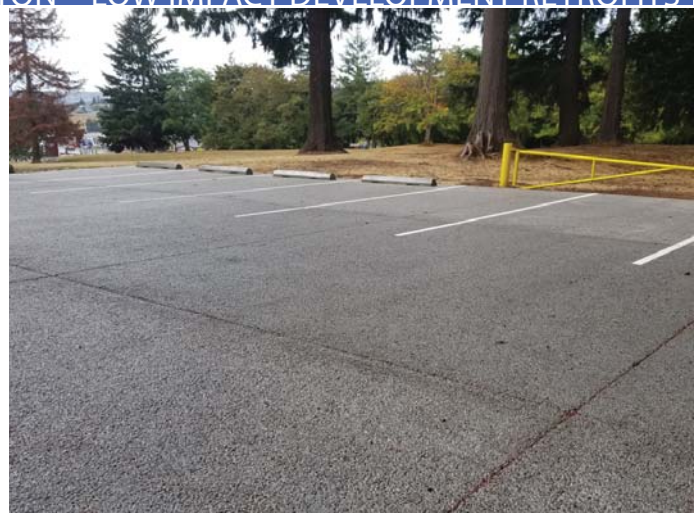
An undersized 24-inch concrete culvert causing a fish passage barrier at Clear Creek was removed and replaced. A new environmentally appropriate structure was designed to meet Department of Fish and Wildlife guidelines design included a hydraulic and geomorphologic study. The culvert needed to provide capacity to pass debris during the 100-year flow and to meet superelevation of 5.7 percent of the reconstructed highway. The new structure was a concrete culvert having dimensions of 40 feet long by 10 feet high by 16 feet wide. The project also required a geotechnical analysis and supplemental retaining wall and structural design.

CITY OF MARYSVILLE – 1ST STREET LOW IMPACT DEVELOPMENT

The project included design and limited construction management associated with seven bioretention systems located adjacent to 1st Street between Cedar Avenue and State Avenue. The original design also included a porous sidewalk; however, due to fund availability, only the bioretention systems were constructed. The systems were designed to fully infiltrate, thereby providing water quality along the commercial portion of 1st Street. Prior to the project runoff was released untreated to nearby Ebey Slough and Puget Sound.

CITY OF MILTON – LOW IMPACT DEVELOPMENT RETROFITS

The project involved three schedules of work. Schedule A included storm improvements along Emerald Street between 10th Avenue and 14th Avenue consisting of 680 feet of 12-inch CPEP stormwater pipe, 600 feet of bioswales, 200 feet of bioretention swales, and general surface restoration. Schedule B included 675 square yards of pervious concrete pavement to replace an existing asphalt parking area, striping, signage, and general surface restoration. Schedule C included 750 square yards of pervious concrete pavement to replace an existing gravel parking area, striping, signage, and general surface restoration.



MID-COLUMBIA FISHERIES ENHANCEMENT GROUP – REECER CREEK FLOODPLAIN RESTORATION

Reecer Creek, a tributary of the Yakima River, was contained within a levee, causing flooding on upstream and adjacent properties. The Reecer Creek Floodplain Enhancement project included removal of the existing levee and construction of a new setback levee. Relocating the levee away from the creek created opportunities for stream channel enhancement, stream connectivity with a larger floodplain, and habitat restoration along the length of Reecer Creek.

CITY OF NEWCASTLE – CHINA CREEK STORM REPAIR

This project included engineering predesign and design for the realignment of a 36-inch storm drain around an eroding stream bank and restoration of the eroded stream bank and disturbed areas. A rock wall was constructed to stabilize the bank and protect a utility access road, trail, and existing sanitary sewer main. The project included environmental permitting (WDFW HPA, Corps 404), clearing and grubbing, removing a 36-inch CMP drain pipe from the stream channel, grading, pipe and manhole installation, wetland filling and creation, and stream and site restoration.

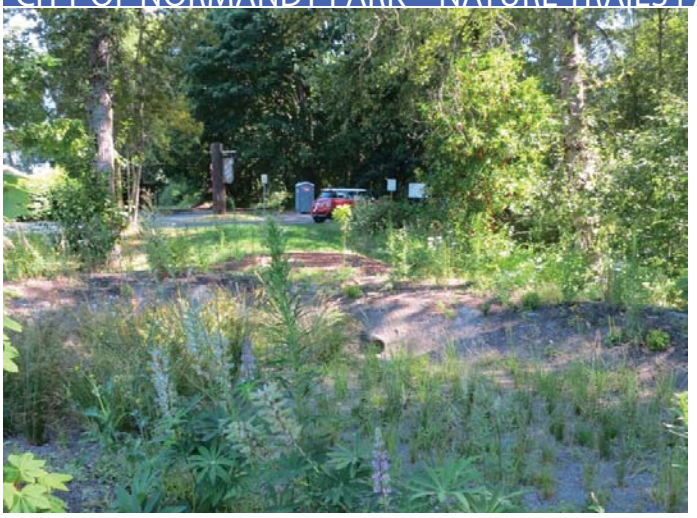
CITY OF COVINGTON – TIMBERLANE/JENKINS PARK STORMWATER LID RETROFITS

The Timberlane Estates neighborhood was platted in 1970 and had limited stormwater quality facilities within the area. An existing stormwater infiltration pond was failing. The project used hydrologic and hydraulic modeling to recommend the implemented stormwater pond retrofits and new biofiltration and infiltration facilities to more effectively manage and treat stormwater runoff. The new facilities are located entirely within existing neighborhood open-space easements.

CITY OF SNOHOMISH – PUBLIC WORKS LOW IMPACT DEVELOPMENT IMPROVEMENTS

This project included design and construction of a stormwater conveyance system and trench drain which provides dispersion of stormwater runoff from the City's Public Works yard to protect the Snohomish River bank from further erosion caused by runnoff from the yard. In addition, in order to protect the water quality of the runoff a compost-amended vegetated filter strip was installed adjacent to the trench drain. Native plants were installed to decrease the potential for of bank erosion.

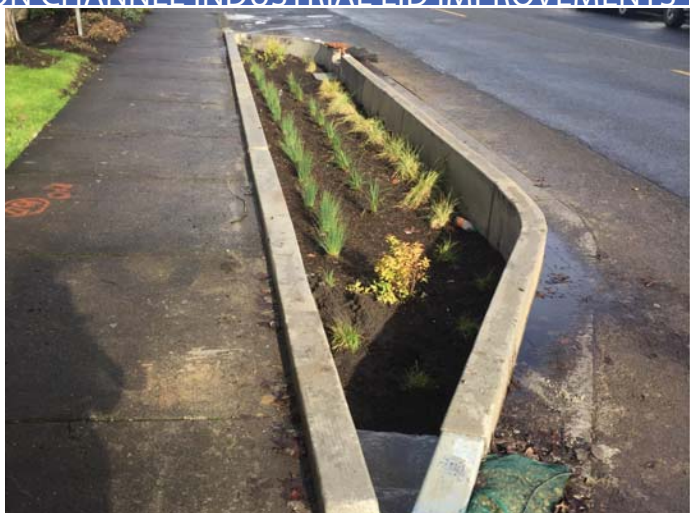
CITY OF NORMANDY PARK – NATURE TRAILS PARK PHASE 1 IMPROVEMENTS



Two new catch basins and storm drain piping were installed in the parking lot to collect all of the surface runoff and route it to a bioretention cell. The bioretention provides treatment for total suspended solids, dissolved copper, and dissolved zinc. The 1,500-square-foot cell includes an 8-inch diameter perforated underdrain, 2 feet of pea gravel around the underdrain, and 18 inches of bioretention soil. The plantings in the interior of the cell include sedges and rushes while the planting in the upland areas and on the exterior of the cell include a variety of shrubs and trees.

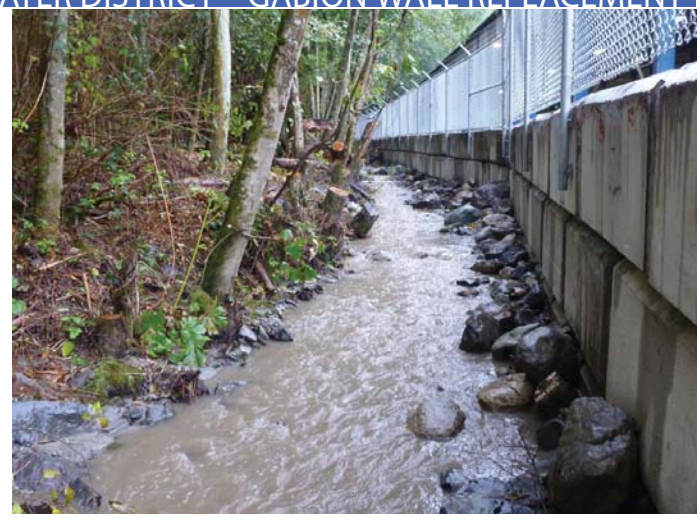
CITY OF VANCOUVER – PETERSON CHANNEL INDUSTRIAL LID IMPROVEMENTS

The project involved design and installation of multiple bioretention cells along NE 39th Street and NE 109th Avenue in the vicinity of the Peterson Channel Industrial region within the City of Vancouver. In addition, a stormwater treatment manhole was designed for NE 37th Circle. Runoff from these roadways was not treated before entering Peterson Channel and eventually, Burnt Bridge Creek. The City received an Ecology Stormwater Grant to analyze, design, and construct LID facilities in this area to enhance the water quality of Peterson Channel, Burnt Bridge Creek, and other downstream water bodies.



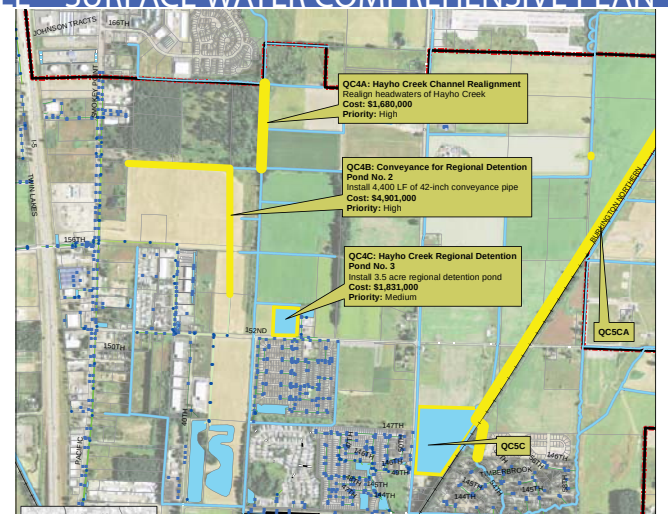
MUKILTEO WATER & WASTEWATER DISTRICT – GABION WALL REPLACEMENT

A failing gabion wall was replaced to avoid the potential for additional wall failure at the Big Gulch WWTF. Further failure of the wall could impact the ability to provide raw sewage treatment, causing significant environmental damage to Big Gulch Creek and Puget Sound. Project included design, permitting, and construction. Cost, access limitations, impact on the operation of the WWTF, stability of the north bank of the creek, long-term structural support and scour prevention were primary factors driving the decision to replace the entire gabion wall with concrete gravity block wall and multiple submerged-grade control weirs to prevent downcutting of the stream channel bed.



CITY OF MARYSVILLE – SURFACE WATER COMPREHENSIVE PLAN

The plan identified structural solutions to known flooding problems while updating previously unconstructed projects to current design standards. The plan included hydrologic/hydraulic modeling which resulted in recommended capital improvement projects. These projects included addressing regional detention issues, bridge installations, creek restoration, undersized culvert replacement, water quality treatment facilities, and fish passage deficiencies. A cost analysis and schedule were provided to give the City a basis for funding and operation/maintenance-related decisions in following years.



TRANSPORTATION

Sammamish – 212th Way SE Improvements

Milton – Milton Way Pedestrian Improvements

Mill Creek – 35th Avenue SE Reconstruction

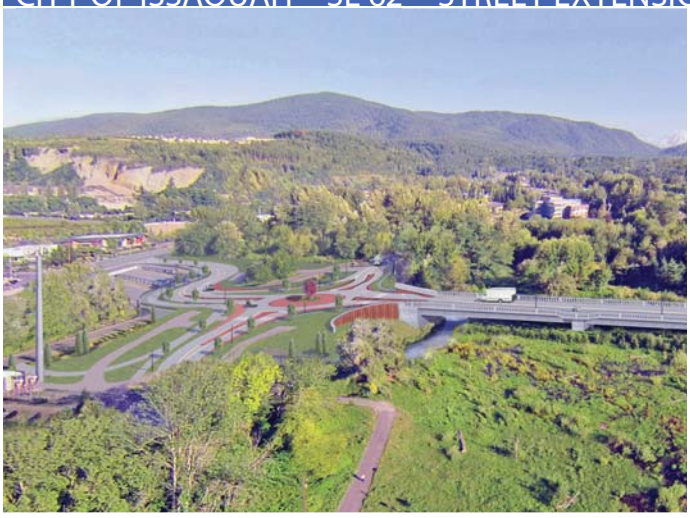
Transportation facilities are the most visible features of a community's public works infrastructure. When they are well-designed, safe, and efficient they promote commerce and stimulate hometown pride. Gray & Osborne's transportation design professionals have been helping Washington State cities and counties plan, finance, design, and construct transportation improvements for over 50 years. Our transportation services include:

- Grant and Loan Application Assistance
- Traffic Control Devices, including Signalization and Roundabouts
- Traffic Analysis Modeling/Level of Service Studies
- Traffic Calming Facilities
- Street Illumination
- Retaining Walls
- Streetscape, Landscape, and Irrigation
- Low Impact Development (LID) Facilities
- Channelization and Signing
- Multiuse Trails
- Value Engineering and Constructability Reviews
- Plans, Specifications, and Cost Estimates
- Construction Management and Administration

CITY OF BUCKLEY – SR 410/SR 165/RYAN ROAD/112TH STREET EAST REALIGNMENT PHASE 1

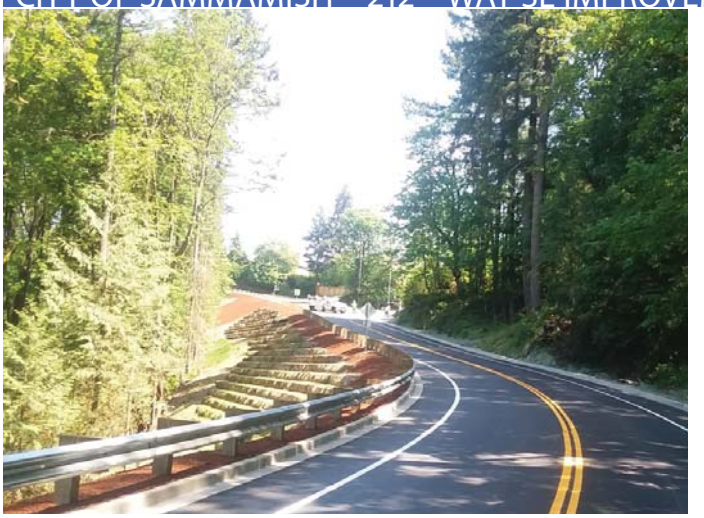
This project has provided a long-term solution to the skewed and substandard intersection of SR 410 and SR 165, as well as connections between Ryan Road and 112th Street. The project included a new signal at the SR 410/SR 165 intersection, realignment of SR 165 and the Foothills Trail between SR 410 and Ryan Road, new curb/gutter/sidewalk improvements, street lighting, and storm improvements. G&O provided design and construction management on the FHWA-funded project.

CITY OF ISSAQUAH – SE 62ND STREET EXTENSION



The project reconstructed and extended SE 62nd Street from East Lake Sammamish Parkway SE to Lake Drive. Roundabouts were constructed at the Lake Drive and 221st Place SE intersections. The project required the relocation of the North Fork of Issaquah Creek and significant wetland mitigation. Substantial right-of-way acquisition was also required. Additional project elements included preloading of the site, installation of planted MSE walls, decorative illumination, RRFB installation, utility undergrounding, new water and sanitary sewer infrastructure, and stormwater collection, treatment, and detention facilities.

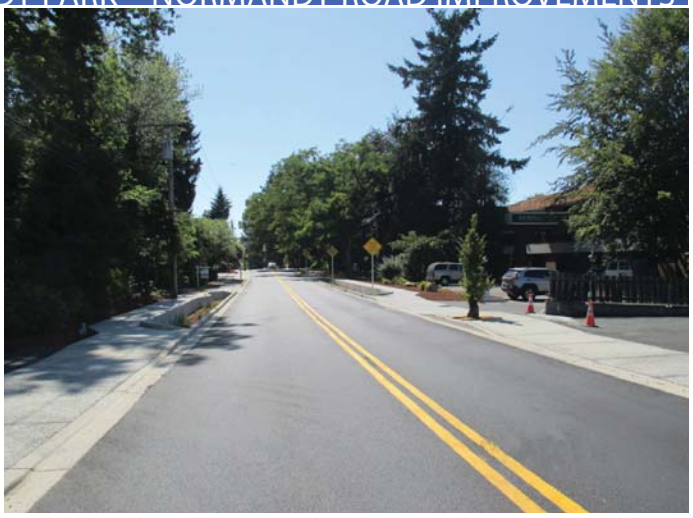
CITY OF SAMMAMISH – 212TH WAY SE IMPROVEMENTS



This project involved slope stabilization (reinforced soil slopes) and soldier pile wall installation within a Landslide Hazard Area along 212th Way SE, easterly of East Lake Sammamish Parkway. Improvements also included cast-in-place retaining walls, concrete stormwater detention structure, stormwater collection and treatment facilities, dewatering, roadway widening, wetland mitigation, and right-of-way acquisition. The project was geographically constrained by steep slopes on both sides of the roadway. Design included analysis of slope stabilization alternatives.

CITY OF NORMANDY PARK – NORMANDY ROAD IMPROVEMENTS

This project included 1,200 feet of pavement overlay and construction of curb/gutters and sidewalks on both sides. Sidewalks and driveway entrances were constructed with pervious concrete. The project included ADA-compliant ramps and driveways, replaced the storm drain pipes, and installed bioretention cells and street trees within SW Normandy Road between 1st Avenue South and 4th Avenue SW. The project included buried conduit for future pedestrian-scale street lighting.



CITY OF MILTON – MILTON WAY PEDESTRIAN IMPROVEMENTS (17TH AVENUE TO 23RD AVENUE)

This federally funded project included completing a 1,300-foot gap in the existing sidewalk along Milton Way from near 17th Avenue to near 23rd Avenue. The improvements provide direct access for pedestrians to the elementary and middle schools. Other improvements included utility undergrounding, decorative illumination, traffic signal modifications, school zone beacons, signing, striping, soldier pile wall with concrete fascia, segmental block walls, landscaping, and minor storm drainage improvements. G&O provided design, environmental (NEPA) and permitting, survey, WSDOT coordination, and construction management.

CITY OF LAKE FOREST PARK – NE 178TH STREET IMPROVEMENTS PHASE 2

This project widened and reconstructed the pavement section on NE 178th Street between 33rd Avenue NE and Brookside Boulevard by constructing cement concrete curb, gutter, and sidewalk improvements on both sides of the roadway; culvert replacement with a precast three-sided box culvert 21 feet wide by 9 feet high by 64 feet long on the McAleer Creek crossing of NE 178th Street; storm system improvements; two RRFBs; utility relocation coordination; guardrail, pervious concrete sidewalk, fencing, driveway grading, retaining walls, signing, channelization, and surface restoration.

TOWN OF FRIDAY HARBOR – WEB STREET

This project included 620 linear feet of utility and street improvements on Web Street and A Street and 200 linear feet of sidewalk improvements on Nichols Street. Businesses and the Washington State Ferry hold areas are adjacent to the project. Coordination with businesses and WSDOT was required to minimize impacts. Utility improvements included replacement of the existing water main and services, sanitary side sewers, and stormwater system. The street was reconstructed to provide two travel lanes, with parking on one side, and sidewalks on both sides. Decorative street illumination system was installed.

CITY OF SHELTON – DOWNTOWN CONNECTOR

This project included 5,200 linear feet of improvements along Olympic Highway North and Alder Street. The pedestrian improvements included the removal and replacement of the existing sidewalks, ADA-compliant curb ramps, and the installation of RRFBs. Road improvements consisted of grinding and overlaying the roadway with 4 inches of HMA, installation of a mast-arm pole signal system, storm improvements including a rain garden, installation of a central median, and the installation of a one-lane roundabout at 1st Street and Alder Street. New illumination, curb and gutter, and landscaping were installed throughout the project.

CITY OF MARYSVILLE – 3RD STREET LID

This $1.7 million City and Ecology-funded project provided for the reconstruction of 2,200 linear feet of 3rd Street from State Avenue to 47th Avenue. Improvements included installation of new 8-inch water main, new 8- to 16-inch storm system, curbs and gutters, sidewalks, pavement reconstruction, landscaped traffic circles and center medians, and textured crosswalks. Stormwater was addressed through the use of bioretention facilities, an LID technique that provides treatment and detention to runoff through landscaped cells located adjacent to the concrete curb line within the new curb extensions (bulb-outs). These bioretention facilities are designed to treat and infiltrate a 100-year storm event.

CITY OF ISSAQUAH – SE 62ND PICKERING TRAIL

As part of the SE 62nd Street Extension project, portions of the Pickering Trail were extended and reconstructed, with connections to viewing platforms for pedestrians on the new SE 62nd Street bridge. A cycle track also parallels SE 62nd Street with connection to the East Lake Sammamish Trail. A new undercrossing was constructed to provide unimpeded crossing of SE 62nd Street by East Lake Sammamish Trail users.

CITY OF BUCKLEY – FOOTHILLS TRAIL

The Foothills Trail Realignment is part of a $3.8 million FHWA- and TIB-funded project which included a new signalized intersection at the SR 410/SR 165 intersection and the realignment of 600 feet of the Foothills Trail. The new trail is a 12-foot wide paved shared-use trail with illumination, landscaping, drip irrigation, bollards, and signing. The project involved right-of-way acquisition, utility relocation, wetland mitigation, archaeological monitoring, coordination with WSDOT, and compliance with the LAG Manual.

LUMMI TRIBE – GOOSEBERRY POINT PATH

This $1.3 million Tribe-, County-, and FHWA-funded project included alternatives analysis and design for 0.96 mile of pedestrian improvements along Lummi View Drive and Haxton Way. The work included curbs, porous asphalt pathways and concrete sidewalks, storm pipe and catch basins, retaining walls, minor roadway widening, driveway reconstruction, and pavement markings. Due to the presence of areas of cultural significance, excavation was not permitted. G&O's team developed a design that overcame the challenge by directing surface drainage to individual curb drains.

TRAFFIC ENGINEERING AND TRANSPORTATION PLANNING

Gray & Osborne provides traffic engineering and transportation planning services ranging from comprehensive plans to day-to-day traffic improvement suggestions in response to complaints. Our sound understanding of traffic engineering principles and practices allows us to provide a complete range of design solutions for traffic problems. Examples include signal design, channelization, signing, markings, traffic control, traffic calming, and traffic safety improvements. We routinely use Synchro, Civil 3D, and AutoTurn for traffic modeling and design.

We also perform traffic studies to develop solutions for transportation issues concerning speed limits, parking, access, crosswalks, ADA compliance, signing, and neighborhood traffic control. In these studies, we serve as representatives for municipalities; meeting with communities, neighborhoods, businesses, and individuals to discuss how local traffic issues and forthcoming construction or traffic maintenance will affect them. Descriptions of example projects follow.

Cities of Edgewood and Milton – Jovita Boulevard Realignment Traffic Analysis

This project included capacity and level of service (LOS) analysis using Synchro modeling to design channelization and roundabouts within the project corridor. The project included illumination design and modeling for a completely constructed street lighting system.

Grant County Port District 1 – F Street SW (SR 28) and NW Road R/13th Avenue NW Intersection Study

This study reviewed existing traffic conditions and intersection volumes as well as the projected traffic volumes from a proposed development to determine if a traffic signal was warranted. Traffic counts were collected by G&O's subconsultant.

City of Ilwaco – School Street Illumination Study

This project included illumination modeling for several alternative street lighting systems for a street reconstruction project on School Street. AGi32 modeling software was used for the illumination modeling.

City of Othello – East Scooteny Street and South 7th Avenue Intersection Study

This study included a review of the existing intersection traffic volumes and turning movements. It provided recommendations for traffic control revisions based on projected traffic volumes for a future development. The recommendations included installation of a stop sign, removal of an existing free right-turn sign, and removal of an existing traffic island. G&O's subconsultant collected the traffic counts for the project.

City of Sequim – North Sequim Avenue and East Fir Street Traffic Signal Study

The study included a signal warrant analysis to identify if there was sufficient vehicle and pedestrian volume to justify the installation of a traffic signal.

City of Yelm – Mosman Avenue Improvements (SW Railroad Street to 2nd Street SE Preliminary Engineering Report)

This project included analysis of roadway geometry, traffic volumes, and determination of level of service (LOS) for five intersections using Synchro modeling software. The project also included traffic collision analysis, signal warrant analysis, and illumination modeling and design.

RIGHT-OF-WAY, MAPPING, AND ACQUISITION

Newcastle – YMCA Sidewalk

Steilacoom – Chambers Creek Road

Mattawa – Boundary Road

At Gray & Osborne, we recognize the critical time lines of identifying, negotiating, and securing easements and rights-of-way. We have worked with numerous right-of-way agents regarding property acquisition and have supported their efforts by providing the following services:

- Preparation of Right-of-Way Maps
- Quitclaim and Statutory Warranty Deeds
- Street Vacations
- Records of Survey
- Title Report Acquisition
- Acquiring Rights-of-Entry
- Property Staking
- Setting Property Corners
- LAG Manual Compliance
- Right-of-Way and Easement Acquisition Services

RIGHT-OF-WAY ACQUISITION PROJECTS

City of Bothell – 240th Street SE Pedestrian Improvements

Right-of-way and easement acquisition from 21 parcels, appraisal and acquisition services by a subconsultant, property staking, and title report acquisition were required for this project.

City of Buckley – SR 410/SR 165/Ryan Road/112th Street East Realignment Phase 1

This project required title reports, easement and right-of-way acquisition documentation, appraisal and acquisition services by a subconsultant, right-of-way plans, and WSDOT certification.

City of Covington – SE 256th Street/164th Avenue SE

This project involved easement and right-of-way acquisition as well as boundary line adjustment.

City of Covington – Wax Road Improvements

Easement and right-of-way acquisition, street vacations, and property staking for right-of-way acquisition were required for this project.

City of Covington – 165th Place SE/168th Place SE Improvements

This project involved right-of-way acquisition from eight parcels, a right-of-way plan, and temporary construction permits for seven parcels.

City of Forks – Bogachiel Way Improvements (ARRA Funded)

This project required title reports, easement and right-of-way acquisition documentation, appraisal and acquisition services by a subconsultant, property staking, and WSDOT certification.

City of Granite Falls – Stanley Street/Granite Avenue Intersection

This project included title reports, easement and right-of-way acquisition documentation, and appraisal and acquisition services by a subconsultant.

Lake Stevens Sewer District – Sunnyside Wastewater Treatment Facilities

Title reports, rights of entry, easement and property acquisition by a subconsultant, and quitclaim deeds were required for this project.

City of Milton – Milton Way Improvements (23rd Avenue to 28th Avenue)

This project included title reports, easement and right-of-way acquisition documentation, and appraisal and acquisition services by a subconsultant.

City of Yelm – Stevens Street Improvements

This project involved title reports, easement and right-of-way acquisition documentation, and appraisal and acquisition services by a subconsultant.

ENVIRONMENTAL SERVICES AND PERMITTING

Lake Stevens Sewer District – Sunnyside Wastewater Treatment Facility

Issaquah – SE 62nd Street Extension

Lake Forest Park – NE 178th Street Phase 2

Environmental documentation, historical and cultural surveys, and permits often define a project's critical path. We have assisted many clients with meeting the federal and state environmental requirements outlined in the National Environmental Policy Act (NEPA), the State Environmental Policy Act (SEPA), federal Endangered Species Act (ESA), the State Environmental Review Process (SERP), and federal regulations including Section 10 and Section 404.

Gray & Osborne's environmental specialists stay current with the regulatory environment and understand the challenges and opportunities presented by the following:

- ESA Consultation with USFWS and NMFS
- Section 10 (Rivers and Harbors Act)
- Section 404 (Clean Water Act)
- NEPA and SEPA
- Aquatic Land Use Authorization
- Floodplain Management Permits
- Cultural Resources
- Hydraulic Project Approval
- Joint Aquatic Resources Permit Applications (JARPA)
- Water Quality Certification
- Shoreline Substantial Development Permits
- Stormwater Permits

STRUCTURAL/ARCHITECTURAL

Lake Stevens Sewer District – Wastewater Treatment Facility Administrative Building

The structural engineering and architectural design professionals at Gray & Osborne have been providing solutions for municipalities for over 50 years. Our structural designs are focused on constructability, durability, and seismic resiliency. Our architectural designs strive to limit maintenance costs and maximize durability. We use an integrated approach to provide structures that complement the function of the facility and coordinate designs closely with administrative staff, maintenance staff, and operators to meet program and budgetary requirements.

Structural services include:

- Seismic Evaluations and Retrofit Design of Existing Structures
- Structural Renovations or Additions to Existing Structures
- Condition Assessment of Existing Structures
- Repair of Deteriorated Structures
- Value Engineering and Constructability Review
- Plans, Specifications, and Cost Estimates
- Construction Support

Architectural services include:

- Laboratory Buildings
- Administrative Buildings
- City Halls
- Maintenance Shops
- Renovations
- Condition Assessment of Existing Buildings
- Site Planning and Development
- Value Engineering and Constructability Review

Types of Structures:

- Water System Structures
- Water Reservoirs
- Wastewater Structures
- Transportation Structures
- Stormwater Detention Vaults
- Retaining Walls
- Flood Control Facilities
- Culverts
- Bridges
- Utility Supports at Bridge Crossings
- Laboratory Buildings
- Administrative Buildings
- City Halls
- Maintenance Shops
- Restroom Facilities
- Picnic Shelters
- Canopy Structures
- Artwork Installations

STRUCTURAL DESIGN AND EVALUATIONS

NORTHSHORE UTILITY DISTRICT – BUILDING B SEISMIC EVALUATION

A seismic evaluation was performed for an existing pre-engineered metal building used for storage of the District's fleet vehicles. Seismic deficiencies were identified and options for retrofit were developed. Construction cost estimates were provided for recommended retrofits. Vulnerability of utility piping and other non-structural components were assessed as part of the evaluation.

CITY OF NORMANDY PARK – SEISMIC EVALUATION OF RECREATION CENTER

As part of a comprehensive assessment of the City's existing Recreation Center, a structural condition assessment and seismic evaluation of the building was performed. A Tier 1 preliminary seismic evaluation was performed for the Life Safety level of performance in accordance with current seismic standards including ASCE 41 *Seismic Evaluation and Retrofit of Existing Buildings*. A list of seismic deficiencies and recommended retrofits to address those deficiencies was provided in a report to the City. Cost estimates of recommended retrofits and relative risk levels of seismic deficiencies were included in the report to assist the City's planning for future capital improvement projects.

CITY OF SOUTH BEND – TIMBERLAND LIBRARY STRUCTURAL/ARCHITECTURAL ASSESSMENT

The Timberland Library was constructed in 1913 as a Carnegie Library and is included on the National Register and the Washington Heritage Register. A structural/architectural assessment was requested due to concerns regarding moisture intrusion. Areas of moisture intrusion and structural damage were identified and repair alternatives were provided with construction cost estimates in a report to the City.

CITY OF AUBURN – LAKELAND HILLS RESERVOIR 5 SEISMIC EVALUATION AND RETROFIT DESIGN

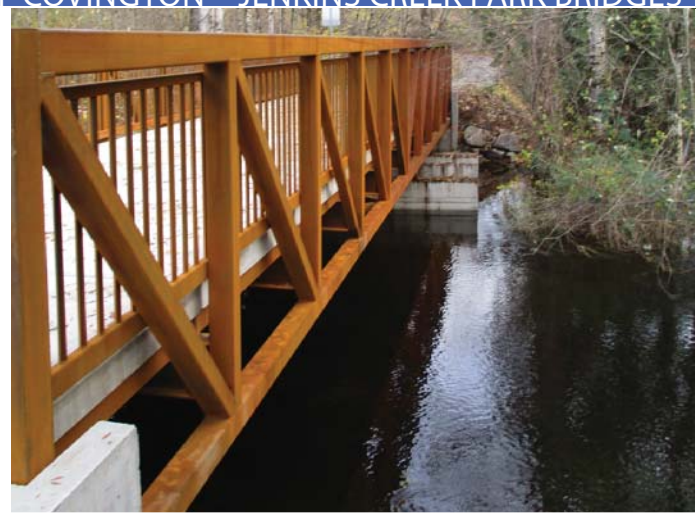
The City planned to recoat Reservoir 5, a 1.0 MG steel ground-supported reservoir constructed in 1981 with an overflow height of 60.5 feet and a diameter of 53.25 feet. The City asked G&O to provide a comprehensive reservoir assessment to identify improvements that could be installed in conjunction with recoating the reservoir. The assessment included a seismic evaluation to identify deficiencies and provide recommendations for seismic upgrades. Options analysis of several retrofit options was performed to facilitate selection of the option that best met the City's goals. Upon completion of the assessment, the City retained G&O to complete design and provide construction support services.

NORTHSHORE UTILITY DISTRICT – LAKE FOREST PARK RESERVOIR SEISMIC EVALUATION AND RETROFIT

The project included condition evaluation and seismic evaluation of an existing 4.3 MG concrete reservoir. The reservoir is circular and has concrete walls wrapped with pre-tensioned wire and a concrete roof supported from regularly spaced interior column. Items reviewed by the seismic evaluation included the roof-to-wall connection, unbalanced soil loading on the reservoir, seismic cables at the base of walls, and roof diaphragm. The condition of the interior and exterior of the reservoir was reviewed during a site inspection. Plans and specifications were subsequently assembled for recommended upgrades.

CITY OF COVINGTON – JENKINS CREEK PARK BRIDGES

This project constructed 1,250 linear feet of 10-foot wide paved shared-use trail and two bridges within Jenkins Creek Park to connect SE 267th Place with Jenkins Creek Elementary School. The work included clearing and grubbing, grading, pavement construction, cement concrete retaining walls, fencing, retrofitting existing concrete piers to support the Jenkins Creek bridge, construction of new concrete bridge foundations for the Spring Pond bridge, two prefabricated steel bridges, buffer mitigation planting work, surface restoration, and signing. After the prefabricated steel bridges were lowered into their final position, concrete was placed on the metal decks of the bridges to create the finished deck surface.



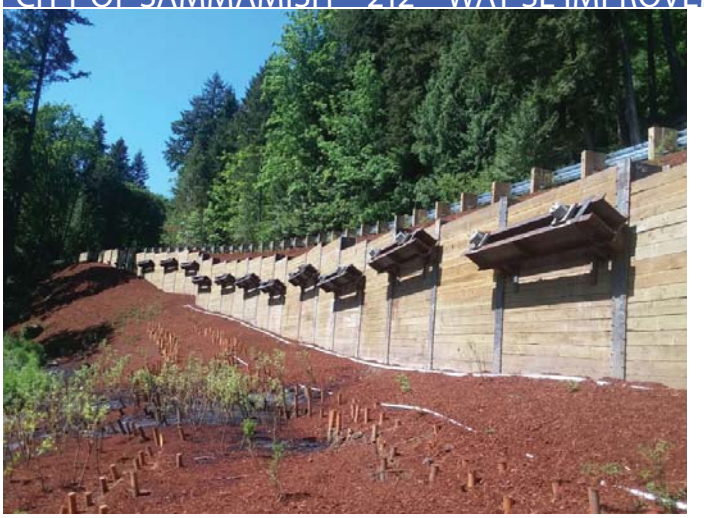
STILLAGUAMISH TRIBE – ZIS A BA FLOOD RELIEF GATE

G&O designed flood gates as part of a larger 87-acre estuary restoration project on the Stillaguamish River in Snohomish County. The project involved installation of a flood gate structure that would release overtopped water from the landward side of an agricultural levy near Stillaguamish Tribal land. This flood gate consisted of 10 individual gates, each approximately 10 feet by 5 feet in size. The gates were attached to a concrete-based structure that was keyed into the dike with a rock apron extending to the waterward side of the foundation for the purpose of minimizing erosion.

CITY OF ISSAQUAH – SE 62ND EXTENSION PEDESTRIAN UNDERCROSSING

The $23 million project included reconstructing and extending SE 62nd Street from near East Lake Sammamish Parkway SE to near Lake Drive. As part of the project, G&O provided structural design and project coordination for a new pedestrian undercrossing of SE 62nd Street by East Lake Sammamish Trail users. The undercrossing utilizes three-sided sections of precast concrete with radiused corners. Each end of the undercrossing was carefully integrated with the surrounding site features. The project also included structural design of sheet pile retaining walls and concrete storm detention facilities.

CITY OF SAMMAMISH – 212TH WAY SE IMPROVEMENTS RETAINING WALLS



This project included slope stabilization (reinforced soil slopes) and soldier pile wall installation within a landslide hazard area along 212th Way SE, easterly of East Lake Sammamish Parkway SE. Improvements also include cast-in-place retaining walls, concrete stormwater detention structure, stormwater collection and treatment facilities, significant dewatering, roadway widening, wetland mitigation, and right-of-way acquisition. The project is geographically constrained by steep slopes on both sides of the roadway. The design included analysis of slope stabilization alternatives and use of seismic design criteria for retaining wall design.

SEATTLE CITY LIGHT – DECANT WASTE PROCESSING FACILITY

This facility accepts electrical vault hydro-excavation waste from vactor trucks within the utility's service area. Outdoor areas include sloped concrete pads, adjustable gates, and baffled vaults for sediment retention and settling. The facility contains an indoor treatment room that includes equipment designed for sediment filtration, oil and grease separation, an automated backwash filtration system, activated carbon filtration, and a small workstation. A 4,500-square-foot vehicle storage building was added to the scope of work.

CITY OF OAK HARBOR – DECEPTION PASS WATER MAIN INSPECTION

The project included the inspection of two welded steel water mains mounted underneath the Deception Pass Bridge, a 10-inch main installed in the 1940s and a 16-inch main installed in the 1970s. The 16-inch main is the main source of water for the City of Oak Harbor. G&O performed a condition assessment of the water main hangers and wrote a report on the condition of each hanger as well as a structural analysis of the hanger system. The 10-inch water main was found to be in poor condition and the report included recommendations for repairs.

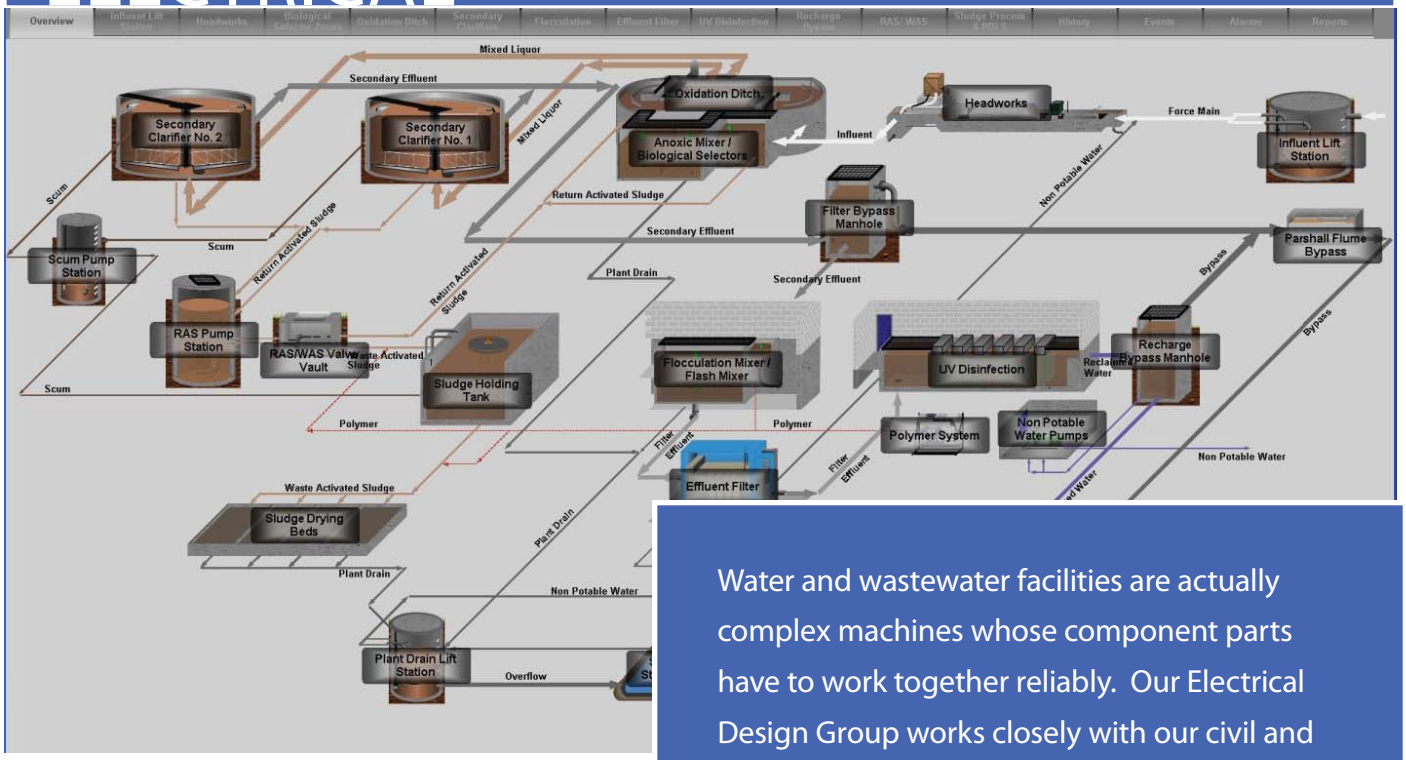
SOOS CREEK WATER & SEWER DISTRICT – MAINTENANCE FACILITY

G&O designed a maintenance facility for the District immediately north of their existing headquarters building in unincorporated King County. The project included acquisition of a King County building permit, site development, and new electric, stormwater, wastewater, water, and natural gas utilities. The project included 6,720 square feet of indoor space, a 700-square-foot covered vehicle wash-down area, and 840 square feet of covered machinery storage. The indoor space includes six pull-through bays for vehicle storage and maintenance, a restroom, mechanical room, a workshop area, an elevated mezzanine for material and equipment storage, a vehicle lift for maintenance activities, and fire and security system design.

GRANT COUNTY PORT DISTRICT 1 – COMMUNITY CENTER BUILDING EVALUATION

G&O performed a comprehensive building evaluation for an existing 8,000-square-foot community center in need of updates. The evaluation provided recommendations for upgrades with cost estimates.

ELECTRICAL



Warden – Water Reclamation Facility SCADA Overview Screen Shot

Water and wastewater facilities are actually complex machines whose component parts have to work together reliably. Our Electrical Design Group works closely with our civil and environmental design engineers to ensure that the following electrical elements are seamlessly integrated into the public works facilities we design:

Silver Lake Water & Sewer District – Valmont
Generator and Electrical Rack

Northshore Utility District – Lift Station 4 Generator

- Electrical Power Distribution
- Electrical Controls and Instrumentation
- Auxiliary Power Systems
- SCADA
- PLC Programming
- HMI Programming and Development
- Variable Frequency Drives (VFDs)
- Local Area Network Communications
- Fiber Optics
- Lighting
- Energy Code Analysis
- Energy Recovery Systems
- Value Engineering, Quality Assurance/Quality Control, and Constructability Review

CONSTRUCTION MANAGEMENT

Woodland – Cement Treated Base

Bothell – Lift Station 2 Wet Well

Resident Inspection

Successful public works projects require good project management, continuity between design and construction, excellent communication, and fast resolutions to unanticipated issues. Gray & Osborne has the field personnel, the online tools, and the design experience to effectively and efficiently manage construction projects to provide schedule and cost controls, funding agency compliance, and successful startup and commissioning. Our services include the following:

- Resident Inspection
- Online Construction Management Software
- Project Documentation
- Submittal Reviews
- Monthly Pay Estimates
- Commissioning and Startup
- Record Drawings
- Project Closeout
- Operation and Maintenance Manuals

Gray & Osborne Inc. CMS

CITY OF RIDGEFIELD - Junction Well Improvement and 1.0 MG Reservoir Project

Home | Insp Reports | RFI | Sup Docs | Meet Mins | MOR | Submittals | Subs/Payrolls | Prog Est | Chge Orders | Photos | Contacts

engineer logged in [logout]

PROJECT STATUS:

Thursday October 15, 2015

PROJECT DETAILS	
Project	JUNCTION WELL IMPROVEMENT AND 1.0 MG RESERVOIR PROJECT
Owner	CITY OF RIDGEFIELD
Contractor	CLACKAMAS CONSTRUCTION INC.
G&O Job No.	15263.00
City/District Project Number	
Start Date	TBA
Days Remaining:	See the latest Weekly Working Days Report here

REPORTS	LAST SUBMITTED	TOTAL
RFIs	2015/10/15	9
Daily Inspection Report	2015/10/14	24
Weekly Equipment and Manpower Report	2015/10/10	5
Weekly Working Days Report	2015/10/10	5
Weekly Quantity Report	2015/09/26	5
Materials Testing Report		0
Meeting Minutes	2015/08/13	2
Memos of Record		0
Construction Submittals	2015/10/14	45
O&M Construction Submittals		0
Request to Sublet Work	2015/10/13	1
Statement of Intent Log	2015/10/07	4
Minor Changes		0
Progress Estimates		0
Certified Payroll	2015/10/14	5
Survey Requests		0
Executed Change Orders		0

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Online Construction Management Software (CMS) Dashboard

CITY OF SAMMAMISH – EVANS CREEK PEDESTRIAN BRIDGE FOUNDATION

G&O completed foundation design and specifications for a 6-foot-wide pedestrian bridge spanning 35 feet over Evans Creek. The pedestrian bridge is part of a 2.6-mile trail system that snakes around and through the wetlands and meadows of the 179-acre Evans Creek Preserve. The preserve is a regional community park, developed by the City's Parks and Recreation Department, serving the residents of Sammamish, Redmond, Duvall, Issaquah, and Fall City. At the completion of the project, Parks Project Manager Kellye Hilde said "The prefabricated bridge exceeded the City's expectations. The completed bridge was beautifully designed and fit the project parameters perfectly."

SEATTLE CITY LIGHT – DECANT FACILITY AND VEHICLE STORAGE BUILDING

G&O provided a site alternatives analysis for a new Decant Waste Processing Facility. The proposed facility would accept vactor waste from the utility's electrical vault network as well as soil slurries from pole excavation and/or underground service installation. After completion of the alternatives analysis, the client contracted with G&O to manage the design and construction of the decant facility. The facility includes two sloped bays for waste deposition and handling, six settling chambers to remove solids, and a treatment facility designed to meet the requirements of the King County Industrial Waste Authorization Permit associated with the site. Treatment equipment was designed to remove solids, oil and grease, some metals, and polychlorinated biphenyls (PCBs) prior to discharge to the sanitary sewer system. Near design completion, the client added an adjacent 4,500-square-foot vehicle storage building.

CITY OF MILL CREEK – 35TH AVENUE RECONSTRUCTION

G&O provided construction management, inspection services, and construction staking for this Connect Washington and locally funded street reconstruction project. Approximately 1,000 linear feet of 35th Avenue SE, a three-lane minor arterial that is adjacent to wetlands, was reconstructed between 144th Street SE and 141st Street SE. This section of 35th Avenue SE was constructed on a peat deposit and had settled over 2 feet in the past 10 years. The rising water level in the adjacent wetlands and the sinking road resulted in road closures due to flooding. The project raised the road approximately 3 feet.

CITY OF SEATAC – DES MOINES MEMORIAL DRIVE

G&O completed the design, right-of-way acquisition, bid, and construction administration phases for the project. The project includes a new traffic signal at Des Moines Memorial Drive and South 200th Street. The project includes utility undergrounding, utility relocation, and installation of stormwater facilities, street illumination, retaining walls, driveway improvements, concrete curb and gutter, concrete sidewalks, HMA pavement widening to provide left-turn storage at each approach, and a right-turn lane on the east approach. This was a joint project between the City of SeaTac and the City of Des Moines.

SURVEY

Hydrographic Survey

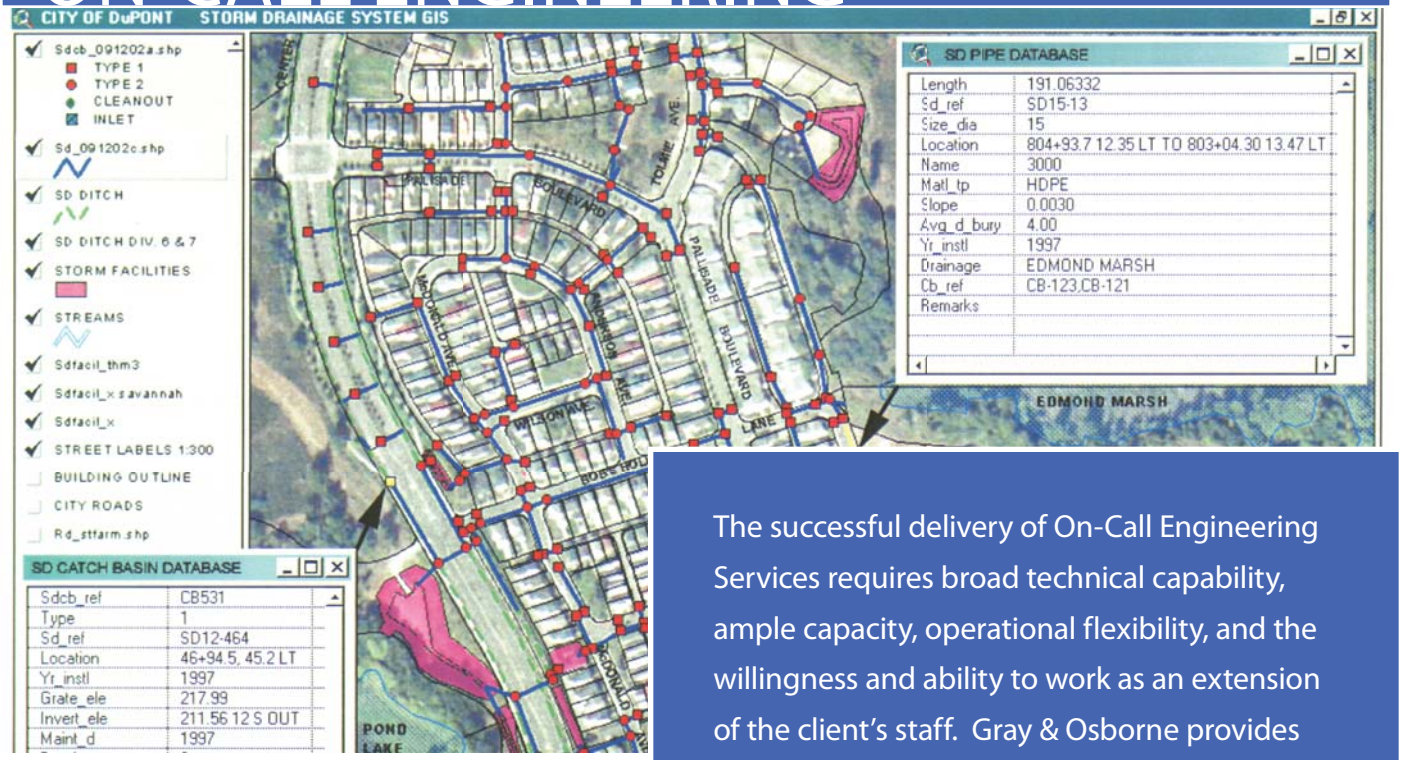
Topographic Mapping

Right-of-Way Mapping

Topographical survey is the foundation for all design in the public right-of-way and construction staking is the first and most critical step in construction. Our Professional Land Surveyor and three field crews have the equipment, technical training, and the experience to provide quality surveys, complete utility mapping, and accurate staking. Our survey professionals provide the following services:

- Right-of-Way Research, Documentation, Control, and Mapping
- Construction Layout and Staking
- Topographic Mapping
- Global Positioning System (GPS) Surveying
- Hydrographic Surveys
- Photometric Mapping
- Platting and Land Subdivision
- Site and Settlement Monitoring

ON-CALL ENGINEERING



GIS

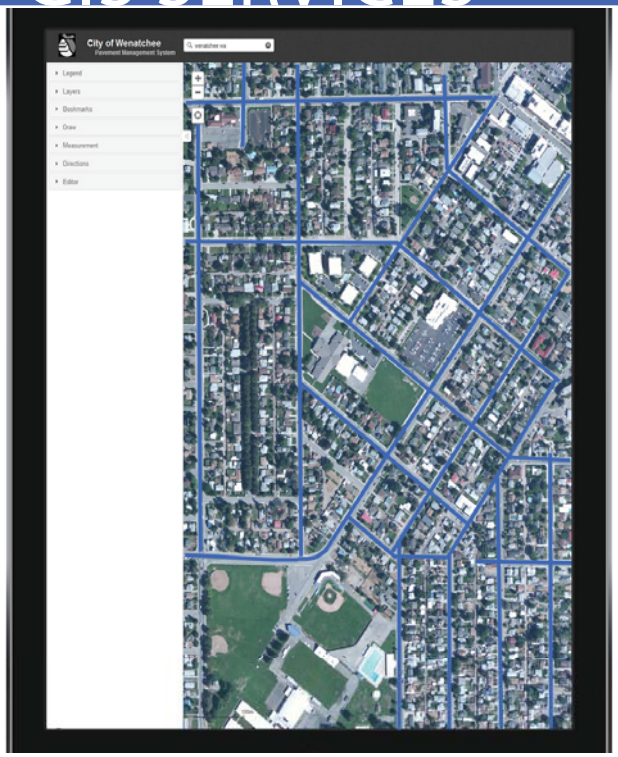
Mukilteo Water & Wastewater District – Emergency Wall Repair

Staff Training and Operations Assistance

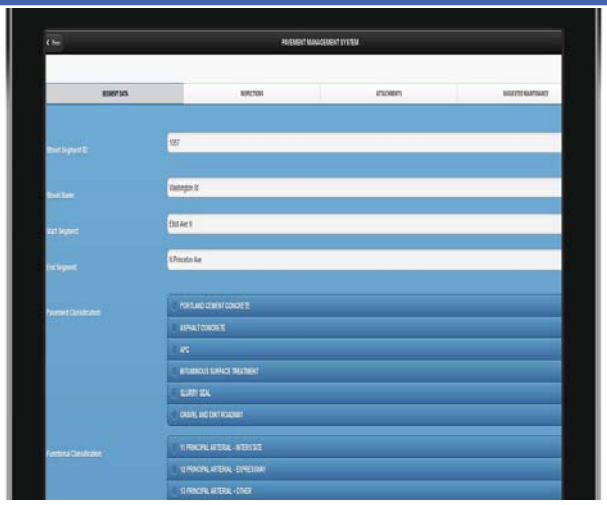
The successful delivery of On-Call Engineering Services requires broad technical capability, ample capacity, operational flexibility, and the willingness and ability to work as an extension of the client's staff. Gray & Osborne provides on-call engineering services to over 40 cities and special purpose districts, so we understand how long-term, on-call partnerships can be economical, efficient, and effective. Gray & Osborne can provide the following on-call services:

- Development Review Services
- Development Standard Review and Update
- Capital Project Scoping and Planning
- Capital Project Design including Preparation of Plans, Specifications, and Estimates
- Construction Management Assistance
- Emergency Response Assistance
- Public Meeting Technical Support
- Staff Training and Operations Assistance
- Grant and Loan Assistance
- Regulatory Compliance
- GIS Mapping and Services
- NPDES Review
- Professional Land Surveying

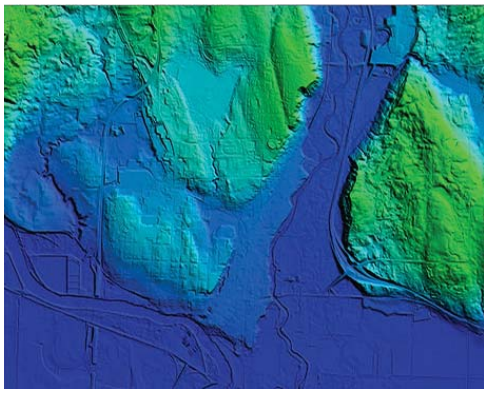
GIS SERVICES



Mobile GIS Applications



Geographic Information Systems (GIS) provide the link between mapping, inventory, maintenance, planning, and asset management. Gray & Osborne has provided GIS services to municipalities since the early 1990s, and we have continued to evolve to meet the needs of our clients, including the development of mapping and maintenance applications. Gray & Osborne provides the following GIS services:



Terrain Analysis

Utility Map Books

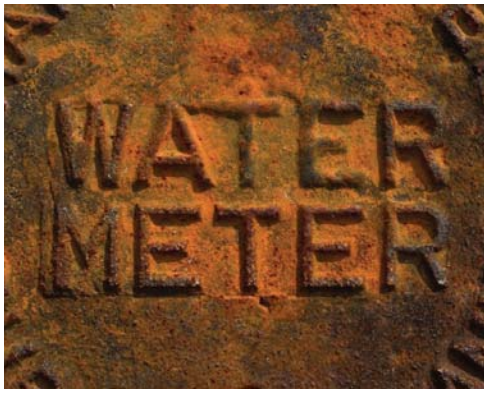
- Geodatabase Development
- Developer Extension Mapping and Inventory
- Land Use and Critical Areas Mapping
- Utility Mapping
- Spatial Analyst Modeling
- LiDAR Processing
- Custom Application Development for Asset Management
- GASB Compliance
- Hydraulic Model Development

FINANCIAL ANALYSIS

North Bend – ULID 6

Good financial planning and analysis ensures fair and equitable distribution of costs, adequate levels of service, and sustainable capital development. Gray & Osborne provides the following services to help our clients finance their present and plan for their future:

Rate Studies



System Development Charge

- Rate Studies
- System Development Charges
- Cost of Service Studies
- Capital Improvement Financing
- System Valuation
- Utility Formation
- LID/ULID Formation
- Public Education Programs
- Grant and Loan Applications

DEVELOPMENT REVIEW SERVICES

Plan Review

Site Development

Ridgefield – Developer Extension

Good growth management requires the fair and consistent application of development policy and design standards. Gray & Osborne has provided development review services for over 50 years, so when the pace of development accelerates with a rising economy, we have the knowledge and experience to serve as an effective extension of your staff. We provide the following development review services:

- Development Standard Review and Update
- Pre-Application Meeting and Consultation Services
- Preliminary Plat Review
- Construction Plan Review
- Resident Inspection
- Final Plat Review
- Feasibility Studies
- Traffic Modeling
- Fire Flow/Hydraulic Analysis
- Easement Review
- Warranty Bond Preparation
- Asset Valuation

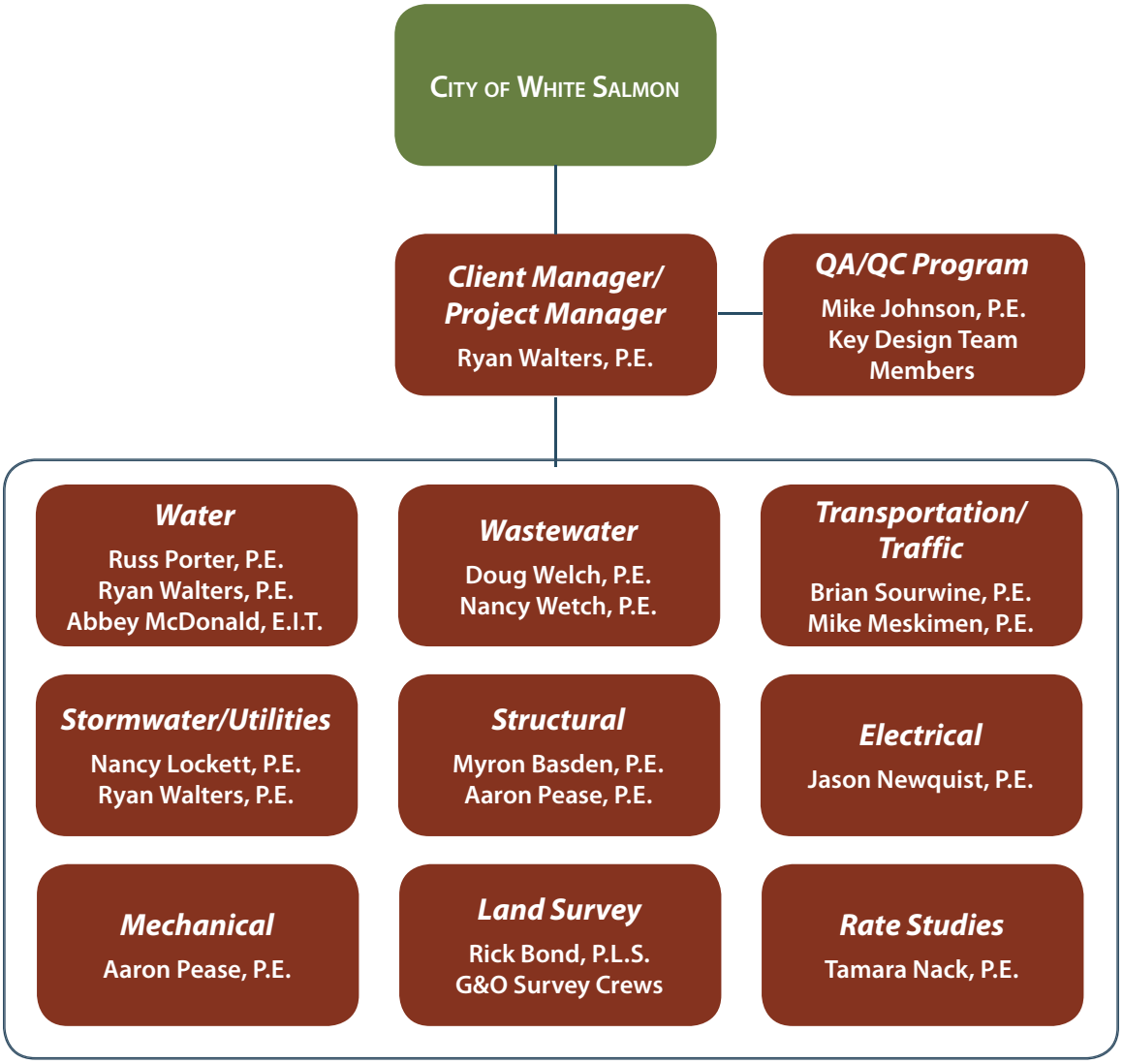
GRANT AND LOAN ASSISTANCE

Successful public works projects often require complex funding packages consisting of multiple grant and loan programs. Gray & Osborne provides assistance with applications and documentation for the following programs:

- Community Development Block Grant (HUD)
- Community Economic Revitalization Board (Commerce)
- Drinking Water State Revolving Fund (DOH)
- Ecology Water Quality Financial Assistance Programs
- Federal Highway Administration
- Public Works Trust Fund
- Recreation and Conservation Office (RCO)
- Transportation Improvement Board (TIB)
- USDA Rural Development
- WSDOT Funding Programs

PROJECT TEAM

Gray & Osborne would provide a talented and experienced team of professionals for the City of White Salmon. An organizational chart showing our proposed project team is provided below, followed by short resumes of each team member.



RYAN WALTERS, P.E., PROJECT MANAGER / UTILITIES

Ryan joined Gray & Osborne in April 2010 and has provided engineering services for over 10 years. Ryan has professional engineering licensure in both the States of Washington and Oregon, and additionally as a Level 1 NACE Certified Coatings Inspector. Ryan provides Client and Project Management services for various municipalities and Districts throughout the States of Washington and Oregon and is the Office Manager for Gray & Osborne's Vancouver office. Ryan has experience in the design, coordination, permitting, and construction management of utility design projects, including water and transmission mains, gravity sewer and force

mains, site storm facilities, pump and lift stations, and water reservoir construction and rehabilitation. As the Client and Project Manager, Ryan would be responsible for commitment of firm resources, quality control, budget and schedule management, and primary communication with the City. Ryan is dedicated to the quality of the product provided, fostering good communication, and completing projects on schedule and within budget.

Education: B.S. Civil Engineering, 2008 Washington State University
Registration: Civil Engineer, 2014, Washington (52192)
Civil Engineer, Oregon (91952)
NACE Certified Coating Inspector – Level 1, 2018, NACE International Institute (072244)

RUSSELL PORTER, P.E., PROJECT MANAGER - WATER

Russ is a Principal and head of Gray & Osborne's Water Group. Since joining Gray & Osborne in 1994, Russ has provided water system planning and design expertise. He is familiar with all aspects of water system design including source development, pumping, storage, and distribution. He is also familiar with water treatment plant design and operation including slow sand filtration, iron and manganese removal, reverse osmosis, conventional filtration, disinfection, arsenic removal, corrosion control, air stripping, and fluoridation. Recent projects for which Russ provided project management and engineering include the City of Camas Washougal wellfield improvements, City of Roy booster station, Klickitat iron and manganese treatment, City of Camas Upper Prune Hill 2.4 MG reservoir and booster station, City of Kent 4 MG reservoir, Soos Creek Water & Sewer District 208th Waterline Improvement, and water comprehensive plans for the Cities of Poulsbo, North Bend, Puyallup, Milton, and Steilacoom. Russ has assisted with water planning and engineering for the City of Bingen, serving as QA/QC engineer on two water system plans and the odor control pilot study for the Bingen water system.

Education: B.S. Chemistry, 1988, University of Montana/M.S.E. Environmental Engineering, 1992, University of Washington
Registration: Civil Engineer, 1998, Washington (35688)/Chemical Engineer, 2001,Washington (35688)/ Environmental Engineer, 2004, Washington (35688)

DOUG WELCH, P.E., PROJECT MANAGER - WASTEWATER

Doug is a Principal and head of Gray & Osborne's Wastewater Group. He has over 20 years of experience in civil and environmental engineering. He has participated in all phases of wastewater collection and treatment system projects, from planning and preliminary engineering through final design and construction management. He spent nearly 2 years as a guest researcher in Sweden conducting research on the dynamic modeling of large-scale wastewater treatment facilities. Doug has also been involved in all facets of leachate management and treatment, from projections of leachate flows and characteristics to the evaluation, design, and construction of leachate treatment facilities. In addition, he has completed several hydrologic evaluations of small catchments around the state. Finally, Doug has been involved in the siting, design, and construction management of sanitary landfills. Doug was the Project Engineer for the City of Puyallup Water Pollution Control Facility Improvements, the Douglas County Sewer District No. 1, East Wenatchee, Washington, Wastewater Treatment Facility, the City of Sumner Wastewater Treatment Plant Upgrade, the City of Camas Wastewater Treatment Facility Improvements, including the design of a centrifuge sludge dewatering system, the Fort Lewis Wastewater Treatment Facilities Improvements, and the Sunnyside Wastewater Treatment Facilities for the Lake Stevens Sewer District.

Education: B.S. Civil Engineering, University of Washington; M.S. Civil Engineering, University of Washington
Registration: Civil Engineer (1993), Washington (29703)

NANCY WETCH, P.E., WASTEWATER

Nancy has an educational background in chemical engineering. Since joining Gray & Osborne in 2002, she has been involved with planning, design, cost estimating, preparation of plans, specifications, and bid documents, and construction administration for wastewater treatment facility projects for several municipalities. Her experience includes facility plans and engineering reports for the Yakima Training Center, City of Okanogan, Klickitat County PUD – Community of Klickitat, City of Kittitas, City of Warden, and City of Toppenish; design and preparation of plans, specifications, and bid documents for the City of Zillah, Klickitat County PUD – Communities of Lyle and Klickitat, City of Kittitas, City of Warden, and City of Toppenish; and construction administration for the City of Kittitas and Klickitat County PUD – Community of Lyle. Nancy assisted in the wastewater treatment facility evaluation for the City of Bingen and White Salmon Wastewater Facility/General Sewer Plan.

Education: B.S. Chemical Engineering, 1997, Washington State University
Registration: Civil Engineer, 2006, Washington (42805)

MIKE MESKIMEN, P.E., PROJECT MANAGER - TRANSPORTATION

Mike has been with Gray & Osborne since 1998 and over that time has completed a number of transportation and utility projects in Central and Eastern Washington communities. Mike brings a background in roadway, street, sidewalk and utility design using a variety of techniques including full reconstruction, grind and overlays, bituminous surface treatments, and full depth reclamation techniques including pulverization and cement treated bases. He is also experienced with the requirements for an array of federal, state, and local funding programs including WSDOT, FHWA, and TIB. His experience working with local representatives for many regulatory, permitting, and funding agencies helps to streamline approval processes and avoid pitfalls that can effect project schedules resulting in functional, sound, and economically feasible projects.

Mike has served as project manager for design and construction of recently completed projects in Kittitas, Ephrata, Soap Lake, Bridgeport, Coulee City, Omak, Okanogan, Grand Coulee, Morton, Mattawa, Wapato, and Warden as well as many other eastern Washington cities. Mike was the Project Manager for the Humboldt Street Predesign Report and Reconstruction, Jefferson Street Traffic and Stormwater Evaluation for the City of Bingen; Patrick Avenue Improvements Phase 1 & 2 and Caribou Creek Bridge Replacement for the City of Kittitas; B Street Improvements and Main Street Reconstruction for the City of Mabton.

Education: B.S. Civil Engineering, 1997, Montana State University
Registration: Civil Engineer, 2002, Washington (39378)

NANCY LOCKETT, P.E., PROJECT MANAGER - STORMWATER

Nancy is a principal and the lead engineer for Gray & Osborne's Stormwater Group. Nancy's experience includes stormwater comprehensive and flood hazard management planning, development of operation and maintenance procedures for stormwater systems, stormwater utility development, stormwater rate studies, development of NPDES Phase II programs, and design of stormwater conveyance, detention, and water quality facilities. Nancy's background with Gray & Osborne

also includes comprehensive planning for water and wastewater systems, design of water and wastewater conveyance and treatment facilities, operation and maintenance manuals for water and wastewater facilities, rate studies, and city engineering.

Education: M.S.E. Environmental Engineering, 1989/University of Washington/Ph.D. Fisheries, 1983, University of Washington
Registration: Civil Engineer, 1993, Washington (29664)

MYRON J. BASDEN, P.E., S.E., STRUCTURAL ENGINEER

Myron has over 10 years of experience in the structural engineering of buildings and utility structures. He has experience with a wide variety of structures including wastewater facilities, reservoirs, decant facilities, utility structures, medical centers, and commercial/residential. His design experience includes seismic design, seismic retrofits, renovations of existing buildings, thermal expansion/contraction, and vibration. Myron's specialized reservoir experience includes design of new reservoirs and seismic analysis of existing reservoirs. He has performed structural analysis for over 10 reservoirs within the last three years. At Gray & Osborne he is the lead project manager for structural projects and manages the technician group in Gray & Osborne's Seattle office . During the development of design drawings, Myron also provides detailed coordination with other disciplines such as architectural, mechanical, and electrical. He is a member of the Structural Engineers Association of Washington State (SEAW).

Education: B.S. Civil Engineering, 2005, University of Washington
Registration: Civil Engineer, 2009, Washington (46334)
Structural Engineer, 2011, Washington (46334)

AARON PEASE, P.E., LEED A.P., FACILITIES DESIGN AND ARCHITECTURE/MECHANICAL

Since joining Gray & Osborne in 1998, Aaron has prepared construction drawings, specifications, and contract documents for numerous water system, wastewater system, and building projects. Aaron has gained valuable experience in the planning, design and construction of wells, booster stations, interties, treatment plants (water and wastewater), including associated transmission and distribution systems. Aaron's recent experience includes architectural design support and construction administration for a $20 million wastewater treatment plant for the City of Raymond plus architectural engineering and management for wastewater treatment facilities for Cathlamet and Toledo, all of which included multiple buildings in campus-style settings. He recently designed new maintenance facilities for the Sammamish Plateau Water & Sewer District and the Soos Creek Water & Sewer District. Since gaining his LEED accreditation and his secondary professional engineering license in building systems (architectural engineering), Aaron has served as project architect for several projects. Aaron also serves as a lead QA/QC reviewer for Gray & Osborne's other building projects performing clash analysis and cross-discipline coordinate checks.

Education: B.S. Civil/Environmental Engineering, 1998, Iowa State University
Registration: Civil Engineer, 2003, Washington (40276)
Building Systems Engineer, 2008, Washington (40276)
LEED Accredited Professional Building Design + Construction, 2010

RICK BOND, P.L.S., SURVEY GROUP MANAGER/PROFESSIONAL LAND SURVEYOR

Rick is a Washington State licensed professional land surveyor with over 21 years of experience, including 13 years as a licensed land surveyor. He has provided ground control, topographical survey, right-of-way calculations, legal descriptions, right-of-way mapping, and has worked with a variety of aerial photogrammetrists. He is well versed in electronic data collection, data transfer, and automated data reduction for geodetic control, cadastral, topographic, boundary, subdivisions, and construction surveys. Rick is proficient in terrestrial observation utilizing total station with electronic data collection, data transfer, automated data reduction, and writing and interpreting legal descriptions. He routinely works with a variety of software such as AutoCAD, Civil 3D, Starnet, Leica Geo. Rick manages day-to-day operations of our survey crew(s), write, and/or supervise preparation of legal descriptions and right of way mapping, coordinate with property owners, prepare estimates, supervise personnel, and answer inquiries from the owner or other team members.

Education: Associate of Applied Science, 1991, ITT Technical College
Registration: Professional Land Surveyor, Washington, 2003 (40097); Utah, 2001 (4804680-2201)

REFERENCES

Client	Contact	Phone
Ames Lake Water Association	Bob Pancoast, Water System Manager	425.222.7003
City of Anacortes	Fred Buckenmeyer, Public Works Director	360.293.1919
City of Bellingham	Jim Bergner, Utility Operations Engineer	360.778.7731
City of Bingen	Betty Barnes, Mayor	509.493.2122
City of Bothell	Eddie Low, P.E., City Engineer	425.486.2768
City of Bridgeport	Stuart Dezellem, Public Works Director	509.686.4041
City of Buckley	Dave Schmidt, City Administrator	360.761.7802
City of Burlington	Don Erickson, WWTP Manager	360.757.4085
City of Camas	Jim Hodges, Engineering Project Manager	360.817.1561
City of Castle Rock	David Vorse, Public Works Director	360.274.7478
Town of Cathlamet	Duncan Cruikshank, Public Works Supt.	360.795.8032
City of Chelan	Jake Youngren, Public Works Director	509.682.8032
Chelan County PUD	Ron Slabaugh, P.E., Engineer	509.663.8121
Port of Coulee City	Travis Liening, Chairman	509.683.3100
Town of Coulee City	Shirley Rae Maes, Mayor	509.632.5331
City of Covington	Don Vondran, P.E., Public Works Director	253.480.2462
City of DuPont	Gus Lim, P.E., Public Works Director	253.912.5380
Town of Electric City	John T. Nordine II, Mayor	509.633.1510
City of Ellensburg	John Akers, P.E., City Manager	509.962.7221
City of Ephrata	Wes Crago, City Administrator	509.754.4601
Port of Ephrata	Mike Wren, Manager	509.754.3508
Town of Friday Harbor	Duncan Wilson, Town Administrator	360.378.2390
City of George	Tina Evenson, City Clerk	509.785.5081
City of Grand Coulee	Carol Boyce, Clerk/Treasurer	509.633.1105
City of Granite Falls	Brent Kirk, City Manager & Public Works Director	360.691.6441
City of Ilwaco	Gary Forner, Mayor	360.642.3145
City of Kalama	Kelly Rasmussen, Public Works Director	360.673.3706
City of Kenmore	Kent Vaughan P.E., Senior Civil Engineer	425.398.8900
King County Water District 54	Eric Clarke, Manager	206.878.7210
City of Kirkland	Dave Snider, P.E., Senior Engineer	425.828.1239
City of Kittitas	Bryan Nash, Public Works Foreman	509.968.0220
Kittitas County Water District 4	Robert Eddings, Commissioner	509.899.3371
Lake Stevens Sewer District	Tonya Christoffersen, General Manager	425.334.8588
City of Long Beach	David Glasson, City Administrator	360.642.4421
LOTT Clean Water Alliance	Brian Topolski, Engineering Director	360.528.5703
City of Mabton	Laura Vazquez, Mayor	509.894.4096
Mason County Public Works	Bart Stepp, P.E., Deputy Director	360.427.9670
City of Milton	Jamie Carter, P.E., City Engineer	253.517.2708
City of Morton	Anders Pollman, Public Works Superintendent	360.646.6094

Client	Contact	Phone
Mukilteo Water & Wastewater District	Jim Voetberg, P.E., General Manager	425.355.3355
City of Newcastle	Rob Wyman, City Manager	425.649.4444
City of North Bend	Mark Rigos, P.E., Public Works Director	425.888.7650
Northshore Utility District	Stephen Dennehy, P.E., Engineering Director	425.398.4422
City of Ocean Shores	Nick Bird, P.E., Public Works Director	360.940.7542
City of Okanogan	Craig Attwood, City Clerk	509.422.3600
City of Olympia	Tim Richardson, P.E., Engineering Supervisor	360.753.8749
City of Omak	Ken Mears, Public Works Director	509.826.1170
City of Pasco	Kent McCue, Construction Manager	509.544.3080
Town of Pe Ell	Lonnie Willey, Mayor	360.291.3543
City of Port Townsend	Dave Peterson, P.E., City Engineer	360.379.5088
City of Puyallup	Rob Andreotti, Public Works Director	253.841.5513
Port of Quincy	Curt Morris, President	509.787.3715
City of Quincy	Ariel Belino, City Engineer	509.787.3523
City of Rainier	Ron Gibson, Public Works Director	360.446.2265
City of Richland	Steve Brewer, Wastewater Manager	509.942.7480
City of Ridgefield	Bryan Kast, P.E., Public Works Director	360.887.8251
City of Royal City	John Lasen, Public Works Director	509.346.2263
Sallal Water Association	Ted Stonebridge, Manager	425.888.3650
Sammamish Plateau Water	Kyle Wong, P.E., Engineering Manager	425.392.6256
City of Shelton	Craig Gregory, Public Works Director	360.432.5125
Silver Lake Water & Sewer District	Curt Brees, District Manager	425.337.3647
Town of Skykomish	Steve Larner, Utilities Supervisor	425.275.1855
City of Snoqualmie	Brian Coleman, P.E., Senior Engineer	425.831.4919
City of Soap Lake	Raymond Gravelle, Mayor	509.246.1211
Soos Creek Water & Sewer District	Ken Van Den Bergh, Field Superintendent	253.893.7615
City of South Bend	Dennis Houk, City Supervisor	360.875.5571
Town of Steilacoom	Mark Burlingame, Public Works Director	253.581.1912
City of Sumner	Greg Kongslie, P.E., WWTP Manager	253.299.5760
Terrace Heights Sewer District	Jeff Alderson, Manager	509.453.8702
Thurston County Public Works	Theresa Parsons, P.E., Project Manager	360.867.2330
City of Tieton	Fred Muñoz, Clerk/Treasurer	509.673.3162
City of Toledo	Michelle Whitten, City Clerk	360.864.4564
City of Toppenish	Lance Hoyt, Public Works Director	509.865.4500
City of University Place	Gary Cooper, Director of Public Works	253.460.6493
Wahkiakum County PUD 1	David Tramblie, Manager	360.795.3266
City of Wapato	Jeff Schumacker, Public Works Director	509.877.3031
City of Warden	Kriss Shuler, Clerk-Treasurer, Administrator	509.349.2326
Water District 19	Jim McRae	206.463.9007
City of Westport	Kevin Goodrich, Public Works Director	360.268.0131
Whatcom County Water District 13	Phil Cloward, Commissioner	360.599.1801
City of Woodland	Tracy Coleman, Public Works Director	360.225.7999
City of Yakima	Dave Brown, Water/Irrigation Manager	509.575.6204
City of Yelm	Chad Bedlington, P.E., Public Works Director	360.458.8414

Seattle Office
1130 Rainier Avenue South
Suite 300
Seattle, Washington 98144
p 206.284.0860
f 206.283.3206
email grayosborne@g-o.com

Yakima Office
180 Iron Horse Court
Yakima, Washington 98901
p 509.453.4833
email yakima@g-o.com

Olympia Office
2102 Carriage Drive SW
Building I
Olympia, Washington 98502
p 360.292.7481
f 360.292.7517
email olympia@g-o.com

Arlington Office
3710 168th Street NE
Building B, Suite 210
Arlington, Washington 98223
p 360.454.5490
f 360.454.5491
email arlington@g-o.com

Vancouver Office
8513 NE Hazel Dell Avenue
Suite 202
Vancouver, Washington 98665
p 360.571.3350
email vancouver@g-o.com

Wenatchee Office
11 Spokane Street
Suite 207
Wenatchee, Washington 98801
p 509.853.2460
email wenatchee@g-o.com

Item Attachment Documents:

5. Personal Services Contract - Aspect Consulting - Hydrogeological Engineering Services
   a. Presentation and Discussion
   b. Action

AGENDA MEMO

Needs Legal Review: Yes
Council Meeting Date: April 1, 2020
Agenda Item: Personal Services Contract – Hydrogeological Engineering – Aspect Consulting

Action Required
Authorize the Mayor to sign Personal Services Contract with Aspect Consulting. for Hydrogeological Engineering Services.

Motion
Move to authorize the Mayor to sign Personal Services Contract with Aspect Consulting. for a master contract and fees as established in Exhibit A for a two-year period ending December 31, 2021 for Hydrogeological Engineering Services.

Explanation of Issue
The City of White Salmon requested Statements of Qualifications from engineering firms for General Civil Engineering, Transportation Engineering, Water Engineering, Wastewater Engineering, Hydrogeological Engineering and Services, and Surveying Services. Sixteen companies submitted Statements of Qualifications. The SOQ's were evaluated under each category.

Based on the evaluations and rankings of the companies, staff finds that Aspect Consulting is a highly qualified firm to provide the hydrogeological engineering services the city needs for 2020-2021 period.

Staff Recommendation
Staff recommends the city council authorize the Mayor to sign a Personal Services Contract with Aspect Consulting for the city's hydrogeological engineering services.

CITY OF WHITE SALMON
PERSONAL SERVICES CONTRACT

This contract is between the City of White Salmon and Aspect Consulting hereafter called Contractor. City's Contract Administrator for this contract is Patrick Munyan, City Administrator.

Effective Date and Duration
This contract shall become effective on the date at which every party has signed this contract. This contract shall expire, unless otherwise terminated or extended on December 31, 2021.

Statement of Work
(a) This contract is for Hydrogeological Engineering Services for a two-year period.
(b) Each specific project or service provided under this contract will require a task order/scope of work with estimated hours and costs associated with the project or service to be approved by the City of White Salmon.

Consideration
(a) City agrees to pay Contractor for time, materials and expenses incurred in the performance of duties as identified in each approved task order/scope of work.
(b) Monthly invoices shall be submitted to the City itemizing all time, materials and expenses incurred as planning consultant to the City, breaking down such expenses by project. Costs for time, materials and expenses shall be pursuant to Aspect Consulting's fee schedule as provided in Exhibit A.

Amendments
The terms of this contract shall not be waived, altered, modified, supplemented or amended in any manner whatsoever except by written instrument signed by both parties.

Terms and conditions listed on page two

CONTRACTOR DATA, CERTIFICATION, AND SIGNATURE

Name (please print): Aspect Consulting
Address: 350 Madison Ave. N.
Bainbridge Island WA 98110-1810
Federal Tax ID No: 91-2149055
Phone: 206-780-9730

Citizenship: Non resident alien	☐	Yes	X	No
Business Designation (Check one):	☐	Individual	☐	Sole Proprietorship
	☐	Partnership	☐	Estate/Trust
	X	Corporation	☐	Public Service Corporation
	☐	Governmental/Nonprofit		

Payment information will be reported to the IRS under the name and taxpayer ID number provided above. Information must be provided prior to contract approval. Information not matching IRS records could subject Contractor to 31 percent backup withholding.

I, the undersigned: agree to perform work outlined in this contract in accordance to the terms and conditions (listed on the front and backside and made part of this contract by reference) and the statement of work made part of this contract by reference hereby certify under penalty of perjury that I/my business am not/is no in violation of any Washington tax laws; and thereby certify I am an independent contractor. As noted in No. 21 of the Standard Contract Provisions, where required for Federal funding, Contractor certifications and signatures apply to Exhibits C and D.

Approved by the Contractor: _____ _____
Signature Date

Approved by the City: _____ _____
Marla Keethler, Mayor Date

Approved by Council: _____
Date

STANDARD CONTRACT PROVISIONS FOR PERSONAL SERVICES (NON-PERS MEMBERS)

1. Retirement System Status

Contractor is not a contributing member of the Public Employees' Retirement System and is responsible for any federal or state taxes applicable to any comprehensive or payments paid to contractor under this contract. Contractor is not eligible for any benefits from these contract payments of federal Social Security, unemployment insurance, or workers compensation except as a self-employed individual.

2. Effective Date and Duration

The passage of the contract expiration date (as recorded on reverse side) shall not extinguish, prejudice or limit either party's right to enforce this contract with respect to any default or defect in performance that has not been cured.

3. Government Employment Status

If this payment is to be charged against federal funds, Contractor certifies it is not currently employed by the federal government.

4. Subcontractors and Assignment

Contractor shall not enter into any subcontractors for any other work scheduled under this contract without prior written consent of the City. Subcontractors exceeding $20,000 in cost shall contain all required provisions of the prime contract.

5. Dual Payment

Contractor shall not be compensated for work performed under this contract by any other municipality of the State of Washington.

6. Funds Available and Authorized

City certifies at the time of contract execution that sufficient funds are available and authorized for expenditure to finance costs of this contract within the City's appropriation or limitation.

7. Termination

(a) This contract may be terminated by mutual consent of both parties, or by the City upon 30 days' notice in writing and delivered by certified mail or in person.

(b) City may terminate this contract effective upon delivery of written notice to the Contractor, or at such later date as may be established by the City, under any of the following conditions:

(i) If City funding from federal, state or other sources is not obtained and continued at levels sufficient to allow for the purchase of the indicated quality of services. The contract may be modified to accommodate a reduction in funds.

(ii) If federal or state regulations or guidelines are modified, changes or interpreted in such away that the services are no longer allowable or appropriate for purchase under this contract or are no longer eligible for the funding proposed for payments authorized by this contract.

(iii) If any license or certificate required by law or regulation to be held by the Contractor to provide the services required by this contract is for any reason denied, revoked or no renewed. Any such termination of this contract under subparagraphs 7(a) or 7(b) shall be without prejudice to any obligations or liabilities of either party already accrued prior to such termination.

(c) The City may terminate the whole or any part of this agreement by written notice of default (including breach of contract) to the Contractor.

(i) If the Contractor fails to provide services called for by this contract within the time specified herein or any extension thereof, or

(ii) If the Contractor fails to perform any of the other provisions of this contract, or so fails to pursue the work as to endanger performance of this contract in accordance with its terms, and after receipt of written notice from the City, fails to correct such failures within 10 days or such other period as the City may authorize.

The rights and remedies of the City provided in the above clause related to defaults (including breach of contract) by the Contractor shall not be exclusive and are in addition to any other rights and remedies provide by law or under this contract.

8. Access to Records

City, the Secretary of State's Office of the State of Washington, the federal government, and their duly authorized representatives shall have access to the books, documents, papers and records of the Contractor directly pertinent to the specific contract for the purpose of making audit, examination, excerpts and transcripts of the period of three (3) years after final payment. Copies of applicable records shall be made available upon request. Payment for cost of copies is reimbursable by City.

9. State Tort Claims Act

Contractor is not an officer, employee or agent of the State or City as those terms are used in RCW 4.96.020.

10. Compliance with Applicable Law

Contractor shall comply with all federal, state and local laws and ordinances applicable to the work under this contract.

11 Indemnification

(a) Indemnity-Claims for Other than Professional Liability

Contractor shall defend, save and hold harmless the City their officers, agents and employees form all claims, suites or actions of whatsoever nature, including international acts resulting from or arising out of the Contractor or its subcontractors, agents or employees under this agreement. The Contractor waives, with respect to the City, its immunity under industrial insurance, Title 51 RCW. This waiver has been mutually negotiated by the parties. This indemnification shall survive the expiration or termination of this Agreement.

(b). Indemnity-Claims for Professional Liability

Contractor shall defend, save and hold harmless the City, their officers, agents and employees, from all claims, suits or actions arising out of the professional negligent acts, errors or omissions of Contractor or its subcontractors and subconsultants, agents or employees in performance of professional services under this agreement.

12. Insurance

(a) Liability Insurance. Contractor shall maintain occurrence form commercial general liability and automobile liability insurance for the protection of he contractor, the City, its commissioners, employees, and agents. Coverage shall include personal injury, bodily injury, including death, and broad form property damage, including loss of use of property, occurring in the course of or in any way related to Contractor's operations, in an amount not less than $1,000,000.00 combined single limit per occurrence. Such insurance shall name the City as an additional insured with a coverage endorsement at least as broad as ISO CG 20 10 10 01.

(b) Workers' Compensation Coverage. Contractor certifies that Contractor has qualified for State of Washington Workers' Compensation coverage for all Contractor's employees who are subject to Washington's Workers' Compensation statute, either as a carrier-insured employer as provided by RCW Chapter 51 or as a self-insured employer.

(c) Certificates. Within 10 calendar days after full execution of this contract, Contractor shall furnish the City with certificates evidencing the date, amount, and type of insurance required by this contract. All policies shall provide for not less than thirty (30) days' written notice to the City before they may be canceled.

(d) Primary Coverage. The coverage provided by insurance required under this contract shall be primary, and shall not seek contribution from any insurance or self-insurance carried by the City.

13. Ownership of Work Product

All work products of the Contractor which result from this contract are the exclusive property of the City.

14. Nondiscrimination

Contractor agrees to comply with all applicable requirements of federal civil rights and rehabilitation statutes, rules and regulations. Contractor also shall comply with the Americana with Disabilities Act of 1990 (Pub L No. 101-336) including Title II of that Act, and all regulations and administrative rules established pursuant to that law.

15. Successors in Interest

The provisions of this contract shall be binding upon and shall inure to the benefit of the parties hereto, and their respective successors and assigns.

16. Execution and Counterparts

This contact may be executed in several counterparts, each of which shall be an original, all of which shall constitute but one and the same instrument.

17. Force Majeure

Neither party shall be held responsible for delay or default caused by fire, civil unrest, labor unrest, acts of God and war which is beyond such party's reasonable control. Each party shall, however, make all reasonable efforts to remove or eliminate such a cause of delay or default and shall, upon the cessation of the cause, diligently pursue performance or its obligations under the contract.

18. Severability

The parties agree that if any terms or provisions of this contract is declared by the court of competent jurisdiction to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the contract did not contain the particular terms or provisions held to be invalid.

19. Errors

The contractor shall perform such additional work as may be necessary to correct errors in the work required under this contract without undue delays and without additional cost.

20. Waiver

The failure of the City to enforce any provisions of the contract shall not constitute a waiver by the City of that or any other provision.

21. Other Requirements

When federal funds are involved in this contract, Contractor Debarment and Non-Collusion certifications and signatures apply to Exhibit C and D.

22. Governing Law

The provisions of this contract shall be construed in accordance with the provisions of the laws of the State of Washington. Any action or suit involving any question arising under this contract must be brought in the appropriate court of the state of Washington, Skamania County.

23. Attorney Fees

The prevailing party shall be entitled to reasonable attorney fees at trial and on appeal in an action brought with respect to this contact.

24. Merger Clause

THIS CONTRACT AND ATTACHED EXHIBITS CONSTITUTES THE ENTIRE AGREEMENT BETWEEN THE PARTIES. NO WAIVER, CONSENT, MODIFICATION OR CHANGE OF TERMS OF THE CONTRACT SHALL BIND EITHER PARTY UNLESS IN WRITING AND SIGNED BY BOTH PARTIES. SUCH WAIVER, CONSENT, MODIFICATION OR CHANGE IF MADE, SHALL BE EFFECTIVE ONLY IN SPECIFIC INSTANCES AND FOR THE SPECIFIC PURPOSE GIVEN. THERE ARE NO UNDERSTANDINGS, AGREEMENTS OR REPRESENTATIONS, ORAL OR WRITTEN, NOT SPECIFIED HEREIN REGARDING THIS CONTRACT. CONTRACTOR, BY THE SIGNATURE OF ITS AUTHORIZED REPRESENTATIVE, HEREBY ACKNOWLEDGES THAT HE/SHE HAS READ THIS CONTRACT, UNDERSTANDS IT AND AGREES TO BE BOUND BY ITS TERMS AND CONDITONS.

Exhibit "A"

Aspect CONSULTING

SCHEDULE OF CHARGES

Effective January 2020

Unless otherwise stated in the proposal or services agreement, current rates are as follows:

PERSONNEL CHARGES: ENGINEERS, SCIENTISTS, AND ANALYSTS	*Hourly Rate*
Principals and Associates	
Principal Scientist/Engineer/Analyst **2**	$263
Principal Scientist/Engineer/Analyst **1**	$249
Sr. Associate Scientist/Engineer/Analyst	$230
Associate Scientist/Engineer/Analyst	$215
Technical Professionals	
Senior Scientist/Engineer/Analyst **3**	$215
Senior Scientist/Engineer/Analyst **2**	$202
Senior Scientist/Engineer/Analyst **1**	$188
Project Scientist/Engineer/Analyst **3**	$173
Project Scientist/Engineer/Analyst **2**	$160
Project Scientist/Engineer/Analyst **1**	$150
Staff Scientist/Engineer/Analyst **3**	$138
Staff Scientist/Engineer/Analyst **2**	$125
Staff Scientist/Engineer/Analyst **1**	$116

PERSONNEL CHARGES: TECHNICAL AND PROJECT SUPPORT STAFF	*Hourly Rate*
Field/Construction Staff	
Field/Construction **Supervisor**	$128
Field **Technician 2**	$104
Field **Technician 1**	$97
Design, CAD, and Graphics Staff	
Engineering **Designer**	$150
Sr. CAD Technician/Specialist	$135
CAD Technician	$119
Technical Editing and Project Operations	
Sr. Technical **Editor**	$120
Technical **Editor** / Project **Coordinator 3**	$109
Project **Coordinator 2**	$101
Project **Coordinator 1**	$96

PERSONNEL CHARGES: TECHNOLOGY AND SOFTWARE DEVELOPMENT	*Hourly Rate*
Sr. Technology **Project Manager**	$224
Technology **Project Manager**	$208
Senior Software/Database Architect/**Developer**	$213
Software/Database Architect/**Developer**	$187

OTHER DISBURSEMENT CHARGES	
Legal Testimony (4-hour minimum)	$350/hr
Mileage	Federal Gov Rate **Plus 15%**
Subcontractors and Miscellaneous Expenses	Cost **Plus 15%**

Other equipment, rentals, and expenses will be provided on a per job basis.

Client acknowledges that Aspect will adjust the Schedule of Charges annually, and that the Agreement will remain valid for any and all annually adjusted Schedule of Charges.

February 14, 2020

Jan Brending
Clerk Treasurer
City of White Salmon
PO Box 2139
White Salmon, WA 98672

Re: 2020 Engineering Services Roster

Dear Jan:

Aspect Consulting, LLC (Aspect) looks to continue our successful working relationship with the City of White Salmon (City) and submits our qualifications to provide earth sciences and engineering services in the following categories:

Water Rights/Hydrogeological

- Water Rights
- Water Supply
- Water Planning

Water/Wastewater

Stormwater

- Stormwater Planning and Design
- Stormwater and Surface Water Monitoring
- Floodplain and Ecosystem Restoration Services

General Civil Engineering

Geotechnical

- Geologic Investigation and Subsurface Characterization
- Geotechnical Engineering
- Site Assessment and Evaluation
- Property Cleanup and Redevelopment
- Landfill and Solid Waste Engineering

Environmental

- Site Assessment and Evaluation
- Property Cleanup and Redevelopment
- Landfill and Solid Waste Engineering

In addition to these service areas, Aspect has a growing team of expert GIS analysts, drafters, cartographers, data scientists, and developers that help our clients and project teams find insights in the rich data that drives our hydrologic, geologic, and environmental studies.

Complementing our technical services, we have in-depth project experience in the White Salmon region supporting public, agricultural, and industrial clients. This project experience gives us key insight into regional conditions, thus allowing our technical team to get quickly up to speed when working with the City.

We look forward to continuing our support of the City's water resources projects and more.

Sincerely,

Aspect Consulting, LLC

Dan Haller, PE
Principal Water Resources Engineer
dhaller@aspectconsulting.com

Attachments: Statement of Qualifications

ASPECT IN BRIEF

Founded in 2001
Staff of 115

Our Landscape:
Pacific Northwest and Western US

Earth + Water Team:
Hydrogeologists
Remediation Engineers
Geotechnical Engineers
Hydrologists
Water Resource Engineers
Stormwater Engineers
Water Quality Specialists
Geologists
Engineering Geologists
GIS/Data Management Specialists

Aspect Offices:
Bainbridge Island - 206.780.9370
Bellingham - 360.746.8964
Bend - 541.306.3623
Olympia - 360.788.5146
Portland - 971.865.5890
Seattle - 206.328.7443
Wenatchee - 509.888.5767
Yakima - 509.895.5957

ABOUT ASPECT

Aspect Consulting, LLC (Aspect) is an earth sciences and engineering consulting firm providing water resources, environmental, geotechnical, and stormwater services for public, tribal, and private sector clients. Aspect's staff includes hydrogeologists, geologists, engineering geologists, geotechnical and civil engineers, information management specialists, and support staff.

We offer the City of White Salmon efficient and cost-effective earth and water engineering services to permit water rights, develop and protect water supplies, and manage stormwater runoff; remediate soil and groundwater and restore property; and develop geotechnical designs for roads, bridges, and buildings.

Aspect routinely works closely with our clients to integrate our technical work with their grant management requirements and public outreach efforts. Grant funding – whether Federal or State – provides additional reporting requirements, and we keep our clients abreast of project findings that affect reporting or public awareness every step of the way. Additionally, we have a long-established working relationship with the Washington State Department of Ecology and a track record of successful execution and completion of Ecology grant funded projects.

CONTACT

Dan Haller, PE, CWRE, Principal Water Resources Engineer
509.895.5462 | dhaller@aspectconsulting.com

Tim Flynn, LHG, CGWP, Principal Hydrogeologist
206.780.7730 | tflynn@aspectconsulting.com

REFERENCES

The best indication of Aspect's high performance standards and cost effectiveness is our repeat business from numerous clients. To evaluate our performance, we encourage you to check references from some of our clients, who are well qualified to provide a candid assessment of our work.

Pat Munyan
City of White Salmon
509.493.1133
Water Rights, Planning, Supply, Banking

Dave McClure
Klickitat County DNR
509.773.2410
Water Rights, Planning, Supply

Jon Morrow
City of Ellensburg
509.925.8619
Stormwater and Floodplain Restoration Projects

Mike Kaputa
Chelan County DNR
509.667.6584
Watershed Planning and Water Rights Projects

Isabel McClure
King County Solid Waste Division
206.477.5229
King County Landfill Projects

Lynn Manolopoulos
Davis Wright Tremaine
425.646.6146
Environmental and Stormwater Projects

Tom Tebb
Director, Office of Columbia River
509.574.3989
Water Rights, Planning, Supply

Lorin Reinelt
King County DNRP/WLRD - River and Floodplain Management Section - 206.477.4808
Floodplain Management Projects

Mark Sadler
City of Everett
206.615.1806
Riverside Mill RI/FS/CAP

Marilyn Guthrie
City of Bainbridge Island (Previously Port of Seattle)
206.780.3724
Environmental / Stormwater NPDES Projects

Tina Nelson
Kitsap County Public Works
360.337.5777
Geotechnical Projects

WATER RESOURCES

Managing a High-Demand Resource

Helping public agencies achieve their water rights and water supply goals is central to our water resources services. Combining hydrogeologic analysis with engineering design, our water resources team provides comprehensive subsurface insight to permit water rights, design water supply improvements, and protect water quality. With years of project experience in Central Washington, we offer strong knowledge of the White Salmon and Columbia River basins. Our established working relationship with Ecology's Central Region office help efficiently guide clients through complex water rights and water supply permitting processes.

Water Resources Services

Water Rights

- Certified Water Rights Examiner
- Source Approval
- Water Banking/Mitigation Support
- Water Right Acquisition and Transfer
- Water Right Due Diligence

Water Supply

- Aquifer Storage and Recovery
- Instream Flow Mitigation
- Production Well Design, Installation, and Rehabilitation
- Water Storage
- Wellhead Protection

Water Planning

- Critical Areas
- Grading and Drainage
- Groundwater and Hydrologic Modeling
- Impact Assessment and Mitigation
- Mine Reclamation
- SEPA & EIS
- Watershed Assessment and Planning

"Awesome Job! Thanks so much for all you have done on this project and for the work for Avista. The professional services provided by Aspect Consulting has proven to be the quality of excellence that I'd hoped for."

- Linda Kiefer
Environmental Resource Specialist
AVISTA

WATER RESOURCE PROJECT EXPERIENCE

Water Rights, Water Supply, and Water Planning

Water Resource Consulting Services | City of White Salmon

Water System Engineering
Aspect completed an appraisal level assessment related to developing a new municipal water supply source for the City along the White Salmon River. This new source is being pursued for development to provide improved reliability and increased supply in lieu of developing alternative sources elsewhere. Aspect is currently working with the City and stakeholders to provide funding for a feasibility study of developing a new source as a shared diversion with the White Salmon Irrigation District on the White Salmon River. We are also currently supporting the City in making system improvements to allow better operation of the ASR program.

Aquifer Storage and Recovery
Aspect completed an Ecology-funded Aquifer Storage and Recovery (ASR) feasibility study for the City of White Salmon. The study demonstrated that conducting ASR at one of the City's wells is a viable strategy for increasing municipal water supply and improving source reliability. Work included hydrogeologic analysis, wellhead engineering, development of operational procedures, and water right support. Pilot testing of the system was also completed, and Aspect processed the water rights for the City's ASR program under contract to Ecology. We are providing ongoing ASR support for the City related to permit compliance and operation and maintenance for the ASR program.

Water Rights Support
Aspect has supported the City of White Salmon in securing new water rights, completing right transfers, and establishing the White Salmon Water Bank. Our work included evaluation of the City's water rights portfolio, completion of hydrogeologic investigations, and representing the City to Ecology, the Klickitat County Water Conservancy Board, and other stakeholders to secure approval of new applications. Aspect continues to provide on-call water rights services to the City, including support for permitting a new surface water source, and management of the White Salmon Water Bank through establishment of Trust Water Right Agreements with Ecology.

Water Supply Support
Aspect worked with the City of White Salmon to determine the cause for the decline in the yield of the City's two municipal water supply wells. Work has included providing recommendations for well rehabilitation to improve/restore well yield and design input for pump replacement and operation. Findings of our analysis indicate that the decline in yield is in part due to pump deterioration as well as overpumping, resulting in depletion in storage. The City successfully implemented the pump modification and changes in system operations to a sustainable level.

Water Quality Assessment
Aspect provided on-call services related to Ecology's 2015 water quality assessment for Buck Creek. Work included survey of Underwood Conservation District's WQ-2 temperature monitoring station to evaluate the potential that the monitoring station was indurated by the former Northwestern Lake created by Condit Dam and continuous stream temperature monitoring according to strict protocols. Following data collection, Aspect assisted the City in responding to stakeholder and agency comments regarding Ecology's assessment of Buck Creek.



WATER RIGHTS/HYDROGEOLOGICAL PROJECT EXPERIENCE

Municipal Water Well No. 1 | Ponderosa Water System, Klickitat County

Aspect completed specifications for construction and testing of a municipal replacement well to increase yield restricted by sanding problems with the existing well. The well had been constructed as an open hole (no liner) in a sandstone interbed of the Columbia River Basalts, and was limited by excessive sand production at higher pumping rates. Consequently, the replacement well was designed with an integrated well screen with artificial filter pack unit (Muni-pak™) that provided the necessary formation stabilization and water filtration with a high degree of confidence – and achieved it with time and cost savings relative to manually placing a loose filter pack around a well screen.

Town of Roosevelt Replacement Water Supply | Klickitat Public Utility District

The town's previous water supply well was susceptible to surface contamination and did not have the capacity to withdraw the full permitted instantaneous rate of withdrawal. Therefore, a replacement water supply well was sited, designed, and completed in the same body of public groundwater (Wanapum Formation) as the KPUD's existing well, as required under Revised Code of Washington (RCW) 90.44.100. Aspect provided water right, hydrogeologic support, well design, and construction oversight services. Final testing of the replacement well indicated a highly efficient bedrock well capable of over 1,200 gallons per minute per foot (gpm/ft), far greater than the permitted water right.

Municipal Well Repair, Design, and Replacement | Town of Mattawa

In the first stage of work, we provided fast-track problem diagnosis of the loss of yield and made recommendations for pump work that would bring the well back on-line immediately. We followed up the repair work with the design for replacement of the shallow Well 1 with a deeper well (Well 4) completed in the Columbia River Basalts. We developed a plan to replace the well and assisted the City's civil engineer with a Block Grant to fund the new well. In addition to design, we oversaw the drilling, testing, and reporting. The new well was drilled to a total depth of 1100 ft, within the specified budget amount in the block grant and exceeds the City's goal of 1000 gpm capacity.

Municipal Well Replacement | Columbia Gorge Regional Airport, Dallesport

Aspect provided technical assistance to successfully conform an airport's domestic/irrigation water right to municipal use, and we then worked with the Airport to install a deep replacement well to exercise the municipal right. We sited the replacement well within the same body of groundwater and prepared specifications for drilling and construction and assisted the Airport with drilling contractor selection. We oversaw drilling, construction, and testing of the replacement well and completed all reporting in accordance with the state's water right statutes. The well was tested at 1500 gpm and had a capacity of greater than 2000 gpm, well in excess of the instantaneous water right quantity of 615 gpm.

Water Right Permitting | Dallesport Water Association, Dallesport

Aspect assisted the Dallesport Water Association (DWA) with consolidating water rights for two wells into a single well field. Prior to the consolidation, DWA's water rights were each associated with a single well. Aspect completed a same body of groundwater evaluation in accordance with RCW 90.44.100, concluding that both wells tap the same body of groundwater. In response to comments from Ecology, Aspect evaluated the possibility of impairment of existing water users due to the potential for increased withdrawals from a single well in the water system following consolidation. The analysis indicated that potential effects would be minimal, and not be likely to result in impairment of other water users.



WATER RIGHTS/HYDROGEOLOGICAL PROJECT EXPERIENCE

Town of Klickitat Water Supply Services | Klickitat County Public Utility District

Aspect assisted the KPUD with evaluating well performance and water quality at Well No. 2. The town's primary water supply well has experienced considerable fouling and a significant reduction in pumping capacity. The purpose of evaluation was if during planned pumping system maintenance, any other in-well redevelopment or other preventative maintenance work would be recommended for Well No. 2. Based on well construction, caving borehole conditions, and the relative age of the well, a less intrusive cleaning program was recommended consisting of replacing the pump column and brushing and bailing of the liner interval to remove biomass and accumulated corrosion and sediment. Following reconditioning, the specific capacity was observed to be approximately 8 gallons per minute per foot (gpm/ft) of drawdown at 175 gpm.

Water Right Permitting | City of Bingen

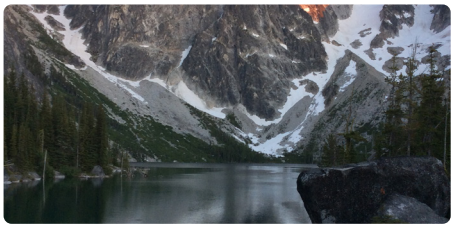
Aspect assisted the City of Bingen in permitting withdrawals from a regional well field constructed by Bingen, the City of White Salmon, and Port of Klickitat. The only diversionary authority for the well field had been White Salmon's water rights, with all use by the Port and Bingen being charged against White Salmon's authorizations. Hydrogeologic conditions did not support a same body of groundwater determination to simply add the well field to Bingen's existing rights. Instead, Aspect developed a strategy to obtain a new water right, non-additive to Bingen's existing water rights. Key to this approach was demonstrating that withdrawals from the regional well field would not result in additional impacts to the White Salmon River or Columbia River. Ecology agreed with this interpretation and approach, approving the new water right in 2014.

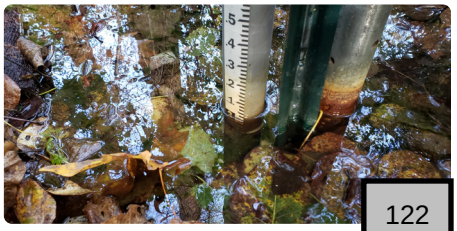
Municipal Production Well Development | City of Goldendale

Aspect has provided long-term assistance to the City of Goldendale in augmenting their municipal groundwater supply sources. Our work included analysis of geological features and erosion patterns to determine the location of zones of fractured basalt bedrock where preferential flow paths might exist. Based on this analysis, preferred well sites were selected and well field yields exceeded expectations for the city. We also coordinated, designed, and oversaw construction of the Basse well field south of the City which consisted of two high-capacity production wells in the Wanapum and Grande Ronde Basalts. On a tight schedule, we prepared the driller bid documents for the City, provided geologic logging and installation oversight, impact analysis, and determined well-yield estimates for long-term production based on our well testing program.

Lyle Water System Water Right and Supply Evaluation | Klickitat PUD

The Town of Lyle's water system originally consisted of two permitted wells. However, due to wellhead protection issues, the wells were replaced with two new wells. Following review of the transfer applications, Ecology raised concerns that one of the replacement wells may not in the same body of public groundwater. To address this, we conducted a water level monitoring program to confirm that the two wells were indeed separated by a regional fault that acted as a barrier to groundwater flow, and in turn, developed a series of strategies for the KPUD to achieve expedited processing of a new water right application for the primary well. Since that time, Aspect has assisted the KPUD in drilling, design, and testing of a new replacement water supply well.





KEY WATER RESOURCES STAFF

Dan Haller, PE, CWRE Principal Water Resources Engineer

MS, Environmental Engineering, Washington State University / BS, Civil Engineering, Washington State University / Professional Civil Engineer, WA / Certified Water Rights Examiner

Leading Aspect's Yakima office, Dan Haller is a state-recognized water rights expert, fluent in all aspects of the water code. Dan's background includes management of storage and conservation projects, water banking and water rights transfers, and water system design and financial planning experience. Before joining Aspect, Dan spent more than a decade with the Department of Ecology's Office of Columbia River where he worked on hundreds of water rights and managed multi-million-dollar grant projects.

Tyson Carlson, LHG, CWRE Senior Associate Hydrogeologist

MS, Hydrology, The University of Arizona / BS, Environmental Science, The University of Arizona Licensed Hydrogeologist, WA / Certified Water Rights Examiner

From Aspect's Yakima office, Tyson's 19 years of experience with hydrogeologic and geologic projects runs the gamut from water right policy to water supply, infrastructure development, and construction dewatering. His strengths lie in evaluating hydrogeologic systems, developing regional and site-specific hydrogeologic conceptual models, and permitting water resources. Tyson applies his knowledge of analytical and three-dimensional numerical modeling to simulate hydrogeologic systems, surface-groundwater interaction, and well hydraulics. Working as a contractor to Ecology under their cost reimbursement program, Tyson has performed technical review and written permits for numerous fishery related projects, including hatcheries, acclimation and rearing facilities, and in-channel habitat restoration projects.

Timothy J. Flynn, LHG, CGWP Principal Hydrogeologist

MS, Groundwater Hydrology, University of Arizona / BS, Environmental Resources Management (Hydrology), Penn State University / Licensed Hydrogeologist, WA / Certified Ground Water Professional

Tim Flynn, Aspect's President and Water Resources Practice Lead, has over 30 years of experience in water rights permitting, water supply development and watershed analysis, and water storage evaluation including ASR. He managed two water right cost reimbursement contract with Ecology, which including all facets of water right permitting, developing mitigation strategies, and water banking. He has extensive experience in groundwater supply development for municipal, industrial, and agricultural clients, as well as implementation of ASR and managed aquifer recharge (MAR) programs throughout the western U.S. He is a frequent invited speaker on water right and water supply related topics, and is well versed in facilitating diverse stakeholder groups to address water resource management issues.

Andrew Austreng, LHG Senior Hydrogeologist

MS, Hydrologic Sciences, Boise State University / BS, Environmental Geoscience, University of North Dakota / Licensed Hydrogeologist, WA

Andrew is a hydrogeologist who focuses on projects involving groundwater development, ASR, passive aquifer recharge, water rights, and infiltration dynamics. He has a wide range of experience in supporting water rights projects, including reservoir permitting, right transfers, and obtaining new water rights. He has built a reputation for successfully completing challenging well installations and aquifer characterizations and performing a range of successful chemical and physical well rehabilitation programs.

GEOTECHNICAL

Understanding what's Underground

Aspect offers geologic investigation and geotechnical engineering services to support road, bridge, and building projects for public agencies. Our solutions have included dewatering of unstable soils, control of stormwater, reducing slope grade, buttes or mechanically reinforced earth fills, and structural walls. By applying an integrated design approach that focuses on characterizing site geologic and hydrologic conditions before design and construction, we help you minimize construction risks, costs, and delays, and develop engineering solutions responsive to your project goals.

Geotechnical Services

Geologic Investigation and Subsurface Characterization

- Engineering Geologic Mapping
- Aerial and LiDAR Imagery Interpretation of Geomorphology
- Terrestrial and Down-hole Geophysical Surveys
- Soil and Rock Characterization
- Rock Mass Classification
- Full-scale Conceptual Ground Models
- Detailed Geologic and Seismic Hazard Evaluations
- Ground Instrumentation Program Design, Implementation, and Interpretation
- Planning, Managing, and Implementing Complex Subsurface Exploration Programs

Geotechnical Engineering

Infrastructure

- Transportation—Bridges, Culverts, Pavement, Earthwork, Retaining Walls, Pole Foundations
- Utilities—Earthwork, Shoring, Dewatering
- Site Development—Grading, Earthwork, Slopes, Foundations, Retaining Walls, Shoring, Construction Dewatering

Ecosystem Restoration

- Bridge Foundations & Abutments
- Culvert Replacement Foundations, Shoring & Dewatering
- Anchorage Design for Habitat Features
- Soft and Hard Armoring
- Earthwork—Imported Soil, Embankments, Soft Ground Engineering, Bulking Factor

Rivers and Streams

- Bank Stabilization
- Streambed and Sediment Characterization
- Anchorage Design for Flow Control Features

Slope Stability and Landslides

- Stability Assessment
- Slope Mitigation

Levees, Flood Walls, Dams and Dikes

- Embankment and Structural Foundation Design
- Embankment Settlement
- Stability and Seepage Analysis
- Excavation, Shoring, and Diversion of Water
- Armoring and Bank Walls
- Seismic Design

"We picked your firm because of your innovative approach to the project and we were not disappointed."

- David A. Tucker, PE
Assistant Director
Kitsap County Public Works Department

GEOTECHNICAL PROJECT EXPERIENCE

Alder and Switzler Reservoirs Geologic Hazards Investigations | Klickitat/Benton Counties

Aspect performed geologic hazards analyses and slope stability for two proposed 50,000 acre-feet reservoirs with 310-foot-high earthen dams. Columbia River water would be pumped to the reservoirs during times of excess flow and released back to river as 1:1 mitigation for new diversions for agricultural or municipal use.

Geotechnical Support for the Squilchuck Sewer Lift Station | City of Wenatchee

Aspect provided geotechnical support to ongoing design and construction of the City's proposed sewer lift station serving the South Wenatchee area. Our geotechnical study included surface reconnaissance and characterization of subsurface conditions potentially affecting design and construction of the proposed 30-foot deep wet well and associated structures.

Courtney Road Stabilization | Klickitat County, WA

Aspect conducted geotechnical investigations, including hollow-stem auger soil sampling and rock coring through basalt, to inform the planned realignment of a steep, sharply turning road so it can be used as a critical emergency access route.

Cedar Street Parking Lot Omak | Omak School District

Aspect completed a series of test pit explorations and field infiltration testing to explore and characterize soil and groundwater conditions for a new parking lot. Aspect worked with the Omak School District's maintenance and operations crew and ESD 112 to complete the field work in an economical and efficient manner. The results of the analysis a were presented in a formal design report to the Omak School District and ESD 112.

Loup Loup Bridge Replacement | Okanogan County

Aspect performed geotechnical engineering evaluation and design support for a bridge replacement. The existing structurally deficient bridge will be replaced with a new concrete bridge supported on deep foundations. The geotechnical study involved field and laboratory investigation, foundation alternative analyses, design recommendations for driven pile foundations, embankment construction and settlement analyses, and abutment wall lateral earth pressures. Geotechnical design and recommendations followed LRFD methodology in accordance with the AASHTO LRFD Bridge Design Specifications.

Clear Creek Floodplain Restoration | Silverdale

Aspect provided geologic and geotechnical support for the restoration of the floodplain of lower Clear Creek in Silverdale. The project included reducing the impacts of downstream flooding of the creek in the Silverdale corridor, water quality and habitat improvements, abandonment of existing roads, and the construction of new trails and bridges to provide access and linkage to current bike and foot paths in the Clear Creek Trail network. Aspect coordinated and oversaw an exploration program that consisted of soil borings in areas of deep bridge foundations, test pits in path and road areas, and hand probes in the floodplain to assess the extent of soft/compressible wetland soils.

GEOTECHNICAL PROJECT EXPERIENCE

Seismic Rehabilitation of Fish Hatchery Bridge | Skamania County

Aspect provided geotechnical engineering analyses in support of structural rehabilitation of the Fish Hatchery Bridge. The 60-year old bridge, a three-span, 177-foot long, wide flange steel girder superstructure with a concrete deck, required upgrades to extend its service life. Aspect led the seismic/structural analysis and evaluations to provide geotechnical engineering recommendations for spread footings based on the regional geologic conditions, soil spring parameter, and bearing capacities. The seismic design parameters were developed according to AASHTO LRFD Bridge Design Specification.

Pier 62/63 Reconstruction | Seattle

Aspect completed a geotechnical engineering study to create design criteria and parameters for pile foundations to support the new pier on the Seattle waterfront and developed a site-specific seismic design spectrum. Field explorations included a Cone Penetrometer Test. Aspect performed numerical modeling to evaluate the response of foundation piles to ground deformations that are expected during a design-level earthquake.

Ice Harbor Ranch Irrigation Pipeline and Reservoir | Quincy

Aspect completed a geotechnical investigation and preliminary scoping report for a new 90 acre-foot irrigation reservoir, pipeline, and associated pumping facilities on leased DNR land. Following the siting study, Aspect completed the preliminary design and a geotechnical investigation to identify soil conditions, including depth to, and characteristics of bedrock. The results of the study were used to optimize the design so rock excavation was minimized and clearly identified for contracting purposes, reducing costs and uncertainties for the owner.

Madison Valley Stormwater Project | Seattle Public Utilities, Seattle

Aspect provided geotechnical and environmental support for design and construction of a 1.3-million-gallon, deep, underground stormwater storage facility, large diameter pipelines, associated access roads, and surface impoundments. Aspect's design considered excavation, shoring and foundations for the proposed improvements relative to landfill refuse areas.

Port Angeles Landfill Support | City of Port Angeles

Aspect provided geotechnical engineering, and hydrogeology support to the City's closed landfill facility to identify key risks, develop mitigation strategies, and ultimately relocate over 400,000 cubic yards of refuse from a rapidly eroding 140-foot coastal bluff. The stabilization system included a first-of-its-kind mechanically stabilized earth wall--110 feet tall--that also capped the landfill.

Dezellem Hill Road Slide Repair, Bridgeport

Aspect provided Douglas County with conceptual mitigation options and alternative road alignments along a roadway with a 100-year history of episodic landslide activity.

255 South King Street Construction Support | 255 South King LLP, Seattle

Aspect provided during-construction geotechnical engineering special inspection and support services for this 23-story mixed-use building. The project included a 20-foot deep waterproof basement supported by steel sheet piles and a single row of permanent ground anchors. The building is supported on 24-inch steel pipe piles and 18-inch driven grout piles.

Lodge Creek Culvert Replacement | Kittitas County

Aspect provided geotechnical solutions to replace an undersized, hydraulically deficient culvert threating stability to a rural roadway. On an accelerated schedule, we developed design recommendations for culvert foundations, slope stability, wingwalls and temporary excavation. The new wide span concrete box culvert also increases creek flow capacity and improves fish passage.

KEY GEOTECHNICAL STAFF

Henry Haselton, PE, PMP Principal Geotechnical Engineer

MS, Geotechnical Engineering, University of Washington / BS, Civil Engineering, University of Washington / Professional Civil Engineer, WA, OR / Project Management Professional

Henry Haselton's 25-year geotechnical engineering career includes evaluation, geotechnical design, and construction engineering for public infrastructure, water resources, and ecosystem restoration projects in Washington state. He has led geotechnical studies and managed projects involving bridges, culverts, roads, utilities, streams, and shorelines. He is known for developing innovative, practical engineering solutions to address a variety circumstances, and is proficient using advanced numerical models for slope stability analysis, seepage analysis, shoring design, seismic response, liquefaction analysis, ground improvement and foundation design. Henry's multidisciplinary project management and public sector experience gives him unique insights into the needs of his clients, resulting in effective and timely delivery of Aspect's services.

Nick Szot, PE Senior Geotechnical Engineer

MS, Civil Engineering, Washington State University / BS, Civil Engineering, Washington State University / Professional Civil Engineer, WA

Nick has provided project management and geotechnical support for dozens of municipal and private projects across central and eastern Washington. His experience includes geotechnical field explorations, laboratory testing, roadways and pavement, traffic signal poles, bridges, steep slope failure, retaining wall and shoring design, foundation design, remediation, waste facilities, waterfront structures, and stormwater infiltration. He quickly responds to geotechnical issues during construction and provides practical recommendations to minimize delays.

Andrew Holmson, PE Associate Geotechnical Engineer

MS, Geotechnical Engineering, Oregon State University / BS, BA, Civil Engineering, Oregon State University / Professional Civil Engineering, WA

Working from our Portland office, Andrew Holmson has over 12 years of experience in geotechnical field exploration, earthquake engineering and foundation design, and delivers efficient field data collection, interpretation, and geotechnical engineering recommendations. He has provided geotechnical support from design through construction for dozens of large-scale municipal projects throughout western Washington, including road stabilization, assessed and mitigated seismic and liquefaction hazards, and shoring and foundation design. Andrew is a strong communicator who collaborates effectively with design and construction teams to achieve project requirements through efficient design and keep projects moving forward.

Mark Swank, LEG Senior Engineering Geologist

MS, Engineering Geology, San Jose State University, 2007 / BS, Soil Science – Environmental Management, California Polytechnic State University, 1999 / Licensed Geologist, WA / Licensed Engineering Geologist, WA

Working from our Portland office, Mark has over 17 years of professional experience that includes planning, design, project management, project coordination, client relations, and regulatory interaction for small and large transportation and infrastructure projects. He has managed multidisciplinary teams with services on projects that have included aspects of project feasibility, geotechnical engineering, civil engineering, structural engineering, and construction inspection. His experience on roadways and bridges includes evaluating slope stability, soil constraints, and seismic issues to provide geotechnical and construction recommendations.

ENVIRONMENTAL

Working for the Regulated

Aspect provides environmental services that include site assessment, cleanup and redevelopment and solid waste engineering. We combine know-how with sound judgment to move projects involving hazardous soil and groundwater contaminants to closure. We have extensive experience in focused site investigation, turnkey remediation, property transfer and redevelopment, as well as regulatory compliance.

We have applied our experience to a variety of active and closed landfills across the state. Our engineers and hydrogeologists perform landfill site characterization and design of groundwater and gas monitoring systems to reduce on- and off-site impacts and aid land development goals, including for brownfields sites.

We routinely perform our work under the regulatory guidelines of Washington State's Model Toxics Control Act (MTCA). We have effective working relationships with Ecology site managers throughout the state, and have completed projects under Ecology's Voluntary Cleanup Program (VCP), as well as under more formal Agreed and Enforcement Orders and Consent Decrees.

Environmental Services

Site Assessment + Evaluation

- Environmental Site Assessment
- Fate and Transport Analysis including Natural Attenuation Evaluation Monitoring
- Property Transaction Support
- Remedial Investigation Feasibility Study (RI/FS)
- Vapor Intrusion Assessment and Mitigation

Property Cleanup + Redevelopment

- Cost Recovery, Allocation, and Mediation Support
- Insurance Claim & Litigation Support
- Regulatory Strategy
- Remedial Design/Engineering
- Turnkey Remediation
- Construction Bid Support
- Construction Oversight & Monitoring

Landfill and Solid Waste

- EIM Data Deliverables for Landfills
- Gas Extraction System Design, Monitoring and Optimization
- Geotechnical Stability and Liner Design
- Groundwater Monitoring and Statistical Analysis
- Hydrogeologic / Site Characterization
- Leachate and Stormwater Control
- New Cell Development
- Permitting/Operation and Maintenance Support
- Redevelopment of Closed Landfills
- Regulatory Compliance
- Toxic Air Pollutants and Greenhouse Gas Emissions Evaluations

Aspect has proved to be a solid organization, with high integrity, top-of-the-line technical skill, and smart, responsible project management."

- Paul Agid
Port of Seattle STIA

ENVIRONMENTAL PROJECT EXPERIENCE

Site Investigation

Phase I/II Due Diligence Projects | Multiple WA Locations

Real estate due diligence hinges on sound investigation skills, practical cleanup experience, and an ability to effectively contribute to cost negotiations. Aspect supports many clients by providing Phase I/II Environmental Site Assessment (ESA) services in conjunction with the purchase, sale, and redevelopment of commercial and industrial properties. Representative clients include Cascade Natural Gas, Ballinger Village, LP, Viking Bank, Keeler Family Trust, Paragon, Barrientos, and Childhaven.

Seattle Roosevelt Redevelopment Due Diligence Support | HB Management

Aspect performed an ASTM-compliant Phase I ESA for six vacant boarded-up properties adjacent to Roosevelt High School that had varying historical site uses. Based on historical review, regulatory database searches, and interviewing persons familiar with the properties, the Phase I concluded the presence nine Recognized Environmental Conditions (RECs) across the properties. Aspect then conducted an expedited Phase II ESA focused on evaluating the potential presence of environmental impacts associated with each of the RECs. Aspect subsequently prepared a Construction Monitoring and Management Plan for management of petroleum-contaminated soils during excavation to support property redevelopment.

Property Acquisition and Due Diligence | Port of Tacoma

Aspect assisted the Port's acting Environmental Director and the Director of Industrial Development and Real Estate by performing environmental due diligence on prospective land purchases to support a large-scale terminal expansion and transportation corridor improvements. The work involved Phase I environmental due diligence and Phase II site assessment followed by an evaluation of potential cost liabilities to support subsequent purchase negotiations.

Remediation and Redevelopment

Denny Substation / Greyhound Maintenance Facility Redevelopment | Seattle City Light

Aspect completed a full range of environmental services Seattle City Light to support demolition and cleanup of a former Greyhound Bus maintenance facility for redevelopment into a centralized electrical substation for the South Lake Union redevelopment area. Aspect conducted a Phase I/II ESA on two adjacent properties to support a real estate transaction to redevelop the site, completed an off-property groundwater assessment and provided engineering design services during a four tier engineering design process. From property acquisition through preliminary design, Aspect successfully and cost effectively played an integral part in the development of this multi-use, sleek, modern substation in Seattle's rapidly growing South Lake Union Neighborhood.

Mt. Baker Housing Association / Gateway Redevelopment | Seattle, WA

Aspect is leading a unique multi-property acquisition, cleanup action and redevelopment project. This project spans five properties and will result in the construction of two mixed-use buildings for affordable housing and commercial use. Located in an underserved part of south Seattle, the site's complexity is dominated by soil and groundwater that was heavily contaminated from releases from dry cleaners and gas stations.

ENVIRONMENTAL PROJECT EXPERIENCE

SVE System Pilot Test, Design, Installation, and Monitoring | Moses Lake

Underground storage tanks at an active Moses Lake fuel station had leaked approximately 1,200 gallons of product into soil and groundwater. Aspect led the initial investigation and oversaw removal of the leaking USTs. Following replacement of the USTs, Aspect pilot tested and designed a full scale Soil Vapor Extraction (SVE) system to remediate remaining impacted soils on the property in-place. Aspect is currently conducting soil and groundwater confirmation sampling to achieve site closure through Ecology's voluntary cleanup program.

Dolarway Chevron - RI/FS and Cleanup Action | Ellensburg, WA

Aspect completed a remedial investigation to delineate extents of soil and groundwater impacts resulting from a gasoline release from an on-site UST. Following pilot testing and a Feasibility Study, Aspect selected a combination Air Sparging/Soil Vapor Extraction system as the cleanup action. The system reduced concentrations of petroleum hydrocarbons in the groundwater below MTCA cleanup levels. The site received an NFA opinion from Ecology.

Solid Waste

King County Closed Landfill Project | King County

Aspect Consulting (Aspect) is leading a multidisciplinary team of eight subconsultants for a 10-year, $10M work-order contract to assist King County with evaluation, monitoring, engineering design and construction, and post-closure activities related to their seven closed landfills.

Hansville Landfill | Kitsap County

Aspect is providing engineering, monitoring, reporting, and regulatory support to Kitsap County Solid Waste and Waste Management, Inc. at the Hansville Landfill Site administered by Ecology under MTCA. Aspect has implemented the Cleanup Action Plan which includes optimizing Landfill Gas (LFG) collection and monitoring groundwater and surface water quality. To address aging infrastructure, Aspect has replaced groundwater sampling pumps, improved condensate management, and maintained LFG monitoring stations. An alternative source analysis is being conducted to assess arsenic impacts in groundwater.

Jefferson County Closed Landfill Gas and Groundwater Monitoring | Jefferson County

Aspect is providing engineering support to end Post Closure Care under WAC 173-304 at the Jefferson County Landfill which includes monthly gas monitoring and quarterly ground water sampling. Quarterly and annual monitoring reports are required for submittal to Jefferson County Public Health and Ecology as required under the post-closure plan. Aspect will continue to support the analysis and reporting efforts leading up to the final report on landfill stability.

Pasco Landfill RI/FS | Pasco

Aspect provides operational, engineering, and litigation support at a CERCLA NPL site administered by Ecology under MTCA that includes a large unlined municipal solid waste cell and smaller unlined industrial waste cells. Aspect is providing technical and regulatory guidance to a group of PLPs (land owners, operators, and transporters) and navigating the Site through the MTCA process (have submitted a draft focused feasibility study, and are preparing to establish a cleanup action plan that protects our clients from unnecessary long-term monitoring costs). Aspect is currently preparing updates to the O&M manual to guide the final stages of PCC, with an anticipated end of activities in 2032.



KEY ENVIRONMENTAL STAFF

Carla Brock, LHG Associate Geologist

MS Geology, University of Montana / BS Geology, Central Washington University / Licensed Geologist, WA, OR, ID

Carla Brock combines 20 years of experience working on RI/FS and Phase I/II ESAs. Her professional project experience includes management of projects ranging from routine subsurface investigations to complex remedial investigations/feasibilities studies, including development of site-specific hydrogeologic conceptual site models, evaluation of contaminant fate and transport, and remedial alternatives evaluation at residential, commercial, and industrial facilities throughout the Pacific Northwest. She has extensive experience working on bulk petroleum facilities; dry cleaning and industrial facilities with releases of chlorinated solvents; pulp, paper and sawmill facilities; and manufactured gas plants. Carla is well regarded within the technical and regulatory community and has developed strong working relationships with regulatory agencies.

Jeremy Porter, PE Principal Remediation Engineer

MS, Chemical Engineering, Colorado State University / BS, Chemical Engineering, University of Wisconsin-Madison, 1995 / Professional Chemical Engineer, WA

Jeremy has managed and worked on environmental projects at all levels of development, including Phase I and Phase II environmental assessments, remedial investigations, feasibility studies, treatability studies, cleanup action plans, and remedial designs. He has performed site investigations and designed remediation systems for soil and groundwater contaminated with a variety of chemicals, including chlorinated solvents, non-chlorinated solvents, petroleum hydrocarbons, metals, pesticides, and wood preservatives. He implements cost-effective cleanups for complex sites using a combination of conventional and innovative technologies such as soil vapor extraction/air sparging, in-situ oxidation, and permeable reactive barriers.

Jason Shira, LHG Project Hydrogeologist

MS, Environmental Science, University of Idaho, 2004 / BS, Environmental Science, University of Idaho, 2000, Licensed Hydrogeologist, WA / Licensed Hydrogeologist, WA

Working from our Yakima office, Jason Shira has over 15 years of experience in environmental hydrology. For over 10 years, Jason provided regulatory oversight of the aggregate mining industry and cleanup of chlorinated solvent sites and abandoned mine lands. Jason has a wide range of experience that includes project management of state-funded cleanup sites; implementation of complex site characterization that involves sampling of biota, gas, water, and soils and subsequent data analysis; and emergency spill response.

Eric Marhofer, PE Associate Environmental Engineer

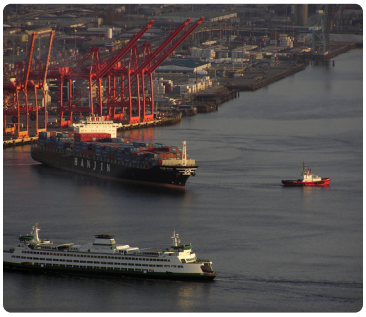
BS, Biosystems Engineering, Michigan State University, 2002 / Professional Civil Engineer, WA

Eric Marhofer is a licensed environmental engineer with over 15 years of experience including investigation and remediation of contaminated soil, groundwater, and air. He has served as a project and field engineer on a variety of projects from the RI and FS phase through the remedial design and remedial action stage. He has evaluated, designed, constructed, and operated a variety of ex-situ and in-situ remedial technologies to deal with contaminated soil and groundwater, often integrating their construction and operation into ongoing site activities.

STORMWATER

PROTECTING OUR WATER QUALITY

Aspect's professionals have decades of experience helping clients address their unique stormwater needs and an impressive track record providing a full suite of stormwater services for municipal and industrial clients. We have assisted a range of industries and agencies in complying with NPDES permit requirements, recommending practical operation, structural, and treatment BMPs, as well as designing stormwater treatment systems to meet permit benchmarks. We also provide a wide array of flood and floodplain management services, including flood mitigation planning, modeling, design, and streamflow measurement and instrumentation. Our in-house information services group provides top-notch data management for monitoring projects.



Stormwater Services

Stormwater Planning & Design

- NPDES/UIC Program Planning & Implementation
- Utility Formation & Rate Studies
- Ordinances, Standards, & Design Manuals
- Master Planning & CIP Development
- Basin Studies, Modeling, & Retrofit Plans
- Design, Permitting, & Construction Management
- Infiltration Feasibility & Low Impact Development
- Construction TESC Plans & SWPPPs
- Industrial & Municipal SWPPPs, O&M Plans, Training

Stormwater & Surface Water Monitoring

- Stormwater Discharge & Receiving Water Characterization
- NPDES Permit Compliance Monitoring
- TMDL Compliance
- Illicit Discharge Detection & Elimination and Pollutant Source Tracing
- Telemetry-Controlled Flow & WQ Monitoring
- BMP Effectiveness Studies & TAPE

Floodplain & Ecosystem Restoration Services

- Flood Hazard Management & Reduction
- Flood Hazard and Mitigation Planning & Design
- Hydrologic & Hydraulic Modeling
- FEMA Map Revisions, LOMRs/LOMAs
- Development Review & Expert Witness
- Salmonid Habitat Restoration
- Side-Channel Design

(Aspect staff) continue(s) to provide the expertise and valuable insight needed to help us succeed with our stormwater projects. The level of service we receive is always above and beyond what the contract contains, which we greatly appreciate.

- Rob Buchert
Stormwater Services Program Manager, City of Pullman

STORMWATER PROJECT EXPERIENCE

Planning and Design

East Link O&M Facility Infiltration Feasibility | Sound Transit, Bellevue

Aspect completed an aggressively scheduled project to assess the feasibility of retaining and infiltrating stormwater at Sound Transit's new light rail maintenance facility in Bellevue. Aspect engineers and hydrogeologists planned and conducted 16 Pilot Infiltration Tests (PITs) across the 28-acre site; assessed the feasibility of deep and shallow infiltration; provided permitting support; completed data analysis and soil logging; and prepared a feasibility report.

Terminal 3/4, NIM, and ECP Stormwater Improvements | Port of Tacoma

Aspect is providing engineering design services for numerous stormwater quality retrofits at the Port of Tacoma. The project is interfacing with overall terminal improvements, with retrofits occurring on both Port and tenant property. BMPs being designed include modular wetlands, downspout filters, catch basin inserts, and two types of proprietary membrane filters. Aspect is refining conceptual designs and cost estimates, updating/correcting drainage basin delineations, directing survey work, completing hydrologic and hydraulic modeling and calculations, completing 90% designs, and preparing stormwater permitting submittal documents.

Stormwater Utility Study | City of Moscow, ID

Aspect is currently developing a stormwater utility for Moscow, ID. Services for this phase include: collecting data about the City's existing stormwater system and activities; field visit and review of the City's drainage system; GIS refinement of drainage basins; analyzing likely NPDES II requirements; identifying staff and equipment needs; incorporating a stormwater CIP; estimating program costs and revenue needs; conducting a utility legal and policy issue workshop; ISA measurement to determine the base billing unit (ESU); preliminary rate estimates; and key stakeholder meetings.

Walla Walla Stormwater Planning Services | City of Walla Walla

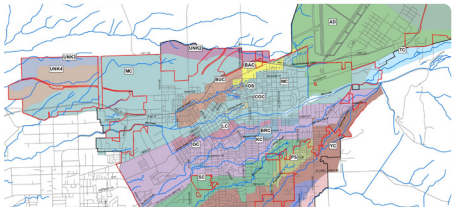
Aspect staff developed NPDES II and UIC based stormwater plans, CIPs, and utility financial plans. Additional stormwater program support to City included: Outfall Reconnaissance Inventory and receiving water assessment for all of the creeks and springs within the City; inventory and registration of City-owned stormwater UIC systems; and the development of a Comprehensive Stormwater Management Plan.

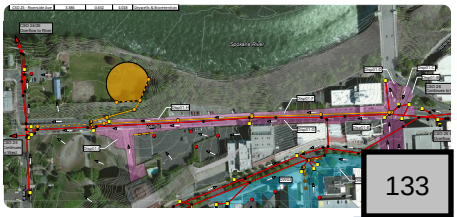
Stormwater Infiltration Assessment for Seattle-Tacoma International Airport | SeaTac

Aspect evaluated stormwater infiltration feasibility related to implementation of Green Stormwater Infrastructure (GSI) at Seattle-Tacoma International Airport (STIA). Aspect developed a GIS-based application that evaluated factors including geology, surface slope, depth and thickness of permeable unsaturated zone, and proximity to sensitive slopes. GIS maps were developed showing the distribution of shallow and deep stormwater infiltration potential across all STIA properties. The results provide guidance for identifying future stormwater infiltration opportunities.

Marginal Way Shell Oil-Water Separator Design | Seattle

Aspect completed the design for an oil-water separator to be installed at a fueling station in Seattle. This work is necessary for the remodeled site to meet City of Seattle stormwater pollution prevention standards and respond to a City compliance order.





STORMWATER PROJECT EXPERIENCE

Stormwater and Surface Water Monitoring

15th St NW Storm Drain Extension, Phase II Monitoring Project | City of Puyallup

Aspect staff members implemented a stormwater monitoring project to quantify reductions in the TSS load to Clarks Creek and evaluated the effectiveness of stormwater treatment. The monitoring project included collecting stormwater samples prior to construction of the CIP to evaluate baseline water quality conditions. During the post-construction monitoring period, precipitation and flow were monitored continuously and water quality samples were collected during storms at four sites. Two QAPPs were prepared, the monitoring stations were designed and installed, data collection, management, analysis and reporting were conducted.

NPDES Basin Planning Monitoring Program | Snohomish County

To support calibration of the County's watershed-scale stormwater planning hydrologic and water quality model, Aspect staff members collected continuous level, flow, and temperature data at four stations within the Little Bear Creek watershed for two years, which included developing and maintaining stage-discharge curves for the gaging stations. Project staff collected water quality samples during 11 storm events and 12 baseflow events using telemetered autosamplers and collected grab samples manually during six additional storms.

Bioretention Hydrologic Performance Study | City of Bellingham & Western Washington

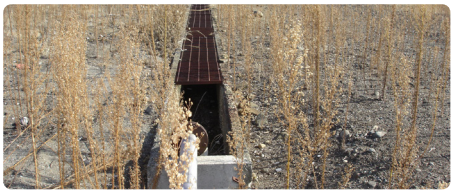
Aspect examined the effectiveness of 10 bioretention facilities across the Puget Sound and North Sound through the combined analysis of continuous flow and rainfall data, vegetation, geotechnical, and modeling. Aspect designed and installed 51 custom hydrologic monitoring stations, developed an Ecology-approved QAPP, operated and maintained the monitoring stations for a 10-month study period and managed and finalized the continuous rainfall and flow monitoring data. The results of this study will inform NPDES permittees in the specification and design of bioretention facilities that perform well and meet the requirements of the stormwater manual and their permits.

Stormwater Source Control Effectiveness Study | Lakewood & WA State Department of Ecology

Aspect is assessing regional stormwater source control data from western Washington municipal stormwater NPDES permittees including cities, counties, ports, and state agencies for the Regional Stormwater Monitoring Program. The data analysis focuses on several source control-related topics, including the optimum frequency of inspections, effectiveness of stormwater BMPs, and compliance with local, state, and federal hazardous waste regulations. Results from the assessment will be used to support NPDES stormwater permittees for improving effectiveness and efficiency in their source control programs and by Ecology for revising municipal stormwater permits.

Port of Seattle On-Call Stormwater Services | Seattle

Aspect is providing stormwater management, GIS mapping, and data management support to help the Port comply with its Phase 1 Municipal Permit and Industrial Stormwater General Permit requirements covering activities at 35 properties with over 250 tenants. Aspect's support includes: Developing and maintaining SWPPPs for all Port-operated facilities; developing the Stormwater O&M Manual for all Port-operated facilities; managing laboratory and field water quality monitoring data; developing and maintaining a geodatabase mapping the stormwater conveyance system; and developing strategies and advising on NPDES-related issues.



KEY STORMWATER STAFF

John Knutson, PE Principal Water Resources Engineer

MS Bioresrouce/Environmental Engineering, Oregon State University / BS Civil Engineering, Oregon State University / Professional Civil Engineer, WA, OR, ID / Project Management Professional

John has 25 years of experience providing stormwater and flood management services throughout the Northwest. He has managed stormwater planning, funding, modeling, permitting, compliance, and design projects for numerous clients. John has managed multiple stormwater utility formation and LID planning and design projects. He has an expert level of knowledge in hydrology/hydraulics and stormwater treatment, detention, retention, and infiltration techniques. John has also developed local and regional stormwater design, erosion control, and LID manuals in the Northwest. He understands state and federal stormwater regulations and participates heavily in the development of state stormwater permits, manuals, and technical guidance documents.

Owen G. Reese, PE Senior Associate Water Resources Engineer

MS, Civil Engineering, University of Washington / BS, Civil Engineering, University of Washington / Professional Civil Engineer, WA

Owen Reese has extensive experience assisting public and private clients in obtaining and complying with Industrial, Construction, Sand and Gravel, and Phase I and Phase II Municipal NPDES General Permits, as well as Individual NPDES and State Waste Discharge Permits. He has designed stormwater treatment systems, infiltration facilities and detention ponds as well as culverts and conveyance systems. Owen is also a skilled hydrologic modeler with experience building and calibrating models for analyzing the impacts of water rights or land use changes in watersheds.

Bill Rice Senior Water Resources Scientist

MS, Analytical Chemistry, Oregon State University / BS, Chemistry, Central Washington University / BS, Biology, Central Washington University

Bill is a Water Resources Scientist with over 22 years experience in water and natural resource management, environmental protection, and regulatory compliance. He has an extensive background in water quality, hydrology, state and federal regulatory compliance issues, environmental chemistry, analytical chemistry, field studies, and quality management. Bill has also played a pivotal role in numerous stormwater utility and LID planning and design projects, and he has an extensive background: conducting stormwater system inventories and GIS mapping; performing pollution assessments and illicit discharge investigations; preparing municipal, industrial, and construction SWPPPs; writing stormwater good housekeeping plans; and providing an array of stormwater program training to clients.

Erik Pruneda, PE, CPESC, CFM Senior Water Resources Engineer

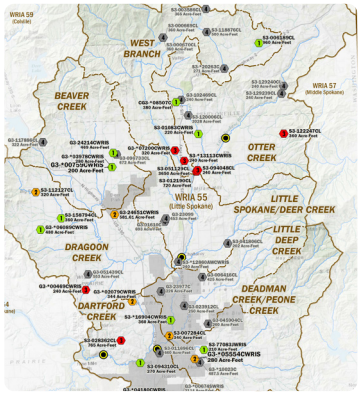
MS, Civil Engineering, Washington State University / BS, Civil Engineering, Washington State University / Professional Engineer, WA / Certified Floodplain Manager / Certified Professional in ESC

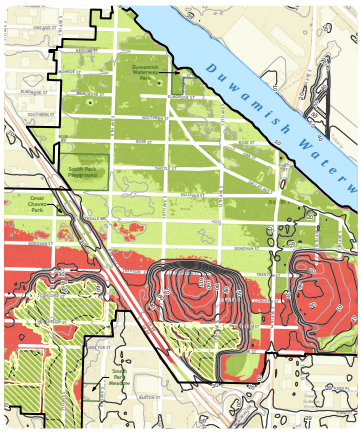
Erik is a Professional Engineer with 10 years of experience providing high quality and efficient engineering support for stormwater planning and engineering, flood hazard management, and stream restoration projects. His background is in stormwater conveyance and BMP design, grading plans, and low impact development (LID) systems, surface hydrology, hydraulics, HEC-RAS modeling, floodplain mapping, stream restoration design, erosion and sediment control. His experience includes: drainage system inventories; delineating drainage basins; conducted H/H modeling; designing numerous BMPs (including LID); developing construction documents and cost estimates; and preparing ESC plans.

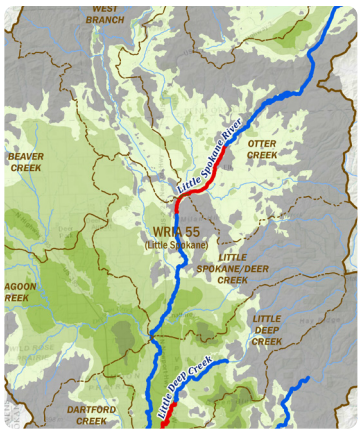
DATA + MAPPING

Information that Tells a Story

Data, maps, modeling, and information graphics are at the heart of nearly every project at Aspect. Our team of expert GIS analysts, drafters, cartographers, data scientists, and developers help our clients and project teams find insights in the right data that drives our hydrologic, geologic, and environmental studies. Aspect's skilled technical staff supports a wide-range of projects: from database design and application development to spatial data analysis and map production. When it comes to our software work products, we're dedicated to creating novel solutions that not only conform to client needs, but are sustainable, practical, and cost-effective. On graphical presentations, our team prides itself on our ability to create accurate, beautiful, and effective maps to meet nearly any project budget.







Data + Mapping Services

Spatial Analysis and GIS

- Site Suitability Modeling and Site Selection
- Remote Sensing and Image Analysis
- Geologic and Geohazards Mapping
- Subsurface Environmental Chemistry (Nature + Extent) Mapping
- GIS Water Rights and Water Availability Investigations
- Stormwater Infrastructure Mapping and Asset Management
- Geospatial Data Management, Geodatabase Design, and GIS Workflows
- Web Mapping
- Hydrologic Modeling
- LiDAR Data Processing and Analysis

Drafting and Cartography

- AutoCAD, ArcGIS, and Open Source Expertise
- Production Mapping
- Engineering Drawings
- 3D Visualizations
- Geologic Cross Sections and Other Subsurface Mapping
- Scripting and Workflow Development for High-Volume Mapping Jobs

Database Design, Data Management, and Application Development

- Custom Environmental Database Management Systems
- Data QA/QC and Regulatory Limits Screening
- GPS/Field Data Collection and Management
- Data Management Best Practices Assessment
- Business Systems/Compliance/Reporting Automation
- Application Software and Database Development
- Remote Monitoring and Telemetry Systems

"We picked your firm because of your innovative approach to the project and we were not disappointed."

-David Tucker
Assistant Director
Kitsap County Public Works Director

KEY DATA + MAPPING STAFF

Parker Wittman Associate Data Scientist

BA, Communications and Culture, Indiana University / BA, Physics, Indiana University

As the technical lead of Aspect's Mapping and Data Services Group, Parker Wittman provides project planning, implementation, and management support in areas of GIS, spatial analysis, data management, model development and scripting, database/user-interface development, and mobile field data collection. Parker has key expertise in the fields of water resources GIS, relational database design, environmental data analysis, and scripting. He has over 10 years of experience planning and leading GIS projects in a wide range of disciplines. A creative problem solver and effective collaborator with expert skills as both a data scientist and communicator, Parker is known for his ability to distill complex information clearly and concisely for his clients.

Emelie Crumbaker Senior GIS Analyst

BS, Civil Engineering, Tufts University / Geographic Information System Professional (GISP)

Emelie brings over 17 years of experience in GIS analysis and cartographic representation to the GIS team. She is a civil engineering graduate with extensive GIS analysis skills ranging from city drainage to global hunger. She has in depth knowledge of data creation, management, analysis and cartographic design. At Aspect, Emelie is performs GIS analysis and mapping for Aspect's environmental and stormwater projects. Her work includes GIS analysis for the Port Angeles landfill project, mapping contamination for a Superfund site, and supporting the Port of Seattle Seaport's GIS stormwater network.

Chris Bellusci Associate Business Systems Architect

Associate of Electrical Engineering, ITT Technical Institution of Technology

Chris Bellusci is a business solution architect with over 20 years in leading product development for spatial software solutions related to environmental compliance of earth sciences and the environment. Chris brings extensive insight into business processes, data management, and visualization for clients. He delivers high quality consulting services focused on managing service delivery and client satisfaction. Chris is well versed in the regulatory framework of USFWS, FERC, and state-level environmental departments and helps mining, energy, and public agency clients efficiently meet compliance so as to focus on business growth and efficiencies. He works closely with clients to create a high-level vision of their business needs, decide which technologies will work best and develop the right solutions to meet their challenges.

Blair Deaver Senior Geospatial Data Scientist

BS, Environmental Studies, University of Oregon / Certified AWS Solution Architect

Blair Deaver is a data scientist with geospatial and analytics technology, cloud computing, enterprise technology, and product development experience. Blair is an Amazon AWS Certified Solution Architect with extensive IT experience. His is well versed in supporting software solutions deployments both in the cloud and on-premise enterprise environments. He has over 20 years of GIS/Geospatial experience supporting customers across multiple vertical market sectors such as: Water and Natural Resources, Mining, Transportation, Commercial Development, Federal, State and Local Government, Energy, and NGO clients.

DATA + MAPPING PROJECT EXPERIENCE

Seaport Stormwater Project | Port of Seattle

Aspect is responsible for geodatabase architecture and upkeep for a comprehensive mapping, data acquisition, and data management effort involving the Port of Seattle Seaport's entire stormwater network. As part of the Port's efforts to manage critical geospatial data related to both its stormwater infrastructure and tenant/permit records, Aspect provides support to the Stormwater Program Manager regarding the flow of information between field verification teams, database managers, internal Port systems and departments, as well as other outside consultants. Begninning in 2007, Aspect worked with an interdepartmental team of stakeholders to build the Port of Seattle's first Enterprise GIS-ready stormwater database. Beginning with an archive of CAD drawings and continuing on to field verification efforts, Aspect built a flow-enabled GIS database that has expanded in its reach and functionality to this day.

LID Feasibility Assessment Maps and Webpage | City of SeaTac

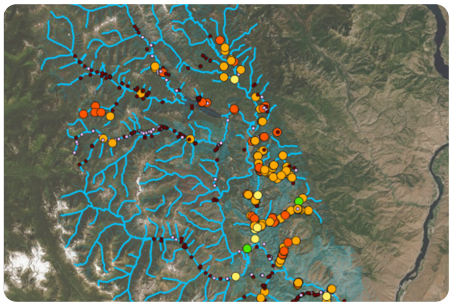
Aspect's GIS team led a citywide assessment to help the City of SeaTac easily identify areas where low-impact development (LID) stormwater management was not feasible and therefore does not require site-specific analysis to undergo development. The assessment incorporated LID Best Management Practices (BMP) infeasibility criteria specified in the 2016 King County Surface Water Design Manual (as amended by the City of SeaTac) and a compilation of a variety of data, including GIS datasets provided by the City and data downloaded from public entities, City records and drainage complaints, and in-house data available from previous project work. Aspect's staff created GIS models to map infeasibility for each LID BMP, resulting in creation of 10 GIS maps indicating areas of LID infeasibility by LID BMP type, including bioretention, permeable pavement, full and basic dispersion, and full and limited infiltration.

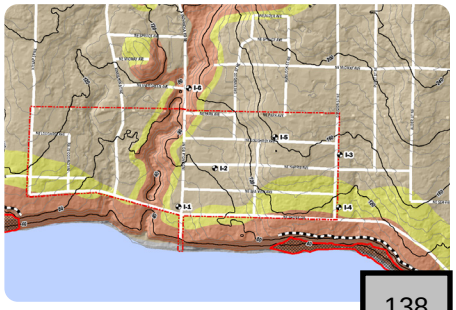
Exempt Well Forecasting and Well Tracking Software Development | Okanogan County

Aspect completed an analysis of projected permit-exempt well growth over a 20-year planning horizon in WRIA 49 (Okanogan). This parcel-scale analysis leveraged custom forecasting models incorporating Okanogan County assessor data, building permits, historic and forecasted census block-level population data from Washington Office of Financial Management (OFM), public water systems, zoning, etc.—as prescribed by ESSB 6091. Additionally, Aspect lead a GIS-based aerial photo review and statistical analysis to establish the extent to which permit-exempt wells are used for outdoor irrigation in Okanogan County. Aspect is currently working with County stakeholders to design and build a custom software system that can be used to plan for, track, and manage exempt wells in Okanogan County.

Salmon Recovery Board GIS Services | Upper Columbia River

To support the overall objective of increased salmon habitat connectivity, Aspect created a GIS-based decision support model which summarizes the quality of ecological conditions surrounding each instream barrier within the Wenatchee Basin. Aspect continues to support the Upper Columbia Salmon Recovery Board with on-call GIS support.





Item Attachment Documents:

6. Personal Services Contract - Bell Design Company - General Civil Engineering and Surveying Services
   a. Presentation and Discussion
   b. Action

AGENDA MEMO

Needs Legal Review: Yes
Council Meeting Date: April 1, 2020
Agenda Item: Personal Services Contract – General Civil Engineering and Surveying – Bell Design Company

Action Required
Authorize the Mayor to sign Personal Services Contract with Bell Design Company for General Civil Engineering and Surveying Services.

Motion
Move to authorize the Mayor to sign Personal Services Contract with Bell Design Company for a master contract and fees as established in Exhibit A for a two-year period ending December 31, 2021 for General Civil Engineering and Surveying Services.

Explanation of Issue
The City of White Salmon requested Statements of Qualifications from engineering firms for General Civil Engineering, Transportation Engineering, Water Engineering, Wastewater Engineering, Hydrogeological Engineering and Services, and Surveying Services. Sixteen companies submitted Statements of Qualifications. The SOQ's were evaluated under each category.

Based on the evaluations and rankings of the companies, staff finds that Bell Design is a highly qualified firm to provide the general civil engineering and surveying services the city needs for 2020-2021 period.

Staff Recommendation
Staff recommends the city council authorize the Mayor to sign a Personal Services Contract with Bell Design Company for General Civil Engineering and Surveying Services.

CITY OF WHITE SALMON
PERSONAL SERVICES CONTRACT

This contract is between the City of White Salmon and Bell Design Company. hereafter called Contractor. City's Contract Administrator for this contract is Patrick Munyan, City Administrator.

Effective Date and Duration
This contract shall become effective on the date at which every party has signed this contract. This contract shall expire, unless otherwise terminated or extended on December 31, 2021.

Statement of Work
(a) This contract is for General Civil Engineering and Surveying Services for a two-year period.
(b) Each specific project or service provided under this contract will require a task order/scope of work with estimated hours and costs associated with the project or service to be approved by the City of White salmon.

Consideration
(a) City agrees to pay Contractor for time, materials and expenses incurred in the performance of duties as identified in each approved task order/scope of work.
(b) Monthly invoices shall be submitted to the City itemizing all time, materials and expenses incurred as planning consultant to the City, breaking down such expenses by project. Costs for time, materials and expenses shall be pursuant to Bell Design Company's fee schedule as provided in Exhibit A.

Amendments
The terms of this contract shall not be waived, altered, modified, supplemented or amended in any manner whatsoever except by written instrument signed by both parties.

Terms and conditions listed on page two

CONTRACTOR DATA, CERTIFICATION, AND SIGNATURE

Name (please print): Bell Design Company

Federal Tax ID No: 91-1650018

Address: PO Box 308
Bingen, WA 98605
Phone: 509-493-3886
Email: stonebell@belldesigncompany.com

Citizenship: Non resident alien	☐	Yes	X	No
Business Designation (Check one):	☐	Individual	☐	Sole Proprietorship
	☐	Partnership	☐	Estate/Trust
	X	Corporation	☐	Public Service Corporation
	☐	Governmental/Nonprofit		

Payment information will be reported to the IRS under the name and taxpayer ID number provided above. Information must be provided prior to contract approval. Information not matching IRS records could subject Contractor to 31 percent backup withholding.

I, the undersigned: agree to perform work outlined in this contract in accordance to the terms and conditions (listed on the front and backside and made part of this contract by reference) and the statement of work made part of this contract by reference hereby certify under penalty of perjury that I/my business am not/is no in violation of any Washington tax laws; and thereby certify I am an independent contractor. As noted in No. 21 of the Standard Contract Provisions, where required for Federal funding, Contractor certifications and signatures apply to Exhibits C and D.

Approved by the Contractor: _____ _____
Signature Date

Approved by the City: _____ _____
Marla Keethler, Mayor Date

Approved by Council: _____
Date

STANDARD CONTRACT PROVISIONS FOR PERSONAL SERVICES (NON-PERS MEMBERS)

1. Retirement System Status

Contractor is not a contributing member of the Public Employees' Retirement System and is responsible for any federal or state taxes applicable to any comprehensive or payments paid to contractor under this contract. Contractor is not eligible for any benefits from these contract payments of federal Social Security, unemployment insurance, or workers compensation except as a self-employed individual.

2. Effective Date and Duration

The passage of the contract expiration date (as recorded on reverse side) shall not extinguish, prejudice or limit either party's right to enforce this contract with respect to any default or defect in performance that has not been cured.

3. Government Employment Status

If this payment is to be charged against federal funds, Contractor certifies it is not currently employed by the federal government.

4. Subcontractors and Assignment

Contractor shall not enter into any subcontractors for any other work scheduled under this contract without prior written consent of the City. Subcontractors exceeding $20,000 in cost shall contain all required provisions of the prime contract.

5. Dual Payment

Contractor shall not be compensated for work performed under this contract by any other municipality of the State of Washington.

6. Funds Available and Authorized

City certifies at the time of contract execution that sufficient funds are available and authorized for expenditure to finance costs of this contract within the City's appropriation or limitation.

7. Termination

(a) This contract may be terminated by mutual consent of both parties, or by the City upon 30 days' notice in writing and delivered by certified mail or in person.

(b) City may terminate this contract effective upon delivery of written notice to the Contractor, or at such later date as may be established by the City, under any of the following conditions:

(i) If City funding from federal, state or other sources is not obtained and continued at levels sufficient to allow for the purchase of the indicated quality of services. The contract may be modified to accommodate a reduction in funds.

(ii) If federal or state regulations or guidelines are modified, changes or interpreted in such away that the services are no longer allowable or appropriate for purchase under this contract or are no longer eligible for the funding proposed for payments authorized by this contract.

(iii) If any license or certificate required by law or regulation to be held by the Contractor to provide the services required by this contract is for any reason denied, revoked or no renewed. Any such termination of this contract under subparagraphs 7(a) or 7(b) shall be without prejudice to any obligations or liabilities of either party already accrued prior to such termination.

(c) The City may terminate the whole or any part of this agreement by written notice of default (including breach of contract) to the Contractor.

(i) If the Contractor fails to provide services called for by this contract within the time specified herein or any extension thereof, or

(ii) If the Contractor fails to perform any of the other provisions of this contract, or so fails to pursue the work as to endanger performance of this contract in accordance with its terms, and after receipt of written notice from the City, fails to correct such failures within 10 days or such other period as the City may authorize.

The rights and remedies of the City provided in the above clause related to defaults (including breach of contract) by the Contractor shall not be exclusive and are in addition to any other rights and remedies provide by law or under this contract.

8. Access to Records

City, the Secretary of State's Office of the State of Washington, the federal government, and their duly authorized representatives shall have access to the books, documents, papers and records of the Contractor directly pertinent to the specific contract for the purpose of making audit, examination, excerpts and transcripts of the period of three (3) years after final payment. Copies of applicable records shall be made available upon request. Payment for cost of copies is reimbursable by City.

9. State Tort Claims Act

Contractor is not an officer, employee or agent of the State or City as those terms are used in RCW 4.96.020.

10. Compliance with Applicable Law

Contractor shall comply with all federal, state and local laws and ordinances applicable to the work under this contract.

11 Indemnification

(a) Indemnity-Claims for Other than Professional Liability

Contractor shall defend, save and hold harmless the City their officers, agents and employees form all claims, suites or actions of whatsoever nature, including international acts resulting from or arising out of the Contractor or its subcontractors, agents or employees under this agreement. The Contractor waives, with respect to the City, its immunity under industrial insurance, Title 51 RCW. This waiver has been mutually negotiated by the parties. This indemnification shall survive the expiration or termination of this Agreement.

(b). Indemnity-Claims for Professional Liability

Contractor shall defend, save and hold harmless the City, their officers, agents and employees, from all claims, suits or actions arising out of the professional negligent acts, errors or omissions of Contractor or its subcontractors and subconsultants, agents or employees in performance of professional services under this agreement.

12. Insurance

(a) Liability Insurance. Contractor shall maintain occurrence form commercial general liability and automobile liability insurance for the protection of he contractor, the City, its commissioners, employees, and agents. Coverage shall include personal injury, bodily injury, including death, and broad form property damage, including loss of use of property, occurring in the course of or in any way related to Contractor's operations, in an amount not less than $1,000,000.00 combined single limit per occurrence. Such insurance shall name the City as an additional insured with a coverage endorsement at least as broad as ISO CG 20 10 10 01.

(b) Workers' Compensation Coverage. Contractor certifies that Contractor has qualified for State of Washington Workers' Compensation coverage for all Contractor's employees who are subject to Washington's Workers' Compensation statute, either as a carrier-insured employer as provided by RCW Chapter 51 or as a self-insured employer.

(c) Certificates. Within 10 calendar days after full execution of this contract, Contractor shall furnish the City with certificates evidencing the date, amount, and type of insurance required by this contract. All policies shall provide for not less than thirty (30) days' written notice to the City before they may be canceled.

(d) Primary Coverage. The coverage provided by insurance required under this contract shall be primary, and shall not seek contribution from any insurance or self-insurance carried by the City.

13. Ownership of Work Product

All work products of the Contractor which result from this contract are the exclusive property of the City.

14. Nondiscrimination

Contractor agrees to comply with all applicable requirements of federal civil rights and rehabilitation statutes, rules and regulations. Contractor also shall comply with the Americana with Disabilities Act of 1990 (Pub L No. 101-336) including Title II of that Act, and all regulations and administrative rules established pursuant to that law.

15. Successors in Interest

The provisions of this contract shall be binding upon and shall inure to the benefit of the parties hereto, and their respective successors and assigns.

16. Execution and Counterparts

This contact may be executed in several counterparts, each of which shall be an original, all of which shall constitute but one and the same instrument.

17. Force Majeure

Neither party shall be held responsible for delay or default caused by fire, civil unrest, labor unrest, acts of God and war which is beyond such party's reasonable control. Each party shall, however, make all reasonable efforts to remove or eliminate such a cause of delay or default and shall, upon the cessation of the cause, diligently pursue performance or its obligations under the contract.

18. Severability

The parties agree that if any terms or provisions of this contract is declared by the court of competent jurisdiction to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the contract did not contain the particular terms or provisions held to be invalid.

19. Errors

The contractor shall perform such additional work as may be necessary to correct errors in the work required under this contract without undue delays and without additional cost.

20. Waiver

The failure of the City to enforce any provisions of the contract shall not constitute a waiver by the City of that or any other provision.

21. Other Requirements

When federal funds are involved in this contract, Contractor Debarment and Non-Collusion certifications and signatures apply to Exhibit C and D.

22. Governing Law

The provisions of this contract shall be construed in accordance with the provisions of the laws of the State of Washington. Any action or suit involving any question arising under this contract must be brought in the appropriate court of the state of Washington, Skamania County.

23. Attorney Fees

The prevailing party shall be entitled to reasonable attorney fees at trial and on appeal in an action brought with respect to this contact.

24. Merger Clause

THIS CONTRACT AND ATTACHED EXHIBITS CONSTITUTES THE ENTIRE AGREEMENT BETWEEN THE PARTIES. NO WAIVER, CONSENT, MODIFICATION OR CHANGE OF TERMS OF THE CONTRACT SHALL BIND EITHER PARTY UNLESS IN WRITING AND SIGNED BY BOTH PARTIES. SUCH WAIVER, CONSENT, MODIFICATION OR CHANGE IF MADE, SHALL BE EFFECTIVE ONLY IN SPECIFIC INSTANCES AND FOR THE SPECIFIC PURPOSE GIVEN. THERE ARE NO UNDERSTANDINGS, AGREEMENTS OR REPRESENTATIONS, ORAL OR WRITTEN, NOT SPECIFIED HEREIN REGARDING THIS CONTRACT. CONTRACTOR, BY THE SIGNATURE OF ITS AUTHORIZED REPRESENTATIVE, HEREBY ACKNOWLEDGES THAT HE/SHE HAS READ THIS CONTRACT, UNDERSTANDS IT AND AGREES TO BE BOUND BY ITS TERMS AND CONDITONS.

Exhibit "A"

Published Fee Schedule
Fiscal Year 2020 REV 1/7/20

Engineering Specialist, (SE, EN, GE)*	PE5	$ 198.00	per hr
Engineering Department Manager	PE4	$ 178.00	per hr
Engineering Project Manager	PE3	$ 160.00	per hr
Professional Engineer	PE2	$ 142.00	per hr
Senior Engineering Design Tech/PE 1	PE1	$ 126.00	per hr
Engineering Design Tech 4	EIT4/T5	$ 112.00	per hr
Engineering Design Tech 3	EIT3/T4	$ 100.00	per hr
Engineering Design Tech 2	EIT2/T3	$ 89.00	per hr
Engineering Design Tech 1/Field Technician 2	EIT1/T2	$ 79.00	per hr
Office/Field Technician 1	T1	$ 70.00	per hr

**Licensed personnel with special endorsements*

Multiply rates by 2 for expert witness services of all kinds.

<u>Surveying Services:</u>			
Surveying Department Manager	PLS3	$ 140.00	per hr
Surveying Project Manager, PLS	PLS2	$ 126.00	per hr
Surveying Crew Chief, PLS	PLS1	$ 110.00	per hr
Land Surveyor in Training	LSIT	$ 99.00	per hr
Technical Field Staff 4	S4	$ 88.00	per hr
Technical Field Staff 3	S3	$ 77.00	per hr
Technical Field Staff 2	S2	$ 68.00	per hr
General Field Staff	S1	$ 60.00	per hr
<u>Support Services:</u>			
Executive Administrative Personnel	O7	$ 150.00	per hr
Administrative Personnel 6	O6	$ 123.00	per hr
Administrative Personnel 5	O5	$ 102.00	per hr
Administrative/Drafting Personnel 4	O4/D4	$ 85.00	per hr
General Office/Drafting Personnel 3	O3/D3	$ 70.00	per hr
General Office/Drafting Personnel 2	O2/D2	$ 58.00	per hr
General Office/Drafting Personnel 1	O1/D1	$ 48.00	per hr

<u>Other Expenses:</u>			
Mileage *(Travel time is billed at normal hourly rates per position)*	$ 0.58	per mile	
Materials	Cost plus 10%		
External Services and Equipment	Cost plus 10%		
Equipment:			
DGPS Survey Equipment	$ 350	per day	$ 90 per hour
Robotic Total Station Survey Equipment	$ 275	per day	$ 70 per hour
Total Station Survey Equipment	$ 100	per day	$ 30 per hour
Drone Mapping	$ 200	per event	
Level Equipment	$ 25	per hour	
Computer Equipment	$ 10	per hour	
Motorized Off-road Vehicle Rental	$ 6	per hour	
Report Products:			
Mylars	$ 15	per sheet	
Plots & Copies, color (over 8.5 x 11)	$ 6	per sheet	
Plots & Copies, b/w (over 8.5 x 11)	$ 4	per sheet	
Drawings and Copies (8.5 x 11)	$ 1	per sheet	

CITY OF WHITE SALMON

Statement of Qualifications
2020 Engineering Services

February 19, 2020

BELL DESIGN COMPANY
900 West Steuben St
PO BOX 308
Bingen, WA 98605
(509) 493-3886

BELL DESIGN CO.
Civil Engineering & Land Surveying

900 W Steuben
PO Box 308
Bingen, WA 98605

February 18, 2020

Jan Brending
City of White Salmon
PO Box 2139
White Salmon, WA 98672

RE: Statement of Qualifications for 2020 Engineering Services

Dear Ms. Brending:

Bell Design Company is pleased to submit our Statement of Qualifications for Professional Engineering Services to the City of White Salmon for 2020. Bell Design Company has over 25 years of engineering experience backing our promise to provide quality engineering services to meet your needs for City Engineering Services. Our previous experience with other cities, counties, and utility districts has provided us with a broad understanding of federal, state, and local standards and requirements. Bell Design Company appreciates the opportunity to continue working with the City of White Salmon.

Bell Design Company would like to be considered for the following engineering services in 2020:

Transportation	Water
Wastewater	General Civil Engineering
Surveying Services	

While we are not submitting specifically for Water Rights/Hydrogeological, for projects related to the remaining categories that required those specific experience areas, we would utilize Robinson-Noble and have included a brief description of their services in the subconsultant section of the company overview.

I, Stoner W. Bell, will be the authorized representative and contact person for Bell Design Company (BDC) and shall serve as the sole person with authority to enter negotiations directly with the City of White Salmon and to sign any resulting contracts.

BDC certifies that it is a fully licensed and incorporated engineering firm in the State of Washington and that it can legally perform all civil engineering services that may be required by the City.

If you have any questions concerning Bell Design Company's abilities or the contents of this Statement of Qualifications, please do not hesitate to contact me at (509) 493-3886 or at *stonerbell@belldesigncompany.com.*

Sincerely,

Stoner W. Bell, PE
CEO

EXECUTIVE SUMMARY

Bell Design Company is submitting this Statement of Qualifications independently of any other engineering firms. Established: 1994

Bell Design Company
900 W Steuben
PO Box 308
Bingen, WA 98605
509-493-3886

Authorized Representative:.....Stoner W. Bell, PE
Engineering Services Lead:.....Stoner W. Bell, PE

RESPONSIBLE PERSONNEL

Stoner Bell is a licensed professional engineer in the State of Washington and Oregon that specializes in water and wastewater services. He has been practicing engineering in these fields for 30 years. He has a BS in Civil Engineering and a MS in Civil Engineering with an emphasis in Hydraulic Engineering. He is the President of BDC and has served as the Water and Wastewater Department manager of BDC for 25 years. In that capacity, he has managed over 300 local projects with associated total service fees of over $7,000,000.

SCOPE OF RELATED SERVICES

BDC specializes in the following areas that may be related to work required by the City:

Water & Sewer & Storm

Water, Sewer, & Stormwater Master Plans	Storm Water Retention Facilities
Septic & Sewer Design	Pump and Sewage Lift Stations
Engineering Reports & Analysis	Potable Water Reservoirs
Potable Drinking Water Pipeline Design	POTW Facility Improvement Plans
Hydraulic and Hydrologic Modeling	Stormwater BMP Design
Wastewater Treatment Design & Mgmt	Stormwater Handling Facilities
Development Review	Operations Support

Transportation and Site

Private and Public Road Design	Plat and Subdivision Roads
Site Design and Master Planning	Erosion and Sediment Control
Slope Analysis and Stabilization	Site Development Review
Storm Water Retention Facilities	Highway Drainage Design
ADA Consulting	Building Conditions Assessment

Surveying

Drone Imaging & Mapping	Design Surveys
Construction Staking	As-built Surveys
Right-of-Way Determination	

FIRM PERSONNEL

BDC has the following personnel:

Principals .....3 (2 Engineers & 1 Surveyor)
Engineering Staff 5
Surveying Staff.....3
Administrative Staff.....6 (3.5 FTE)

ORGANIZATIONAL CHART

BELL DESIGN CO
PRESIDENT Stoner Bell, PE

WATER & WASTEWATER & STORM
MANAGER: Stoner Bell, PE

ENGINEERING STAFF
Senior Design Engineer Cory Brown, EIT
Senior Design Engineer Choncy Jones, EIT
Design Engineer Riston Andrews, EIT

ROAD & SITE & STRUCTURAL
MANAGER: Devry Bell, PE

ENGINEERING STAFF
Structural Design Engineer Evony Hubert, EIT
Senior Civil Technician Steven Banks

LAND SURVEYING
MANAGER: Austin Bell, PLS

SURVEYING STAFF
Surveyor & FAA Remote Pilot Henry Kapp, PLS
Field & Office Technician Joe Dawkins
Technician & FAA Remote Pilot Joe Dickinson

FINANCE & OPERATIONS
MANAGER: Deborah Bell

ADMINISTRATIVE STAFF
Finance & Operations Assistant Daniel Lewis
Office Manager Denise Bell
Office Assistant Jackie Riley

TECHNICAL SUPPORT
Christian Raynor

HUMAN RESOURCES
MANAGER: Laurie Bell

PROFESSIONAL REFERENCES

Mark Lago, Yamhill County, Oregon, Public Works Director
(Former City of Hood River Public Works Director)
2060 Lafayette Avenue
McMinnville, OR 97128
Phone (503) 434-7515
Related Projects: City of Hood River On-Call Services Contract, Capital Facilities Master Plan Update, Various Waterline Improvements

Rick Peargin, City of Hood River, Right-of-Way Inspector
1200 18th St Hood River, Oregon 97031
(541) 386-2383 rick@ci.hood-river.or.us
Related Projects: Digester Inspection, General Engineering Services

Arnold Bell, Skamania County Public Works, Project Manager
PO Box 1009, 170 NW Vancouver Ave
Stevenson, WA 98648
(509) 427-3910 abell@co.skamania.wa.us
Related Projects: On-Call Surveying Services Contract, On-Call Hydrological Services Contract

Pat Munyan, City of White Salmon City Administrator
PO Box 2139 White Salmon, WA 98672
(509) 493-1133 patm@ci.white-salmon.wa.us
Related Projects: Water Master Plan, Waubish Street Sewer Lift Station

TABLE OF CONTENTS

STATEMENT OF QUALIFICATIONS

COMPANY PROFILE

INTRODUCTION

Bell Design Company (BDC) was incorporated in 1994 with a vision to build a civil engineering and land surveying company dedicated to excellence. Our mission includes serving small communities; providing excellent and accurate services and products; maintaining a positive and healthy working environment for our employees; and giving back to communities both personally and professionally in such a way that quality of life is enhanced. We have spent the last twenty-five years creating relationships and earning the trust of cities, counties, local utility districts, and communities in both Washington and Oregon. Our projects have ranged from master planning to permitting and from facility and system design to construction management. Historically, projects have included, but have not been limited to, road design, water and sewer system modeling, water and sewer master plans, water and sewer system design, pump station design, structural analysis and design, septic system design, public and private land surveying, construction inspection services, and contract administration. BDC has 17 employees and has worked on nearly 5,000 projects in both Washington and Oregon, serving more than 3,000 public and private clients.

ENGINEERING SERVICES

BDC is interested in being considered for any engineering needs that the City of White Salmon may have in 2020, including specifically:

General Civil Engineering	Transportation
Water	Wastewater
Surveying Services	

In addition, we would like to make the City aware of other engineering services that BDC could provide to the City on an on-call basis, which we will include in our General Civil Engineering section of this Statement of Qualifications.

BUSINESS LICENSE

BDC certifies that it is a fully licensed and incorporated engineering firm in the State of Washington, and that it can legally perform all engineering and land surveying services that may be required.

WA State Tax Registration Number:	UBI #601 567 665 000
Federal Identification Number:	91-1650018
DUNS Number:	961811833

INSURANCE

Bell Design Company maintains the following insurance policies:

Professional Liability Insurance	Provider: Peleus Insurance Company	$2,000,000
Automobile Insurance	Provider: Ohio Casualty Insurance	$1,000,000
General Liability Insurance	Provider: Ohio Security Insurance	$2,000,000
Worker's Compensation Insurance	Provider: State of Washington	N/A

AVAILABILITY

BDC is capable of handling a work load level of $1,600,000 to $2,000,000 per year.

LOCATION

BDC is located in Bingen, Washington, 5 miles from White Salmon, Washington.

QUALITY OF CLIENT SERVICE & WORK

Accessibility

Because BDC is a small and personal engineering company, we are readily available for meetings and communication with Agency staff. Clients have access to cell phone numbers for all of our engineers and surveyors are always welcome to drop in to the office when necessary for emergency meetings or consultations.

Working Relationships

BDC has worked hard to meet the needs of our clients and to maintain those positive working relationships with our clients throughout the existence of our firm by being readily available to our clients, by being responsive to emails and phone calls, by doing quality and timely work, and by focusing our attention on meeting client needs in the most productive and cost-effective manner possible. The success of our efforts is reflected in the long-term nature of relationships with both private and public clients. Our ability to maintain long-term relationships is demonstrated by the loyalty of our clients. Of our total revenue for 2019, 85% of our project work was done for repeat clients. For example, we have served continuously as the contracted City Engineer for Hood River since 2012 and have completed over 60 projects for the City between 2003 and 2019. We have completed nearly 30 projects for Skamania County and have served as the contracted County Surveyor since 2011 and recently contracted as the Hydraulic/Hydrology County Engineer. We have been the contracted County Surveyor for Klickitat County for six of the last nine years, including 2019. We have also served as the contracted engineer for the City of White Salmon and have completed over 80 projects for them between 1995 and 2020.

QA/QC

BDC makes every effort to ensure that our work is done accurately, cost effectively, and on schedule by utilizing a **project plan.** This plan is detailed for all projects and includes a scope of work and schedule that is reviewed with the client to ensure that we are in agreement with the client as to the level of work the time schedule. We work with clients to identify project milestones and objectives, allowing the project schedule to be in focus throughout the project lifecycle. We ensure quality of work by subjecting all projects to **senior review** with all work either being completed or reviewed by a senior engineer or project manager. We maintain sufficient **project records** in order to document all of our work and have established methods for documenting meetings, telephone conversations, design criteria, inspection reports, and construction management and inspection procedures, including daily inspection reports. BDC encourages **client review** by providing clients with draft documents at key milestones, encouraging clients to evaluate the work. Work sessions with the client are scheduled at pertinent points in the project to review work in progress. For **cost control,** the aforementioned project plan includes a detailed cost estimate, delineated by task and employee. These cost estimates are based on over 25 years of experience on related projects of all sizes and types. Costs for historical projects are tracked and evaluated for greater accuracy in future projects. Costs are tracked weekly with a project database, providing timely project reports and invoices and then compared to project plan estimates and schedules. The effectiveness of cost control measures depends on **clear communication** by both our clients and BDC which ensures that each project tightly follows the scope and progresses according to schedule, that excessive cost due to project overruns and work done outside of scope are reduced, and that problems are identified before they become costly to both us and/or our clients.

SUBCONSULTANTS

BDC is committed to establishing and maintaining working relationships with highly qualified professionals who enhance our ability to perform work. Subconsultants are identified based on the needs of the clients. All subconsultants are required to execute a professional services agreement with BDC for a specified scope of services, budget, and schedule, which is consistent with the prime agreement between BDC and the client. The project manager works closely with the subconsultants to ensure that project components are well coordinated, timely, and reviewed by the project manager.

ROBISON NOBLE

Robinson Noble is a geotechnical, hydrogeologic, and environmental consulting firm providing earth science and engineering support for public, private, commercial, and industrial clients throughout Washington State and the Pacific Northwest. Drawing upon a highly skilled team of licensed geologists, hydrogeologists, geotechnical engineers, and environmental scientists, our services are tailored to provide the desired level of assistance to help our clients achieve their project goals. Robinson Noble delivers a level of expertise and experience that belies our modest size and Small Business status. Senior personnel are actively involved in all project stages, providing excellent quality control. Our reputation for technical excellence reflects our clients' successes over the past 73 years.

EXPERIENCE: GENERAL ENGINEERING SERVICES

General engineering services can encompass a wide variety of services. Such services can include planning, design, and construction management of specifically identified and defined individual projects. They can also include technical support for City in a variety of situations on an as-needed basis. Additional services could include handling ongoing services, but of an undefined quantity and schedule, such as development review and operations support.

INDIVIDUAL DESIGN PROJECTS

In addition to the specific fields of engineering that have been identified by the City in the Request for Proposals, Bell Design Company could also provide additional services for quantifiable, individual design projects.

Examples of this type of work:

Feasibility Studies
Facility Upgrades

TASKS AS ASSIGNED OR REQUESTED

Bell Design Company can also assist with smaller tasks on an as-needed basis. For these types of tasks, Bell Design Company would normally be reimbursed on a time and materials basis for these tasks.

Examples of this type of work:

Site Plan Reviews
Permit Reviews
Grant application assistance
Corresponding with Agencies
Tying utilities or monuments
Easement descriptions and reviews
Dealing with non-compliance issues
Development Reviews
Attending Meetings
Reviewing deeds or legal descriptions

CONSULTING OR SUPPORT

At the City's request, Bell Design Company could be available to answer questions, provide guidance, research situations, and provide liaison support with state and local authorities on an as-needed basis. BDC would normally be reimbursed for time and materials for this type of work.

Examples of this type of work:

Systems Operation Support
Statute or Standards Interpretation

GENERAL ENGINEERING SERVICES EXPERIENCE

ON-CALL ENGINEERING SERVICES

City of White Salmon

BDC served as the engineer of record for the City of White Salmon from 1997 to 2005. Work was authorized and supervised by the Public Works Director, Wil Keyser. Services provided under this contract included a major water system improvement including well fields, reservoirs, and distribution system upgrades, totaling over $750,000 in engineering fees. Bell Design has continued to work for the City on individual projects of various sizes since then, including:

- City Hall Remodel $51,523.11
- Buck Creek Transmission Line and Water Meter Repair $26,890.00
- Waubish Lift Station Preliminary Engineering Report $28,703.22
- Everybody's Brewing Sampling/Permit $10,884.10
- Waubish Street Sewer Lift Station - Design and Construction Services $71,435.15
- Safe Routes to School Design & Construction Services $80,359.97
- Pedestrian Rockfall Protection Design Concept & structure $8,677.00

ON-CALL ENGINEERING SERVICES

City of Hood River

Bell Design Company has served as the contracted engineer for the City since 2011, being available to the City for a variety of services. We have developed strong working relationships with City staff and government, and have worked with various state and federal agencies on the City's behalf. BDC also provides survey and construction management services, as necessary.

On-call services have included, but not been limited to:

- Staff and Department Support
- Sewer System Repair Projects
- Transportation SDC Analysis
- Easement Descriptions & Reviews
- Non-Compliance Issues
- Cast-in-Place Pipe Projects
- Water Usage Issue Resolution
- Hydropower Studies
- Pre-treatment studies
- Budgeting & Finance Support
- Plan Reviews
- Grant Application Assistance
- CIP Costs and Budgeting
- TAL Reviews
- Site Plan Reviews
- Permit Reviews
- Pipeline Designs
- Cost Estimations
- Development Review
- Odor Control Design
- Development Meetings
- Annexation Issues
- Traffic Impact Analysis
- Property Line Adjustments
- Discharge Permit Violations
- Fat-Oil-Grease Violations
- Sewer Rate Reviews
- Ordinance Reviews
- Sidewalk Projects
- Legal Deed Research
- Water Rights Support
- Water Treatment Support
- Telemetry System Support
- Signalization Projects
- NPDES Issue Solutions
- Feasibility Studies
- Pilot Studies
- LID Stormwater Mgmt Plan
- Bio-Solids Mgmt Plan

BDC has also completed over 100 independent engineering projects for the City which include:

- Sanitary Pump Station Designs
- Safe Routes to School Projects
- Access Road Design
- Intersection Design
- Storm System Modeling
- Waterline Designs & Extensions
- Design Standards Updates
- Sewer Treatment Facility Upgrades
- Water Master Plan
- Feasibility Studies
- Pressure Reducing Stations
- Stormwater Master Plan
- Outfall Project
- Water System Modelling
- Public Facilities Design
- Water Conservation Plans
- Stormline Replacements
- Sewer Master Plan
- Sewer Line Projects
- Facility Plans
- Monitoring Plans
- Street Design
- Sewer System Modeling
- Urban Renewal Projects
- ADA ramp Upgrades
- Budget Reviews
- Public Restroom Design

ON-CALL SURVEYING SERVICES & HYDROLOGICAL ENGINEERING SERVICES

Skamania County Public Works

Since 2011 Bell Design Company has enjoyed a working relationship with Skamania County Public Works as the On-Call Surveyors. In 2019 Bell Design Company was awarded the On-Call Hydrological Engineering contract and is currently serving as the On-Call Hydrological Engineer for the County. Bell Design Company was recently assigned a project by the County which involves the hydrological/storm water management and civil engineering design services for a road widening effort on a 1.5-mile section of the Washougal River Road.

EXPERIENCE: WATER & WASTEWATER

Bell Design Company has experience in all aspects of engineering for water, wastewater, and storm systems, including planning; capital facility planning, evaluation, and design; distribution and collection system modelling, design, and repair; and supply and treatment evaluation and design.

FACILITY MASTER PLANS

BDC has extensive experience with all aspects of system planning, modeling, and mapping for sewer, water, and storm systems. Our most significant efforts include the City of Hood River, the City of White Salmon, and the City of Portland. BDC has been involved in multiple facility plan updates for both the City of White Salmon and the City of Hood River. In addition, we contributed extensively to the modeling efforts for the City of Portland Combined Sewer Overflow (CSO) project.

CAPITAL FACILITIES MASTER PLAN UPDATE
City of Hood River

The City of Hood River contracted with BDC to update the City's most recent Water Master Plan, Sanitary Master Plan, and Stormwater Master Plan. BDC sub-contracted the work on the Sanitary Master Plan to HBH Consultants. The Water Master Plan involved working with City and County planners to determine where and when the system would grow, to evaluate the City's current water supply and demands, and to develop water forecast projections. The project also involved converting the old hydraulic model to a GIS based system and updating the City's mapping and water model to reflect changes that had occurred within the system since the last Water Master Plan. In addition, this project involved identifying areas of low pressures, low flows, and high pressures within the water system. The hydraulic model was evaluated under existing conditions, under the future 5-year condition, and under the future 20-year conditions to aid in identifying current and future problem areas within the system. Capital Improvement Projects and costs were developed based on these findings and by working with City staff to identify known problem areas within the system. Peak hour events and fire flow conditions were evaluated in the hydraulic modeling process. The City's onsite generating chlorination system was also evaluated for contact time (CT) compliance with EPA requirements for future conditions. In addition, the City's water rights and water conservation methods were evaluated and conservation projects were recommended.

CSO SIZING AND FLOW MANAGEMENT PREDESIGN PROJECT (CSO SFMP)
City of Portland

Stoner Bell provided assistance on various tasks of the Combined Sewer Overflow (CSO) Sizing and Flow Management Predesign Project (CSO SFMP) as an employee of CH2M Hill, as an independent contractor, and as an employee for BDC. His work included determining hydrologic and hydraulic characteristics and performing quality review and assurance of various CSO sub-basin models for current and future conditions as well as assisting in calibrating the Westside Interceptor Model to historical storms and SLRT flows. He determined interceptor capacity and needs for CSO control and basement flooding relief by analyzing the system under current and future conditions to determine capacity limits, the extent of surcharging, and potential options for improving the existing interceptor system. He assisted in delineating additional piping required for the minimum flow configuration option for the Willamette River CSO flows. He was also involved with developing alternative models to evaluate various strategies for CSO pump station operations and other hydraulic controls on the interceptor and tunnel systems.

WHITE SALMON WATER MASTER PLAN
City of White Salmon

BDC was contracted by the City of White Salmon to complete the 2005 water master plan, satisfying the WA Department of Health requirements. The City had changed the operation of their water system significantly enough that the old master plan no longer accurately reflected the operation of the system. Elements of the new plan included a well head protection plan for the City's two new wells, the development of a cascading pressure reducing system to address the significant changes in elevation of the system and the water pressures that resulted from those elevation changes, significant hydraulic modeling of the system, and a capital improvements and finance plan. Because the City was under a growth moratorium due to its lack of water rights, a significant portion of the plan addressed water right issues and options for meeting the Departments of Ecology's water right requirements. In addition, design standards were developed for the system, and a water conservation program with goals was developed and adopted by the City. The project also included developing water system mapping for the City for the use of the public works department crews.

WATER SYSTEM DESIGN

BDC has worked on numerous water system designs, both large and small. The City of White Salmon's comprehensive water system upgrade in 1999 was the largest and included the most features. We continue to provide water and system design and construction management services to both public and private clients. A large number of our projects include the need for NPDES, NEPA, and SEPA permitting and documentation, all of which are handled by BDC staff.

SHERMAN AND SERPENTINE AREA WATERLINE IMPROVEMENT PROJECT
City of Hood River

BDC designed the addition and replacement of approximately 3,000 feet of waterline in the vicinity of Sherman Ave and Serpentine Ave in the City of Hood River. The project started at a new connection with the existing 10" PVC waterline and a new 8" PVC waterline was constructed to replace an existing 4" cast iron (CI) lead jointed line east along Sherman Ave approximately 1,300 feet to an existing 6" pipe. A new 8" PVC waterline was also constructed to replace an existing 4" lead-jointed line north along 6th St. In addition; a new 8" PVC waterline was constructed south from Sherman Ave along Serpentine Ave approximately 575 feet to an existing 8" PVC pipe. The new 8" PVC waterline then continued along Serpentine Ave approximately 525 feet from an existing 8" PVC pipe to an existing 6" PVC pipe. A new 8" PVC waterline was constructed approximately 200 feet along 4th St to replace an existing 2" galvanized steel waterline. The project also included the construction of a new 8" waterline and PRV station along 7th St replacing an existing 4" CI lead jointed line and PRV station. The new PRV station consists of a new 8" PRV and 3" bypass. In addition to the waterline, a new 8" PVC sanitary sewer line was constructed south from Sherman Ave along Serpentine Ave approximately 320 feet. Several handicap accessible sidewalk ramps were also constructed along Sherman Ave to comply with federal ADA barrier free requirements.

FAIRVIEW ROAD WATERLINE EXTENSION
City of Hood River

BDC designed 670 feet of 10-inch ductile iron pipe along Fairview Road in Hood River County, including 65 feet of 10-inch PVC line along Rocky Road a PRV vault with a 6-inch valve and a 3-inch bypass. The project served to provide higher pressures and flows along the western portion of May Street, which was being underserved by the City's water system. Part of the project involved securing National Scenic Area (NSA) permits from Hood River County because a portion of the project was located within the NSA.

WHITE SALMON WATER WATER SYSTEM COMPREHENSIVE UPGRADE
City of White Salmon

BDC designed the City of White Salmon's water system improvements in 1999. The design included a well field, Powerhouse Well #1, Powerhouse Well #2, Childs Reservoir, the Powerhouse Booster Pump Station, the Dock Grade Reservoir, and all accompanying waterlines and improvements to the existing system. BDC provided study, predesign, design, contract administration, and services during construction for all projects. These projects included extensive site work and permitting, including SEPAs for all individual projects. BDC provided all the siting and surveying services associated with these projects. These multidisciplinary projects included oversight of archeologists, biologists, hydro-geologists, geophysics, and geotechnical engineers. BDC also coordinated and assisted in obtaining permits from such agencies as WSDOT, WSDOE, WSDOH, and Klickitat County building and planning departments. BDC also assisted the City in administering and complying with the requirements of the Community Block Development Grant and other grants that were used to fund these projects.

WEST CASCADE PRESSURE ZONE
City of Hood River

BDC designed the West Cascade Pressure Zone Project, including the design of 1,500 feet of 10-inch PVC pipe along Rand Road and into the intersection of Cascade Street and the installation of a 6-inch PRV station with a 3-inch bypass. The purpose of the project was to provide higher pressures along the western portion of Cascade Avenue and Country Club Road.

VARIOUS WATER SYSTEM APPROVALS AND EVALUATIONS
Oregon and Washington

BDC has worked with various small Group A and Transient Non Community T-NC systems to obtain operational approval from WSDOH. These projects include the Steve Worsely campground near Lyle, Washington; the Zoller's Outdoor Odysseys in BZ Corners, Washington; Wet Planet rafting in Husum, Washington; and Domain Pouillon Vineyards in Lyle, Washington; Skamania County Big Cedars and Prindle Campgrounds; and the Willard Fish Hatchery Complex. BDC has evaluated storage and pressure requirements for the Rowena Dell water system in Oregon as well.

SEWER SYSTEM DESIGN

WAUBISH STREET SEWER LIFT STATION
City of White Salmon

BDC prepared a preliminary Engineering Report in support of replacing the aging Waubish sewerage lift station. This involved predicting the future service area and flows for the lift station replacement and preliminary sizing of the pumps. BDC was contracted to provide engineering design and construction administration services to replace the lift station, add a backup generator, and install a fence around the site, greatly reducing the maintenance and cost required to operate the facility.

OUTFALL PROJECT
City of Hood River

BDC managed the redesign of the City's 60-inch combined sewer and sanitary outfall. This involved evaluating several alternative outfall locations, performing a mixing zone analysis, and analyzing the WWTP's hydraulics. BDC designed the modifications of the existing chlorine contact chamber to accommodate the new outfall pipe consisting of 1,950 feet of 36-inch HDPE butt-fused pipe along the Port of Hood River's Hook area and 300 feet of in-water buried diffuser pipe. BDC served as the prime consultant, but contracted with ESA Vigil-Agrimis to perform the in-water construction design and to acquire the required in-water work permits.

10TH STREET SANITARY SEWER REPLACEMENT PROJECT
City of Hood River

Bell Design Company was contracted by the City of Hood River replace a 12-inch sanitary sewer line along 10th Street from Lincoln Street to Wasco Street. The pipe replacement was necessary because the existing pipe was subject to extensive root invasion which caused flow restriction, and in some cases, resulted in sewer overflows. BDC used Pacific INT-R-TEK to video inspect the 350 feet of 12-inch sewer pipe. After the video inspection BDC elected to rehabilitate the pipe using Cast-in-Place Pipe (CIPP) technology instead of replacing the pipe. The new line started at the existing sewer manhole located to the northeast of the 10th and Lincoln Street intersection, transversed under a private parking lot, and terminated at the existing sewer manhole north of Wasco Avenue near the entrance to the Century Link parking lot. The total length of pipe rehabilitated was approximately 350 feet. The project included project management, drawings, design, specifications, coordination with Oregon DEQ, advertising and bidding, and services during construction.

CHAMBERLAIN SEWER PROJECT AND SEWER EXTENSION
White Salmon, WA

Bell Design Company provided services to a private developer to coordinate a public sanitary sewer extension in the City of White Salmon, WA. Extensive utility location efforts were required to determine the best route for this line extension. Coordination with the City public works department and neighboring property owners was required. Relocation of utilities was required to meet all local and state requirements for the project.

HOOD RIVER CIP-C SEWER MAIN LINE RE-ROUTING
City of Hood River

Bell Design Company provide services to the City of Hood River to evaluate several alternative routes and associated costs for the upgrade of a 15-inch public sanitary sewer influent trunk line connecting directly to the City's waste water treatment plant. The existing line needed to be upsized to a 24-inch line. The existing 15-inch line lay buried beneath ODOT Interstate 84 and near the Union Pacific Rail Road. Two options were evaluated according to the City of Hood River's Wastewater Facilities Plan. Option one included an evaluation of costs and requirements to install a new 24-inch pipe under the existing ODOT bridges along the existing dirt underpass roadway. Option two included evaluations for costs to install a new 24-inch pipe next to the existing 15-inch existing pipe under I-84 by drilling a horizontal bore under I-84. Existing utilities, right of way conditions, planning requirements, wetland and geotechnical considerations were required.

2ND STREET CIPP SEWER REPAIR PROJECT/CONDITION ASSESSMENT
City of Hood River

BDC was contracted for the repair of an existing 10-inch sanitary sewer line along the 2nd Street stairs from Montello Avenue to the Sherman Avenue manhole. The pipe replacement was necessary because the existing pipe had extensive root invasion which caused multiple flow restrictions and an occasional sewer overflow. BDC used Pacific INT-R-TEK to video inspect the 350 feet of 10-inch sewer pipe to evaluate whether CIPP technology was appropriate for the pipe condition. The project started at city manhole AA07 at Montello Avenue and terminated at city manhole AA10 just south of Sherman Ave. Due to the steep terrain, thick vegetation and difficult access, BDC utilized Cure in Place Pipe (CIPP) methods to reline the existing pipe between Montello Avenue and the manhole upstream of Sherman Avenue. The total length of the 10-inch pipe repaired was approximately 625 feet.

ORCHARD VIEW FARM ON-SITE PROJECT
The Dalles, Oregon

BDC designed a LOSS (large on-site septic system) serving approximately 150 migrant and permanent workers. The project was designed per OAR requirements and was directly reviewed and approved by Oregon Department of Environmental Quality (DEQ). The project involved performing a hydrogeological analysis of the local stream and vicinity wells to determine the potential for contamination from the new drain field. BDC performed a feasibility study evaluating several treatment technologies for effectiveness and cost. BDC value-engineered a solution involving a public domain recalculating gravel bed pretreatment beds, which saved our client approximately $120,000 over a proprietary treatment system recommended by the State. BDC performed services during construction for the project. In addition to construction plans and documents, an O&M manual was created for the orchard's maintenance personnel. BDC worked with and in compliance with the DEQ.

WASTEWATER TREATMENT

AERATION BASIN MONITOR IMPROVEMENTS
City of Hood River, Oregon

The City of Hood River operates a small 2.0 MGD POTW under a NPDES permit issued by Oregon Department of Environmental Quality. The plant's two existing aeration basins utilized one dissolved oxygen (DO) probe between both basins. The limited information provided by the single probe handicapped the operators' ability to react quickly to changing conditions within the aeration basins. This project increased the number of DO probes to a total of 4 (two per basin) and allowed the operators to manually control the blowers based upon the levels being monitored or to automatically operate blows based upon a single probe or a combination of probe readings. The first phase of the project involved researching, evaluating, and recommending new DO probes and their layout within the basins, including writing specifications for the probes and their functionality. The second phase of the project involved designing the electrical and signal conduit layout, specifying wire and conduit, indoor and external enclosures for the junction boxes and terminals, and specifying details on cable penetrations into the blower building that housed the remote telemetry units (RTU) with some limited program logic controls (PLC).

CHLORINE CONTACT CHAMBER DEWATERING PUMP STATION DESIGN
City of Hood River, Oregon

When the City built their new outfall pipe for their WWTP effluent, the new outfall line was constructed at a shallower depth than the older line, which was roughly 30 feet below ground, to reduce construction cost. With the shallower pipe, the City's secondary disinfection system which utilized a chlorine contact chamber was no longer able to fully drain. BDC designed a wet well pump system and attached it to the old drain outlet of the chlorine contact chamber. The pump station pumps the basin drain water into a nearby sanitary line and back into the City's headworks. The pump can run in manual mode or in auto mode which will turn the pump off when the basin has emptied.

ANAEROBIC DIGESTER ROOF EVALUATION AND REPAIR PROJECT
City of Hood River, Oregon

The City's South Digester had not been cleaned for 15 years. After cleaning, BDC inspected of the outside and inside of the digester. BDC contracted with Coffman Engineers to conduct structural testing of the roof to determine the digester's integrity. BDC specified new roof hatches and inspection ports, and specified a stainless steel replacement for the failed foam separator.

WASTE ACTIVATED SLUDGE BASIN – ODOR CONTROL DESIGN
City of Hood River, Oregon

BDC developed plans and specifications for covers and a vacuum system to remove odors from the City of Hood River's waste activated sludge (WAS) holding tank. The project involved pre-qualifying suppliers of the covers and awarding the contract to a general contractor to oversee the installation and construction of the bio-filter system which treats the odors extracted from the WAS storage tank and aeration basin splitter box. The project utilized Hallsten Aluminum Covers and Biorem biofilters to remove the WAS tank and splitter box odors.

HEADWORKS ROCK TRAP DESIGN
City of Hood River, Oregon

BDC developed a preliminary study that looked at a number of options to protect the City of Hood Rivers effluent drum screen from damage from large rocks which occasionally would work their way through the sanitary collection system to the City' headworks building. BDC developed several options which included options from automated course screens with self-cleaning mechanisms to manual bar screens located within the City's existing Headworks building and outside upstream of the headworks building. The preferred option chosen by the City was a custom rock trap that would be installed in an oversized manhole with a bar screen basket for removing rocks that dropped out of the flow into the customized manhole. The rock screen was designed to be removed using a hoist and slide rail system. BDC is currently at 50% design with the rock trap design.

WASTE ACTIVATED SLUDGE (WAS) PUMP REPLACEMENT PROJECT
City of Hood River, Oregon

The City of Hood River's WWTP utilized a pair of centrifugal pumps to pump the plant's waste activated sludge to a hold tank. From the holding tank another set of pumps pumped the sludge to the gravity belt thickeners before the thickened sludge went to the anaerobic digesters. The plant operators wished to have the flexibility to pump directly to the gravity belt thickener and bypass the WAS holding tank. The current pumps could not supply enough head to get the WAS to the gravity belt thickeners. BDC performed a hydraulic analysis of the piping system with the WAS and sized new 5-hp pumps to replace the older 3-hp pumps. BDC investigated the existing controls, power supply, and wiring, and designed the new pump frames and connections for the new pump installation.

BIOSOLIDS CAKE HOLDING BUILDING EXPANSION
City of Hood River, Oregon

BDC performed a feasibility analysis for the expansion of the City of Hood River's bio-solids cake building. Currently, the City of Hood River has about two months of storage capacity, but would like to double that to a minimum of 4 months storage capacity. The city currently land-applies Class A stabilized biosolids on local fields in the Hood River valley. The feasibility analysis looked at several alternatives to structure and location of the expansion of the building. The study also looked at conveyance systems that could carry the processed sludge form the filter press to the existing and future storage bays. Advantages and disadvantages of each option were identified and the costs of each alternative developed. A preferred option was recommended within the report.

HEADWORKS PUMP REDUNDANCY AND RELIABILITY PROJECT
City of Hood River, Oregon

BDC worked with its plan operators to identify areas, equipment, and processes within their WWTP that had low reliability due to age, lack of available parts, incompatibilities with other processes, or poor technology. BDC also looked for equipment of systems where backup or redundancy was needed or desired. One area that BDC identified was the WWTP's headworks pumps. The City's current system utilizes three pumps that were all similar sizes. Two of the pumps were Flygt brand while the older one was a Wemco brand pump. BDC recommended modifying the pump frame mount for the Wemco pump to accept the Flygt pumps, replace the Wemco pump with an additional Flygt pump, and to purchase a fourth Flygt pump to have on hand so that it could easily be swapped out with any of the three pumps if one went down or was in the shop for repairs.

EXPERIENCE: TRANSPORTATION & INFRASTRUCTURE

SAFE ROUTES TO SCHOOL DESIGN & CONSTRUCTION SERVICES
City of White Salmon

BDC provided preliminary surveying and evaluation of the conditions along the intended route for improvements, provided the preliminary cost estimate, and aided in the completion of the grant application for the Safe Routes to School Project in White Salmon, WA. After the City of White Salmon was awarded a $330,000 grant administered by the Washington Department of Transportation, BDC provided project management, topographical and utility data gathering, plans and design profiles, specifications and contract documents, advertising and bidding assistance and services during construction for a federally awarded Safe Routes to School grant. The project connected Whitson Elementary School to a central shopping and banking area at the intersection of Wauna and Tohomish. The project included the construction of 1,307 LF of 6-foot wide sidewalk with curbs and gutters, ramps and three pedestrian crosswalk flashing beacons in high traffic areas. A total of six blocks of new sidewalk and pedestrian crossings were designed for over a dozen private driveways and four major street crossings. BDC ensured all aspects of design and construction fit within WDOT's standards and tight building schedule.

STATE STREET URBAN RENEWAL
City of Hood River, Oregon

Bell Design Company contracted with the Hood River Urban Renewal Agency to design water, sewer, storm, sidewalk, and street improvements of approximately eight blocks along State Street to upgrade to current Hood River Urban Renewal District Standards. The work consisted of water line replacement; gravity and pipe burst replacement of sanitary sewers; storm sewer improvements; ADA compliant sidewalks, curbs, and gutters; placement of new street lights, electrical outlets, and city lighting in a new conduit network; and irrigation system, street trees, planters, and various street scape elements. All existing aerial utilities were replaced with new underground facilities and included power cutovers to some buildings. Massive efforts were taken to accommodate all existing utility franchises, adjacent landowners, and public entities. Coordination with ODOT was required to purchase additional ROW. The project included reconstruction of all streets and the building of some substantial retaining walls were included in the work and enlargement of the city parking area located between Front Street and 1st Street. Bidding and construction services for the entire project were provided by Bell Design Company.

WYER'S END PLANNED UNIT DEVELOPMENT
White Salmon, Washington

BDC developed plans and specifications for the site grading; street construction; and the water, sewer, and stormwater systems in the Wyer's End planned unit development (PUD). The project replaced a trailer park that formerly occupied the property with a small cottage development and mid-sized homes with detached garages. Bell Design company provided all survey aspects for this project: existing condition survey, boundary survey, subdivision plat, and during construction staking. There were many land planning issues crucial to the project success, such as saving existing trees, completing area calculations, matching existing topography, and providing consultation of city zoning codes. The Bell Design survey department was able to advise the client in all areas and helped make the unique development a success for the developer and community.

BLUFF ROAD DESIGN
City of Hood River

The City of Hood River secured BDC to design road improvements for a substandard city street serving a steep and poorly accessible portion of the City. The existing road followed the western top edge of the Hood River canyon on the eastern edge of the City. Improvements involved widening the existing street and installing curbs, gutters, sidewalks, and retaining walls. The project also included designing a stormwater detention system under the roadway to mitigate increased runoff from new impervious areas resulting from future development within the up gradient sub catchment. Due to the limited space within the ROW, the 7.5% grade, and existing utility constraints under the street, a cascading pipe detention system was chosen and designed to reduce future runoff to the area's existing levels.

RIVERSIDE DRIVE IMPROVEMENTS
Hood River, Oregon

Bell Design Company designed approximately 480 feet of street improvements on Riverside Drive located in Hood River, Oregon. This project involved increasing the width of the roadway to match existing and planned grades along the northern edge of the roadway. Curbs, gutters, sidewalk, and approach ramps were installed to match existing and future grades along the northern road edge. New curbs were installed along the southern edge. ADA approaches were also incorporated into the design to access property along the roadway. The grading plan involved transitions and full super elevation along the horizontal curve of the roadway. Existing utilities were modified to match the new road grades and widths. A six-inch water line that fed a fire hydrant was extended and the hydrant moved further to the north. Specifications for curbs; approaches; sidewalks; lighting; and public water, stormwater, and sewer infrastructure within the right-of-way were developed for the project.

EXPERIENCE: SURVEYING & DRONE MAPPING

Bell Design Company is located in Klickitat County. Although BDC provides surveying services in all counties adjacent to the Columbia River Gorge, over 55% of our surveying projects are located in Klickitat County. BDC has provided survey services for schools, cities, the PUD, county agencies, large land owners, private industrial clients, and numerous private land owners in Klickitat County over the 25 years of our existence, including many public agencies, such as the City of Hood River, Hood River County, the City of White Salmon, Skamania County, Klickitat County, and others.

BDC professionals have comprehensive experience working with public agency representatives. They understand the process and requirements involved, including establishing clear budgets, negotiating the payment process, providing reports for review and use in commissioners meetings, and preparing and recording approved survey documents. They understand the necessity of educating both the general public and the personnel responsible for carrying out development activities of the county and local laws. BDC believes strongly that the role of a public surveyor includes acting as a resource to all interested parties in the land development process.

SURVEYING PROJECT EXPERIENCE

The following projects are representative of the scope of work completed in the last five years.

CITY OF WHITE SALMON

BDC has provided survey services to the City of White Salmon on an on-call basis for many years. Recent projects have been:

- White Salmon Pool Survey: BDC was asked to provide an existing conditions survey for the proposed community pool. BDC worked with the City and WS School District to clarify previous ownership and use agreements that existed over the parcel of the proposed pool.
- Grandview Heights Alley: BDC was asked to provide professional review and exhibit maps for an alleyway along the north line of an addition to the town of White Salmon. The hand written legal description in the addition plat was confusing and contradicted itself. BDC was able to provide a list of calls that were clear and those that were in dispute. Methods for resolution were also provided to the City Administrator.

WHITE SALMON VALLEY SCHOOL PROJECTS

BDC has been providing surveying services to the White Salmon Valley School District on an as-needed basis for over twenty years.

- Capital Facilities Improvements: BDC has provided existing conditions survey services, boundary line verification, utility location and a master plan CAD file for the school's proposed field house, portable class rooms, parking, and road improvements at the Loop Road parcel. BDC has provided construction staking and has worked with utility providers, city and school staff to provide the most up to date map plan for the use of design professionals.

SKAMANIA COUNTY ON-CALL SURVEY SERVICES, ENGINEERING DEPARTMENT, 2011-PRESENT

BDC has been re-awarded the On-Call Surveyor for Skamania County every two years since 2011.

- Skamania County Courthouse Plaza Topographic/Utilities Survey: BDC conducted an existing conditions survey for a joint project between the City of Stevenson, Stevenson Chamber of Commerce, and Skamania County for a Courthouse Plaza renovation. BDC located existing boundary control; mapped utilities, features, and topography; and provided aerial imagery.
- Cloverdale Road ROW Survey: The County needed to widen the road to increase parking for local attractions. To establish the ROW width, BDC provided research, mapping and staking for public works, which was utilized for ROW acquisition along Cloverdale Road in Carson, Washington.

KLICKITAT COUNTY PUBLIC WORKS DEPT, ON-CALL SURVEY SERVICES, 2012-PRESENT

BDC was awarded the 2012 and 2016-2020 On-Call Survey Services contract for ROW and boundary surveys.

- Surface County Road DNR Easement: Bell Design provided survey mapping and legal descriptions for a road easement purchase between the State of Washington and Klickitat County. Bell Design worked with county and state staff to clarify and map the existing easements and determine what needed to be acquired for current and future public use.
- Klickitat Courthouse and Annex Survey: BDC was tasked with establishing property boundaries and corner monuments for a new county services building. BDC did significant research with county and city staff to determine the most accurate plat of the City of Goldendale as there had been revisions to the city layout and very little surveying had been done in the area. Monuments were set and a boundary survey was completed and filed with the county auditor's office.
- Lot Line Elimination of County Parcels for new county services building: BDC utilized a Courthouse survey to prepare the required application and supporting materials for a Lot Line Elimination Plat administered by the City of Goldendale Planning department. The plat was finalized and recorded with county auditor's office.

CITY ENGINEERING FOR CITY OF HOOD RIVER, 2011-PRESENT

BDC has been providing engineering services for the City of Hood River since 2011, and the survey department has provided surveying services in support of engineering projects.

- Storm Water Retention Area Survey – BDC provided survey services for a topographic survey of a wetland area proposed for a storm water overflow retention area. We also provided an elevation survey of storm water facilities within the basin that would be affected by the propose detention area. The data was provided to consulting engineers who integrated it into the total project data.
- Port of Hood River ROW Ownership Determination – Bell Design Company provided deed research and survey services to determine the location and ownership of the roads within the Port of Hood River boundaries. BDC worked with Hood River County, The City of Hood River and Oregon DOT to determine the locations and ownerships.

MILL A WATER DISTRICT

- Spring Box Easement: BDC was contracted by the Mill-A water district to determine the ownership around their existing spring box collection system. BDC utilized public records to locate property lines. A survey exhibit was made and currently being used to negotiate with adjacent owners for access and easement.

DRONE MAPPING SERVICES

BDC has added services utilizing small unmanned aerial vehicles (sUAV), or drones, to our list of capabilities. Our sUAV team provides aerial mapping, high resolution red-green-blue (RGB) imagery, video, and three-dimensional models. The imagery and video is perfect for inspections. The collection process is very fast and large amounts of data a can be collected in short periods of time. One mile of linear inspection video and pictures can be collected in one hour and 20 acres can be mapped in two hours. BDC contracts with an image processor who provides survey-grade stitched imagery and vertical elevation models for the maximum accuracy. The data is then used in survey, civil, and structural applications. Imagery is used for inspection and archived as a record of project progress. With our thermal imaging capabilities, both video and still image data can be collected. We have selected and purchased a FLIR radiometric camera to provide images showing both temperature differences but specific temperatures at desired locations within the image. BDC can provide thermal imagery from aerial-based and ground-based platforms.

DIGESTER INSPECTION
City of Hood River

BDC provided images of the inside of a waste water digester tank for inspection by a structural engineer. The tank was 30 feet tall and had a diameter of 45 feet. Although the tank was quite large it was classified as an enclosed space and required special equipment for entry by the inspectors. It was determined that direct inspection by the structural engineer was impractical as lifts, harnesses, and special lighting would be required. The BDC sUAV team provided high resolution images in a systematic report for easy viewing and easy cataloging of any defects by the inspecting engineer. The drone was flown in the tank at specified intervals and distances from the tank surface to provide the needed resolution for proper inspection. This eliminated the need for crew to be on special lifts and reduced the number of crew needed for the inspection process. It also reduced the amount of time in the tank collecting the images to less than one half day, as compared to multiple days required for direct inspection.

GENERAL ENGINEERING SERVICES
City of Hood River

Permit Compliance Flights: The BDC sUAV team has provided permit compliance flights for the City of Hood River on multiple occasions. BDC has been able to measure the total volume of material moved on grading projects without disturbing the on-ground work activity. Our sUAV team has also been able to capture aerial imagery prior to project startups and during projects to provide the city permit inspectors a clear timeline of project progress.

Emergency Storm Water Repair: The City of Hood River needed data collected quickly for a storm water pipe replacement project that needed to be completed before the next winter months. BDC was able to collect 40+ acres of horizontal and vertical data in one flight day. This data was then processed and provided to the engineers for preliminary design.

CAPITAL FACILITIES FLIGHT
White Salmon Valley School District

The White Salmon Valley School District had multiple projects planned for the Loop Road campus. The BDC sUAV team worked with the White Salmon Valley School District to collect aerial drone imagery of the entire parcel at one time even though the projects would be done over time and no specific designs were provided. BDC did the flight and placed the data in our archives for future use.

FIELD HOUSE PRELIMINARY DESIGN
White Salmon Valley School District

BDC utilized the aerial imagery previously collected for the school to provide initial architectural design and a site plan for a proposed sports field house. Size, location, and initial grades were easily determined from the flight data which was used for budgetary purposes. BDC was also able to collect still images used by the design team to insert a rendered model within the images of the proposed field house for public comment and promotion of the associated school bond measure.

INDUSTRIAL ARTS DRONE TRAINING
White Salmon Valley School District

The Columbia High School Industrial Arts Department secured a grant to purchase drones. The BDC sUAV team partnered with the school to provide professional consulting to help the club conform to FAA regulations for recreational flights and provided flight training for each of the students. BDC also spent time demonstrating to the students how the three-dimensional model of the school's property that was collected could be utilized for architectural and engineering design.

CAPITAL FACILITY IMPROVEMENTS ARIEL MAPPING
The Dalles Parks and Recreation Department

The Dalles Parks and Recreation Department had numerous capital facility improvement projects planned for the Thompson City Park. BDC was contracted by the design engineer to provide aerial mapping of the 20-acre facility. BDC provided high resolution imagery and vertical and horizontal survey data. BDC worked with a consulting engineer to integrate the flight data into an existing survey network and previously collected data, which would be used for project design.

OREGON DEPARTMENT OF TRANSPORTATION ACCESS PERMITS
Various Locations

ODOT has strict access requirements for many of the states limited access highways. BDC has provided design services for different projects requiring new or improved approaches. The access permit requirements necessitate sight and stopping distance analysis which requires 600’ of data in both directions. The BDC sUAV team has significantly reduced our data collection time and cost by utilizing the drone imagery to collect the road geometry. The imagery is also used by the design engineer to view the project area without being on sight.

KEN BECKER NSA SLOPE STABILITY MAPPING AND INSPECTION
Skamania County

The Becker’s Skamania Landing parcel was experiencing erosion and sluffing along the Columbia River within the National Scenic Area. BDC provided geotechnical and civil engineering services for the slope stabilization study and design. The engineers needed vertical and horizontal data of the eroded area but due to the steepness, height and vegetation, it was difficult to collect the data by conventional methods. The drone both allowed the engineers to inspect the slopes through a live feed of the eroded area from the river perspective and provided the mapping data necessary for design. The project was designated an emergency by the NSA management ordinance. The project was constructed prior to the winter of 2018/19.

STONER W. BELL PE

PROFESSIONAL ENGINEER AND PROJECT MANAGER

Mr. Bell is an owner, corporate president, and professional consulting engineer for BDC with over twenty-five years of experience. He specializes in hydraulic and water resource engineering. His experience includes sanitary sewer evaluation studies, hydraulic modeling, water supply projects, combined sewer overflow analysis, pump station design, water and sewer line design, reservoir design, stormwater hydrology and design, surge analysis, waste systems operations management, construction management, and roadway drainage. Mr. Bell is currently the contracted engineer for the City of Hood River and the administrator for all on-call services for the City of Hood River.

While working at Bell Design Company, he has managed over 300 projects with associated total service fees of over $7,000,000.

REPRESENTATIVE PROJECTS

- City of Hood River: State Street Urban Renewal
- City of Hood River: Outfall Project
- City of Hood River: General City Engineering
- City of White Salmon: Water System Improvements
- City of Hood River: Master Plan Update (Water, Storm, & Sanitary)
- City of Hood River: 4th, Sherman, & Serpentine Waterline
- City of Hood River: Water Management and Conservation Plan
- City of Hood River: Columbia River pH Monitoring Plan
- City of White Salmon: Buck Creek Transmission Line and Water Meter Repair
- City of Hood River: 22nd Street Sanitary Sewer Design
- SKS Management Resort Development
- The Dalles Fruit Co. Pond: Permitting and Design, Dallesport, WA
- City of Hood River: CIP-C Sewer Main Line Re-Routing, Hood River OR
- City of White Salmon: Waubish St Sewer Lift Station Design & Construction Management
- White Salmon Waubish St Sewer Lift Station Design & Construction Management
- City of Hood River: WWTP Odor Control Modifications

EDUCATION

Bachelor of Science: Civil Engineering, Washington State University 1990
Masters of Science: Civil Engineering, Washington State University 1991

REGISTRATIONS

Professional Civil Engineer: WA Certificate #31420, Issued 07/15/1994
Professional Civil Engineer: OR Certificate #16584PE, Issued 07/20/1993
Certified Water Rights Examiner: Oregon
Environmental Engineering Certification: Oregon

DEVRY A. BELL, BSCE, PE

PROFESSIONAL ENGINEER AND PROJECT MANAGER

Mr. Bell is an owner and professional consulting engineer for Bell Design Company. He specializes in road and site design, structural engineering, and geotechnical engineering. He has experience with contracts and design on public works projects, structural design, soil stability analysis and remediation, transportation and roadway projects, water and sewer system design, and inspection of public works project installations.

While working for Bell Design Company, Mr. Bell has managed over 1,300 projects with service revenues totaling over $5.7 million.

REPRESENTATIVE PROJECTS

- City of White Salmon: Hood & Tohomish Streets Safe Routes to School
- City of Hood River: May Street Safe Routes to School
- City of Hood River: State Street Urban Renewal Project
- Trout Lake School District: Track Design and Construction Admin
- White Salmon Valley School District: Field House & Community Center Bond Projects
- Lyle School District: Lyle School Site Plan
- Horizon Christian School: Campus Civil Design and Site Plan
- City of Hood River Sanitary Sewer Outfall Relocation
- Covenant Christian Hood River: Site Design and Structural Analysis
- Hood River Juice: Plant Expansion, all phases
- City of Hood River: Waterfront Park Grading Plan & Site Design
- North Shore Medical Building: Site Plan
- Fairway Estates Subdivision: Hood River, Oregon
- City of White Salmon: City Hall Remodel
- Skamania County: Cook-Underwood Road Improvements Design
- Skamania County: Washougal River Road Improvements Design
- City of White Salmon: Strawberry Mountain Traffic Study

EDUCATION

Bachelor of Science: Civil Engineering, Washington State University 1989

REGISTRATIONS

Professional Civil Engineer: WA Certificate #31920, Issued 12/16/1994
Professional Civil Engineer: OR Certificate #65818PE, Issued 03/13/1994

CONTINUING EDUCATION

AISC Structural Steel Seminar
ICPI 8th International Conference on Concrete Block Paving
Structural Engineering Structural Preparation course study NCEES

CORY BROWN, EIT

SENIOR EIT AND DESIGN ENGINEER

Mr. Brown has worked for BDC since May 2012 and specializes in hydraulic and water resource engineering, wastewater engineering, and stormwater engineering. His experience includes design of water and wastewater pipelines, hydraulic computer modeling, stormwater storage facility, stormwater modeling, GIS mapping, specifications, contract administration, quality assurance and review, services during construction and contract coordination.

Mr. Brown has managed over 20 design projects and has served as the lead design engineer on dozens of additional water, wastewater, and stormwater projects.

REPRESENTATIVE PROJECTS

- City of Hood River Capital Facilities Plan Update: Stormwater
- City of Hood River Capital Facilities Plan Update: Water
- City of Hood River 4th-Sherman-Serpentine Waterline
- City of Hood River Serpentine PRV Station Project
- City of Hood River 2nd Street Cure-in-Place Sewer Line Repair
- City of Hood River Water Standards Update
- City of Hood River East Marina Way Sanitary Pump Station
- City of Hood River 22nd and May Street Sewer Line
- City of Hood River Outfall Project
- City of Hood River Country Club Pressure Zone
- City of White Salmon Waubish Street Sewer Lift Station
- Fairview Drive and Rocky Road Waterline Extension Project
- City of Hood River West Cascade Pressure Zone Project
- On-Site Septic Design including Alternative treatments
- City of Hood River Country Club Pump Station Backup Power
- City of Hood River WWTP Odor Control Modifications

EDUCATION

Bachelor of Science: Civil Engineering, Oregon State University 2011

REGISTRATIONS

Engineer in Training: OR Certificate #85066EI

STATEMENT OF QUALIFICATIONS

AUSTIN R. BELL, PLS

PROFESSIONAL LAND SURVEYOR AND PROJECT MANAGER

Austin R. Bell has worked for BDC for over 20 years and specializes in land surveying and construction surveying, both field and office work. He has extensive knowledge and experience related to surveying, including project management, subdivision planning, land development, topographical mapping, infrastructure mapping, GPS surveying, construction staking, and legal description interpretation. He is also skilled in legal description preparation for right of ways, parcel descriptions, and easements. He is also registered as a FFA Remote Pilot.

While working at Bell Design Company, Austin Bell has managed over 1,000 projects with associated total service fees of over $2,900,000.

REPRESENTATIVE PROJECTS

- City of White Salmon Safe Routes to School: White Salmon, WA
- City of White Salmon Sewer and Water Utility Mapping: White Salmon, WA
- May Street Safe Routes to School ROW Research, Route Survey: Hood River
- On-Call Surveying Services: Klickitat County, Washington
- On-Call Surveying Services: Skamania County, Washington
- Mosier Bluffs Phase 3 & Survey 4: Mosier, Oregon
- Wyers End Subdivision: White Salmon, Washington
- Maple Street Construction Mapping and Surveying: Bingen, Washington
- Port of Klickitat Site Plan: Klickitat County, Washington
- ASCM/ALTA Survey Hood River Juice Mapping: Hood River, Oregon
- Fairway Estates Subdivision Survey: Hood River, Oregon
- State Street Urban Renewal Route and Existing Conditions Survey: Hood River
- Classroom Expansion Survey, Boundary Survey: WSVSD

EDUCATION

Bachelor of Arts: Business Administration, Portland State University 1995

REGISTRATIONS

Professional Land Surveyor: WA Certificate #41954, Issued 06/23/2005
Professional Land Surveyor: OR Certificate #77685PLS, Issued 07/08/2008
FAA Remote Pilot
AUSVI Top Operator Level 1 Certified

MEMBERSHIP

Professional Land Surveyors of Oregon

Item Attachment Documents:

7. Personal Services Contract - Anderson Perry & Associates - Water and Wastewater Engineering
   a. Presentation and Discussion (Exhibit A will be added)
   b. Action

AGENDA MEMO

Needs Legal Review: Yes
Council Meeting Date: April 1, 2020
Agenda Item: Personal Services Contract – Water and Wastewater Engineering – Anderson Perry & Associates Inc.

Action Required
Authorize the Mayor to sign Personal Services Contract with Anderson Perry & Associates, Inc. for Water and Wastewater Engineering Services.

Motion
Move to authorize the Mayor to sign Personal Services Contract with Anderson Perry & Associates Inc. for a master contract and fees as established in Exhibit A for a two-year period ending December 31, 2021 for Water and Wastewater Engineering Services.

Explanation of Issue
The City of White Salmon requested Statements of Qualifications from engineering firms for General Civil Engineering, Transportation Engineering, Water Engineering, Wastewater Engineering, Hydrogeological Engineering and Services, and Surveying Services. Sixteen companies submitted Statements of Qualifications. The SOQ's were evaluated under each category.

Based on the evaluations and rankings of the companies, staff finds that Anderson Perry & Associates is a highly qualified firm to provide the water and wastewater engineering services the city needs for 2020-2021 period.

Staff Recommendation
Staff recommends the city council authorize the Mayor to sign a Personal Services Contract with Anderson Perry & Associates, Inc. for the city's water and wastewater engineering services.

CITY OF WHITE SALMON
PERSONAL SERVICES CONTRACT

This contract is between the City of White Salmon and Anderson Perry & Associates, Inc. hereafter called Contractor. City's Contract Administrator for this contract is Patrick Munyan, City Administrator.

Effective Date and Duration
This contract shall become effective on the date at which every party has signed this contract. This contract shall expire, unless otherwise terminated or extended on December 31, 2021.

Statement of Work
(a) This contract is for Water and Wastewater Engineering Services for a two-year period.
(b) Each specific project or service provided under this contract will require a task order/scope of work with estimated hours and costs associated with the project or service to be approved by the City of White Salmon.

Consideration
(a) City agrees to pay Contractor for time, materials and expenses incurred in the performance of duties as identified in each approved task order/scope of work.
(b) Monthly invoices shall be submitted to the City itemizing all time, materials and expenses incurred as planning consultant to the City, breaking down such expenses by project. Costs for time, materials and expenses shall be pursuant to Anderson Perry & Associates, Inc.'s fee schedule as provided in Exhibit A.

Amendments
The terms of this contract shall not be waived, altered, modified, supplemented or amended in any manner whatsoever except by written instrument signed by both parties.

Terms and conditions listed on page two

CONTRACTOR DATA, CERTIFICATION, AND SIGNATURE

Name (please print): Anderson Perry & Associates Inc.
Federal Tax ID No:

Address: PO Box 1107
La Grande, OR 97850
Phone: 541-963-8309

Citizenship: Non resident alien	☐	Yes	X	No
Business Designation (Check one):	☐	Individual	☐	Sole Proprietorship
	☐	Partnership	☐	Estate/Trust
	X	Corporation	☐	Public Service Corporation
	☐	Governmental/Nonprofit		

Payment information will be reported to the IRS under the name and taxpayer ID number provided above. Information must be provided prior to contract approval. Information not matching IRS records could subject Contractor to 31 percent backup withholding.

I, the undersigned: agree to perform work outlined in this contract in accordance to the terms and conditions (listed on the front and backside and made part of this contract by reference) and the statement of work made part of this contract by reference hereby certify under penalty of perjury that I/my business am not/is no in violation of any Washington tax laws; and thereby certify I am an independent contractor. As noted in No. 21 of the Standard Contract Provisions, where required for Federal funding, Contractor certifications and signatures apply to Exhibits C and D.

Approved by the Contractor: _____ _____
Signature Date

Approved by the City: _____ _____
Marla Keethler, Mayor Date

Approved by Council: _____
Date

STANDARD CONTRACT PROVISIONS FOR PERSONAL SERVICES (NON-PERS MEMBERS)

1. Retirement System Status

Contractor is not a contributing member of the Public Employees' Retirement System and is responsible for any federal or state taxes applicable to any comprehensive or payments paid to contractor under this contract. Contractor is not eligible for any benefits from these contract payments of federal Social Security, unemployment insurance, or workers compensation except as a self-employed individual.

2. Effective Date and Duration

The passage of the contract expiration date (as recorded on reverse side) shall not extinguish, prejudice or limit either party's right to enforce this contract with respect to any default or defect in performance that has not been cured.

3. Government Employment Status

If this payment is to be charged against federal funds, Contractor certifies it is not currently employed by the federal government.

4. Subcontractors and Assignment

Contractor shall not enter into any subcontractors for any other work scheduled under this contract without prior written consent of the City. Subcontractors exceeding $20,000 in cost shall contain all required provisions of the prime contract.

5. Dual Payment

Contractor shall not be compensated for work performed under this contract by any other municipality of the State of Washington.

6. Funds Available and Authorized

City certifies at the time of contract execution that sufficient funds are available and authorized for expenditure to finance costs of this contract within the City's appropriation or limitation.

7. Termination

(a) This contract may be terminated by mutual consent of both parties, or by the City upon 30 days' notice in writing and delivered by certified mail or in person.

(b) City may terminate this contract effective upon delivery of written notice to the Contractor, or at such later date as may be established by the City, under any of the following conditions:

(i) If City funding from federal, state or other sources is not obtained and continued at levels sufficient to allow for the purchase of the indicated quality of services. The contract may be modified to accommodate a reduction in funds.

(ii) If federal or state regulations or guidelines are modified, changes or interpreted in such away that the services are no longer allowable or appropriate for purchase under this contract or are no longer eligible for the funding proposed for payments authorized by this contract.

(iii) If any license or certificate required by law or regulation to be held by the Contractor to provide the services required by this contract is for any reason denied, revoked or no renewed. Any such termination of this contract under subparagraphs 7(a) or 7(b) shall be without prejudice to any obligations or liabilities of either party already accrued prior to such termination.

(c) The City may terminate the whole or any part of this agreement by written notice of default (including breach of contract) to the Contractor.

(i) If the Contractor fails to provide services called for by this contract within the time specified herein or any extension thereof, or

(ii) If the Contractor fails to perform any of the other provisions of this contract, or so fails to pursue the work as to endanger performance of this contract in accordance with its terms, and after receipt of written notice from the City, fails to correct such failures within 10 days or such other period as the City may authorize.

The rights and remedies of the City provided in the above clause related to defaults (including breach of contract) by the Contractor shall not be exclusive and are in addition to any other rights and remedies provide by law or under this contract.

8. Access to Records

City, the Secretary of State's Office of the State of Washington, the federal government, and their duly authorized representatives shall have access to the books, documents, papers and records of the Contractor directly pertinent to the specific contract for the purpose of making audit, examination, excerpts and transcripts of the period of three (3) years after final payment. Copies of applicable records shall be made available upon request. Payment for cost of copies is reimbursable by City.

9. State Tort Claims Act

Contractor is not an officer, employee or agent of the State or City as those terms are used in RCW 4.96.020.

10. Compliance with Applicable Law

Contractor shall comply with all federal, state and local laws and ordinances applicable to the work under this contract.

11 Indemnification

(a) Indemnity-Claims for Other than Professional Liability

Contractor shall defend, save and hold harmless the City their officers, agents and employees form all claims, suites or actions of whatsoever nature, including international acts resulting from or arising out of the Contractor or its subcontractors, agents or employees under this agreement. The Contractor waives, with respect to the City, its immunity under industrial insurance, Title 51 RCW. This waiver has been mutually negotiated by the parties. This indemnification shall survive the expiration or termination of this Agreement.

(b). Indemnity-Claims for Professional Liability

Contractor shall defend, save and hold harmless the City, their officers, agents and employees, from all claims, suits or actions arising out of the professional negligent acts, errors or omissions of Contractor or its subcontractors and subconsultants, agents or employees in performance of professional services under this agreement.

12. Insurance

(a) Liability Insurance. Contractor shall maintain occurrence form commercial general liability and automobile liability insurance for the protection of he contractor, the City, its commissioners, employees, and agents. Coverage shall include personal injury, bodily injury, including death, and broad form property damage, including loss of use of property, occurring in the course of or in any way related to Contractor's operations, in an amount not less than $1,000,000.00 combined single limit per occurrence. Such insurance shall name the City as an additional insured with a coverage endorsement at least as broad as ISO CG 20 10 10 01.

(b) Workers' Compensation Coverage. Contractor certifies that Contractor has qualified for State of Washington Workers' Compensation coverage for all Contractor's employees who are subject to Washington's Workers' Compensation statute, either as a carrier-insured employer as provided by RCW Chapter 51 or as a self-insured employer.

(c) Certificates. Within 10 calendar days after full execution of this contract, Contractor shall furnish the City with certificates evidencing the date, amount, and type of insurance required by this contract. All policies shall provide for not less than thirty (30) days' written notice to the City before they may be canceled.

(d) Primary Coverage. The coverage provided by insurance required under this contract shall be primary, and shall not seek contribution from any insurance or self-insurance carried by the City.

13. Ownership of Work Product

All work products of the Contractor which result from this contract are the exclusive property of the City.

14. Nondiscrimination

Contractor agrees to comply with all applicable requirements of federal civil rights and rehabilitation statutes, rules and regulations. Contractor also shall comply with the Americana with Disabilities Act of 1990 (Pub L No. 101-336) including Title II of that Act, and all regulations and administrative rules established pursuant to that law.

15. Successors in Interest

The provisions of this contract shall be binding upon and shall inure to the benefit of the parties hereto, and their respective successors and assigns.

16. Execution and Counterparts

This contact may be executed in several counterparts, each of which shall be an original, all of which shall constitute but one and the same instrument.

17. Force Majeure

Neither party shall be held responsible for delay or default caused by fire, civil unrest, labor unrest, acts of God and war which is beyond such party's reasonable control. Each party shall, however, make all reasonable efforts to remove or eliminate such a cause of delay or default and shall, upon the cessation of the cause, diligently pursue performance or its obligations under the contract.

18. Severability

The parties agree that if any terms or provisions of this contract is declared by the court of competent jurisdiction to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the contract did not contain the particular terms or provisions held to be invalid.

19. Errors

The contractor shall perform such additional work as may be necessary to correct errors in the work required under this contract without undue delays and without additional cost.

20. Waiver

The failure of the City to enforce any provisions of the contract shall not constitute a waiver by the City of that or any other provision.

21. Other Requirements

When federal funds are involved in this contract, Contractor Debarment and Non-Collusion certifications and signatures apply to Exhibit C and D.

22. Governing Law

The provisions of this contract shall be construed in accordance with the provisions of the laws of the State of Washington. Any action or suit involving any question arising under this contract must be brought in the appropriate court of the state of Washington, Skamania County.

23. Attorney Fees

The prevailing party shall be entitled to reasonable attorney fees at trial and on appeal in an action brought with respect to this contact.

24. Merger Clause

THIS CONTRACT AND ATTACHED EXHIBITS CONSTITUTES THE ENTIRE AGREEMENT BETWEEN THE PARTIES. NO WAIVER, CONSENT, MODIFICATION OR CHANGE OF TERMS OF THE CONTRACT SHALL BIND EITHER PARTY UNLESS IN WRITING AND SIGNED BY BOTH PARTIES. SUCH WAIVER, CONSENT, MODIFICATION OR CHANGE IF MADE, SHALL BE EFFECTIVE ONLY IN SPECIFIC INSTANCES AND FOR THE SPECIFIC PURPOSE GIVEN. THERE ARE NO UNDERSTANDINGS, AGREEMENTS OR REPRESENTATIONS, ORAL OR WRITTEN, NOT SPECIFIED HEREIN REGARDING THIS CONTRACT. CONTRACTOR, BY THE SIGNATURE OF ITS AUTHORIZED REPRESENTATIVE, HEREBY ACKNOWLEDGES THAT HE/SHE HAS READ THIS CONTRACT, UNDERSTANDS IT AND AGREES TO BE BOUND BY ITS TERMS AND CONDITONS.

Exhibit "A"

anderson perry & associates, inc.

214 E. Birch Street, P.O. Box 1687
Walla Walla, WA 99362
(509) 529-9260, Fax (509) 529-8102
www.andersonperry.com

engineering • surveying natural resources

HOURLY FEE SCHEDULE

April 1, 2020

PROFESSIONAL TECHNICAL STAFF

TECHNICIANS

Technician I	$ 50.00
Technician II	$ 60.00
Technician III	$ 70.00
Technician IV	$ 80.00
Technician V	$ 85.00
Technician VI	$ 90.00
Technician VII	$ 95.00
Senior Technician I	$100.00
Senior Technician II	$110.00
Senior Technician III	$115.00
Senior Technician IV	$120.00
Senior Technician V	$125.00
Senior Technician VI	$130.00
Senior Technician VII	$175.00

ENGINEERING

Engineering Technician I	$ 95.00
Engineering Technician II	$100.00
Engineering Technician III	$105.00
Staff Engineer I	$105.00
Staff Engineer II	$115.00
Project Engineer I	$120.00
Project Engineer II	$125.00
Project Engineer III	$130.00
Project Engineer IV	$140.00
Project Engineer V	$145.00
Senior Engineer I	$155.00
Senior Engineer II	$160.00
Senior Engineer III	$165.00
Senior Engineer IV	$175.00
Senior Engineer V	$180.00
Senior Engineer VI	$185.00
Senior Engineer VII	$190.00
Senior Engineer VIII	$205.00

ARCHAEOLOGY

Archaeologist Technician I	$ 50.00
Archaeologist Technician II	$ 55.00
Staff Archaeologist I	$ 65.00
Senior Archaeologist I	$ 90.00
Senior Archaeologist II	$110.00

PROJECT REPRESENTATIVES

Project Representative I	$ 95.00
Project Representative II	$100.00
Project Representative III	$105.00
Project Representative IV	$110.00

OVERTIME

Overtime Surcharge	$ 35.00

SURVEYORS AND CREWS

Survey Technician I	$ 60.00
Survey Technician II	$ 75.00
Survey Technician III	$ 85.00
Survey Crew Chief I	$ 90.00
Survey Crew Chief II	$115.00
Survey Crew Chief III	$120.00
Professional Land Surveyor I	$120.00
Professional Land Surveyor II	$130.00
Professional Land Surveyor III	$135.00
Professional Land Surveyor IV	$160.00
Professional Land Surveyor V	$170.00
GPS Total Station	$ 40.00
Robotic Survey Station	$ 30.00
Total Station	$ 23.00
ATV (4-hour minimum)	$ 30.00
Resource Grade GPS	$ 20.00
Electrofisher	$ 25.00
Unmanned Aircraft System (UAS/Drone)	$ 45.00
GIS Arrow Gold RTK GPS Unit ... $500/week, $250 minimum	

OUT OF TOWN WORK

Mileage will be charged at the applicable IRS rate for vehicles, which is $0.575 per mile for standard highway vehicles as of January 1, 2020. Mileage will be charged at $0.75 per mile for vans and pickup trucks. Subsistence will be charged either per diem or actual cost, per contract. Lodging will be billed at actual cost.

OTHER

Other miscellaneous, direct, and outside expenses, including special Consultants, will be charged at actual cost plus 10%.

Expert Witness will be charged at two times the standard hourly rate.

All accounts unpaid 30 days after date of invoice may be charged a service fee of 1.0% per month.

CITY OF WHITE SALMON, WASHINGTON

2020 Engineering Services

STATEMENT OF QUALIFICATIONS

Contact:

Jake Hollopeter, P.E., Vice President
214 E. Birch Street
Walla Walla, Washington 99362
(509) 529-9260
jhollopeter@andersonperry.com

anderson perry & associates, inc.

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Walla Walla, WA 99362
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February 21, 2020

City of White Salmon
P.O. Box 2139
White Salmon, Washington 98672

ATTN: Pat Munyan, Public Works Director/City Administrator

RE: **2020 Engineering Services**

Dear Pat and Selection Committee:

Anderson Perry & Associates, Inc. (AP) is pleased to submit this Statement of Qualifications to you for continuing to provide engineering services to the City of White Salmon. Pursuant to your solicitation, please consider AP for the following categories: transportation, water, wastewater, and general civil engineering, as well as surveying services. We enjoy our working relationship with White Salmon and would like to continue to serve your community with your engineering needs.

Some of the advantages we offer White Salmon include:

- **Community and Facility Continuity**. Our previous and ongoing work with White Salmon's water system and water and wastewater rate structures makes us uniquely qualified to help the City implement these improvements. Our overall understanding of your utility systems provides assurance that the City's long-term best interests will be served.

- **Exceptional Experience and Capabilities**. Our firm has a staff of 90 professionals, including civil engineers, environmental specialists, surveyors, engineering technicians, drafting technicians, and other support staff. This experienced team of professionals has the capability to assist in any project capacity, as well as a proven track record of successful projects throughout eastern and central Washington. This Statement of Qualifications identifies a core team for serving the City of White Salmon.

- **Funding Experience**. AP has extensive experience with Transportation Improvement Board (TIB) and U.S. Department of Agriculture Rural Development (RD) programs, as well as other funding sources (e.g., Washington State Department of Health, Washington State Department of Ecology, Community Development Block Grant, Public Works Board). We have assisted clients in securing millions of dollars to fund needed infrastructure improvements and are familiar with the specific requirements and policies of many funding sources.

We look forward to all opportunities to continue to work with you and the White Salmon community, and you can be confident that we will work hand-in-hand with the City to meet your needs and to always find the best team to match the City's specific project goals.

ANDERSON PERRY & ASSOCIATES, INC.

By _____
Jake Hollopeter, P.E.
Vice President

JH/ct
Enclosure
S:\Proposal\White Salmon\2020 Engineering Services\Cover Ltr.docx









Who We Are

AP's Walla Walla Office Contact Information

214 East Birch Street
P.O. Box 1687
Walla Walla, WA 99362
(509) 529-9260
(509) 529-8102 - fax
www.andersonperry.com

Our mission is to provide solid engineering and sound solutions accompanied by exceptional relationship-oriented service, which has given our firm a reputation for establishing steadfast partnerships.

Anderson Perry & Associates, Inc. (AP) is a full-service civil engineering, surveying, and natural resources firm with 90 employees and offices in Walla Walla, Washington, and La Grande and Redmond, Oregon. As one of the largest full-service engineering firms based east of the Cascade Mountains, AP is the trusted local resource that many public entities depend on for reliable, cost-effective answers to their everyday engineering questions.

Founded in 1975, our company is staffed with an extensive team of professionals and equipped to serve a diverse range of engineering requirements. We specialize in assisting eastern Washington and eastern Oregon communities with planning, funding, surveying, engineering design, environmental permitting, construction administration, and construction engineering on a variety of public works projects.

Transportation

Experience Overview

AP has extensive experience with a broad range of transportation-related projects. AP is well connected with funding sources and can assist clients with identifying project funding and moving through the process of qualifying for funds. We have performed projects of all types ranging from sidewalks, roadways, and culverts to large interstate bridges and other major roadways. AP performs all phases of projects, including project scoping, surveying, feasibility studies, bridge type-size-location planning, environmental reports and permitting, engineering design, final plans and specifications, and construction contract administration.

Roads

- New construction, reconstruction, rehabilitation, realignment, and repair
- Geotechnical reports and designs
- Pavement design
- Storm drainage improvements
- Construction staging and signing
- Temporary traffic control
- Utility relocations and coordination
- Permanent traffic signing and striping

Bridges

- Geotechnical reports and designs
- Hydrologic/hydraulic studies and reports
- Bridge condition inspections
- Short and multi-span bridges
- Concrete box culverts/multi-plate culverts
- Bridge rehabilitation and repair designs
- Bridge load ratings
- Earth retaining walls

Pedestrian/Multi-Use

- Sidewalks and multi-use bicycle/pedestrian paths and bridges
- Decorative lighting and pedestrian furniture
- Bicycle/pedestrian bridges
- Landscaping and irrigation

Isaacs Avenue Reconstruction

City of Walla Walla, WA

The Isaacs Avenue corridor had significant safety issues with numerous commercial driveways, narrow sidewalks, and lack of bicycle lanes. AP designed improvements to modify the existing four-lane cross section to two travel lanes with a center turn lane and bike lanes and included replacing existing traffic signals and updating street lighting. Existing large diameter water and sewer mains were replaced as part of the project. In addition, storm drain facilities were updated to dispose of stormwater and prevent further damage to the roadway.

TIB Funding

Mill Creek Road and Bridge

Walla Walla County, WA

AP provided surveying and engineering services for the design of a new bridge, stream channel structures, drainage structures, and the realignment of Mill Creek Road between Mile Posts 8.0 and 9.4. The new bridge is a single-span, precast concrete structure with cast-in-place deck and a total span length of 165 feet. In addition to bridge work, the project required extensive road realignment, channel realignment, stream habitat enhancements, and creation of wetlands.

Camelia Street Reconstruction

City of Royal City, WA

Royal City's Camelia Street serves as the main downtown corridor of the community but functioned more like an industrial area than a downtown street. The area lacked sidewalks, did not have defined driveway locations, and lighting was poor. AP assisted the City in obtaining a Transportation Improvement Board (TIB) grant to reconstruct the full length of Camelia Street. Sidewalks, defined driveway access locations, and decorative illumination and landscape improvements were designed and constructed.

TIB Funding

Main Street Sidewalks

Town of Washtucna, WA

This project included the reconstruction of sidewalks, driveways, curbs and gutters, ADA ramps, and other pedestrian features on Main Street in downtown Washtucna. The sidewalks in this area were not ADA compliant and were in extremely poor condition. The sidewalks had been further compromised by a recent water service replacement project creating numerous tripping hazards. AP provided design engineering, surveying, permitting, and construction administration services for this project. All improvements were designed to Washington State Department of Transportation (WSDOT) Local Agency Guidelines.

TIB Funding

South 1st Street Reconstruction

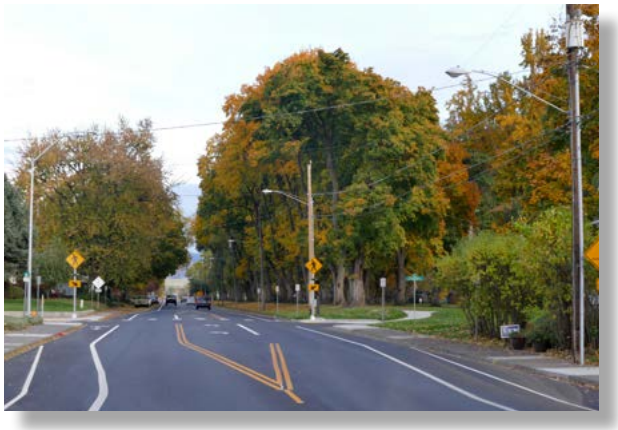
City of Dayton, WA

South 1st Street in Dayton connects Highway 12 to City Hall and the City Park and provides access to the Dayton School District. The street was originally constructed in the early 1900s and in very poor condition. AP assisted the City in securing a Washington TIB grant to fund 90 percent of the street improvements and completed design and construction engineering. The project fully reconstructed the roadway and storm drainage system, added much-needed parking, and upgraded water and sewer lines.

Alder Street IRRP Project

City of Walla Walla, WA

AP provided surveying, permitting, and design services to reconstruct Alder Street from Merriam to Roosevelt Streets. This corridor serves as the primary route between downtown Walla Walla and Pioneer Park, and Edison Elementary School. Improvements included complete pavement surface restoration; replacing all water, sewer, and stormwater utilities; and reconstructing intersections with new curb and gutter, sidewalks, and bulb-outs. The traffic signal at Clinton Street was replaced, and pedestrian facilities were upgraded with new detectable warning surfaces, crosswalk striping, and the installation of a rectangular rapid flashing beacon.



Park Avenue Reconstruction - Phase II

Town of St. John, WA

AP designed street improvements for 1,600 feet of Park Avenue from Front Street (Highway 23) to the Town's southern limits. The improvements included new curb and gutter, new sidewalks, storm drainage modifications, a concrete rail crossing, some street section reconstruction, and some pre-leveling and overlay with hot mix asphalt.

Main Street Bridge Replacement

City of Waitsburg, WA

With funding from the Washington State Department of Commerce, the City of Waitsburg teamed with AP to replace the Main Street Bridge, a historic structure contributing to the Waitsburg Historic District. The project replaced the existing 33-foot wide, 90-foot span concrete arch bridge constructed in 1925. The replacement bridge consists of a 125-foot long and 41-foot wide single-span precast concrete girder bridge.

Drinking Water Services

Experience Overview

AP professionals have completed all types of drinking water projects, from storage reservoirs to the innovative science of aquifer storage and recovery. We have designed spring intake systems, all types of groundwater wells, surface water supplies, filtration and other treatment systems, reservoirs, pump stations, pipelines, etc. This wide range of skills in our region ensures that clients will be able to choose among multiple options to improve water quality and your entire water system. We know what works best in our rural area.

Water Source Development

- Basalt and alluvial supply wells
- Developing and rehabilitating springs, surface water intakes, infiltration galleries, and other water supply sources for potable use

Pumping Stations

- Booster pump and well pump stations
- Altitude valves, flow control valves, pressure reducing/sustaining valves, surge anticipation valves, etc.
- Distribution networks
- Large and small distribution systems and pressure zones

Storage

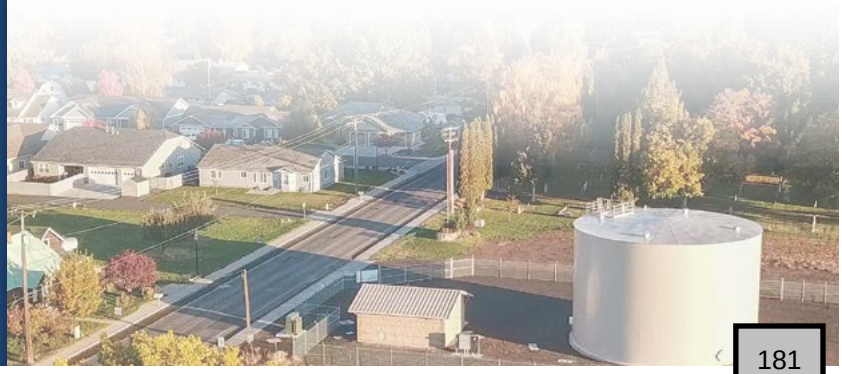
- Above- and belowground water storage solutions including concrete reservoirs, welded steel tanks, bolted steel tanks, and poly tanks

Treatment and Disinfection

- Systems to address water constituents such as arsenic, nitrate, iron, manganese, hydrogen sulfide, pathogens, and bacteria
- Sand filtration, synthetic media filtration systems, ion exchange units, membrane filtration, ultraviolet light, anion exchange, reverse osmosis, poly phosphate, and chlorination systems

Aquifer Storage and Recovery

- Underground water storage



Water System Improvements Project

City of Kahlotus, WA

AP assisted the City of Kahlotus in securing Washington State Community Development Block Grant (CDBG) funding to replace failing water mains. In addition to making sure the project met all necessary funding requirements, AP designed and oversaw construction of approximately 3,700 feet of 8-inch water line, water service connections, fire hydrants, valves, and connections to existing water lines.

Klindworth and Campbell Water Efficiency Project - *City of Connell, WA*

In 2012, the City of Connell replaced all water mains, services, valves, and fire hydrants in the Klindworth, Campbell, and Paramount Heights subdivisions. Water main replacement totaled over 15,000 feet, with 200 metered services. This effort was the last major water distribution replacement priority of a 15-year program to combat corrosion, reduce water loss, and improve system flow and pressure. AP has served as the design and construction engineer for all Connell water projects since 1992.

Water System Improvements

Town of Endicott, WA

Endicott's existing Well No. 1 produced water that exceeded the acute nitrate maximum contaminant level of 10 milligrams per liter (mg/L). AP designed Well No. 4 to provide water with a nitrate level less than 0.5 mg/L. The Town's new 232,000-gallon storage tank provides additional water storage and increases pressure throughout the system. Project challenges included constructing a well with sufficient capacity and low nitrate content, and designing a reservoir tank foundation with low-strength, native material and potential slope stability issues.

Burbank Business Park Nitrate Treatment System

Port of Walla Walla, WA

The Port of Walla Walla hired AP to design a system to provide a clean, potable water source and distribution system for the business park. To ensure reliability, a nitrate treatment process was selected. The treatment system utilizes high efficiency ion exchange for nitrate removal. The Burbank facility represents the first installation of this high efficiency technology in the State of Washington. The Port's unique solution reduces nitrate concentrations safely below health based standards.

Veterans Affairs Medical Center (VAMC) Water System Design - *Architects West, Inc.*

As a subconsultant to Architects West, Inc., AP designed a new water system to replace old and undersized pipe in the distribution system, improve fire flow capabilities, and construct a new 150,000-gallon, elevated water storage reservoir. The new reservoir tank provides for the VAMC's operating and standby water storage needs. New metered service lines were installed to each building for potable water and fire suppression service.

Wallula Dodd Water System

Port of Walla Walla, WA

AP provided planning, design, and is currently providing construction management for 5 miles of large-diameter potable water transmission and distribution mainline piping to connect the existing Dodd Road water system to a 6-million gallon hilltop concrete reservoir. The 24-inch high-density polyethylene (HPDE) transmission piping delivers water to the reservoir, and the 30-inch HDPE distribution piping delivers water to customers.

Water System Reconstruction

Town of St. John, WA

AP provided design, water right documentation, and construction administration services for a major reconstruction project to increase the number of water sources, improve system flow and pressure, flow capacity, and reduce system leakage and maintenance. Improvements included a new 12-inch, 550-foot deep basalt well; approximately 15,500 feet of water main pipe (including two railroad and two creek crossings); 400 gpm, 50 HP line-shaft turbine well pump system; wellhouse; and radio telemetry.

Water System Improvements

City of Island City, OR

This project included improvements to the City's water system to increase storage capacity and water supply. The improvements included a new 500-foot alluvial filter pack supply well, a new 500,000 gallon storage reservoir, existing Well No. 4 booster pump station improvements, updated system controls, improved distribution system looping to improve water quality, increased fire flows and hydrant coverage, and other miscellaneous water system improvements.

Wastewater Services

Experience Overview

AP has completed all types of wastewater projects in rural areas throughout Oregon, Washington, and Idaho. We have designed new mechanical treatment plants, lagoons, large on-site systems, irrigation and reuse systems, and wetlands systems in cooperation with multiple agencies. Our engineers' experience with diverse wastewater projects provides valuable insight into the wide variety of options and alternatives available. Our project staff is very familiar with the state and federal agency requirements for funding, design, construction, and ongoing treatment options.

Collection

- Infiltration/inflow evaluations
- Flow monitoring and video studies
- Design of gravity and pressure sewers
- Design of wastewater lift stations

Treatment Lagoons

- Facultative, aerated, and covered and storage lagoons
- Liner systems including natural clay, bentonite soil mixtures, and geosynthetic membranes

Mechanical Treatment Plants

- Activated sludge systems
- Fixed film systems
- Remote large on-site systems

Wetlands

- Wetland systems that utilize natural wetland processes involving soil materials, water, plants, and microorganisms to assist in disposal of treated wastewater

Discharge/Reuse

- Direct and indirect surface water discharges
- Subsurface systems utilizing pressure distribution and drip irrigation
- Spray field applications employing pivot and linear irrigation systems

Burbank Business Park Wastewater System (Snake River Crossing) - *Port of Walla Walla, WA*

AP designed a wastewater conveyance system to reduce the area's reliance on septic systems and improve the health of the community by decreasing nitrate concentrations in the groundwater. The project included constructing a pipeline though the basalt rock layer nearly 40 feet under the Snake River and 80 feet below ground level to convey the wastewater to the City of Pasco's wastewater treatment facility. The completed project cleared the way for new industries, jobs, and commerce.

Wastewater Treatment Lagoons and Irrigation - *City of Connell, WA*

The City of Connell was required to meet stringent treatment requirements to protect groundwater quality in the Mid-Columbia Basin Groundwater Management Area. The City chose to pursue an effluent reuse project in which treated wastewater is beneficially used to grow alfalfa. The project includes two 800 gallons per minute lift stations, a 3-mile pipeline, an aerated treatment lagoon and storage reservoirs totaling 75 million gallons, and a center pivot irrigation system.

Washington Street/5th Street/Patit Avenue Water and Sewer Main Improvements - *City of Dayton, WA*

AP designed plans for and provided construction administration for comprehensive water and sewer main system improvements for the City of Dayton. The work included the replacement of approximately 3,400 linear feet of water main in East Washington Street, North 5th Street, and East Patit Avenue; the replacement of approximately 1,400 linear feet of sewer main in East Washington Street; and other associated work.

Wastewater Treatment Facilities Improvements

City of Milton-Freewater, OR

The City experienced a structural failure of the concrete anaerobic sludge digester tank at their wastewater treatment facility. The City authorized AP evaluate the system and develop feasible improvement alternatives. The City teamed with AP to design improvements including upgrades to the existing headworks, installation of a new automatic primary clarifier scum removal system, and improvements to the trickling filter and sludge management system.

Wetland Wastewater Treatment and Disposal

City of Prineville, OR

When the City of Prineville needed additional capacity for their wastewater system, and a new mechanical treatment plant was estimated to cost $62 million, the City teamed with AP to design a wetland wastewater system as an environmentally friendly option that would cost nearly $50 million less than the previously proposed mechanical treatment plant. The 120-acre project includes 15 new wetland cells that biologically and mechanically filter the City's treated wastewater and allow water to infiltrate into the Crooked River via indirect discharge. AP also designed walking paths, pavilions, kiosks, gazebos, restrooms, and a parking area to provide recreational and education opportunities within the new wetlands and riparian areas.

Lift Station No. 1

Town of Albion, WA

AP designed a new duplex submersible wastewater lift station serving all of Albion. The station collects all wastewater for delivery to the treatment plant. Construction challenges included placing a 32-foot deep wetwell near the South Fork Palouse River and a live transfer of flow to the new lift station from the previous facility. The $450,000 project included a control building, flowmeter, and collection system repairs to eliminate groundwater infiltration.

Wastewater System Improvements

City of Stanfield, OR

AP provided design and construction engineering services for improvements to the City's existing trickling filter wastewater treatment facility that included decommissioning the existing effluent outfall and re-routing to a new outfall site approximately 1,050 feet downstream. The purpose of this project was to improve in-stream water quality being impacted by the City's wastewater effluent.

Downtown Alley Sewer Pipe Bursting

City of Walla Walla, WA

AP designed this alley sewer replacement project that included sewer main and service locating, utility coordination, and preparation of a pipe bursting technical design memorandum. Developed design plans, specifications, and construction cost estimates, and provided construction administration and on-site observation.

Surveying

Experience Overview

AP routinely completes all facets of surveying for projects. The AP team includes 11 seasoned surveyors, including four registered professional land surveyors with extensive experience performing various surveying services in the Pacific Northwest. AP's survey team has performed hundreds of surveys in eastern Washington and Oregon for a variety of federal, state, local, and private entities on a very wide variety of projects. Our multiple survey crews use the latest technology to satisfy clients' requirements in a timely and accurate manner. AP's full-service capabilities and superior standards attract many other engineering firms and contractors to hire AP to perform surveying for their own projects.

Surveying Services

- Design, route, and location surveys
- Boundary, subdivision, and ALTA surveys
- Right-of-way research, determination, and acquisition
- GIS mapping
- Federal Emergency Management Agency (FEMA) flood hazard mapping
- River/stream hydraulic surveys
- Construction staking
- Structural as-built/heavy construction

Mill Creek Road and Bridge

Walla Walla County, WA

AP performed right-of-way and design surveys for the Mill Creek Road project. Survey activities included topographic mapping and right-of-way retracement along 7,200 feet of Mill Creek Road. AP services consisted of researching for adjacent property owners, coordinating field survey activities and underground utility locations, drafting the base map, determining right-of-way, preparing the right-of-way map, and communicating with County staff.

Isaacs Avenue Reconstruction

City of Walla Walla, WA

To address significant safety issues on the Isaacs Avenue Corridor, the City of Walla Walla contracted with the DKS/AP team to prepare the Isaacs Avenue Corridor Study. AP provided surveying services for this 1.4-mile roadway reconstruction project including records research, survey control, topographic mapping, rights-of-way retracement and monument locations, and base mapping.

4th Street/Academy Way Reconstruction

College Place, WA

AP performed right-of-way and design survey services including topographic mapping and right of-way retracement for this 2,500-foot reconstruction project. Responsibilities included records research and project communication with over 30 adjacent property owners; coordination of field survey activities, underground utility locations, and drafting of the base map; right-of-way mapping; and preparation of right-of-way and utility easement descriptions.

Irrigation Pressurization Project

Benton Irrigation District

Survey requirements for this large irrigation piping project included easement negotiation and acquisition for approximately 500 irrigation easements throughout the irrigation district. AP surveyors created a large-scale, horizontal and vertical control network spanning the irrigation district to use for an aerial survey. Work also included approximately 80 miles of design survey of the pipeline corridor, as well as complete construction staking.

Water Main Improvements Project

City of Kahlotus, WA

AP completed topographic design survey services for the replacement of approximately 5,900 feet of water mains. Responsibilities included field surveying, underground utility locations, title research, base map preparation, and construction staking.

Land Surveying Services for 2013 School Bond Project

City of Pendleton, OR

Completed a boundary survey, retracement, and resolution, and a topographic field survey of two new replacement elementary schools, conversion of an existing elementary school, and upgrades to several other district facilities within the Pendleton School District Area. Items included building corners; adjacent street roadways including any curb, gutter, sidewalks, ramps, and landings; and on-site driveways and parking areas including pavement striping, area lighting, signs, fencing, and gates.

Blue Mountain Station, Phase I

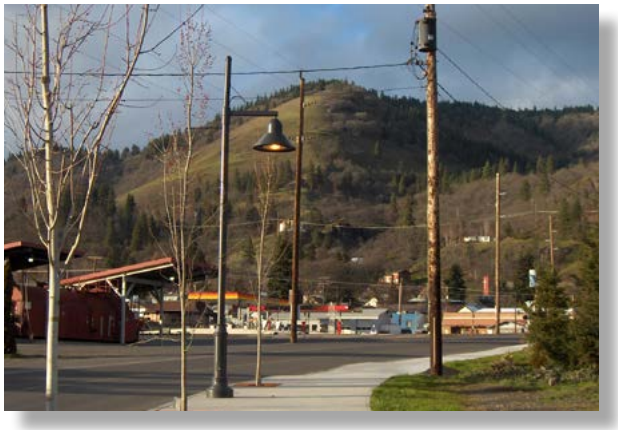
Port of Columbia, WA

AP worked with the Port of Columbia to establish a Binding Site Plan for the Port's eco food processing park near Dayton. A boundary line adjustment was completed to facilitate the Binding Site Plan. AP also provided horizontal and vertical control for Phase 1 infrastructure construction at the business park. Blue Mountain Station is one of dozens of sites in Columbia County developed with survey services from AP.

Maple Street Reconstruction

City of Bingen, WA

The City of Bingen secured funding for a much needed pedestrian safe routes and street reconstruction project. AP's survey team was challenged, as Maple Street is the only access to the Port District and SDS Lumber Company and serves over 3,200 vehicles per day with heavy industrial truck traffic. Additionally, there were multiple ungated railroad crossings that narrowed to less than 20 feet, complicating vehicle and pedestrian traffic. AP met these challenges by installing pedestrian rail panels, increasing traffic control signing, and using a robotic total station system and GPS.



Site Development

Experience Overview

AP is often called upon by our clients to help determine the feasibility of developing a particular site. Common issues that we help our clients assess include site access, utility sizing, infrastructure costs, environmental challenges, layout alternatives, land use planning, partitioning concepts, drainage, flood plain assessment, and cost-benefit analysis.

From small scale projects such as campus improvements for schools to multi-million dollar business parks, clients continually turn to AP for the site civil work for their projects. AP's broad-based familiarity with the geography, geology, area stakeholders, and political leaders of our area means that clients can enjoy the leverage that these relationships can offer in helping to avoid often unforeseen challenges.

Site Development Services

- Site planning
- Industrial park plans
- Surveying and partitioning
- City engineer review
- Roadway network and lot layout
- Access design and coordination/permitting with local agencies (county, city, Department of Transportation, etc.)
- Environmental permitting
- Site drainage, stormwater detention, and water quality design
- Potable water supply, storage, and distribution
- Sanitary wastewater conveyance, treatment, and reuse/disposal
- Private utility coordination (power, gas, and communications)
- Construction cost estimates and final bid documents

New Dining and Residence Hall

Whitman College

AP conducted a geotechnical investigation for a new 45,000-square foot dining and residence hall. This project included an extensive subsurface exploration utilizing borings and test pits to identify areas of fill and soft compressible soils. The Geotechnical Report prepared for this project included characterization of the subsurface materials, a liquefaction assessment, identification of geologic hazards, recommendations for site preparation, foundation design and construction, structural fill parameters, site drainage, and seismic design criteria.

College Place Middle School/High School

College Place School District

The District passed a capital bond that enabled them to design and construct a combined high school and middle school. AP completed the civil engineering design, which included water, sewer, and fire services; a Stormwater Report; 30 stormwater disposal facilities; right-of-way improvements; and parking improvements. The 34-acre campus is home to the new College Place High School and Sager Middle School. Both schools now operate in one 130,000-square foot building and share the campus.

Yellowhawk Tribal Health Center

Confederated Tribes of the Umatilla Indian Reservation (CTUIR)

The Yellowhawk Tribal Health Center was constructed with the goal of providing quality medical care to members of the CTUIR. The 64,000-square foot state-of-the-art facility includes medical clinics as well as community and education spaces. AP provided roadway design to connect to existing tribal collector roads and provide for future development surrounding the health center, an on-site stormwater conveyance and retention system with natural landscaping design, a water system design including a fire protection system, and a gravity piping sewer system design.

Walla Walla General Hospital Expansion

PKA Architects

AP provided engineering services for site work and underground utilities for a significant hospital expansion and remodel project. This project included improvements to pedestrian sidewalk facilities, parking lots, hospital entrance and drop-off, underground utilities, and stormwater management. AP evaluated plans and specifications and prepared documents for State Environmental Policy Act (SEPA) compliance for this project, which included roads, parking facilities, and a building expansion adjacent to Garrison Creek.

Irrigation

Experience Overview

AP has provided planning, design, and construction engineering services on hundreds of irrigation projects in the Pacific Northwest, including large, complex, multi-user irrigation projects. We have completed all phases of these projects from start to finish including developing feasible alternatives, working with irrigators and other stakeholders to gain consensus, developing funding, designing projects, constructing projects, and seeing projects successfully operate.

Because we regularly work with irrigation districts, we are familiar with the scheduling constraints that irrigation districts are confronted with in completing infrastructure projects in time for irrigation season. In addition, our team understands the funding requirements and limitations associated with irrigation grant monies.

Distribution

- On-demand and independent systems
- Utilize current modeling software to create distribution systems that best meet the needs of individual users
- Flow control and pressure control systems

Transmission

- Large diameter pipelines from the water source to the irrigation users

Pump Stations

- Pump station systems from 5 to 3,400 horsepower that utilize power services from 120 to 4,160 volts
- Automated variable speed drives with programmable logic controllers as well as hydraulic control systems

Diversion Structures

- Incorporates sensitivity to biological systems and regulatory requirements while achieving the primary objective of diverting water for irrigation purposes

Fish Screens

- Horizontal flat plate fish screens
- Vertical traveling fish screens

C-Flume Replacement Design

Klamath Irrigation District

AP provided design engineering services for this project that involves replacing the existing C-flume with a 10-foot diameter siphon pipe and new concrete-lined canal. Approximately 4,000 feet of 10-foot diameter siphon pipe will be installed, as well as 250 feet of concrete-lined canal. The work includes a crossing under the Lost River Diversion channel, a crossing under an existing railroad bridge, and a crossing under Highway 39.

Irrigation Improvement Project

West Side Irrigation Dist. No. 5

AP provided engineering design, bidding assistance, and construction administration for this project. The work involved removal of five sections of the existing irrigation main line and replacement of the removed section with new plastic irrigation pipe and HDPE pipe in casings to accommodate the future relocation of U.S. Highway 12. Other improvements included relocation of existing irrigation water meters and construction of temporary connections to existing delivery lines.

Irrigation Pressurization Project

Benton Irrigation District

Benton Irrigation District teamed with AP to replace an old, unlined, open canal system with a new, pump-pressurized, buried pipeline distribution system. The project consisted of four main phases of work: 1) modify system plan to locate pipelines and pump stations, 2) implement a new river pump station and initial water main backbone, 3) design and construct rural submain line piping and turnouts, and 4) design and construct pressurized urban submain lines.

Dee Irrigation District Canal Improvements

Confederated Tribes of the Warm Springs Reservation of Oregon

AP provided conceptual planning, alternative development, and final design to convert the 4-mile long open canal system into a piped irrigation ditch. The project also included retrofitting and installing fish screens at two diversion structures and decommissioning two diversion structures to improve fish passage for anadromous fish. The estimated 3 cubic feet per second conserved by this project will be converted into an instream water right.

Flood Reduction

Experience Overview

AP is a recognized expert in levee evaluation, repairs, and certification and floodplain mapping in the Pacific Northwest. AP was the first consulting engineering firm in the nation to submit the required documentation for levee certification and receive approval through the Conditional Letter of Map Revision (CLOMR) process. AP possesses a thorough knowledge of FEMA's levee certification process and understands the requirements of the FEMA policy memorandums. This knowledge translates into successful and timely project turnarounds.

Levee Evaluation, Repair, and Certification

- Prioritize levee deficiencies
- Topographic surveys of levee systems
- Assess adequacy of levee embankment protection from erosion
- Provide geotechnical expertise for evaluating embankment and foundation stability
- Perform interior drainage analysis
- Update or develope operation and maintenance manuals and emergency action plans
- Identify changes in current design standards
- Address vegetation, encroachments, slope stability, riprap, and floodwalls
- Respond to FEMA comments to move map amendments through the approval process
- Assist with public outreach and communication

Floodplain Mapping

- Documentation for modification of floodplain mapping, including the development of flood insurance study flows (hydrology)
- Prepare CLOMR packages for modifications to floodplain mapping
- Complete Letter of Map Revision (LOMR) requirements

Heise-Roberts Flood Control Project

U.S. Army Corps of Engineers

The USACE tasked AP to inspect the four levee systems spanning approximately 50 miles along the Snake River that comprise the Heise-Roberts Flood Control Project near Rexburg, Idaho. The inspections addressed vegetation, encroachments, slope stability, riprap revetment condition, and interior drainage systems. AP reviewed hydraulic and structural design criteria, then completed a detailed, in-channel inspection along the project length. The resulting Periodic Inspection Report deemed the facilities minimally acceptable.

FEMA Levee Certification and Repairs

Milton-Freewater Water Control District

AP provided design and construction engineering services to bring the 8.96 miles of levee systems in Milton-Freewater, Oregon into compliance with United States Army Corps of Engineers (USACE) levee guidelines and obtain FEMA accreditation, thereby eliminating mandatory National Flood Insurance Program requirements. AP provided design services for riprap installation, concrete repair, bridge improvements, and culvert cleaning as part of the levee system rehabilitation. This project received a Grand Award from the American Council of Engineering Companies.

Periodic Levee Inspections

U.S. Army Corps of Engineers

AP performed periodic inspections of 40 levee systems covering more than 50 miles of levee located in Oregon, Washington, and Idaho. Levee inspections provided evaluations of lined and unlined earthen embankments, concrete floodwalls, pump station drainage structures, flood damage reduction channels, emergency action plans, and operation and maintenance plans. Field inspections were carried out using USACE rating guidelines. Periodic Inspection Reports were generated discussing various levee deficiencies.

Levee Certification

City of Reedsport, OR

AP evaluated the 2.5-mile long Reedsport Levee to meet FEMA requirements for levee certification. Phase 1 included preliminary data gathering and review and surveying. Phase 2 included a hydrology study, hydraulic study, freeboard determination, geotechnical analysis, erosion protection analysis, interior drainage study, vegetation planning, and Endangered Species Act clearance. Phase 3 will include remedial work needed for the levee system to be certified and accredited by FEMA.

GIS Services

Experience Overview

AP is a proud member of the Esri® Partner Network, delivering successful GIS implementations and low-cost, repeatable solutions for municipalities, counties, and special districts. When combined with our ArcGIS Online Specialty Designation and a core competency in ArcGIS Online, AP has reshaped GIS into a low-cost, self-service offering aimed at helping clients easily discover, use, make, and share GIS data from any device, anywhere, anytime.

While our services are ideally tailored to small-to-mid sized organizations, AP continues to offer traditional project-based services across a wide range of industries and disciplines.

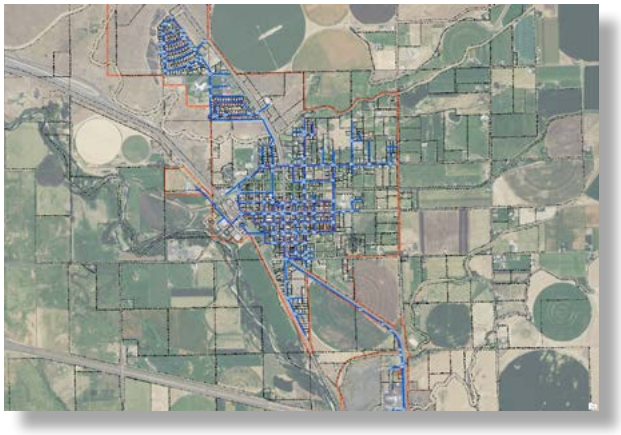
GIS Services

- GIS database design and deployment for operations
- CAD/GIS conversion for water, wastewater, and stormwater
- ArcGIS Online setup, configuration, and administration
- Web GIS for self-service mapping and stakeholder engagement
- Mobile GIS for field data collection and preventative maintenance
- Data acquisition, updates, and GIS database management
- LiDAR/mobile scanning to GIS feature extraction
- GIS-based water modeling
- Esri software sales and enablement

GIS Development Services

City of Stanfield, OR

AP developed a customized water system geodatabase from CAD data and Record Drawings dating back to the late 1960s. AP created the point, line, and polygon data for the various layers and then trained City staff on how to populate the database using web-based tools from office computers, tablets, and cell phones used in the field. All Record Drawings for the water system were scanned and georeferenced into the database so City staff can access a PDF copies from the field. The entire geodatabase is available to City staff through web-based tools.



GIS Development Services

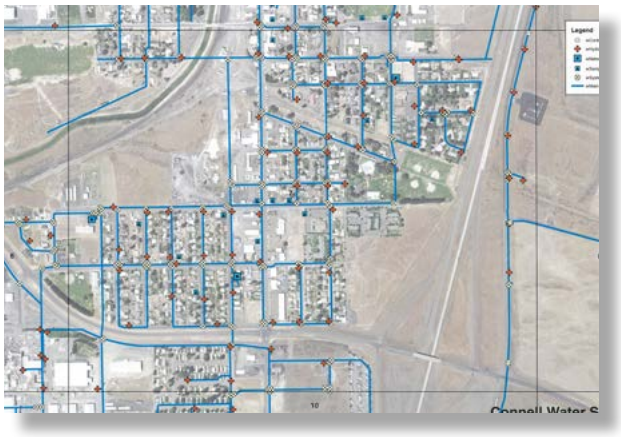
Benton Irrigation District

AP built an on-line GIS system from CAD Record Drawings. The geodatabase covers approximately 10 square miles and includes attribute data for over 62 miles of pipe, 2,800 control devices, 2,000 services, and more than 1,000 valves and controls. The project merged billing information, public parcels, and operational records with the geodatabase. All data is accessed and edited via web-based tools with user-specific editing controls. Staff utilize the GIS system daily for operational procedures and system maintenance.

GIS Development Services

City of Connell, WA

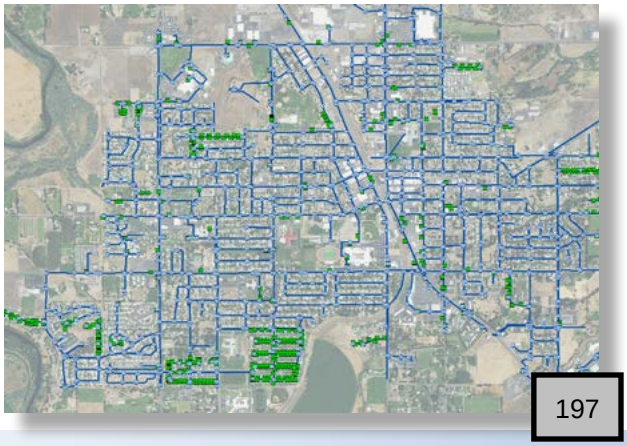
AP migrated the City's various wastewater and water CAD files into a GIS platform. Their CAD files originated from multiple systems and were not all georeferenced. AP compiled and organized all CAD data to the same coordinate system and extracted CAD layers to build geodatabases for each utility. AP's GIS team built a geometric network from the water system GIS data that was then used to develop a hydraulic model of the entire water system. The model was used to map pressure zones and analyze the effect of possible system improvements.



GIS Development Services

City of Hermiston, OR

AP worked with City staff to expand a customized water and wastewater system geodatabase from CAD data and Record Drawings. AP's staff then created the point, line, and polygon data for the various features classes related to their water and wastewater databases from CAD exports as well as scanned Record Drawings.



Environmental/Permitting

Experience Overview

AP offers environmental services to help our clients understand and successfully navigate increasingly complex regulatory requirements and permitting processes. Our experience in the rural Northwest has taught us how to streamline the compliance process, helping clients achieve both environmental responsibility and project success. AP's Natural Resources Group has developed a positive relationship with regulatory staff through our honest, collaborative, and informed approach to projects. The experts at AP are able to identify, resolve, and even avoid environmental issues and permitting problems that can delay project progress.

Permitting and Regulatory Compliance

- Clean Water Act compliance
- Water quality certification
- Rivers and Harbors Act-Section 10
- Endangered Species Act (ESA) compliance documentation
- Section 106 compliance documentation

NEPA Documentation

- Environmental reports
- Categorical exclusions
- Environmental assessments
- Environmental Impact Statements

Biological Services

- ESA documentation for threatened and endangered species (Biological Assessments, No Effect Letters)
- Fish, wildlife, and plant surveys
- Monitoring services

Wetlands

- Delineations and assessments
- Mitigation and restoration plans
- Monitoring

Burbank Barge Slip Dredging and Permitting - *The Scoular Company*

AP provided permitting services and agency consultation for in-water work and water quality monitoring for The Scoular Company's barge slip at the Port of Walla Walla in Burbank, Washington. AP conducted the field sampling and sediment characterization, which was used to obtain the permits required for dredging and disposing of materials. AP also prepared a Sampling and Analysis Plan to fulfill the Dredged Material Management Program requirement and characterize the sediment to be dredged.

Hermo Road Wetland Mitigation Plan and Design - *Global Westward*

AP designed a 17-acre wetland mitigation site to offset unavoidable impacts to existing wetland habitat from proposed improvements to Hermo Road. The road project will have unavoidable impacts to wetland habitat and was required to offset impacts through compensatory wetland mitigation. AP provided professional services to complete the project design, finalize the wetland mitigation site design, provide estimated costs for construction, and prepare Technical Specifications and Bidding Documents.

Main Street Bridge Replacement and Biological Assessment

City of Waitsburg, WA

The City of Waitsburg teamed with AP to replace the Main Street Bridge, a historic structure eligible for inclusion in the National Register of Historic Places. AP prepared a Biological Assessment to meet the Section 7 consultation requirements as part of the permitting process. Species addressed included steelhead, bull trout, applicable critical habitat, and essential fish habitat. AP coordinated with the USACE, Washington State Department of Fish and Wildlife, and National Marine Fisheries Service to complete this process.

Bussell Road Critical Area Report

Walla Walla County, WA

AP conducted a wetland/waterway site evaluation and prepared a Critical Area Report as part of the project planning process for the realignment of Bussell Road. This project eliminated a sharp bend in the roadway and involved construction of a new section of road alignment, abandonment of the corresponding portion of the existing roadway alignment, and replacement and realignment of the existing culvert that carries Stone Creek under Bussell Road.

Cultural Resources Management and Compliance

Experience Overview

AP offers cultural resources management services to help clients execute projects while meeting federal and state requirements. Our staff has extensive experience conducting archaeological investigations and preparing the necessary reports to meet the compliance regulations of Section 106 of the National Historic Preservation Act.

Our staff maintains excellent working relationships with state historic preservation offices and Native American tribes throughout the Pacific Northwest and can help facilitate consultation by providing solutions to specific concerns. At AP, we are committed to using practical, high quality, and cost-effectiveness analysis to balance state and federal requirements with project goals while protecting historic properties.

Cultural Resources Services

- Archaeological inventory surveys and testing
- Assessments and evaluations for National Register eligibility
- Archaeological monitoring of construction activities
- Laboratory processing, data analysis, and curation
- Mitigation plans (data recovery, inadvertent discovery, monitoring, preservation)
- Archival and historical research, Department of Archaeology and Historic Preservation (DAHP) literature reviews
- Section 106 compliance studies
- Washington SEPA Environmental Checklist (Question 13)
- GIS mapping
- Tribal consultation

Well No. 6 Replacement Project

City of Connell, WA

AP completed a Cultural Resource Inventory (CRI) for the proposed decommissioning of Wells No. 1 and 2 and the future construction of a new well to replace the existing Well No. 6. in the City of Connell. The CRI consisted of background research, a pedestrian survey, subsurface testing, and recording any archaeological sites discovered during the process. AP prepared a report to summarize the findings of each project and significance of the archaeological data and to determine the finding of effect.

Isaacs Avenue Reconstruction

City of Walla Walla, WA

AP's project archaeologists conducted consultation with tribes and state agencies to address sensitive cultural resources in the project area. AP completed a cultural resources survey and testing, conducted monitoring, responded to inadvertent discovery finds during project construction, conducted artifact analysis and curation for artifacts found during inadvertent discoveries, and prepared a report to comply with Executive Order 05-05 requirements.

Cunningham Road Widening Project

Adams County, WA

Adams County Public Works Department reconstructed a segment of Cunningham Road that included minor vertical realignment of the roadway, shoulder widening, crushed surfacing top course, culvert replacement, installation of guardrail, and resurfacing of the road. This project was funded by Rural Arterial Programs (RAP) funds. AP's project archaeologists completed cultural resources survey and testing and completed a Historic Property Inventory for the Cunningham Road Bridge to comply with Executive Order 05-05 requirements.

Whitman Drive West Project

Walla Walla County, WA

Completed a cultural resources survey, testing, and report to comply with Executive Order 05-05 requirements for a WSDOT Local Programs-funded project to widen Whitman Drive to provide dedicated bicycle lines on both sides of the road. AP surveyed 2.13 miles of road and excavated 153 shovel test probes resulting in the discovery of four new archaeological sites. AP conducted historic research to determine resource eligibility and project effects.

Funding Experience

Funding Program Knowledge

The ability of your engineering consultant to assist the City in applying and administering federal and state funding for planning, design, and construction is critical.

AP offers a staff of engineers and technicians who have assisted cities in securing millions of dollars in funding over the last 10 years.

In any given year, AP will assist clients with 8 to 12 TIB applications, and typically see a 90 percent success rate in securing funding.

During the 45 years that AP has served the communities of eastern Washington, we have worked on hundreds of infrastructure system planning, design, and construction projects, many of which have been funded in whole or in part by the programs listed below.

Competition for funding is high, and the application process can be very challenging for a firm with little experience. Most funding programs have several requirements as a condition of receipt and use of funding. Potential missteps with the use of funds can result in additional expenses or, in extreme cases, the loss of funding. The AP team is very familiar with most funding agency requirements, and the City of White Salmon can be confident that they have the best chance of securing project funding when partnering with AP.

AP is familiar with many funding programs for city projects including:

- USDA Rural Development Grant/Loan Program
- Washington State Department of Commerce Public Works Trust Fund
- Washington State Department of Health (DOH) Drinking Water State Revolving Fund
- Washington State Department of Ecology (Ecology) State Revolving Fund
- Washington State Department of Commerce Community Development Block Grant (CDBG)
- Washington State Transportation Improvement Board (TIB)
- Washington State Department of Transportation's Highway Safety Improvement Program, Safe Routes to School, Bike and Pedestrian Improvements, etc.

AP has relationships with funding agencies like Rural Development, Department of Commerce, Ecology, DOH, and TIB that give our clients an inside track to multiple avenues of funding for various types of projects.

AP regularly works closely with all funding agencies, helping clients through the funding process from application to award.

Our funding assistance services include:

- Funding source identification and development
- Grant/loan applications and environmental reports
- Utility rate studies
- Established relationships with funding and regulatory agencies
- Public meetings

Grant and Loan Funding Program Experience

The following table shows a variety of infrastructure projects completed by AP and their associated funding sources.

Client	Project	CDBG	USDA RD	Public Works Trust Fund	State of Washington - Legislative Appropriations	Safe Drinking Water Revolving Loan Fund	Centennial Clean Water Fund
City of Adams	Water Reservoir and Transmission Pipeline		◆				
City of Asotin	Wastewater Treatment Upgrades	◆	◆	◆			
Town of Albion	Lift Station No. 1						◆
City of College Place	Energy Efficiency Wastewater Treatment Plant	◆					
City of Connell	Water Distribution Upgrades	◆	◆	◆			
City of Connell	Wastewater Lagoons and Irrigation				◆		◆
Consolidated Irrigation District	Well No. 1			◆			
City of Dayton	Water Distribution Improvements		◆	◆			
City of Dayville	Water System Improvements					◆	
City of Echo	Water System Planning	◆					
Town of Endicott	Water System Improvements	◆	◆	◆			
Town of Endicott	Wastewater System Upgrades	◆	◆				
Town of Grass Valley	Water Distribution System and Booster Pumps	◆	◆				
City of Irrigon	Water System Improvements		◆			◆	
City of Halfway	Well No. 1, Record Street, and Water Distribution System Improvements	◆					
Town of Hatton	Water System Upgrades	◆	◆				
City of Joseph	Water System Improvements	◆					
City of Lostine	Water System Improvements		◆			◆	
Town of Mansfield	Wastewater Treatment and Irrigation	◆		◆			◆
City of Prairie City	Water System Improvements (Slow Sand Filter)					◆	
Town of Prescott	Wastewater Engineering Report		◆				
Sentinel Gap Water Association	Water System Improvements	◆	◆				
City of Stanfield	Wastewater System Improvements	◆					
Town of St. John	Water System Reconstruction		◆	◆			
City of Ukiah	Water System Improvements					◆	
City of Waitsburg	Wastewater Facility Upgrades		◆	◆			
Port of Walla Walla	Burbank Business Park Wastewater System						◆
Town of Washtucna	Water Distribution System	◆	◆	◆			
Town of Washtucna	Lagoons and Irrigation	◆	◆	◆			

White Salmon Experience

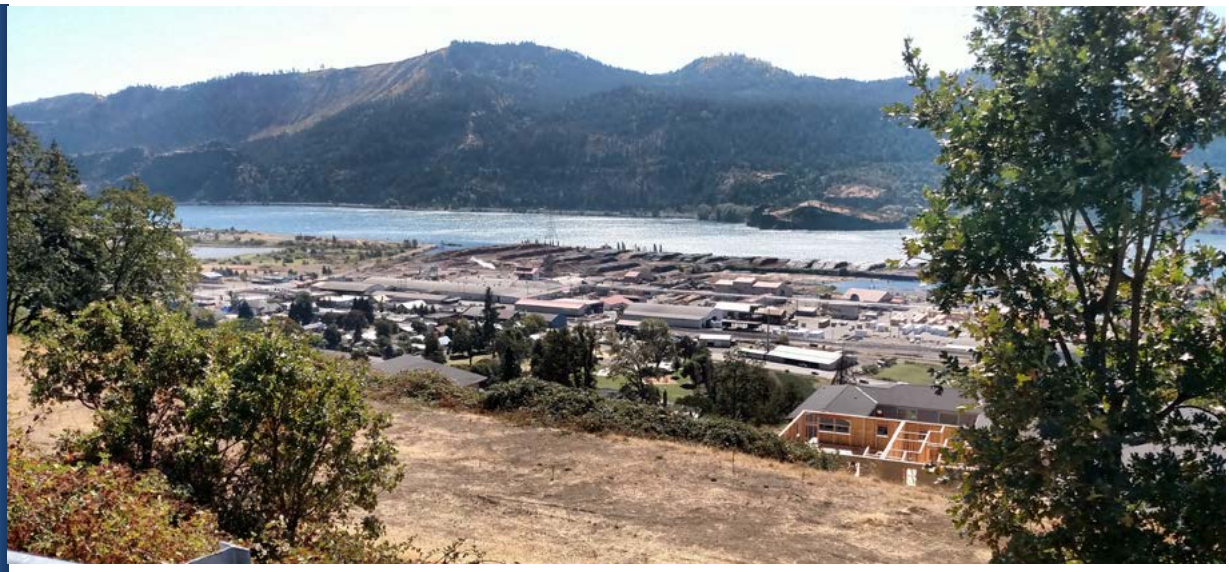


Photo by AP Survey Crew, 2016

Familiarity With the Community

AP has collaborated with the City of White Salmon on several projects in recent years, many of them related to the City's water system. The table below outlines the most recent projects our firm has undertaken with the City.

AP's previous and ongoing work with White Salmon's water system makes us uniquely qualified to help the City implement the proposed improvements. Our overall understanding of your utility systems provides assurance that the City's long-term best interests will be served.

Year	Project
2013-2014	Water System Plan
2013	Revised Water Rates for City of Bingen
2016	Water and Sewer Cost of Service Rate Studies
2017	Water and Sewer System Capital Facilities Charges
2018	Hydraulic Modeling of Fire Flows
2019	Funding Application (PWB) for Transmission Main Replacement
2018-2020	Jewett Water Main Improvements *(under construction)*

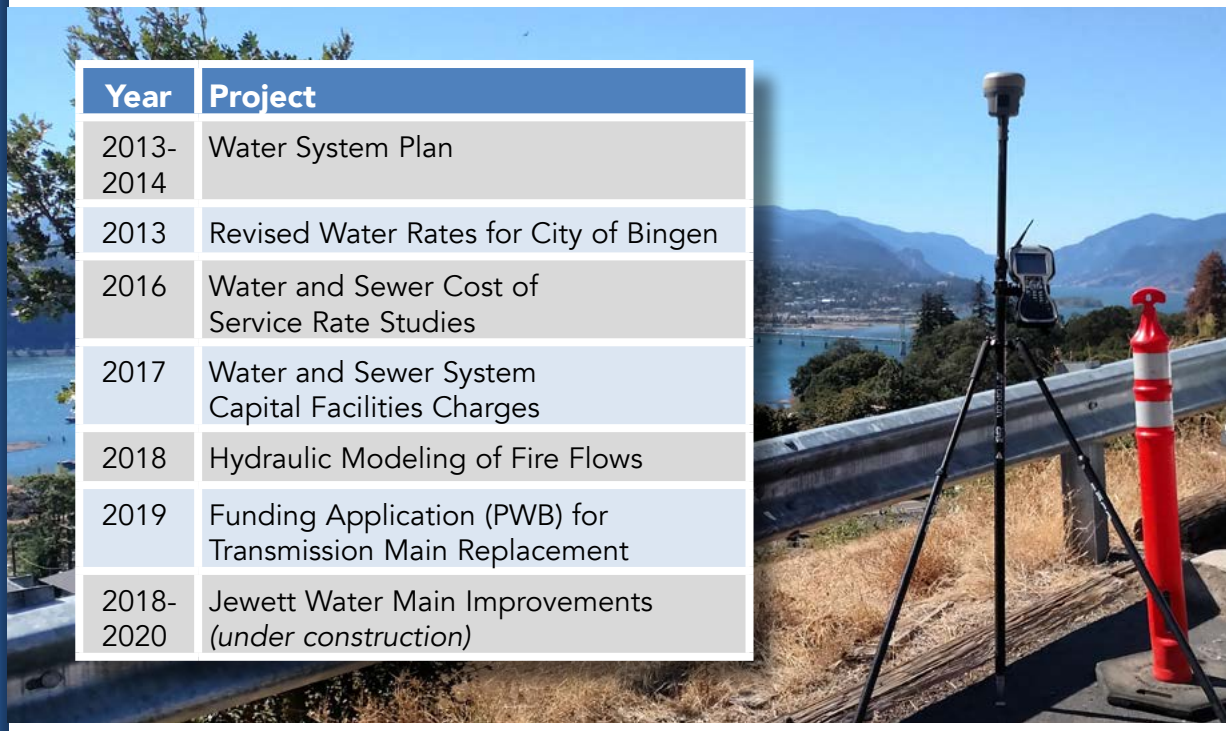


Photo by AP Survey Crew, 2016

Our Project Team

AP's primary purpose since its founding 45 years ago is to serve as the "one-stop shop" for eastern Washington and eastern and central Oregon municipalities' engineering needs. AP is a trusted resource many local clients depend on for reliable, cost-effective answers to their everyday engineering questions. We have encountered and successfully solved the full array of challenges and issues typically faced by communities in our area. Our team includes engineers, surveyors, technicians, environmental permitting specialists, biologists, archaeologists, GIS technicians, construction project representatives, and construction administrators. Our team has full capabilities to provide professional services for a variety of projects.

As the table below illustrates, AP has a staff of 90 professionals, which includes civil engineers, environmental specialists, land surveyors, engineering technicians, drafting technicians, and other support staff. The firm's strength rests with our experienced senior engineering and surveying staff who are capable of handling complex projects. These senior staff members are supported by a technically qualified staff of engineers, technicians, and surveyors.

Discipline	Staff
Civil Engineers	24
Surveying	9
Environmental	3
Engineering Technicians	8
Drafting Technicians	7
Project Representatives	10
GIS Technicians	3
Archaeologists	4
Administration	22
Total	**90**

AP's Walla Walla Office Staff

Proposed Consultant Team

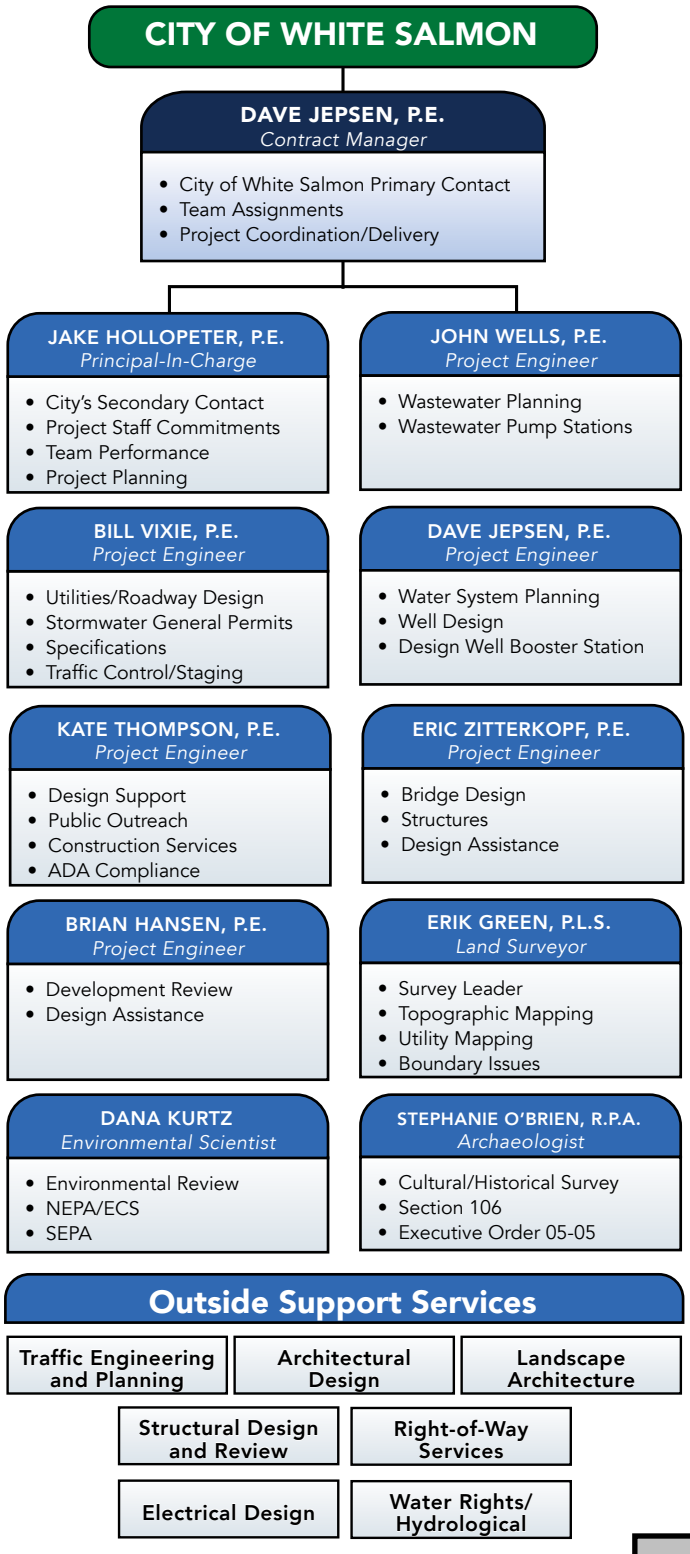
AP offers White Salmon an experienced and qualified consultant team. The proposed team members shown will be the people who will actually work on your projects. Our team has a proven history of working together to successfully deliver projects on time and within budget. We have extensive experience providing on-call services and will work hand-in-hand with City staff to meet your needs. From acting as an extension of City staff by providing plan reviews or leading complex full-service infrastructure projects, our team can provide a full array of services.

The organizational chart illustrates the key staff who will be available to the City for completing all aspects of typical City projects, their respective roles, and lines of communication. All projects will be led by staff from AP's Walla Walla office. While AP can provide most requested services in-house, we realize there are times when additional expertise is required to meet project needs. We have developed relationships with industry experts in several other areas and can lead the effort to bring in other disciplines when needed, as noted on our organizational chart.

As the organizational chart illustrates, Dave Jepsen, P.E., will serve as the Contract Manager and primary City contact. He will lead design efforts and coordinate team engineering and environmental activities. In selecting a manager, it is important to select an individual who can work well with White Salmon and who is familiar with the type of effort needed for typical City projects. Dave worked with City staff and led the AP team to complete several projects, including the ongoing Jewett Water Main Improvements project, and has a good understanding of the City's infrastructure.

Jake Hollopeter, P.E., will be the Principal-In-Charge and serve as the secondary contact to the City. Jake's main roles will be to assure project staffing commitments and to be available for any sensitive discussions with City staff should the need arise. Although Jake will not have a technical role in most of the City's projects, he will be responsible for overseeing and ensuring client satisfaction for these projects.

Abbreviated resumes for the key staff identified in the organizational chart, as well as other staff members available to assist on City projects, are presented on the following pages.



Qualifications of Key Personnel

Dave Jepsen, P.E.

Education: MS, Civil Engineering; BS, Chemical Engineering

Experience: Dave is a highly knowledgeable water and wastewater engineer with experience in all phases of the planning, funding, design, and construction process, from preparing planning studies to design and construction administration. Dave has over 28 years of service and has completed numerous planning documents, designs, rates studies, and engineering assessments for dozens of public and private clients in developing water and wastewater system improvements.

Jake Hollopeter, P.E., Vice President

Education: MS, Civil Engineering; BS, Civil Engineering

Experience: Jake is the Vice President of AP and the manager of our Walla Walla Office. Jake has over 20 years of experience obtaining funding, coordinating with regulatory agencies, and providing planning, design, and construction engineering in support of municipal water and wastewater projects. Jake's experience includes preparation of design plans and specifications, engineering reports, general sewer and facility plans, and Operation and Maintenance Manuals.

Eric Zitterkopf, P.E.

Education: BS, Civil Engineering

Experience: Eric is a structural designer and project engineer with 22 years of experience. Since joining AP in 2001, Eric has managed over three dozen federally-funded projects for local agencies. He has designed and load rated over 60 bridges of various types and designed numerous strengthening repairs on concrete and timber bridges. He is familiar with agency processes that go along with bridge and road work. He is also a certified bridge condition inspector.

Adam Schmidtgall, P.E., Board Member

Education: BS, Civil Engineering

Experience: Adam is a project engineer with 13 years of experience and a member of the AP Board of Directors. Adam's responsibilities include planning, design, construction observation, and construction administration of water and wastewater distribution systems, stormwater management systems, and streets. Adam has also assisted in the design of bridge and stream restoration projects, and is part of the AP levee inspection team.

John Wells, P.E.

Education: MS, Civil Engineering; BS, Biological Systems Engineering

Experience: John is a project engineer with 18 years of experience with an emphasis on planning and designing water, wastewater, stormwater, and flood reduction projects. His work includes piping systems, pumps, reservoirs, open channel water systems, wetlands, and storage ponds and lagoons. John is also a recognized expert in inspection, repair, and certification of flood conveyance projects and levee systems.

Brian Hansen, P.E.

Education: BS, Civil Engineering

Experience: Brian joined AP in 2017 as a project engineer where he works on a variety of site civil and utility projects. Brian has 10 years of experience focusing on all aspects of site civil projects from development of the initial scope and budget through the completion of the design and construction elements.

Kate Thompson, P.E.

Education: MS, Engineering and Technology Management; BS, Civil Engineering

Experience: Kate is a project engineer with experience on a variety of utility projects, including water line extensions, sewer main extensions, storm drainage facility installation, and retrofitting existing stormwater facilities to meet current pretreatment requirements. Kate is also experienced in providing and coordinating public involvement for local projects through design and construction phases to ensure the public stays well informed.

Bill Vixie, P.E.

Education: BS, Civil Engineering

Experience: Bill has 16 years of experience that includes assisting with Water System Plans, small water system management programs, water system modeling, and coordinating with funding and regulatory agencies. Bill performs design and construction engineering for new and updated booster pump stations, water storage reservoirs, chlorination systems, water distribution systems, water transmission lines, and residential and commercial water service connections and metering systems.

Erik Green, P.L.S.

Education: AAS, Surveying Engineering Technology

Experience: Erik is the Survey Manager in our Walla Walla office and has nearly two decades of field and office experience. Erik's multiple roles within the company include overseeing the survey crew, coordinating survey crew assignments with both internal design project needs and construction contractor schedules, assessing overall survey staffing and equipment needs, preparing easement descriptions, reviewing survey staff work products, and reviewing project plans to provide bids to contractors.

Stephanie O'Brien, R.P.A.

Education: MA, Social Sciences, Emphasis in Archaeology; BA, Anthropology and Literature

Experience: Stephanie is a principal investigator for archaeological survey, testing, excaVation, and monitoring projects. She has 11 years of experience in the field of archaeology including fieldwork, cultural resource technical report writing, project management, lab management, and artifact analysis and curation. Stephanie specializes in historic archaeology and has substantial experience recording a variety of historic sites, determining National Register of Historic Places eligibility, and analyzing historic artifacts.

Dana Kurtz

Education: MA, Business Administration; BA, Environmental Studies

Experience: Dana is an environmental scientist with over 10 years of experience in environmental consulting and research. Dana conducts environmental studies in aquatic and upland environments, and completes environmental consultation and permitting requirements for engineering and habitat restoration projects. Dana's environmental compliance experience includes NEPA/SEPA, ESA Section 7 consultation, and Clean Water Act Section 10 and 404 permitting.

Additional Staff Resources

Discipline	Staff
Civil Engineers	24
Surveying	9
Environmental	3
Engineering Technicians	8
Drafting Technicians	7
Project Representatives	10
GIS Technicians	3
Archaeologists	4
Administration	22
Total	**90**

AP has a staff of 90 professionals, including civil engineers, environmental specialists, land surveyors, engineering technicians, drafting technicians, and other support staff.

Our team has full capabilities to provide professional services for a variety of projects.

Client References

The following are several client references who can attest to the quality of AP's work, dedication to long term relationships, and history of keeping commitments. We encourage you to contact these people to verify the information included in this Statement of Qualifications.

Monte Puymon P.E.,
Transportation Engineer
City of Walla Walla
15 N 3rd Ave
Walla Walla, WA 99362
(509) 524-4513
mpuymon@wallawallawa.gov

Hallie Tuck
Public Works Director
City of Connell, WA
P.O. Box 1200
Connell, WA 99326
509-234-6431
htuck@connellwa.org

Trina Cole
City Administrator
City of Dayton, WA
111 South First Street
Dayton, WA 99328
509-382-2361
tcole@daytonwa.com

Linda Hall
City Manager
City of Milton-Freewater, OR
P.O. Box 6
Milton-Freewater, OR 97862
541-938-5531
linda.hall@milton-freewater-or.gov

Jessica Herron
Public Works Director/Assistant Clerk-Treasurer
City of Kahlotus
P.O. Box 100
Kahlotus, WA 99335
509-282-3372
cityofkahlotus@hotmail.com

Brian Hille
Mayor
Town of Washtucna, WA
165 South Main Street
Washtucna, WA 99371
509-646-3253
tucnamayor@gmail.com

Randy Hinchliffe
City Administrator
City of Waitsburg, WA
P.O. Box 35
Waitsburg, WA 99361
509-337-6371
rjhinch@gotvc.net

John Lasen
Public Works Director
City of Royal City, WA
P.O. Box 1239
Royal City WA 99357
(509) 346-2263
rcpw@royalcitywa.org

"Two aspects I really appreciate in AP is their integrity and customer service. It is rare that a project is completed without challenges in design, construction, or interaction with businesses and the general public. When these complications arise, AP teams to resolve them collaboratively with the City. I'm comfortable that AP understands and will hold true to the City's mission, vision and values in their design, and in their interactions with the general public and the contractor. I trust them as ambassadors for the City."

-Monte Puymon, P.E.
Transportation Engineer, City of Walla

Item Attachment Documents:

8. Personal Services Contract - Anderson Perry & Associates - 14-Inch Main Line Replacement Project
   a. Presentation and Discussion (Exhibits A and B will be added)
   b. Action

AGENDA MEMO

Needs Legal Review: Yes
Council Meeting Date: April 1, 2020
Agenda Item: Personal Services Contract – 14-Inch Main Line Replacement Project – Anderson Perry & Associates Inc.

Action Required
Authorize the Mayor to sign Personal Services Contract with Anderson Perry & Associates, Inc. for engineering services related to the 14-Inch Main Line Replacement Project.

Motion
Move to authorize the Mayor to sign Personal Services Contract with Anderson Perry & Associates Inc. for engineering services related to the 14-Inch Main Line Replacement based on the Scope of Work and Estimated Cost not to exceed $750,000.

Explanation of Issue
The City of White Salmon requested Statements of Qualifications from engineering firms for the 14-Inch Main Line Replacement project separately from the general engineering request due to the scope and size of the project. Six companies submitted Statements of Qualifications. The SOQ's were each evaluated and scored.

Based on the evaluations and rankings of the companies, staff finds that Anderson Perry & Associates is a highly qualified firm to provide the engineering services the city needs for the 14-Inch Main Line Replacement project.

The City has a Public Works Trust Fund loan available up to $750,000 for the design, engineering and permitting of this project.

Staff Recommendation
Staff recommends the city council authorize the Mayor to sign a Personal Services Contract with Anderson Perry & Associates, Inc. for the for engineering services related to the 14-Inch Main Line Replacement project..

CITY OF WHITE SALMON
PERSONAL SERVICES CONTRACT

This contract is between the City of White Salmon and Anderson Perry & Associates, Inc. hereafter called Contractor. City's Contract Administrator for this contract is Patrick Munyan, City Administrator.

Effective Date and Duration
This contract shall become effective on the date at which every party has signed this contract. This contract shall expire, unless otherwise terminated or extended on December 31, 2021.

Statement of Work
(a) This contract is for engineering services related to the City's 14-Inch Water Main Replacement Project.
(b) Work will be performed per Exhibit A, Scope of Work.

Consideration
(a) City agrees to pay Contractor for time, materials and expenses incurred in the performance of duties as identified in each approved task order/scope of work.
(b) Monthly invoices shall be submitted to the City itemizing all time, materials and expenses incurred as planning consultant to the City, breaking down such expenses by project. Costs for time, materials and expenses shall be pursuant to Anderson Perry & Associates, Inc.'s fee schedule and estimated cost as provided in Exhibit B.

Amendments
The terms of this contract shall not be waived, altered, modified, supplemented or amended in any manner whatsoever except by written instrument signed by both parties.

Terms and conditions listed on page two

CONTRACTOR DATA, CERTIFICATION, AND SIGNATURE

Name (please print): Anderson Perry & Associates Inc.
Federal Tax ID No:

Address: PO Box 1107
La Grande, OR 97850
Phone: 541-963-8309

Citizenship: Non resident alien	☐	Yes	X	No
Business Designation (Check one):	☐	Individual	☐	Sole Proprietorship
	☐	Partnership	☐	Estate/Trust
	X	Corporation	☐	Public Service Corporation
	☐	Governmental/Nonprofit		

Payment information will be reported to the IRS under the name and taxpayer ID number provided above. Information must be provided prior to contract approval. Information not matching IRS records could subject Contractor to 31 percent backup withholding.

I, the undersigned: agree to perform work outlined in this contract in accordance to the terms and conditions (listed on the front and backside and made part of this contract by reference) and the statement of work made part of this contract by reference hereby certify under penalty of perjury that I/my business am not/is no in violation of any Washington tax laws; and thereby certify I am an independent contractor. As noted in No. 21 of the Standard Contract Provisions, where required for Federal funding, Contractor certifications and signatures apply to Exhibits C and D.

Approved by the Contractor: _____ _____
Signature Date

Approved by the City: _____ _____
Marla Keethler, Mayor Date

Approved by Council: _____
Date

STANDARD CONTRACT PROVISIONS FOR PERSONAL SERVICES (NON-PERS MEMBERS)

1. Retirement System Status

Contractor is not a contributing member of the Public Employees' Retirement System and is responsible for any federal or state taxes applicable to any comprehensive or payments paid to contractor under this contract. Contractor is not eligible for any benefits from these contract payments of federal Social Security, unemployment insurance, or workers compensation except as a self-employed individual.

2. Effective Date and Duration

The passage of the contract expiration date (as recorded on reverse side) shall not extinguish, prejudice or limit either party's right to enforce this contract with respect to any default or defect in performance that has not been cured.

3. Government Employment Status

If this payment is to be charged against federal funds, Contractor certifies it is not currently employed by the federal government.

4. Subcontractors and Assignment

Contractor shall not enter into any subcontractors for any other work scheduled under this contract without prior written consent of the City. Subcontractors exceeding $20,000 in cost shall contain all required provisions of the prime contract.

5. Dual Payment

Contractor shall not be compensated for work performed under this contract by any other municipality of the State of Washington.

6. Funds Available and Authorized

City certifies at the time of contract execution that sufficient funds are available and authorized for expenditure to finance costs of this contract within the City's appropriation or limitation.

7. Termination

(a) This contract may be terminated by mutual consent of both parties, or by the City upon 30 days' notice in writing and delivered by certified mail or in person.

(b) City may terminate this contract effective upon delivery of written notice to the Contractor, or at such later date as may be established by the City, under any of the following conditions:

(i) If City funding from federal, state or other sources is not obtained and continued at levels sufficient to allow for the purchase of the indicated quality of services. The contract may be modified to accommodate a reduction in funds.

(ii) If federal or state regulations or guidelines are modified, changes or interpreted in such away that the services are no longer allowable or appropriate for purchase under this contract or are no longer eligible for the funding proposed for payments authorized by this contract.

(iii) If any license or certificate required by law or regulation to be held by the Contractor to provide the services required by this contract is for any reason denied, revoked or no renewed. Any such termination of this contract under subparagraphs 7(a) or 7(b) shall be without prejudice to any obligations or liabilities of either party already accrued prior to such termination.

(c) The City may terminate the whole or any part of this agreement by written notice of default (including breach of contract) to the Contractor.

(i) If the Contractor fails to provide services called for by this contract within the time specified herein or any extension thereof, or

(ii) If the Contractor fails to perform any of the other provisions of this contract, or so fails to pursue the work as to endanger performance of this contract in accordance with its terms, and after receipt of written notice from the City, fails to correct such failures within 10 days or such other period as the City may authorize.

The rights and remedies of the City provided in the above clause related to defaults (including breach of contract) by the Contractor shall not be exclusive and are in addition to any other rights and remedies provide by law or under this contract.

8. Access to Records

City, the Secretary of State's Office of the State of Washington, the federal government, and their duly authorized representatives shall have access to the books, documents, papers and records of the Contractor directly pertinent to the specific contract for the purpose of making audit, examination, excerpts and transcripts of the period of three (3) years after final payment. Copies of applicable records shall be made available upon request. Payment for cost of copies is reimbursable by City.

9. State Tort Claims Act

Contractor is not an officer, employee or agent of the State or City as those terms are used in RCW 4.96.020.

10. Compliance with Applicable Law

Contractor shall comply with all federal, state and local laws and ordinances applicable to the work under this contract.

11 Indemnification

(a) Indemnity-Claims for Other than Professional Liability

Contractor shall defend, save and hold harmless the City their officers, agents and employees form all claims, suites or actions of whatsoever nature, including international acts resulting from or arising out of the Contractor or its subcontractors, agents or employees under this agreement. The Contractor waives, with respect to the City, its immunity under industrial insurance, Title 51 RCW. This waiver has been mutually negotiated by the parties. This indemnification shall survive the expiration or termination of this Agreement.

(b). Indemnity-Claims for Professional Liability

Contractor shall defend, save and hold harmless the City, their officers, agents and employees, from all claims, suits or actions arising out of the professional negligent acts, errors or omissions of Contractor or its subcontractors and subconsultants, agents or employees in performance of professional services under this agreement.

12. Insurance

(a) Liability Insurance. Contractor shall maintain occurrence form commercial general liability and automobile liability insurance for the protection of he contractor, the City, its commissioners, employees, and agents. Coverage shall include personal injury, bodily injury, including death, and broad form property damage, including loss of use of property, occurring in the course of or in any way related to Contractor's operations, in an amount not less than $1,000,000.00 combined single limit per occurrence. Such insurance shall name the City as an additional insured with a coverage endorsement at least as broad as ISO CG 20 10 10 01.

(b) Workers' Compensation Coverage. Contractor certifies that Contractor has qualified for State of Washington Workers' Compensation coverage for all Contractor's employees who are subject to Washington's Workers' Compensation statute, either as a carrier-insured employer as provided by RCW Chapter 51 or as a self-insured employer.

(c) Certificates. Within 10 calendar days after full execution of this contract, Contractor shall furnish the City with certificates evidencing the date, amount, and type of insurance required by this contract. All policies shall provide for not less than thirty (30) days' written notice to the City before they may be canceled.

(d) Primary Coverage. The coverage provided by insurance required under this contract shall be primary, and shall not seek contribution from any insurance or self-insurance carried by the City.

13. Ownership of Work Product

All work products of the Contractor which result from this contract are the exclusive property of the City.

14. Nondiscrimination

Contractor agrees to comply with all applicable requirements of federal civil rights and rehabilitation statutes, rules and regulations. Contractor also shall comply with the Americana with Disabilities Act of 1990 (Pub L No. 101-336) including Title II of that Act, and all regulations and administrative rules established pursuant to that law.

15. Successors in Interest

The provisions of this contract shall be binding upon and shall inure to the benefit of the parties hereto, and their respective successors and assigns.

16. Execution and Counterparts

This contact may be executed in several counterparts, each of which shall be an original, all of which shall constitute but one and the same instrument.

17. Force Majeure

Neither party shall be held responsible for delay or default caused by fire, civil unrest, labor unrest, acts of God and war which is beyond such party's reasonable control. Each party shall, however, make all reasonable efforts to remove or eliminate such a cause of delay or default and shall, upon the cessation of the cause, diligently pursue performance or its obligations under the contract.

18. Severability

The parties agree that if any terms or provisions of this contract is declared by the court of competent jurisdiction to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the contract did not contain the particular terms or provisions held to be invalid.

19. Errors

The contractor shall perform such additional work as may be necessary to correct errors in the work required under this contract without undue delays and without additional cost.

20. Waiver

The failure of the City to enforce any provisions of the contract shall not constitute a waiver by the City of that or any other provision.

21. Other Requirements

When federal funds are involved in this contract, Contractor Debarment and Non-Collusion certifications and signatures apply to Exhibit C and D.

22. Governing Law

The provisions of this contract shall be construed in accordance with the provisions of the laws of the State of Washington. Any action or suit involving any question arising under this contract must be brought in the appropriate court of the state of Washington, Skamania County.

23. Attorney Fees

The prevailing party shall be entitled to reasonable attorney fees at trial and on appeal in an action brought with respect to this contact.

24. Merger Clause

THIS CONTRACT AND ATTACHED EXHIBITS CONSTITUTES THE ENTIRE AGREEMENT BETWEEN THE PARTIES. NO WAIVER, CONSENT, MODIFICATION OR CHANGE OF TERMS OF THE CONTRACT SHALL BIND EITHER PARTY UNLESS IN WRITING AND SIGNED BY BOTH PARTIES. SUCH WAIVER, CONSENT, MODIFICATION OR CHANGE IF MADE, SHALL BE EFFECTIVE ONLY IN SPECIFIC INSTANCES AND FOR THE SPECIFIC PURPOSE GIVEN. THERE ARE NO UNDERSTANDINGS, AGREEMENTS OR REPRESENTATIONS, ORAL OR WRITTEN, NOT SPECIFIED HEREIN REGARDING THIS CONTRACT. CONTRACTOR, BY THE SIGNATURE OF ITS AUTHORIZED REPRESENTATIVE, HEREBY ACKNOWLEDGES THAT HE/SHE HAS READ THIS CONTRACT, UNDERSTANDS IT AND AGREES TO BE BOUND BY ITS TERMS AND CONDITONS.

EXHIBIT A

CITY OF WHITE SALMON, WASHINGTON
TRANSMISSION MAIN IMPROVEMENTS PROJECT
DESIGN ENGINEERING SERVICES

SCOPE OF WORK

PROJECT DESCRIPTION AND BACKGROUND

This project is part of the City of White Salmon's (OWNER) ongoing efforts to improve water use efficiency and water system resiliency and includes the replacement of water mains and appurtenances in portions of the Transmission Main Improvements Project as shown on Figure 1 and generally described as Projects TR-1, TR-2, TR-3, and TR-4 in the City's Water System Plan (April 2014).

The project consists of replacing approximately 26,300 linear feet (approximately 5 miles) of the existing 14-inch diameter transmission main with larger diameter pipe that is more accessible for inspection and maintenance. The proposed project scope includes designing two distinct transmission segments: 1) upper end and 2) lower end. Between the upper and lower end of the proposed project is an existing 16-inch diameter transmission main that was installed in 2011. Separate design documents would be prepared for the lower and upper transmission mains with the intention of constructing each segment as a separate project.

In general, the services for this portion of the project will include, but not be limited to, the following key components and deliverables:

- Submittal of Monthly Invoices to the OWNER for Services Performed
- Coordination/Communication with Adjacent Property Owners/Residents as Needed
- Topographic Survey and Right-of-Way Determination – Compatible with AutoCAD Civil 3D 2020
- Subsurface Investigations
- Utility Locate Services
- State Environmental Policy Act (SEPA)/National Environmental Policy Act (NEPA) Documentation
- Historical and Cultural Resources Review
- Coordination with Washington State Department of Natural Resources (DNR), Washington State Department of Transportation (WSDOT) and private property owners
- WSDOT Permitting and Variance Request
- 50 Percent Conceptual Design Submittal with Specifications and Cost Estimate (for each segment)
- 90 Percent Design Submittal with Specifications and Cost Estimate (for each segment)
- Complete Final Plans, Specifications, and Estimate (PS&E) for the project (for each segment)
- Assist the Owner in applying for project funding from U.S. Department of Agriculture Rural Development (RD) through its "RD Apply" web-based application, and Public Works Board (PWB) through ZoomGrants.
- Assist the Owner in public outreach on the proposed new transmission mains
- Supplemental if Requested – Right-of-Way Acquisition, Right-of-Way Certification, Bidding and Award Assistance, Construction Management and Administrative Services, On-Site Construction Observation, Materials Testing, Construction Staking, Cultural Resource Monitoring During Construction, Curation of Artifacts, or other Services Requested by the OWNER

DUTIES AND RESPONSIBILITIES OF ANDERSON PERRY & ASSOCIATES, INC. (CONSULTANT)

TASK 1 - PROJECT ADMINISTRATION

The CONSULTANT shall oversee project tasks and coordinate with OWNER representatives to manage the scope, schedule, and budget for the engineering services.

1.1 Contract Administration, Invoicing, and Progress Reports

1. Prepare and submit monthly invoices. Each invoice will include: the date period covered by invoice, number of hours worked with billing rates shown, expenses and associated markups, total cost for labor and expenses, subconsultant fees, and a total amount summarizing labor, expenses, and subconsultant fees.

2. Prepare a brief Project Status Report to accompany the monthly invoices. The Project Status Report will include: the date period covered by the report, a brief summary of work performed, and any action items needed from the OWNER for project delivery.

3. Project Management. General coordination with the OWNER, subconsultants, other consultants, and stakeholders as well as ongoing monitoring of tasks and resources.

4. Maintain all contract-required documentation. Provide copies of project files and records to the OWNER for audits and public information requests. All final documents shall be provided in electronic format as requested.

Deliverables

☐ Monthly Invoices and Project Status Reports
☐ Project Documentation

1.2 Meetings

Various meetings are assumed that will require the CONSULTANT to prepare information, participate, and document outcomes. These anticipated meetings are:

- Project kickoff meeting with OWNER staff and others (to be determined in consultation with the OWNER) to review and modify the CONSULTANT's draft project schedule/plan.
- Project design meetings (up to three meetings) to discuss and resolve project issues as they arise. These meetings are anticipated to be a combination of phone conference calls and in-person meetings depending on the agenda.
- Meetings with DNR and WSDOT staff to review DNR and WSDOT requirements for the project (up to three meetings).

1.3 Funding Assistance

The CONSULTANT will assist the OWNER in pursuing funding for constructing the Transmission Main Improvements Project from RD and/or PWB.

TASK 2 - DATA COLLECTION

2.1 Topographic Surveying and Base Mapping

The Consultant will provide the data needed to fully map the project area. Design surveying services will include five primary elements: Records research, survey control, topographic mapping, rights-of-way retracement and monument locations, and base mapping. Each element is generally described below.

1. **Records Research** – Right-of-way, plats, short plats, surveys, and ownership records will be researched at the Klickitat County Courthouse and Surveyor's office.

2. **Survey Control** – Survey control will be placed throughout the project, and existing survey monumentation will be tied into the survey control. The field crew will bring the City's horizontal and vertical control onto the site utilizing RTK GPS surveying techniques (where possible), thus establishing primary control points along the route. A precise digital level loop will be run from a City benchmark and through all the primary control points. Once topographic mapping commences, it may be necessary to set secondary control points or "jump hubs" to gather additional information that the primary control is unable to see. A digital level will also be run to all jump hubs. The project will conform to existing WSDOT available horizontal and vertical control.

3. **Topographic Mapping (Design Survey)** – All relevant roadway topographic and utility features will be identified to the right-of-way and, where needed, approximately 25 feet beyond the right-of-way (as long as landowner permission is granted). This survey will contain adequate data to prepare a topographic model for use in water main design. The underground utility notification center will be contacted prior to the field crew arrival, and all paint marks will be located. All overhead utilities and the invert elevations on all visible catch basins and manholes will be shown on the survey. For all storm and sanitary lines, the next manhole will also be located.

   The Consultant will contract with a private utility locator to provide GPR services (as needed) to locate private utilities within the project area and supplement the design survey.

4. **Rights-of-Way Retracement and Monument Locations** – All centerline monuments and property corners will be searched for and tied, if found. This scope assumes access will be granted by all landowners. In areas where right-of-way acquisition is required, exact parcel line locations will need to be determined and shown on the maps.

5. **Base Mapping** – The field data will be reduced and the design survey base map will be completed. A surface will be created and contours shown in the design survey. The right-of-way will be determined from existing records and found monumentation and will be shown on the design survey. A separate stand-alone design survey map will not be prepared.

The Consultant will conduct site visits and perform field and office verification of survey data represented in the project base map.

Deliverable

☐ Survey Base Map Including Right-of-Way Documentation

2.2 Subsurface Investigation

The CONSULTANT will perform subsurface investigations along the water main alignment by utilizing a drilling subconsultant to gather information on the existing hot mix asphalt and base rock thickness, the presence of unsuitable soils, and the depth to rock. The CONSULTANT will characterize soil samples from the investigations and incorporate the results of the subsurface investigations into the Contract Documents. Specific work elements will include coordinating with the OWNER and area utilities to select appropri

drilling locations, arranging a drilling company to perform the borings, and observing the borings. Traffic control will be provided by the OWNER.

Deliverable

☐ Geotechnical Report

2.3 Utility Locate Services

Utility coordination efforts will be supplements by the use of ground penetrating radar (GPR), where needed. GPR will be used along the project corridor to assist with the accurate locating of existing utilities and minimizing the likelihood of encountering unknown utilities during construction. Traffic control necessary to complete the GPR work will be provided by the OWNER.

TASK 3 - PERMITTING

3.1 SEPA or NEPA Documentation

The CONSULTANT will prepare a draft SEPA or NEPA for OWNER review. The decision to prepare SEPA or NEPA documentation will be based on which agency provides funding for construction. The CONSULTANT will incorporate the OWNER's comments and prepare a final SEPA/NEPA for agency submittal.

The OWNER will pay all fees associated with processing permit applications. One electronic (PDF) and one paper copy of both the draft and final documents will be provided.

Deliverables

☐ Draft SEPA/NEPA
☐ Final SEPA/NEPA

3.2 Historical and Cultural Resources Review

The CONSULTANT will initiate the historical and cultural documentation process and coordinate these efforts with funding agency guidelines. An EZ-1 form will be prepared to initiate consultation. Based on the results of the consultation, a Cultural Resources Report and an Inadvertent Discovery Plan may be prepared for approval by the Washington State Department of Archaeology and Historic Preservation (DAHP) and tribal agencies.

The following tasks related to the cultural/historical resources review are NOT included as part of this scope but may be added by amendment:

- Curating of artifacts discovered during field work.
- Any additional work beyond that specifically described that may be required by the state agencies involved. This work could include conducting archaeological monitoring, performing archaeological testing, and/or mitigation.

The OWNER will pay any fees associated with processing permit applications. One electronic (PDF) and one paper copy (draft and final) of the documentation will be provided. Copies of all approvals will also be provided to the funding agencies for their records.

Deliverables

☐ DAHP EZ-1 Form
☐ Cultural Resources Report (if required)
☐ Inadvertent Discovery Plan

3.3 WSDOT Utility Permit Application

The CONSULTANT will prepare a WSDOT Utility Permit Application for the section of the proposed water line that is within the WSDOT right-of-way. The OWNER shall be responsible for any WSDOT permit fees.

3.4 WSDOT Variance Request

The CONSULTANT will submit variance requests to WSDOT for approval of the installation of the new water main within the SR 141 roadway prism using open cut construction and at a pipe cover shallower than 60 inches. The OWNER shall be responsible for any WSDOT permit fees.

3.5 WSDOT Permit for Subsurface Investigation

The CONSULTANT will prepare a WSDOT Permit for Subsurface Investigation application to obtain authorization to conduct subsurface investigations within the WSDOT right-of-way. The OWNER shall be responsible for any WSDOT permit fees.

TASK 4 - DESIGN

4.1 Utility Coordination

The CONSULTANT will research and identify existing utilities in the project area that may be affected. The CONSULTANT will contact utilities and request their verification of location data and update utility information in the survey base map if necessary based on utility reviews. The CONSULTANT will work with the OWNER and utility provider to coordinate any required utility relocations and will document all utility coordination efforts.

Assumptions

- The OWNER will provide the CONSULTANT with utility plans, GIS, and other supporting documents for OWNER utilities potentially affected by this project.
- The CONSULTANT will complete standard design locates and a reasonable amount of field verification. Utility design location fees beyond standard design locates, if any, are not included in the CONSULTANT's costs and will be paid by the OWNER if required.

Deliverable

☐ Documentation of Meetings with Utilities to Determine Locations, Potential Conflicts, and Mitigation Measures

4.2 Review Water Demand and Perform Hydraulic Modeling

From water demand data provided by the OWNER, the CONSULTANT will compile and summarize current water demand for the last three years (2017-2019). Current water demand will be calculated as average daily demand (ADD), maximum month demand (MMD), maximum daily demand (MDD), and peak hourly demand (PHD) using the Washington State Department of Health Water System Design Manual (2019). The calculated current water demand values will be used with projected 10- and 20-year projected growth estimates of the City's water system to estimate future water demand values (i.e., ADD, MMD, MDD, and PHD) in 2030 and 2040. The current and projected water demand will be used with hydraulic modeling to verify appropriate pipe diameter size to handle future water demand.

The CONSULTANT will input the current and projected water demand and any pertinent OWNER staff observations into the model and run the model with this updated data to determine the Transmission Main pipe size needed to meet current and projected water demand.

Deliverable

□ Technical Memorandum Report summarizing the water demand and hydraulic modeling results.

4.3 Design Plans

The CONSULTANT will design water mains and appurtenances for the Transmission Main Improvements Project. Distribution lines along with water services, meters, fire hydrants, and valves will be replaced and added as necessary.

The CONSULTANT will prepare design plan sheets for the OWNER to review. The plans will evolve with each submittal. The following is the intended representation for the approximate design levels:

- The 50 percent plans will have limited detail information but will represent the intent of the project. Two 11x17 paper copies and a PDF electronic copy will be provided.
- The 90 percent submittal will incorporate OWNER comments from the 50 percent plans and include detailed information with all potential work call outs. The intent of the 90 percent submittal is to present information accurately and completely. CADD cleanup work will still be evident. Two 11x17 paper copies and a PDF electronic copy will be provided.
- The final submittal will incorporate any remaining OWNER comments and be a bid-ready document stamped and signed by the responsible engineer.

Assumption

The OWNER will provide the CONSULTANT with available water plans and records to identify water main locations as well as meter and service locations.

Deliverables

☐ 50 Percent Plans (for each segment)
☐ 90 Percent Plans (for each segment)
☐ Final Bid-Ready Plans (for each segment)

4.4 Specifications

The CONSULTANT will develop detailed project specifications using either the CONSULTANT's master specifications or the latest approved (2020) WSDOT/American Public Works Association (APWA) Standard Specifications for Road, Bridge, and Municipal Construction along with General Special Provisions (GSP). Two paper copies and a PDF electronic copy will be provided during each review phase.

Deliverables

☐ Draft Specifications – 50 Percent Submittal (for each segment)
☐ Draft Specifications – 90 Percent Submittal (for each segment)
☐ Final Bid-Ready Documents – Final Submittal (if funding agency is identified/known)

4.5 Engineer's Opinion of Probable Costs

The CONSULTANT will develop an initial Opinion of Probable Costs based on preliminary design quantities. Estimates will be compared to historic bid records of OWNER projects and WSDOT records. With each submittal, the quantities and unit bid costs will be updated as necessary. As the project details evolve, the need for contingency will be reduced.

Deliverables

- ☐ Preliminary Opinion of Probable Costs 50 Percent Submittal (for each segment) – (20 percent contingency)
- ☐ Preliminary Opinion of Probable Costs 90 Percent Submittal (for each segment) – (15 percent contingency)
- ☐ Final Engineer's Estimate Based on OWNER's Final Review (for each segment) – (10 percent contingency)

4.6 Quality Assurance/Quality Control (QA/QC)

The CONSULTANT will provide QA/QC for all design work in accordance with the CONSULTANT's QA/QC standards. The CONSULTANT will provide senior level design and construction personnel to review plan submittals and provide technical support.

Deliverables

- ☐ QC Documentation for Design Work – 90 Percent Submittal (for each segment)
- ☐ QA Oversight for Final Bid Documents (for each segment)

4.7 Bid Documents

The CONSULTANT will develop detailed bid documents using either the CONSULTANT's master specifications or the latest approved (2020) WSDOT/APWA Standard Specifications for Road, Bridge, and Municipal Construction along with GSPs. Two paper copies and a PDF electronic copy of the final bid documents will be provided to the OWNER.

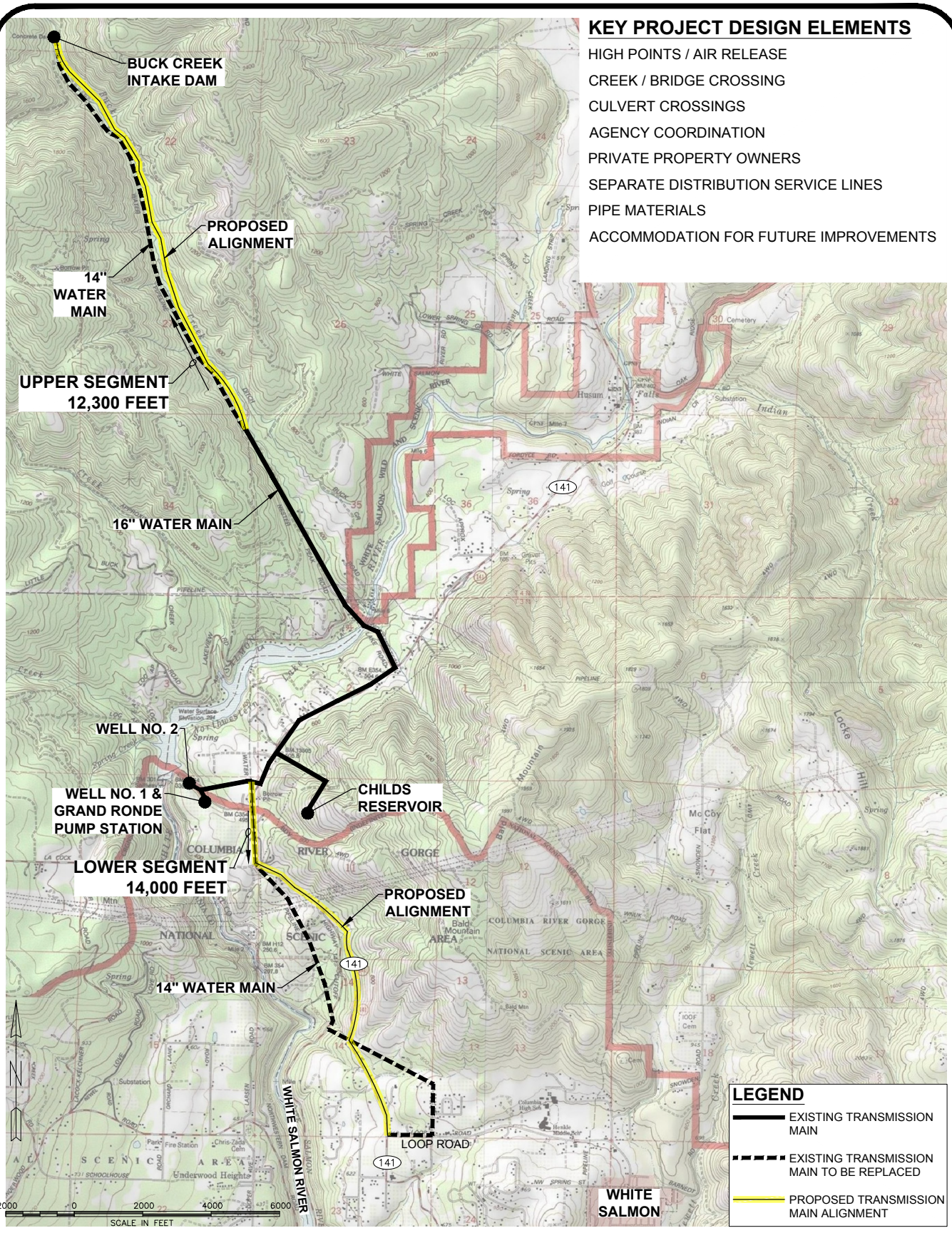
Deliverables

- ☐ Bidder's Packet
- ☐ Contract Documents
- ☐ Construction Plans

PROJECT ASSUMPTIONS

The following assumptions apply to this Scope of Work:

- Preliminary and final plans for review will be produced on 11x17 sheets.
- One set of advertisement-ready PS&E plans will be provided on 11x17 sheets.
- This project will be designed for construction under a two PS&E bid contracts (one for each segment).



anderson perry & associates, inc.

CITY OF WHITE SALMON, WASHINGTON

EXISTING AND PROPOSED TRANSMISSION MAIN ALIGNMENTS

FIGURE 1

anderson perry & associates, inc.
engineering · surveying · natural resources

EXHIBIT B
CITY OF WHITE SALMON, WASHINGTON
TRANSMISSION MAIN IMPROVEMENTS PROJECT
DESIGN ENGINEERING SERVICES

Classification	Estimated Hours		Rate		Cost
Senior Engineer VI-VIII	150	$	190.00	$	28,500
Senior Engineer IV-V	900	$	180.00	$	162,000
Senior Engineer I-III	1,300	$	160.00	$	208,000
Project Engineer III-V	500	$	145.00	$	72,500
Staff Archaeologist I	250	$	65.00	$	16,250
Senior Archaeologist I-II	250	$	110.00	$	27,500
Professional Surveyor IV-V	150	$	160.00	$	24,000
Survey Crew Chief I-III	200	$	90.00	$	18,000
Survey Technician I-III	200	$	75.00	$	15,000
Technician V-VII	600	$	100.00	$	60,000
Senior Technician II-V	500	$	110.00	$	55,000
			Subtotal	**$**	**686,750**
DIRECT COSTS AND REIMBURSABLES:					
			Mileage, Equipment, Lodging, Per Diem, Etc.	**$**	**9,350**
Subtotal (Consultant Total):				**$**	**696,100**
Subconsultant Costs:					
			Drilling Subcontractor	**$**	**39,000**
			GPR Subcontractor	**$**	**10,000**
			Subconsultant Markup (10%)	**$**	**4,900**
				$	**53,900**
TOTAL PROJECT DESIGN BUDGET:				**$**	**750,000**

CITY OF WHITE SALMON, WASHINGTON

14-Inch Water Main Replacement/Improvements

STATEMENT OF QUALIFICATIONS

Contact:

Jake Hollopeter, P.E., Vice President
214 E. Birch Street
Walla Walla, Washington 99362
(509) 529-9260
jhollopeter@andersonperry.com

anderson perry & associates, inc.

engineering · surveying · natural reasour

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engineering • surveying • natural resources

February 21, 2020

City of White Salmon
P.O. Box 2139
White Salmon, Washington 98672

ATTN: Pat Munyan, Public Works Director/City Administrator

RE: **14-Inch Water Main Replacement/Improvements Project**

Dear Pat and Selection Committee:

Enclosed for your consideration is our Statement of Qualifications to provide design services for the City of White Salmon's 14-inch Water Main Replacement/Improvements Project. Thank you for taking time to talk with us about this upcoming project. Through our conversation and our experience on several similar projects, we understand the City's key design expectations and anticipated project challenges.

Our previous experience on the ongoing Jewett Water Main Replacement project, coupled with our extensive involvement with the City in the project planning and efforts to secure Washington State Department of Commerce - Public Works Board funding for this project, brings unmatched knowledge to this design effort. We already understand the likely challenges facing this project and how best to resolve them.

We have assembled an experienced team that can address all expected project needs in-house and has worked together on other similar successful projects. In addition to our staff, we have teamed with Epic Land Solutions, Inc. (Epic) for right-of-way services should they be required. AP and Epic have teamed together on several previous projects. We are confident we can deliver a sound, sensible, and cost-effective design package for the City.

Please let us know if you have any questions or need additional information. Thank you for considering Anderson Perry & Associates, Inc.

ANDERSON PERRY & ASSOCIATES, INC.

By Jake Hollopeter
Jake Hollopeter, P.E.
Vice President

JH/ct
Enclosure
S:\Proposal\White Salmon\2020 14-inch Water Main Replacement & Improvements\Cover Letter.docx









Who We Are

AP's Walla Walla Office Contact Information

214 East Birch Street
P.O. Box 1687
Walla Walla, WA 99362
(509) 529-9260
(509) 529-8102 - fax
www.andersonperry.com

Our mission is to provide solid engineering and sound solutions accompanied by exceptional relationship-oriented service, which has given our firm a reputation for establishing steadfast partnerships.

Anderson Perry & Associates, Inc. (AP) is a full-service civil engineering, surveying, and natural resources firm with 90 employees and offices in Walla Walla, Washington, and La Grande and Redmond, Oregon. As one of the largest full-service engineering firms based east of the Cascade Mountains, AP is the trusted local resource that many public entities depend on for reliable, cost-effective answers to their everyday engineering questions.

Founded in 1975, our company is staffed with an extensive team of professionals and equipped to serve a diverse range of engineering requirements. We specialize in assisting rural communities with planning, funding, surveying, engineering design, environmental permitting, construction administration, and construction engineering on a variety of public works projects.

Firm Qualifications and Expertise

24-Inch and 30-Inch Water Main Installation at Port of Walla Walla's Wallula Dodd Business Park

Introduction

AP understands that the City of White Salmon has secured a Washington State Department of Commerce Public Works Board pre-construction loan in the amount of $750,000 to fund the design of its 14-inch Water Main Replacement/ Improvements Project. The City is seeking engineers to complete all design elements of the water main replacement and associated improvements.

As this Statement of Qualifications will demonstrate, AP is highly qualified to perform these services, and we are excited to have the opportunity to work with the City once again.

Because we are based in a rural community, we understand the needs of rural cities and counties, are familiar with the agency personnel who will be involved with this project, and know how to effectively communicate with stakeholders. The City can be confident that we will be looking out for your best interests.

Water System Design Experience

Water infrastructure projects require effective interaction with interested agencies to ensure critical items that may lead to delays later in the project are not overlooked. The ability of an engineering team to successfully collaborate with agency representatives is critical to the timely progress and implementation of the project. AP offers the City a team with extensive experience with Washington State Department of Health (DOH) planning, permitting, environmental review, and other regulatory issues that may arise through the life of the project. Over the years, we have completed hundreds of projects that have been reviewed and approved by regional DOH staff. These projects have included environmental documentation, water system plans, engineering reports, consolidation reports, design drawings, well source approval reports, and operation and maintenance manuals. We have a very good working relationship with DOH staff.

AP's Approach to Customer Service

AP's approach to customer service is centered on the concept of being easy to do business with. Unlike many consultants, we do not "nickel and dime" our clients with postage, copying, clerical, or accounting time. AP's contracts and agreements are short, concise, and developed to be straightforward and fair for both parties. We do not have a rigid corporate structure or volumes of policies and procedure manuals that dictate how we interact with our clients. We have developed a culture within our organization that allows us to be flexible and quickly make and act on decisions that allow us to better serve our clients.

While the engineering products we produce are high quality, it is our personalized, flexible, dependable, and responsive service that sets AP ap

AP's Management Approach

AP's management approach is founded on the following key principles. These principles have been refined and developed over our firm's 45-year history and provide the framework for a successful project management approach to delivering projects efficiently and in a cost-effective manner.

Our management philosophy is to help make the project delivery process as smooth and efficient as possible for our clients.

Establish Communication

AP's management plan is centered on our core philosophy of striving to achieve ultimate client satisfaction. We believe this effort begins and ends with communication. To this end, not only are our team leaders qualified to perform the work, they are also excellent communicators. AP has a track record of effectively communicating with highly technical people as well as people who are less interested in the technical details.

Develop Trust

Our project management philosophy includes involving City staff in positive and engaging conversations to develop a level of trust that allows varying perspectives to be heard and considered. When trust is developed in this way, the best alternatives are promoted and brought to the table, projects are completed faster, and a sense of teamwork is created that paves the way for future successful projects.

Be Flexible

We understand that plans are not set in stone. Unforeseen issues can arise that can impact project schedules, budgets, and scopes of work. Our management philosophy involves being flexible and committed to adjusting our approach as needed to meet the goals and desires of our clients.

Limit Surprises

While some projects may involve unforeseen issues, our Project Manager will work to reduce the number of surprises you have to deal with. By holding regular meetings with the project team, our Project Manager will be able to help the project remain on schedule, on budget, and in line with your expectations. Any major or potential deviations will be addressed, mitigated, and communicated to the City in a timely manner.

Ability to Meet Schedules

AP has a long history of meeting or exceeding performance schedules with public and private entities. We utilize modern project reporting tools to ensure work schedules are met. Our quality control procedures require each task to begin with a clear and concise scope that includes a deliverables schedule. Our delivery schedule is then tied to individual tasks and our accounting system to produce real-time reports that show task order progress as compared to our delivery schedule. Project managers are able to quickly make any adjustments necessary to ensure the project is delivered as promised.

"AP stands beside us throughout every step of a project's process, going to bat for us when needed and working beside us to research additional opportunities. When contracting with AP, you get the feeling you have added several employees to your own staff. They work tirelessly for your city or agency, just as if they were regular full-time employees of that agency. They stand beside their work and are available to their clients around the clock when needed."

-Linda Hall
City Manager
City of Milton-Freewater, OR

Cost Control

We understand the priorities and perspectives of rural Washington's cities and organizations. With our staff's background in and ties to rural communities, AP maintains a high degree of cost sensitivity and knows how to strategize with clients to provide cost-effective and efficient services.

Engineering Budget Control

We understand that we need to meet design budget and quality expectations for the City. It is up to our team to live up to contracted expectations. We believe we do meet and exceed client budget expectations as evidenced by a high rate of repeat business.

AP works closely with clients to establish reasonable engineering budgets. When we commit to a budget and a scope of work in an agreement, we hold to that commitment. The City will see that commitment from our team throughout this contract.

Naturally, if a project scope changes due to unanticipated site circumstances or owner preferences, the original engineering budget may need to be adjusted. We have a relationship with many clients where we know we can offer up appropriate amendments for consideration rather than cutting back on the engineering quality.

Quality of Work

AP's long list of repeat clients and successful projects completed for eastern Washington communities reflects our successful commitment to delivering quality products. This commitment is a core operating principle of AP and provides the foundation for our quality control plan.

AP has a quality control process that each of our project managers and staff is trained and required to follow. Our management philosophy always includes an assignment of a key staff member not directly involved in the project to complete reviews to ensure you receive a high quality product. Among other things, our quality control plan involves crosschecks and reviews of projects drawings, specifications, and reports. Any questions are noted and resolved before being delivered to clients or agencies.

"As a public servant having been around engineers and consultants my entire 40 year professional career, I can honestly say that Anderson Perry and its Walla Walla team is one of the best firms I have had the pleasure to work with. Your team consistently and professionally does what they say they will do – or to use the phrase – they walk the talk!"

-Paul Wemhoener
Retired Project Manager
Port of Walla Walla

Why Select the AP Team?

- Skilled Project Manager and Experienced Team
- Advanced Project Understanding and Project Continuity
- Funding Application Success (Secured Design Funding from Public Works Board)
- Community Outreach and Local Knowledge

Proposed Consultant Team

Team Organization

AP offers the City of White Salmon an experienced and qualified consultant team. The proposed team members shown are the people who will actually work on your project. Our team has a proven history of working together to successfully deliver projects on time and within budget.

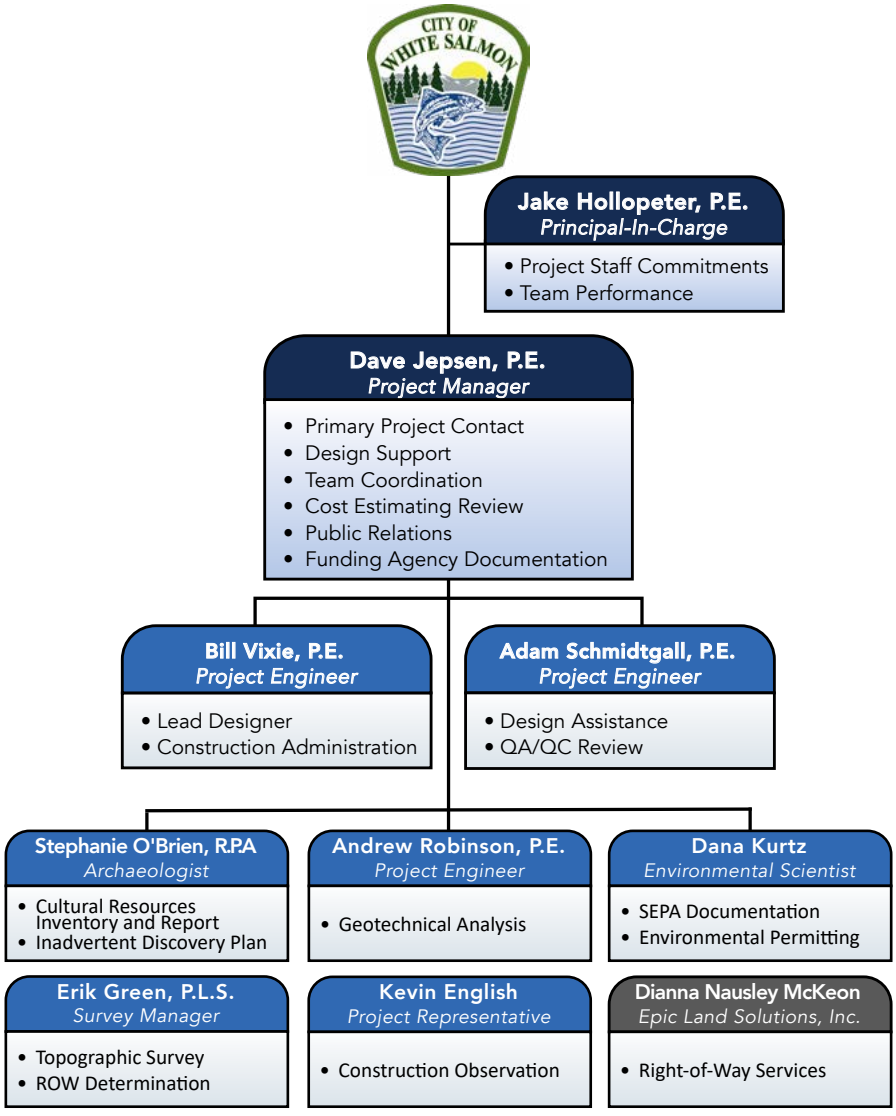
We have extensive experience designing similar projects and will work hand-in-hand with City staff to meet your expectations and complete this project.

AP's design team includes staff for surveying, design, public outreach, environmental permitting functions, geotechnical investigations, cultural resource assessments, QA/QC, and funding agency documentation. Our team is more than qualified to carry out this important infrastructure improvement project for the City.

As the organization chart below illustrates, Dave Jepsen, P.E. will serve as Project Manager for this effort. In selecting a Project Manager, it is important to select an individual who can work well with the City and who is familiar with the City's infrastructure. The information presented in the following abbreviated resumes outlines the general experience of Dave and other key staff members who will be assigned to the City's project.

Teaming Partners

Epic Land Solutions, Inc. (Epic) is a full-service right-of-way and real property consulting firm founded in 2000 with the mission to create land solutions for the public good. With over 60 employees, Epic is a specialist in delivering local programs and Washington State Department of Transportation (WSDOT) certification projects.



Qualifications of Key Personnel

Dave Jepsen, P.E.

Education: MS, Civil Engineering; BS, Chemical Engineering

Experience: Dave is a highly knowledgeable water and wastewater engineer with experience in all phases of the planning, funding, design, and construction process, from preparing planning studies to design and construction administration. Dave has over 28 years of service and has completed numerous planning documents, designs, rates studies, and engineering assessments for dozens of public and private clients in developing water and wastewater system improvements.

Bill Vixie, P.E.

Education: BS, Civil Engineering

Experience: Bill has 16 years of experience that includes assisting with Water System Plans, small water system management programs, water system modeling, and coordinating with funding and regulatory agencies. Bill performs design and construction engineering for new and updated booster pump stations, water storage reservoirs, chlorination systems, water distribution systems, water transmission lines, and residential and commercial water service connections and metering systems.

Erik Green, P.L.S.

Education: AAS, Surveying Engineering Technology

Experience: Erik is the Survey Manager in our Walla Walla office and has nearly two decades of field and office experience. Erik's multiple roles within the company include overseeing the survey crew, coordinating survey crew assignments with both internal design project needs and construction contractor schedules, assessing overall survey staffing and equipment needs, preparing easement descriptions, reviewing survey staff work products, and reviewing project plans to provide bids to contractors.

Jake Hollopeter, P.E., Vice President

Education: MS, Civil Engineering; BS, Civil Engineering

Experience: Jake is the Vice President of AP and the manager of our Walla Walla Office. Jake has over 20 years of experience obtaining funding, coordinating with regulatory agencies, and providing planning, design, and construction engineering in support of municipal water and wastewater projects. Jake's experience includes preparation of design plans and specifications, engineering reports, general sewer and facility plans, and Operation and Maintenance Manuals.

Adam Schmidtgall, P.E., Board Member

Education: BS, Civil Engineering

Experience: Adam is a project engineer with 13 years of experience and a member of the AP Board of Directors. Adam's responsibilities include planning, design, construction observation, and construction administration of water and wastewater distribution systems, stormwater management systems, and streets. Adam has also assisted in the design of bridge and stream restoration projects, and is part of the AP levee inspection team.

Stephanie O'Brien, R.P.A.

Education: MA, Social Sciences, Emphasis in Archaeology; BA, Anthropology and Literature

Experience: Stephanie is a principal investigator for archaeological survey, testing, excavation, and monitoring projects. She has 11 years of experience in the field of archaeology including fieldwork, cultural resource technical report writing, project management, lab management, and artifact analysis and curation. Stephanie specializes in historic archaeology and has substantial experience recording a variety of historic sites, determining National Register of Historic Places eligibility, and analyzing historic artifacts.

Dana Kurtz

Education: MA, Business Administration; BA, Environmental Studies

Experience: Dana is an environmental scientist with over 10 years of experience in environmental consulting and research. Dana conducts environmental studies in aquatic and upland environments, and completes environmental consultation and permitting requirements for engineering and habitat restoration projects. Dana's environmental compliance experience includes NEPA/SEPA, ESA Section 7 consultation, and Clean Water Act Section 10 and 404 permitting.

Andrew Robinson, P.E.

Education: BS, Civil Engineering

Experience: Andrew is a Project Engineer with over 20 years of experience working on a variety of projects including bridges, retaining walls, streets, buildings, water systems, utilities, reservoirs, groundwater studies, stormwater management design, landfills, and slope stabilization. He has performed a variety of services including subsurface investigations, report preparation, engineering analysis and design, construction administration, construction observation, and laboratory and field testing.

Kevin English

Education: Over 400 hours of continuing education classes relating to the water, sewer, and construction industries

Experience: Kevin has a well-rounded background in the water, wastewater, and construction industries with over 30 years of experience in water distribution; wastewater collection; construction inspection; facility construction and maintenance; water, wastewater, storm, and street infrastructure design and maintenance; and customer service.

Dianna Nausley-McKeon Epic Land Solutions, Inc.

Dianna Nausley-McKeon is the Regional Manager for Epic's Interior Northwest office in Spokane.

Dianna carries nearly 3 decades of experience at WSDOT as a Local Programs Right of Way Manager and Relocation Assistance Program Manager. She has reviewed and approved right-of-way projects throughout the state and is an expert on all aspects of the right-of-way acquisition and relocation process.

Additional Staff Resources

As the table at right illustrates, AP has a staff of 90 professionals, which includes civil engineers, environmental specialists, land surveyors, engineering technicians, drafting technicians, and other support staff. The firm's strength rests with our experienced senior engineering and surveying staff who are capable of handling complex projects. These senior staff members are supported by a technically qualified staff of engineers, technicians, and surveyors.

Our team has full capabilities to provide professional services for your project.

Discipline	Staff
Civil Engineers	24
Surveying	9
Environmental	3
Engineering Technicians	8
Drafting Technicians	7
Project Representatives	10
GIS Technicians	3
Archaeologists	4
Administration	22
Total	**90**

Project Understanding And Approach

Background

The City of White Salmon is a regional water supplier providing potable water to customers inside and outside the City's limits, including the City of Bingen and the Port of Klickitat. The City's existing water transmission main conveys water from its sources (Nathan Wellman Memorial Buck Creek Slow Sand Water Treatment Plant [Buck Creek WTP] and Wells No. 1 and 2) to the City's water distribution system.

This transmission main is considered the "life blood" of the City's water system. The existing 14-inch diameter steel pipe makes up the majority of the existing transmission main and was installed around 1957 to replace a wood stave transmission pipe. This steel line is cathodically protected by induced current and anode beds. Portions of this transmission main have been replaced over the years, mainly due to leak repairs, realignment of the pipe route, and pipe upgrades to the system.

The remaining portions of this transmission main consist of 14-inch diameter non-standard steel pipe that is approximately 62 years old and nearing the end of its service life, is undersized for peak demand, and includes sections known for leakage. A map of the existing pipeline is included on Figure 1 on the following page.

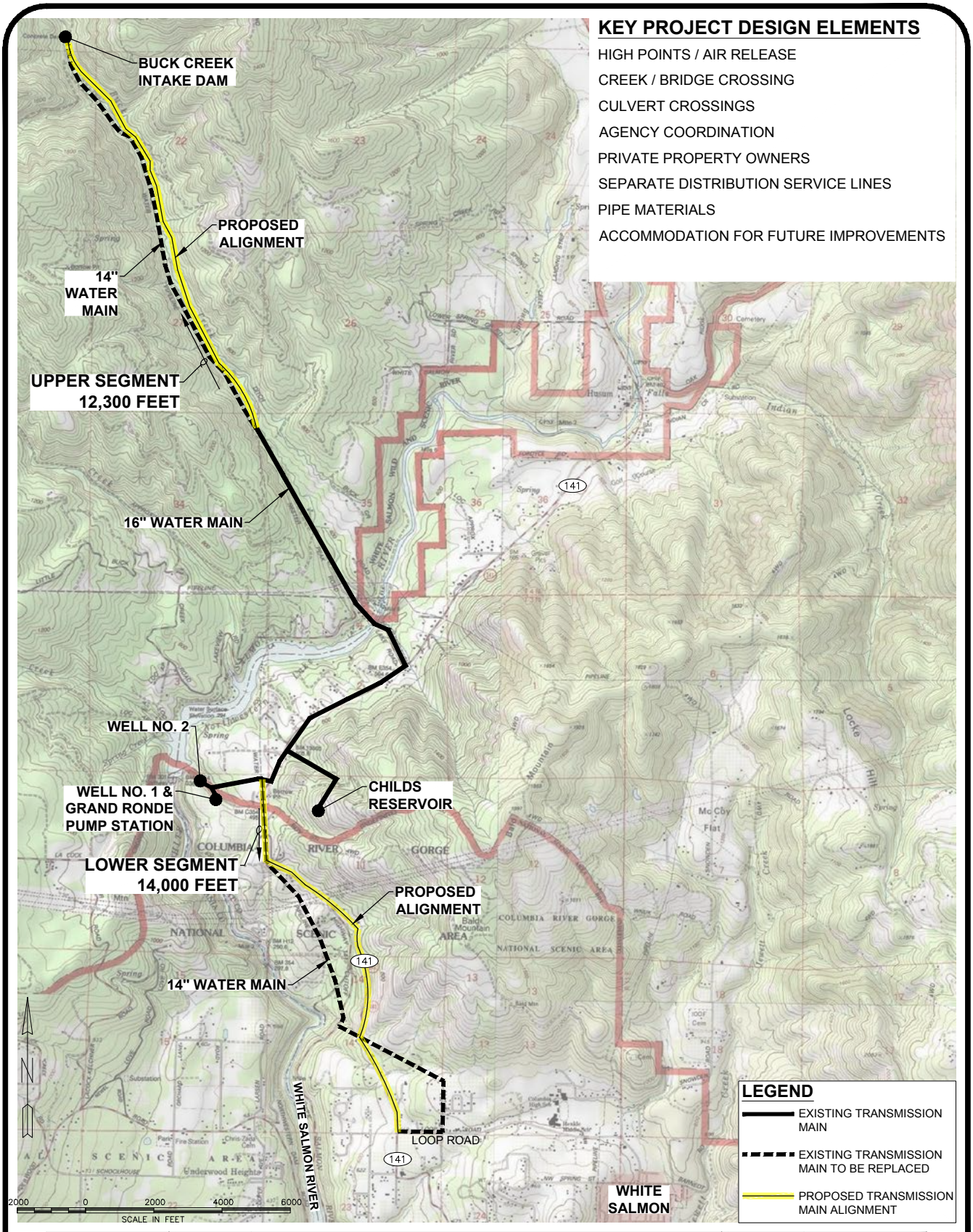
City staff describe the existing 14-inch transmission main as a ticking time bomb. The longer this main remains in service, the greater the likelihood that the main will fail and require maintenance that could result in water disruption to its customers and significant expense to the City. Some sections of the pipe experience pressures approaching or exceeding 300 psi as the pipe travels across the White Salmon River valley. At this pressure, even a small leak can result in the loss of a large amount of water and damage to the surrounding soils. Much of the existing 14-inch transmission main has limited access for system inspection and maintenance due to its location on private property, with extensive forest canopy, and on steep slopes. Better access to the transmission main is needed to properly inspect (e.g. discover leaks) and maintain the transmission main.

Failure of the existing transmission main would adversely affect almost all of the City's customers, and an extended transmission main outage would be detrimental to public health and safety in the City.

Buck Creek Diversion

While the City has several interconnections with the City of Bingen, the water system for Bingen is not capable of conveying water back to White Salmon due to the elevation difference between the two communities. There are no viable potable water system interconnections for the City. An extended transmission main outage would require White Salmon to truck water into the City for its customers.

The proposed project includes the replacement of approximately 26,300 feet (approximately 5 miles) of the existing 14-inch diameter transmission main with larger diameter pipe that is more accessible for inspection and maintenance. With assistance from AP, the City applied for and obtained a low-interest Preconstruction Loan from the Washington State Department of Commerce Public Works Board (PWB) for the planning and design of the new transmission main.



anderson perry & associates, inc.

CITY OF WHITE SALMON, WASHINGTON

EXISTING AND PROPOSED TRANSMISSION MAIN ALIGNMENTS

FIGURE 1

Project Approach

The proposed project consists of constructing two distinct transmission segments: 1) upper segment and 2) lower segment. Between the upper and lower end of the proposed project is an existing 16-inch diameter transmission main that was installed in 2011. Each transmission main segment has its own unique design and construction challenges. Both transmission main segments, along with key design elements, are discussed below.

Upper Transmission Main Segment

The upper transmission main segment includes the installation of approximately 12,300 LF of 16-inch diameter water main starting at the City's Buck Creek Water Treatment Plant (WTP) and connecting to the existing 16-inch diameter water main located on Buck Creek Road (see Figure 1). The City proposes to relocate the upper segment of the transmission main into Buck Creek Road for accessibility, and has obtained an easement from the Washington Department of Natural Resources (DNR) to allow installation in the roadway. For future communications to the Buck Creek WTP, the City desires the installation of a 4-inch diameter conduit bank (up to four conduits) along with the new transmission main. Key considerations for the design and future construction of the upper segment of the transmission main include the following:

1. High Points in Main/Air Release

Based on hydraulic modeling of this transmission main performed as part of the City's Water System Plan (April 2014), the upper of this transmission main acts as a gravity main with the air/water interface adjusting with the Buck Creek WTP water production and City water demand within the system. Proper means for allowing air to enter and exit the upper portion of the main should be evaluated to prevent over-pressurizing or creating a vacuum in the main.

Although there is a substantial elevation difference between the beginning and end of this main, there are several high points in the water main alignment. High points in a water main can result in air accumulation at these points (i.e. air pockets) which can, in some cases, substantially reduce the flow capacity of the main. These high points will need to be evaluated and addressed.

2. Creek/Bridge Crossing

A bridge allows the DNR gravel road to cross Buck Creek. The new transmission main will need to cross the creek in this vicinity and this crossing will need to be evaluated. Possible crossing options include: 1) horizontal directional drilling (HDD) under the creek; 2) installing the transmission main on the side of the bridge deck and over the concrete abutments; and 3) drilling through the concrete abutments and spanning the creek.

Buck Creek Bridge

3. Existing Culverts

The proposed transmission main alignment will likely encounter numerous culverts that cross the road. Potential conflicts between the proposed transmission main alignment and the existing culverts would be primarily due to the bury depth of the culverts and the design will need to minimize adverse impact to these culverts.

4. Coordination with DNR and Private Property Owners

The proposed transmission main alignment will be in an easement on Buck Creek Road that is owned by the DNR. The transmission main alignment, trench details, and road restoration design would need to be closely coordinated with and approved by DNR staff. Coordination and outreach with private property owners on Buck Creek Road should also be conducted to educate and gather input on the proposed transmission main improvements.

Lower Transmission Main Segment

At the lower end of the project, approximately 14,000 LF of 20-inch diameter transmission main would be installed.

The new 20-inch transmission main will greatly increase the City's water system capacity. In addition to increasing the capacity, the City wishes to relocate the transmission main onto public right-of-way (ROW) or more accessible private property to better facilitate inspection and maintenance. This realignment effort would include relocating water meters and service taps into the public ROW wherever feasible.

1. Potential Alignments from White Salmon Valley to top of Bald Mountain on SR 141

There are several options for the lower transmission main alignment. One of the primary considerations is to locate the transmission main route to convey water from the White Salmon River valley up to and over Bald Mountain. One proposed alignment is to install the lower transmission main on the Bald Mountain curves along SR 141 (as shown in Figure 1). Another option would be to follow an alignment along SR 141 (alternate) and then cross-country back up to SR 141 on top of Bald Mountain. Each alignment has advantages and disadvantages that need to be further explored before a final alignment decision is made.

Possible Alignment on SR 141

2. Separate Transmission and Distribution Service

The existing 14-inch water main acts both as a transmission and distribution main, transporting water to the City while also having direct service taps for single or multiple services. Ideally, the new lower transmission main should operate as a transmission main only, and have distinct distribution main connections for serving area customers. One of the challenges with the lower transmission main design is developing cost-effective means to provide water service to users tapped into the existing 14-inch diameter main. The smaller distribution main would be installed to serve customers on the existing transmission main and follow the same basic alignment of the existing 14-inch diameter transmission main along NW Childs Road and then cross-country to SR 141. This will enable the existing 14-inch main to be decommissioned. In the White Salmon River valley, these distribution mains will need a pressure reducing valve to reduce the high pressures in the lower transmission main to acceptable levels for public use.

3. Coordination with WSDOT

The relocation of the lower transmission main next to SR 141 would require coordination and permitting with the Washington State Department of Transportation (WSDOT). The City would need to work with WSDOT staff in a manner similar to that performed on the City's Jewett Water Main Improve

including submission of variances for open cut pavement, roadway prism open trench, shallow depth installation, and submission of drawings and specifications. Unlike the Jewett Water Main Improvements, which were in the City limits, the City will likely need to acquire a permit for the proposed construction.

Possible Alignment on SR 141 (Alternate)

4. Coordination with Private Property Owners

Coordination with private property owners is anticipated for several design and construction items, including relocation of water meters from private property to public ROW, relocation of the lower transmission main, installation of new distribution and service lines, and phasing of the project.

5. Consideration of Future Source Water from White Salmon River

The City has performed some preliminary analysis and is embarking on a more detailed analysis of the possibility of diverting and treating water from the White Salmon River for potable water use by the City. If developed, the White Salmon River would likely be the City's primary potable water source and the Buck Creek source would be a backup. A new slow sand filter treatment plant is proposed for treatment of the White Salmon River water. From the slow sand filter treatment plant, the water would need to be pumped into the transmission main from either a new pump station or the Grande Ronde Pump Station. Provisions will be needed on the new lower transmission main improvements to provide a connection point to convey water into the new transmission main from this new source.

6. Piping for Well No. 1 Operation During ASR Operation

During periods of high stream flow and low water demand, the City currently diverts excess water produced by the Buck Creek WTP into Well No. 2 as part of its ASR program. While water is being diverted to Well No. 2 for ASR, water from Well No. 1 cannot be conveyed to the existing transmission main and to the City for potable water use. A separate water main would enable Well No. 1 to be used during these conditions and should be evaluated as part of this project.

7. Potential Future Reservoir Improvements

The City experiences periods of long turnover in the Childs Reservoir and is in need of additional reservoir capacity in its distribution system. The long turnover in Childs Reservoir is caused by a combination of City water demand and the Childs Reservoir being located at a less than ideal elevation. Several options to correct the long turnover in this reservoir were identified in the City's Water System Plan, including installation of a control valve on the transmission main upstream of the Childs Reservoir connection, diversion of all the Buck Creek flow through Childs Reservoir, and combination of these options. The City has been exploring options for providing additional reservoir capacity in the City, including possibility of relocating Childs Reservoir and constructing a new reservoir at a suitable elevation in the Cox Mountain area. While these reservoir improvements are outside the scope of the lower transmission main improvements, these future improvements and potential connection points on this main should be considered as part of this project.

Pre-Design Meetings

We believe that one of the key drivers impacting the project is obtaining a clear understanding of the project from the City supplemented with defining the requirements and expectations of DNR and WSDOT with respect to any proposed transmission main alignments and designs. Consequently, the first step will be a pre-design meeting with AP and City staff to review the proposed project scope and objectives and identify key project elements and concerns.

Pre-design meetings with also be held with DNR and WSDOT staff to review the proposed project scope and preliminary alignment, and to solicit feedback on DNR and WSDOT design and permitting requirements for the project. These meetings will provide AP and City staff the framework for complying with DNR and WSDOT requirements for the project.

The findings from these pre-design meetings would be summarized in a technical memorandum report.

"Two aspects I really appreciate in AP is their integrity and customer service. It is rare that a project is completed without challenges in design, construction, or interaction with businesses and the general public. When these complications arise, AP teams to resolve them collaboratively with the City. I'm comfortable that AP understands and will hold true to the City's mission, vision and values in their design, and in their interactions with the general public and the contractor. I trust them as ambassadors for the City."

-Monte Puymon, P.E.
Transportation Engineer
City of Walla Walla

Pipe Materials

Potential pipe materials include ductile iron pipe (DIP), polyvinyl chloride (PVC), and high-density polyethylene (HDPE). HDPE pipe appears to be a good fit for the upper transmission main segment because the end product is a continuous pipe with joints only at valves, ability to negotiate bends in alignment without fittings, and no planned services or laterals on the main.

While HDPE may also be a good choice for the lower transmission main segment, the other pipe materials also have positive merits. Selection of the best materials for both segments will likely depend on several factors including cost, anticipated pipe pressure, agency acceptance, anticipated trench conditions, and the City's preferences.

Cultural and Environmental Assessments

Another key step is the completion of cultural and environmental assessments of the proposed project work area. AP staff will lead the assessments to comply with agency requirements (PWB, DNR, WSDOT), and to identify any potential cultural and environmental effects that may impact the project schedule or construction. The extent of the cultural review will depend in part on whether the PWB and the Washington State Department of Archaeology and Historic Preservation (DAHP) require a cultural assessment. The environmental review will consist of compiling a State Environmental Protection Act (SEPA) checklist, requesting public input from the results, and then documenting the SEPA determination (e.g. Determination of Non-Significance). The results from the cultural review and SEPA determination would be documented and sent the City, PWB, DNR and WSDOT.

Geotechnical Evaluation

AP will perform a geotechnical subsurface investigation to characterize the underground soil conditions in the proposed project work area, including the presence of groundwater, cobbles, unstable soil, and solid rock. This investigation will be useful not only for the design of the transmission mains but will also provide useful information to potential bidders for the future construction of the project. Initial areas of subsurface concerns include the bridge crossing on the upper transmission main segment, the extent of rock on the Bald Mountain curves (SR 141), and any proposed cross-country alignments from the White Salmon River valley up to Bald Mountain.

The geotechnical subsurface investigations would include a preliminary site visit to characterize the project area and identify specific areas for further investigation followed with field investigations. Field subsurface investigations would be conducted to identify and characterize the subsurface conditions at specific locations of concern identified from the preliminary site visit. These field subsurface investigations would be supervised by AP staff with geotechnical experience and performed with excavation and/or drilling equipment provided by the City or a Contractor.

24-Inch Pipeline Installation, City of Cove, OR

Surveying

A significant surveying effort will be required to fully map the project area. Our design surveying process typically includes five primary elements: Records research, survey control, topographic mapping, rights-of-way retracement and monument locations, and base mapping.

Once thorough research of available records has been completed survey control will be placed throughout the project and any available existing survey monumentation will be tied into the survey control. The field crew will bring horizontal and vertical control onto the site utilizing RTK GPS surveying techniques, thus establishing primary control points along the proposed route. A precise digital level loop will be run from a known benchmark and through all the primary control points. The project will conform horizontally and vertically to GPS control based on the Washington State Coordinate System, South Zone, NAD 83, and vertically to NAVD 1988.

Completing a detailed and accurate survey coupled with the determination and retracement of existing rights-of-way is critical for a successful design. It may be necessary to bring in a private utility locator to provide GPR services to locate private utilities within the project area and supplement the design survey.

Review of Current and Projected Water Demand

From water demand data provided by the City, AP will compile and summarize current water demand for the last three years (2017-2019). Current water demand will be calculated as average daily demand (ADD), maximum month demand (MMD), maximum daily demand (MDD), and peak hourly demand (PHD) using the Washington State Department of Health Water System Design Manual (2019). The calculated current water demand va

will be used with projected 10- and 20-year projected growth estimates of the City's water system to estimate future water demand values (i.e. ADD, MMD, MDD, and PHD) in 2030 and 2040. The current and projected water demand will be used with hydraulic modeling (see below) to verify appropriate pipe diameter size to handle future water demand.

30-inch Waterline Installation, City of Walla Walla

Hydraulic Modeling

AP compiled a hydraulic model of the water system as part of the City's Water System Plan (April 2014). The original model software was compiled and calibrated using Water CAD v.8i by Bentley Systems. AP has since upgraded its hydraulic model software and translated the City's existing model into Innovyze Info Water v12.4. This hydraulic model works directly with ArcGIS, a widely used Geographic Information System (GIS) software. AP will input the current and projected water demand and any pertinent City staff observations into the model and run the model with this updated data to verify that the proposed 16-inch diameter water main for the upper transmission main and the proposed 20-inch diameter water main for the lower transmission main are satisfactory for meeting current and projected water demand. The results of the hydraulic modeling will be documented in a technical memorandum report.

Funding Applications

The PWB funding secured by the City has a 5-year repayment term. However, if the City can secure a minimum of 30 percent of the project construction funds, the PWB funding can be rolled into a 20-year loan. As a result, securing construction funding in a timely manner is a critical component to this project. Likely construction funding sources include Department of Health, Public Works Board, and Rural Development. As part of our efforts, we will prepare cost estimates, project maps, evaluate the funding options, and work with the City to identify the best funding package available.

By focusing the initial design efforts on the upper segment of the transmission main, a complete contract package can be prepared more quickly, which will allow construction funding to be pursued sooner and enable the City to meet the PWB loan requirements.

Schedule

A tentative project schedule is included on the following page.

"The Port of Columbia has been working with AP for several years on a multitude of projects…We have found AP to be very responsive to our needs and able to provide quick turnaround on requests for assistance. We have developed relationships with many different employees of the company, enabling us to easily pick up the phone and call the right person for any task we need help with. The archive of knowledge and materials this company has gathered and maintained on our Port's behalf has proved to be extremely helpful as the years pass and the projects continue."

- Jennie Dickinson
Manager, Port of Colu[illegible]

Tentative Project Schedule

Task	2020											2021											
	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Proposal Delivery (2/21/2020)																							
Design Contract Award																							
Project Kickoff Meeting																							
Review Water Demand																							
Hydraulic Modeling																							
UPPER TRANSMISSION MAIN	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Pre-Design Meeting with DNR																							
Environmental & Cultural Review																							
Topographic Survey & Mapping																							
Geotechnical Investigation																							
Pre-Design Report																							
DNR & Private Landowner Coordination																							
Water Main Design																							
Water Main Contract Documents																							
Funding Applications																							
Finalize Design and Agency Approval																							
LOWER TRANSMISSION MAIN	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
Pre-Design Meeting with WSDOT																							
Pre-Design Report																							
Environmental & Cultural Review																							
Topographic Survey & Mapping																							
Geotechnical Investigation																							
WSDOT & Private Landowner Coordination																							
Water Main Design																							
Water Main Contract Documents																							
Funding Applications																							
Finalize Design and Agency Approval																							

Project Experience

Water System Design

AP professionals have completed all types of drinking water projects, from storage reservoirs to the innovative science of aquifer storage and recovery. We have designed spring intake systems, all types of groundwater wells, surface water supplies, filtration and other treatment systems, reservoirs, pump stations, pipelines, etc. This wide range of skills in our region ensures that clients will be able to choose among multiple options to improve water quality and your entire water system. We know what works best in our rural area.

Water Source Development

- Basalt and alluvial supply wells
- Developing and rehabilitating springs, surface water intakes, infiltration galleries, and other water supply sources for potable use

Water Distribution and Pumping Stations

- Booster pump and well pump stations
- Altitude valves, flow control valves, pressure reducing/sustaining valves, surge anticipation valves, etc.
- Transmission mains and distribution networks
- Large and small distribution systems and pressure zones

Storage

- Above and belowground water storage solutions including concrete reservoirs, welded steel tanks, bolted steel tanks, and poly tanks

Treatment and Disinfection

- Systems to address water constituents such as arsenic, nitrate, iron, manganese, hydrogen sulfide, pathogens, and bacteria
- Sand filtration, synthetic media filtration systems, ion exchange units, membrane filtration, ultraviolet light, anion exchange, reverse osmosis, poly phosphate, and chlorination systems

Aquifer Storage and Recovery

- Underground water storage

Wallula Dodd Water System

Port of Walla Walla, WA

AP provided planning, design, and is currently providing construction management during the installation of 5 miles of large-diameter potable water transmission and distribution mainline piping to connect the existing Dodd Road water system to a 6-million-gallon hilltop concrete reservoir. The 24-inch HPDE transmission piping delivers water to the reservoir, and the 30-inch HDPE distribution piping delivers water to customers.

Bridge Creek Pipeline Replacement

City of Cove, OR

AP provided design and construction engineering services for the installation of a 24-inch diameter pipeline from the Bridge Creek intake structure to the outfall located upstream from the Mill Creek intake structure (approximately 5,600 feet). Work included replacement of the existing pipeline, connection to the existing Bridge Creek intake structure, a Forest Service Road 6220 crossing, a Mill Creek outlet, and access road improvements. The City replaced the pipeline to reduce leakage and to increase hydraulic efficiency.

Water System Improvements Project

City of Kahlotus, WA

AP assisted the City of Kahlotus in securing Washington State Community Development Block Grant (CDBG) funding to construct a new water main. In addition to making sure the project met all necessary funding requirements, AP designed and oversaw construction of approximately 3,700 feet of 8-inch water line, water service connections, fire hydrants, valves, and connections to existing water lines.

Franklin Street Water Line Replacement Project

City of Connell, WA

AP designed improvements to the Franklin Street Water Line that included approximately 900 linear feet of 8-inch water line, 160 linear feet of 24-inch diameter casing installed by jacking and boring beneath the Burlington Northern Santa Fe Railroad, 75 linear feet of 24-inch diameter casing installed by open cutting across the Esquatzel Coulee, along with restoration, and other associated work.

Water System Improvements

City of Dayton, WA

The City of Dayton utilized AP for complete planning, permitting, design, and construction administration on their three-phase water project. Work included replacement of 26,000 feet of water mains and associated facilities. With AP's help, Dayton secured a combination grant and loan package through U.S. Department of Agriculture (USDA) Rural Development to construct distribution, source, and storage components.

Klindworth and Campbell Water Efficiency Project - *City of Connell, WA*

In 2012, the City of Connell replaced all water mains, services, valves, and fire hydrants in the Klindworth, Campbell, and Paramount Heights subdivisions. Water main replacement totaled over 15,000 feet, with 200 metered services. This effort was the last major water distribution replacement priority of a 15-year program to combat corrosion, reduce water loss, and improve system flow and pressure. AP has served as the design and construction engineer for all Connell water projects for over 20 years.

Water System Improvements

Town of St John, WA

AP assisted St. John with a major reconstruction project to increase the number of water sources, improve system flow and pressure, flow capacity, and reduce system leakage and maintenance. Improvements included a new 12-inch, 550-foot deep basalt well; approximately 15,500 feet of water main (including two railroad and two creek crossings); and a 400 gpm, 50 horsepower well pump.

College Avenue Water Main Replacement

Consolidated Irrigation District No. 14

AP designed water system improvements for the replacement of the College Avenue Water Main and provided construction administration services for the project. The work included installation of approximately 770 linear feet of 8-inch water line, surface restoration, main line and service line connections, and other associated work.

White Salmon Experience

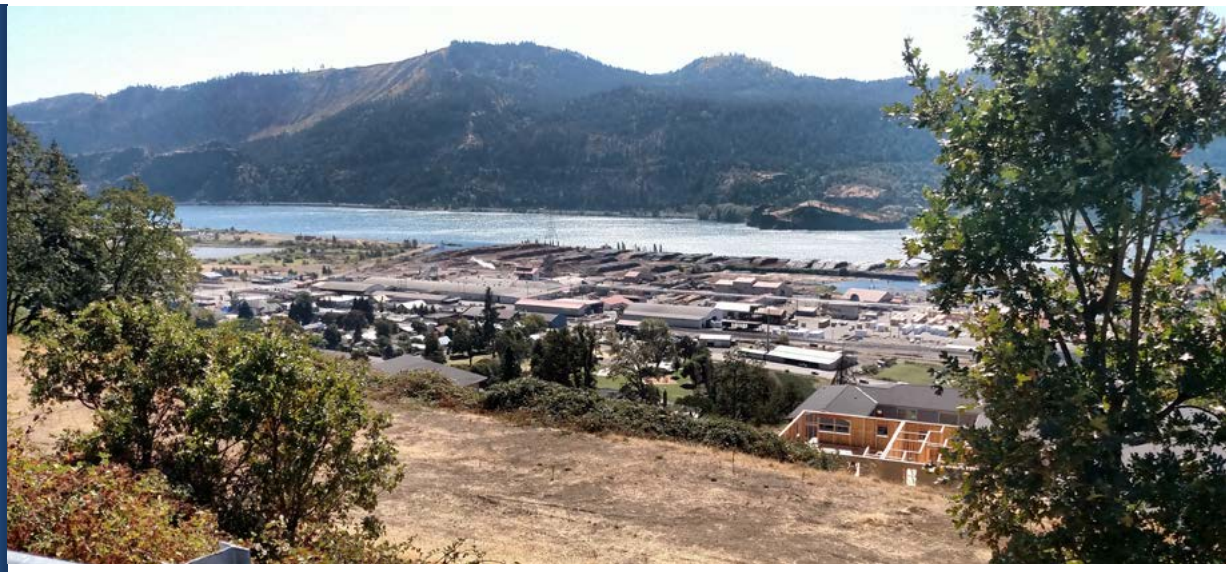


Photo by AP Survey Crew, 2016

Familiarity With the Community

AP has collaborated with the City of White Salmon on several projects in recent years, many of them related to the City's water system. The table below outlines the most recent projects our firm has undertaken with the City.

AP's previous and ongoing work with White Salmon's water system makes us uniquely qualified to help the City implement the proposed improvements. Our overall understanding of your utility systems provides assurance that the City's long-term best interests will be served.

Year	Project
2013-2014	Water System Plan
2013	Revised Water Rates for City of Bingen
2016	Water and Sewer Cost of Service Rate Studies
2017	Water and Sewer System Capital Facilities Charges
2018	Hydraulic Modeling of Fire Flows
2019	Funding Application (PWB) for Transmission Main Replacement
2018-2020	Jewett Water Main Improvements *(under construction)*

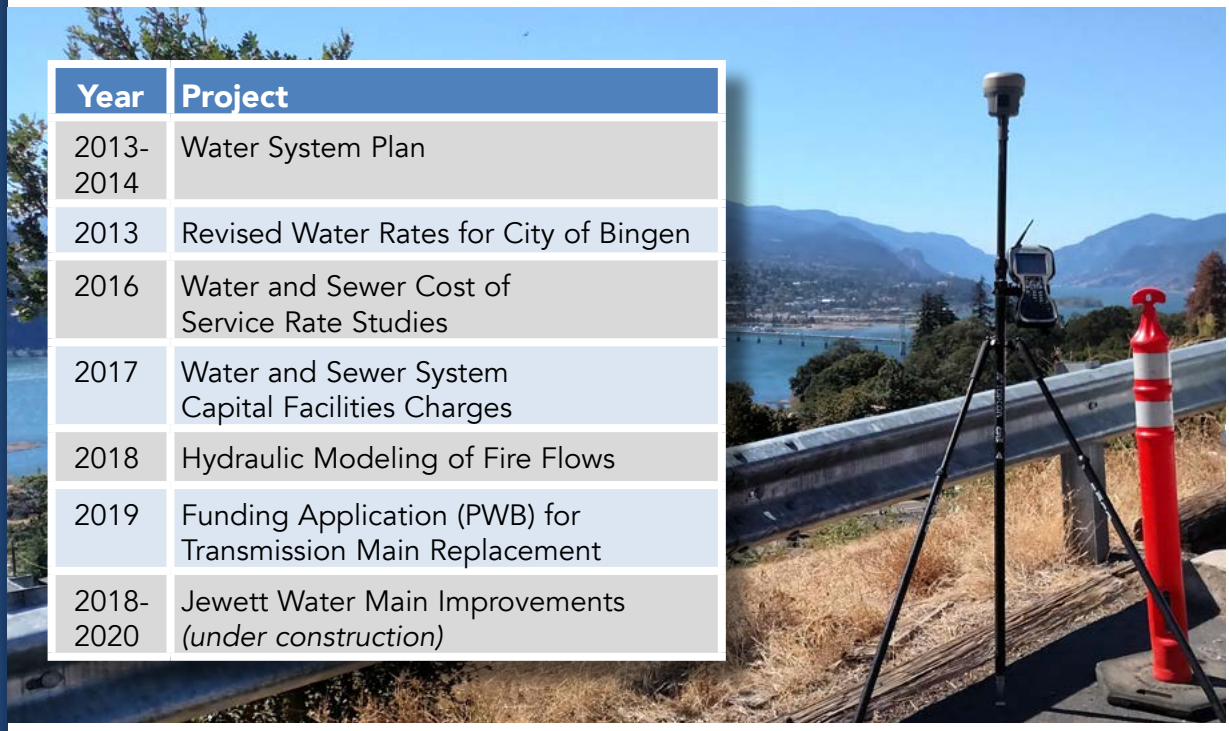


Photo by AP Survey Crew, 2016

Funding Experience

Funding Program Knowledge

The ability of your engineering consultant to assist the City in applying and administering state and federal funding for planning, design, and construction is critical.

AP offers a staff of engineers and technicians who have assisted cities in obtaining millions of dollars in funding over the last 10 years.

Funding Program Experience

We are aware that the City of White Salmon has received a Washington State Department of Commerce Public Works Board (PWB) loan for this project.

During the 45 years that AP has served the communities of eastern Washington, we have worked on hundreds of infrastructure system planning, design, and construction projects, many of which have been funded in whole or in part by the PWB program.

Many funding programs have several requirements as a condition of receipt and use of funding. Potential missteps with the use of funds can result in additional expenses or, in extreme cases, the City losing its funding.

The AP team is very familiar with many funding agency standards. The City of White Salmon can be confident in AP's abilities to help them navigate these requirements.

Funding Program Knowledge

AP is very familiar with other funding programs for city projects including:

- USDA Rural Development Grant/Loan Program
- Washington State Department of Commerce Community Development Block Grant
- Washington State Department of Health (DOH) Drinking Water State Revolving Fund
- Washington State Department of Ecology (Ecology) State Revolving Fund
- Washington State Transportation Improvement Board (TIB)
- Washington State Department of Transportation's Highway Safety Improvement Program, Safe Routes to School, Bike and Pedestrian Improvements, etc.

AP has relationships with funding agencies like Rural Development, Ecology, DOH, and TIB that give our clients an inside track to multiple avenues of funding for various types of projects. AP regularly works closely with all funding agencies, helping clients through the funding process from application to award.

Our funding assistance services include:

- Funding source identification and development
- Grant/loan applications and environmental reports
- Utility rate studies
- Established relationships with funding and regulatory agencies
- Public meetings

Grant and Loan Funding Program Experience

The following table shows a variety of infrastructure projects completed by AP and their associated funding sources.

Client	Project	CDBG	USDA RD	Public Works Trust Fund	State of Washington - Legislative Appropriations	Safe Drinking Water Revolving Loan Fund	Centennial Clean Water Fund
City of Adams	Water Reservoir and Transmission Pipeline		◆				
City of Asotin	Wastewater Treatment Upgrades	◆	◆	◆			
Town of Albion	Lift Station No. 1						◆
City of College Place	Energy Efficiency Wastewater Treatment Plant	◆					
City of Connell	Water Distribution Upgrades	◆	◆	◆			
City of Connell	Wastewater Lagoons and Irrigation				◆		◆
Consolidated Irrigation District	Well No. 1			◆			
City of Dayton	Water Distribution Improvements		◆	◆			
City of Dayville	Water System Improvements					◆	
City of Echo	Water System Planning	◆					
Town of Endicott	Water System Improvements	◆	◆	◆			
Town of Endicott	Wastewater System Upgrades	◆	◆				
Town of Grass Valley	Water Distribution System and Booster Pumps	◆	◆				
City of Irrigon	Water System Improvements		◆			◆	
City of Halfway	Well No. 1, Record Street, and Water Distribution System Improvements	◆					
Town of Hatton	Water System Upgrades	◆	◆				
City of Joseph	Water System Improvements	◆					
City of Lostine	Water System Improvements		◆			◆	
Town of Mansfield	Wastewater Treatment and Irrigation	◆		◆			◆
City of Prairie City	Water System Improvements (Slow Sand Filter)					◆	
Town of Prescott	Wastewater Engineering Report		◆				
Sentinel Gap Water Association	Water System Improvements	◆	◆				
City of Stanfield	Wastewater System Improvements	◆					
Town of St. John	Water System Reconstruction		◆	◆			
City of Ukiah	Water System Improvements					◆	
City of Waitsburg	Wastewater Facility Upgrades		◆	◆			
Port of Walla Walla	Burbank Business Park Wastewater System						◆
Town of Washtucna	Water Distribution System	◆	◆	◆			
Town of Washtucna	Lagoons and Irrigation	◆	◆	◆			

Client References

The following are several client references who can attest to the quality of AP's work, dedication to long term relationships, and history of keeping commitments. We encourage you to contact these people to verify the information included in this Statement of Qualifications.

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Item Attachment Documents:

10. Approval of Meeting Minutes - March 4 and March 11, 2020

CITY OF WHITE SALMON
City Council Regular Meeting – Wednesday, March 4, 2020
DRAFT

Council and Administrative Personnel Present

Council Members:	**Staff Present:**
Jason Hartmann	Marla Keethler, Mayor
David Lindley	Jan Brending, Clerk Treasurer
Amy Martin	Ken Woodrich, City Attorney
Ashley Post	Pat Munyan, City Administrator
Joe Turkiewicz (	Russ Avery, Public Works Operations Mgr.
	Mike Hepner, Police Chief
	Bill Hunsaker, Building Official/Fire Chief

1. Call to Order

Marla Keethler, Mayor called the meeting to order. There were approximately 10 people in the audience.

2. Roll Call

All council members were present.

3. Comments – Public and Council

Bruce Brending, Klickitat County EMS District said he is the Chief Operations Manager for the EMS District and is present to introduce himself but not to answer any medical questions. Brending noted the Klickitat County Emergency Operations Center was activities yesterday in response to the COVID-19 situation.

Tao Berman, White Salmon Resident said he does not support the moratorium but does support the city's efforts to update its code. He said he feels the city council is getting distracted particularly related to tenant protections. Berman said the state already has tenant protections in place. He said the council should be creating incentives for housing and not creating more regulations that cause problems. Berman said no one is taking advantage of tenants and it seems that the council is making landlords out to be the bad guys. He said the city council needs to focus on the issue at hand – affordable housing.

John Edwards, White Salmon Resident said he has never raised the rent of a good tenant. He said that if the city puts into place the proposed tenant protections, he will have to increase his rent every year 3% or he will never be caught up. Edwards asked why the city council is putting things into its code that the State of Washington already has in place.

4. Changes to the Agenda

Jan Brending requested that "Authorization to Sign General Maintenance Agreement with Washington State Department of Transportation for Maintenance of Radar Speed Signs" be added to the consent agenda.

Moved by Amy Martin. Seconded by Joe Turkiewicz.
Motion to add "Authorization to Sign General Maintenance Agreement with Washington State Department of Transportation for Maintenance of Radar Speed Signs" to the Consent Agenda. CARRIED 5-0.

5. Authorization for Creation of New Position in Public Works

Pat Munyan, City Administrator said the city has been discussing adding an entry level maintenance worker for some time. He said that due to an employee being on light duty it is critical to add the position at this time. Munyan said the position is a full-time permanent union position with all benefits.

Jan Brending, Clerk Treasurer noted that the funding for the position will come from Current Expense, Street, Water and Wastewater funds.

Moved by Amy Martin. Seconded by David Lindley.
Motion to create the position of Public Works Maintenance Worker – Entry Level and adopt the job description for the position. CARRIED 5-0.

6. Authorization of Crestline Construction Payment No. 1 and USDA Reimbursement Request No. 1

Jan Brending said she is requesting authorization to make the first payment to Crestline Construction in the amount of $280,781.39 and authorization to submit USDA Reimbursement Request No. 1 in the amount of $321,476.73 which includes the Crestline payment and funding for construction engineering and administrative costs.

Moved by David Lindley. Seconded by Ashley Post.
Motion to approve Crestline Construction Payment No. 1 in the amount of $280,781.39 and USDA Reimbursement Request No. 1 in the amount of $321,476.73. CARRIED 5-0.

7. Funding to Support Housing Polices and Goals

Marla Keethler, Mayor and Jan Brending, Clerk Treasurer provided information regarding funding opportunities to support housing policies and goals, including an Affordable Housing property Tax Levy (RCW 84.52.105), Affordable Housing Sales Tax (RCW 82.14.530) and increasing the city's general property tax levy. Mayor Keethler noted that if the city obtained additional funding it could be placed in separate fund that would be used to provide loans and grants for low-income housing per RCW 35.21.685.

Jan Brending noted that several years ago the city had the opportunity to increase its property tax levy by 6% each year but choose not to do so. She said the city is now capped at increasing its property tax levy by 1% each year. Brending said the city can do up "levy lid lift" by a vote of the citizens to increase is property tax levy. She reviewed several options that are available to the city. Brending recommended that if the city pursues a levy lid lift that it identifies how the funds would be used. She noted that in addition to possibly using funding for housing the city has discussed the need to increase the levy with funds dedicated the operations and maintenance of its streets.

The City Council discussed the idea of a levy lid lift. It was noted that there are strict timelines involved in putting a levy lid lift on the ballot. There was a consensus of the council to have staff provide additional information on what a levy lid lift would look like and the timelines involved in getting one on the ballot.

Wayne Peterson, Klickitat County Resident – Border of White Salmon said that he has seen other cities use development fees. He encouraged the city to become a city planning under the Growth Management Act so it could charge development fees. Peterson said he is concerned about a property tax increase and cited the Pool District that has no plan and is poorly managing its budget in that they just spent $1,800 on getting a logo designed. He said that it would be important to show how the funds are going to be used.

Michael Morneault, White Salmon Resident suggested that the levy lid lift be kept open so the city council has flexibility on how to spend the funding versus identifying a specific percentage for the items that the levy lid lift might cover.

8. Tenant Protections

Marla Keethler, Mayor said the recommended tenant protections are an effort to:

- Provide timelines that favor tenants facing eviction with a longer notice window
- Create some security around anticipated rent changes or increases
- Reinforce already mandated state level protections regarding tenant rights in general
- Allow for flexibility in upfront costs to alleviate the cost-burden on new or relocating tenants

Keethler reviewed proposed landlord requirements and tenant protections. She said the intent is to encourage information sharing and not to punish good landlords but to also protect tenants from bad landlords.

The City Council discussed the proposed requirements and tenants. There was a consensus of the city council that information be brought back to the city council identifying which requirements and protections are already part of the State's Landlord-Tenant Act.

9. Consent Agenda

a. Approval of Meeting Minutes – February 26, 2020
b. Authorization to Sign General Maintenance Agreement with Washington State Department of Transportation for Maintenance of Radar Speed Signs
c. Approval of Vouchers

Type	Date	From	To	Amount
Claims	3/4/2020	35912	35944	173,562.18
			Claims Total	**173,562.18**
Payroll	3/5/2020	35903	35911	1,929.35

		EFT	EFT	100,414.03
			Payroll Total	**102,343.38**
Manual Claims	2/27/2020	35901	35902	12,030.00
			Manual Total	**12,030.00**
			Total All Vouchers	**287,935.56**

Vouchers audited and certified as required by RCW 42.24.080 and expense reimbursement claims as required by RCW 42.24.090 as of this 4th day of March, 2020.

Moved by Jason Hartmann. Seconded by Ashley Post.
Motion to approve consent agenda as presented. CARRIED 5-0.

10. Department Head and Council Reports

Bill Hunsaker, Building Official/Fire Chief said that a grant has been received to address fuel reductions particularly in Gaddis and Spoke Bike Parks. He said he will be bringing additional information to the city council after first meeting with the Tree Board.

Joe Turkiewicz, Council Member suggested providing any usable material for the improvements to the Bike Park.

Bill Hunsaker said there is not intent to remove any trees.

Mike Hepner, Police Chief reminded the city council that he has five commission officers under him that work 7 days a week, 20 hours a day. He said he is working nights training the newest officer Madelyn McIlwain. Hepner said he has received and accepted Pedro Virgen's resignation. He said there has been an increase in vehicle prowls and encourages everyone to make sure vehicles are locked.

Russ Avery, Public Works Operations Manager said the Jewett Water Main Improvement project is going well. He said that 433 feet of pipe has been installed. Avery said the contractor intends to have the parking on the south side of Jewett open by Friday.

Pat Munyan, City Administrator said he will be meeting with Scott Hulbert to discuss with him the comments that were received regarding the proposed improvements for the Spoke Bike Park.

Jan Brending, Clerk Treasurer said she is working on updating the city's budget and will be presenting a budget amendment in the future.

Marla Keethler, Mayor said that coronavirus has hit Washington State and the governor has declared a state of emergency. She said the county has engaged the County Department of Emergency Management and County Health Department on the issue. Keethler said federal grants are being pursued related to the Hood River Bridge project for funding to obtain a 15% design stage.

Ashley Post, Council Member said that it was noted that the west radar speed sign is located near some trees that might have a long-term impact on the solar capability of the signs.

Jan Brending noted that the current location of the speed radar sign is temporary and will change once the roundabout is installed in the future.

Jan Brending reminded council members that a joint public hearing regarding proposed amendments to the Mobile Home Residential zoning is scheduled for Wednesday, March 11 at 5:30 p.m. She said that after the public hearing, city council members will leave the meeting and the Planning Commission will continue their portion of the meeting.

11. Adjournment

The meeting adjourned at 7:59 p.m.

Marla Keethler, Mayor

Jan Brending, Clerk Treasurer

CITY OF WHITE SALMON
City Council Special Meeting – Wednesday, March 11, 2020
Joint Public Hearing with City Planning Commission
DRAFT

Council and Administrative Personnel Present

Council Members:	**Staff Present:**
Jason Hartmann	Marla Keethler, Mayor
David Lindley	Jan Brending, Clerk Treasurer
Amy Martin	Ken Woodrich, City Attorney
Ashley Post	Pat Munyan, City Administrator
Joe Turkiewicz	Erika Castro-Guzman, Associate Planner

The City Council attended a Joint Public Hearing at 5:30 p.m. with the City Planning Commission to hear public comment on proposed amendments to WSMC 17.36, MHR Mobile Home Residential District. All council members were present.

Public Hearing Regarding Proposed Amendments to WSMC 17.36, MHR Mobile Home Residential District

Jan Brending, Clerk-Treasurer, reviewing the proposed changes to WSMC 17.36 MHR Mobile Home Residential District. She noted that the documents were also translated into Spanish.

Ross Henry, Planning Commission Chairman opened the public hearing at 5:35 p.m.

Clerk-Treasurer Jan Brending read written comment from ***Brookside Development LLC, owner of Washington Street Trailer Court, White Salmon,*** that addressed the following specific comments:

> "Even though we are one of the property owners most affected by the proposed repeal, we fully support the goals of the City. As we are sure the City knows, the proposed ordinance will eliminate many development options and will therefore significantly decrease the general development value of our properties. Please accept the following as our specific written comments:
>
> *17.36.050 Off-street parking. There shall be two off-public-street parking spaces for each mobile/manufactured home space.* Comment: This we decrease affordability and should be reconsidered.
>
> *17.36.080 Eviction notices for change of use or closure of a mobile/manufactured home park; 17.36.090 Relocation report and plan; 17.36.100 Certificate of completion of the relocation report and plan; 17.36.110 Notice of provisions; 17.36.120 Administration.* Comment: We reserve formal comment on these provisions as the current closure process of the Washington Street Trailer Park, which is located on one of our MHZ parcels, is currently under the jurisdiction of, and being regulated by, the Washington Attorney General. We have worked closely with the Attorney General for the past 9 months since the filing of the required Closure notice. Although the proposed MHRP

ordinance is not applicable to our closure process, we are more than willing to provide informal thoughts on the provisions of these proposed sections based on our experience over the past year.

17.36.160 Additional Requirements. C. No manufactured or mobile home, or any addition or accessory building thereto, may be placed upon a lot in any MHRP District without first obtaining a building permit and sewer and water connection permits, and authorization, from the building inspector. Any required fees shall be in accordance with the current City Fee Schedule. Comment: This requirement will dramatically decrease affordability which is the City's stated goal. On one hand, the ordinance is saying site built homes are not allowed in the zone. On the other, the ordinance says that each dwelling will be taxed by for city services the same way site built homes are taxed. This is not consistent with existing zoning or affordability policy. In its place, the City should consider a single reduced impact rate for the entire development on a proposed on any MHRP parcel.

F. All water, sewer and storm-water shall comply with the most current State laws and City standards and regulations. Connections shall be made to the City utility system, if available and applicable. The sewer connection shall be provided with suitable fittings so that a watertight connection shall be so constructed that it can be closed and locked, when not linked to a dwelling, and shall be capped so as to prevent any escape of odors. Comment: Same affordability rationale as for subparagraph C comment above should be considered.
17.36.170 Building permit required. Comment: Same affordability rationale as for subparagraph C comment above should be considered."

Sara Medina, Washington Street Trailer Court, White Salmon stated that she has lived in Washington Street Trailer park for 10 years and her motive for attending is her worry for her children and all others who live in their trailer court. She stated that her children do not want to leave their school, in particularly her high schooler who is at risk of losing his college scholarships if her family moves to Oregon. Medina said she is unable find rent because either rent is expensive or have many requirements. (Interpreted by Carlos Ibarra)

Gabrielle Gilbert, White Salmon Urban Exempt Area, Klickitat County stated that this is about the city doing the right thing and keeping the community together. She asked the council and planning commission to remember the last trailer park was removed with little resistance. She said that it destroyed families who had to rebuild. Gilbert requested the city to establish model policies because if you have an income below $60,000 a year, families are living hand to mouth, and anything less would be working into the food budget. Gilbert said she supports ADUs as they offers an additional income.

Soila Loeza, White Salmon Urban Exempt Area, Klickitat County stated she works with Mid-Columbia Children's Council Headstart and works directly with low income families. She said that most families affected by the Washington Street Trailer Court evictions have gone through the headstart program and that she sees them very upset trying to find housing. Loeza said families have invested a lot of money on their trailers and it would be nice for them to stay living in this community. She said she has seen the stress it places on the family, including kids.

Ubaldo Hernandez, Inside City Limits, White Salmon stated he has lived in the community for 25-years and acknowledged the hardworking people of the Washington Street Trailer Court that work in the service industry that may want to speak up but do not have the skills to do so. He stated that as a community, people are aware of protecting their investments and think it is valid, but they would also like to acknowledge that the salary for the rent is part of an investment too. Hernandez stated that if these families leave because rents are too high, they will no longer be investing money into the community.

Edith Flores, Formerly Residing in White Salmon stated that she moved to The Dalles, OR five months ago from White Salmon because she could not find any affordable housing. She stated that it is very complicated because her children still attend school in White Salmon and she commutes to work in Bingen, WA. Flores thanked the council members and commissioners for listening to their needs. (Interpreted by Carlos Ibarra)

Kalama Reuter, Inside City Limits, White Salmon stated that she supports diversity and is a strong advocate of affordable housing. She said she agrees with Brookside Development LLC's comments that the new code has some issues about affordability. Reuter stated she appreciates the hard choices that have to be made but to please consider the people.

Manuel Villa, Washington Street Trailer Court, White Salmon stated that he is a resident of the Washington Street Trailer Court and has been living in the community for over 30 years. He said he has five grown children that have moved out and now he and his wife live alone. Villa said he understands the city can't give freely, but desires the opportunity to stay within the community. He stated he believes rents are too high and would appreciate it if the city could help relocate him and the affected families. He said he feels the pressure as there are four months left to move although he continues to work in local service jobs. Villa said he would not like to move because this area is all he knows since he has been in this country. (Interpreted by Ubaldo Hernandez)

Joel Madsen, Inside City Limits, White Salmon Executive Director of Mid-Columbia Housing Authority, stated that he does not have specific comments on the ordinance itself but appreciates and wanted to show support for preserving the zone for the City of White Salmon. He stated that he appreciates the thoughtfulness in the discussion around contemplating relocation and providing adequate notice. Madsen ncouraged the city council to pass the ordinance as is and to favor the residents of the mobile home park.

Mariol Ramirez, Washington Street Trailer Court, White Salmon stated that she has resided in White Salmon for 27-years, living in Washington Street Trailer Court since 2004. She stated that she is upset and affected because her family is being dislocated which in turn affects the community because the cost of living is too high. (Interpreted by Carlos Ibarra)

Tao Berman, Inside City Limits, White Salmon states that he previously owned a mobile home park and knows how difficult it is to make the math work, but feels for the families that are having to move on. He said he would like to bring focus to the basic economics and asked the code to maintain some level of affordability while not having the park go into disrepair. He stated he supports trying to keep manufactured homes in the community, but with all the hookup fees a project is dead upon arrival, and

believes the fees must be waived for a developer to make such improvements while charging an affordable rent price. Berman says he thinks the ordinance still needs work if the objective is to put a code in place that investors can actually invest into achieving the stated comprehensive plan goals that he supports.

Chairman Henry thanked Carlos Ibarra and Ubaldo Hernandez for interpreting for the Spanish speaking community.

Carlos Ibarra, Unknown Location stated that livable conditions, affordability and money has different meaning for everyone, but at the end of the day the community wants families to be together. He reflected on how expensive it is to build and buy materials.

The public hearing was closed by Planning Commission Chair Ross Henry at 6:11 p.m. and the Special Meeting of the City Council adjourned at 6:12 p.m.

Marla Keethler, Mayor

Jan Brending, Clerk Treasurer