PARKS & PUBLIC WORKS COMMITTEE & COMMITTEE OF THE WHOLE MEETING
(NOTE TIME CHANGE)
Tuesday, October 22, 2024, at 4:30 PM
Snoqualmie City Hall, 38624 SE River Street & Zoom

COMMITTEE MEMBERS
Chair: Ethan Benson
Councilmembers: Bryan Holloway and Catherine Cotton

This meeting will be conducted in person and remotely using teleconferencing technology provided by Zoom.

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4) Please confirm that your audio works prior to participating.

CALL TO ORDER & ROLL CALL

AGENDA APPROVAL

PUBLIC COMMENTS (online public comments will not be taken).

MINUTES

1. Approval of minutes dated October 8, 2024.

AGENDA BILLS

2. **AB24-117:** Agreement with NHC for the 2025 Stormwater Comprehensive Plan Update.
3. **AB24-113:** Award Public Works Contract to Forma Construction Company for Police Station Improvements.
4. **AB24-116:** Reclaimed Water System Improvements Project Update.
5. **AB24-112:** Reclaimed Water System Improvements Project Amendment to RH2 Services Agreement.

DISCUSSION

6. Utility Rate Study.
7. Kimball Creek Bridges Restoration Project Update.
8. Director Reports:
    a. Staffing
    b. Project status

ADJOURNMENT

PARKS & PUBLIC WORKS COMMITTEE & COMMITTEE OF THE WHOLE MEETING MINUTES OCTOBER 8, 2024

This meeting was conducted in person at Snoqualmie City Hall and remotely using Zoom.

CALL TO ORDER

The meeting was called to order at 4:30 pm.

Committee Members: Councilmembers Bryan Holloway and Catherine Cotton were present.

Councilmember Benson's absence was excused.

City Staff:
Mike Chambless, City Administrator; Deana Dean, City Clerk; Drew Bouta, Finance Director; Jeff Hamlin, Parks & Public Works Director; Dylan Gamble, CIP Manager; Patrick Fry, Project Engineer; Andrew Vining, Project Engineer; Emily Arteche, Community Development Director; Janna Walker, Budget Manager; Jen Hughes, Deputy Finance Director; Fletcher Lacroix, IT Director; and Andy Latham, IT Support.

AGENDA APPROVAL

The agenda was approved as presented.

PUBLIC COMMENTS – There were no public comments.

MINUTES

1. The minutes from September 17, 2024, were approved as presented.

AGENDA BILLS

2. **AB24-103: Parks, Recreation, Open Space, and Trails (PROST) Plan Update.** Introduction provided by CIP Manager Dylan Gamble. Appearing remotely were Randall Kopff, Marissa Pellegrini, and Nick Chen from Kimley-Horn. Presentation provided by Kimley Horn who reviewed the project goals, key themes of the plan, demographics and recreation trends analysis, community engagement, facility inventory and assessment, park classification and level of service, and strategic implementation plan. Committee comments and questions followed. This item will be brought forward to Council for approval at a future date.

3. **AB24-102: Revising the Corporate Boundary of the City of Snoqualmie to Include a Portion of 384th Ave SE Right of Way.** Overview provided by Project Engineer Patrick Fry. Committee comments and questions followed. Committee requests detail on cost savings to support this request. This item is approved to move forward at the October 14, 2024, Council meeting for first reading of Ordinance 1297.

4. **AB24-100: Residential Sewer Connection.** Overview provided by Parks & Public Works Director Jeff Hamlin. Committee questions followed. This item is approved to move forward at the October 14, 2024, Council meeting on the consent agenda.

DISCUSSION

5. **Wireless Communications Siting Hierarchy Amendments.** This item was introduced by Community Development Director Emily Arteche who inquired with the Committee on whether there is interest to explore potential sites for wireless facilities and conditions that would be acceptable. Additional information provided by City Administrator Mike Chambless. Committee questions and comments followed. Staff will review the code for potential modifications and bring this item back to Committee.

ADJOURNMENT

The meeting was adjourned at 5:16 pm.

Minutes taken by Deana Dean, City Clerk.
Recorded meeting audio is available on the City website after the meeting.
Minutes approved at the _____, 2024, Parks & Public Works Committee Meeting.

BUSINESS OF THE CITY COUNCIL
CITY OF SNOQUALMIE

AB24-117
October 28, 2024
Ordinance

AGENDA BILL INFORMATION

TITLE:	**AB24-XXX:** Agreement with NHC for the 2025 Stormwater Comprehensive Plan Update	☐ Discussion Only ☒ Action Needed:
PROPOSED ACTION:	Adopt Resolution XXX awarding NHC for the 2025 Stormwater Comprehensive Plan Update	☐ Motion ☐ Ordinance ☒ Resolution

REVIEW:	Department Director	Jeff Hamlin	Click or tap to enter a date.
	Finance	Janna Walker	10/16/2024
	Legal	David Linehan	Click or tap to enter a date.
	City Administrator	Mike Chambless	Click or tap to enter a date.

DEPARTMENT:	Parks & Public Works	
STAFF:	Patrick Fry, Project Engineer	
COMMITTEE:	Parks & Public Works	**COMMITTEE DATE:** October 22, 2024
EXHIBITS:	1. AB24-117x1a (Resolution.) 2. AB24-117x2 (Scope of Work) 3. AB24-117x3(Compensation)	

AMOUNT OF EXPENDITURE	$ 163,171
AMOUNT BUDGETED	$
APPROPRIATION REQUESTED	$ 163,171

SUMMARY

INTRODUCTION
The City of Snoqualmie seeks to contract with Northwest Hydraulic Consultants (NHC) to update and complete the 2025 update to the City of Snoqualmie's Stormwater Comprehensive Plan.

ANALYSIS
NHC created a draft of the "Stormwater System Plan" in 2020, yet the plan was never completed or adopted. Staff is proposing to have NHC complete the work that began as part of the 2020 Plan, and further update the plan.

As well as updating the now 5 year old chapters, the intent is to add additional chapters to the plan, such as a chapter identifying basin deficiencies and assessing opportunities for retrofits, which will help meet future NPDES Stormwater requirements; Another chapter will be to create a Capital Facilities Plan, prioritizing improvements to the stormwater system and providing planning level costs, which will help inform what projects to complete and when, similar to the planning documents used for informing when to

complete water & sewer projects. This plan will be referenced when planning capital improvement projects, to ensure that when doing work nearby work, if adjacent stormwater infrastructure is in need of repair the City will consider completing a more comprehensive project. Another chapter will be a full review of the City's Operation and Maintenance (O&M) procedures, which will help staff streamline workflows ensuring that all NPDES O&M requirements are met and that efficiencies are gained where possible. It will also streamline future onboarding of stormwater staff.

This planning document will allow staff to have a single comprehensive document to refer to for all things stormwater in the City. This be a major organizational gain, and ensure that all City staff can work from the same set of information.

BACKGROUND

The existing draft of the Stormwater System Plan, last updated in 2020 was intended to become the Comprehensive plan. Yet, due to new (in 2019) requirements in the NPDES Stormwater Permit, a Stormwater Management Action Plan (SMAP) document needed to be created. In lieu of completing the Stormwater system plan, NHC shifted gears to complete the SMAP, ensuring that the City met all NPDES requirements. Now that the SMAP work is completed, the City is proposing that NHC shift back to completing the Stormwater Comprehensive Plan.

BUDGET IMPACTS

Administration recommends approving a contract with NHC in the amount of $163,171 to complete the Stormwater System Plan. This expenditure was not included in the 2023-24 Biennial Budget or the 2025-26 Biennial Budget. A portion of this contract will likely fall in 2024 (estimated at $20,000 or less) and Administration expects that these costs will be paid for by available appropriation with the Stormwater Utility Fund (#403), as illustrated in the table below. For the remaining portion that will occur during the 2025-26 biennium, estimated at $143,171, Administration expects to bring an amendment forward to cover this amount.

Stormwater Utility (#403)

		2023-2024 Amended Biennial Budget
Beginning Budget	$	6,522,419
Expenditures	$	(5,883,566)
Outstanding Contract Value (Previously Approved)	$	(59,222)
Estimated Labor Value for Remainder of Biennium (City Employees)	$	(198,784)
Current Available Budget	$	380,846
Value of this Contract (AB24-0XX)	$	(20,000)
Available Budget after AB24-0XX	$	360,846

NEXT STEPS

Staff recommend awarding a consultant contract with Northwest Hydraulic Consultants for the 2025 Stormwater Comprehensive Plan Update and authorizing the Mayor to sign.

PROPOSED ACTION

Motion to adopt Resolution XXX awarding NHC for the 2025 Stormwater Comprehensive Plan Update

RESOLUTION NO. XXXX

A RESOLUTION OF THE CITY COUNCIL OF CITY OF SNOQUALMIE, WASHINGTON AWARDING AND AUTHORIZING EXECUTION OF A CONTRACT WITH NORTHWEST HYDRAULIC CONSULTANTS, INC FOR DRAFTING AND UPDATING THE CITY'S STORMWATER SYSTEM PLAN

WHEREAS, pursuant to Ordinance No. 448 as codified in Snoqualmie Municipal Code Section 1.08.010, the City of Snoqualmie has adopted the classification of non-charter code city, retaining the mayor-council plan of government as provided for in Chapter 35A.12 RCW; and

WHEREAS, upon review of several qualified firms on the MRSC roster, the City chose to select Northwest Hydraulic Consultants, Inc. to provide the requested planning services for the Project; and

WHEREAS, the City seeks to update the Stormwater System Plan; and

WHEREAS, City Staff recommends using Northwest Hydraulic Consultants as the most qualified firm to work on the Project.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SNOQUALMIE, WASHINGTON AS FOLLOWS:

Section 1. Award of Planning Services Contract.

The City hereby awards the contract for the City of Snoqualmie's Stormwater System Plan update to Northwest Hydraulic Consultants ("NHC").

Section 2. Authorization for Contract Execution.

The Mayor is authorized to execute a contract for planning services in the amount of $163,171 with NHC in substantially the form attached hereto as Exhibit A.

PASSED by the City Council of the City of Snoqualmie, Washington, this 28th day of October 2024.

_____
Katherine Ross, Mayor

Attest:

_____
Deana Dean, City Clerk

Approved as to form:

_____
David Linehan, Interim City Attorney

EXHIBIT A
Scope of Work for
City of Snoqualmie
2025 Stormwater Comprehensive Plan Update
September 2024

Background

The City of Snoqualmie (City) is a municipal corporation that is responsible for providing stormwater service to its service areas. The City provides services to areas within the City limits and areas of unincorporated King County. The City has requested that Northwest Hydraulic Consultants (NHC) author a 2025 update to the City's Stormwater Comprehensive Plan (SCP). The 2025 SCP update will be performed as Task Assignment under NHC's on-call agreement with the City.

NHC will request new asset information from the City and will use and rely upon the data information for the update. Unless otherwise noted, deliverables will be provided in electronic MS Word, PDF, and Geographical Information System (GIS) formats as appropriate and requested by the City.

A detailed workplan follows.

1 TASK 1 - PROJECT MANAGEMENT

Objective: Manage the NHC project team, files, and records. Monitor the scope and budget. It is estimated this project will extend approximately twelve (12) months.

Approach: Prepare, monitor, and update the project schedule on a monthly basis. Review work performed for consistency with this Scope of Work, monitor budget, prepare monthly invoices, and provide City staff with monthly briefing via email for the twelve (12)-month schedule.

1.1 Maintain project records, coordinate NHC staff with project team, prepare, monitor, and update the project schedule and budget.

1.2 Kick-off meeting (remote).

Assumptions:

- *Attendees may participate via web-ex or in person – no travel time or expenses are included for kick-off meeting.*

NHC Deliverables:

- Invoice documenting monthly progress of work completed and earned value compared to contract value.
- It is assumed that two NHC staff will attend the kick-off meeting.

2 TASK 2 – REVIEW OF EXISTING INFORMATION AND DATA GAP IDENTIFICATION

Objective: Review the existing information and data available from the City and other local entities. Review planning-related documents and identify the impact of population projections on the City's stormwater system. Identify additional data necessary to complete the SCP. Assist the City in collecting data and inventorying for the stormwater system planning process and review the data and inventories used in developing the SCP. Existing data will be leveraged where available, so the amount of field survey can be limited.

Approach:

2.1 Prepare and submit a list of data and mapping needs.

2.2 Review the 2022 Preliminary Draft Stormwater System Plan and other relevant plans, existing system information, drainage complaints, and data.

2.3 Review GIS inventory data and maps provided by the City and develop an inventory of stormwater utility for use during the plan updates.

2.4 Review/QAQC historic hydrometric data (sewer and streams) and develop inventory and summary. Provide narrative and quantitative characterization.

2.5 Based on review of records, field investigations, and discussions with City maintenance staff, determine if there are areas of the existing stormwater system with critical data gaps that require additional investigation (e.g. field survey, video inspection, or other).

2.6 Send future land use condition and impervious area assumptions to City for confirmation.

Assumptions:

- *The stormwater system has been mapped in GIS and will be provided for use (either as shapefiles or in a geodatabase).*

- *The City will provide data and maps requested in the data request within five (5) weeks of contract execution.*
- *The City will provide additional investigations and/or video inspection of utility systems if required.*
- *NHC will rely upon the accuracy and completeness of any information, data, and materials generated or produced by the City or others in relation to this Scope of Work.*

Provided by the City:

- All available data on the existing stormwater system will be Provided by the City, including drainage reports, if available.
- City is responsible for providing information identified as data gaps. This may require field work and traffic control for spot surveying of utilities.

NHC Deliverables:

- Compilation and review of data and maps provided by the City.

3 TASK 3 - BASIN IDENTIFICATION AND ANALYSIS

Objective: Review stormwater basin delineations to define areas contributing runoff to the City's drainage system, conduct field reconnaissance, and update facility inventory information to support the modeling and capacity analysis. This Task aims to describe stormwater-specific aspects of the study area, the tributary drainage basins in the City, applicable total maximum daily load (TMDL) requirements, and extents of the City's Municipal Separated Stormwater System Service (MS4) area served under its National Pollutant Discharge Elimination System (NPDES) Phase II Permit. Develop stormwater models of the City's existing stormwater system.

Approach:

3.1 Prepare a description of the stormwater system ownership and management. Include the contact person and address. The SCP will focus on the City's regulated MS4 but also will reference major private facilities that affect operation at the City's facilities.

3.2 Delineate stormwater basins based on the City's system and existing GIS data.

3.3 Develop and execute a desktop analysis to identify fish passage barrier culverts across the City that are of the highest priority for replacement (approximately 10). Includes 1 day of field verification.

3.4 Review and summarize regulated flood hazard areas within the City.

3.5 Utilizing one (1) field day, visit as many stormwater facilities (e.g., detention ponds, water quality treatment facilities, etc.) as possible with City staff to collect field information, observe layouts and existing conditions, and obtain maintenance staff input/complaints regarding the existing stormwater system. Deficiencies in the facilities will be noted, along with potential for retrofit improvements (e.g. available space for expansion, etc.). It is assumed that two (2) NHC staff person for a total of one (1) days in the *field plus time for travel.*

3.6 Perform hydrologic analysis. NHC recommends using a combination of drainage complaints and modeling to identify limitations and assess capacities of the existing system. Runoff from the entire City was modeled using Hydrologic Simulation Program Fortran (HSPF) in 2022 to characterize runoff quantity and quality. Additionally the conveyance network in downtown Snoqualmie was also modeled using the USEPA's Stormwater Management Manual (SWMM) model to identify conveyance deficiencies. Under this task NHC will review and refine the basin delineation in the HSPF model to characterize new developments and changes in runoff patterns. Updates to the SWMM conveyance model are not included.

3.7 Input land use classifications into the HSPF model and assign estimated pervious and impervious areas for use in future condition stormwater modeling and review with the City.

3.8 Provide short narrative about potential impacts from change on future precipitation and conveyance capacity, but City did not authorize explicit future climate modeling.

3.9 Review the modeling for consistency with specific drainage complaints and maintenance staff observations applicable to existing stormwater system modeling. Coordinate with the City to identify the source of inconsistencies between the drainage complaints, and modeled results. Inconsistencies may be the result of unknown pipes in the system or incorrect diameter of pipes shown on system mapping. *Since this item is highly variable*

in nature, an initial allocation of forty (40) hours of a stormwater modeling specialists time have been included for this subtask.

3.10 Review downstream boundary conditions. An existing 1D HEC-RAS model of the Snoqualmie River was used to establish downstream water-levels at stormwater outfalls to Snoqualmie River. Those water-levels will be reviewed and updated, if required.

Assumptions:

- *No new stormwater ponds need to be added to the HSPF model.*
- *It is assumed that neither a Washington State Department of Transportation (WSDOT) survey permit nor other traffic control plan review will be required for field survey work (i.e. it will be performed outside the WSDOT right-of-way).*
- *Maintenance staff will accompany and provide access to stormwater facilities.*

Provided by City:

- Review and comment on future conditions for modeling.
- Assistance with identifying sources of inconsistencies in model calibration (if added and flow monitoring data exists).
- As-built drawings for existing stormwater facilities in digital format.

NHC Deliverables:

- Stormwater basins delineated based on the City's system in GIS format.
- Attendance at facility visits with City staff.
- Descriptions of existing system components.
- Coordination with the City to confirm completeness and accuracy of the stormwater model.
- Written summary of the hydrologic analysis findings in tabulated format summarizing existing flow rates and potential peak flow rates for each basin and sub-basin in PDF format.
- System inventory in electronic database (ESRI Shapefile or Excel).

4 TASK 4 - DETERMINE BASIN DEFICIENCIES

Objective: Evaluate existing stormwater collection system, including detention and treatment facilities, for existing and projected future growth conditions to identify deficiencies and recommend improvements. Assess the overall reliability and vulnerability of the existing

system. Evaluate the stormwater system to identify pollution hotspots and develop an inventory of opportunities for stormwater retrofits.

Approach:

4.1 Develop tabulation of historic climate 2, 10, 25, and 100-year return period storm peak flows for each basin in the study area.

4.2 Perform stormwater modeling of the existing stormwater system in the Downtown Snoqualmie basins to identify and describe existing deficiencies in the system.

4.3 Perform stormwater modeling of future land use conditions in the Downtown Snoqualmie basins to identify and describe impacts to the existing system.

4.4 Document the stormwater modeling criteria and model settings and assumptions.

4.5 Map flooding locations within the downtown region and under-capacity pipes in GIS covering the project area.

4.6 Develop conveyance improvement recommendations to address existing deficiencies and plan for future stormwater system needs (i.e. pipe size increases and/or replacements).

4.7 Identify water quality concerns at hot spots in the system that are not currently meeting the City's goals for water quality. These problems will not be identified through modeling but through existing water quality data and/or the application of GIS to identify areas in the stormwater system lacking adequate existing water quality treatment BMPs using metrics such as high ADT businesses and roadways and industrial uses with relatively high pollutant loading rates.

4.8 Identify programmatic and structural opportunities to improve water quality (as required by TMDLs).

Assumptions:

- Stormwater modeling will be performed for existing conditions and a single future condition, assumed *to be build-out based* on land use.
- *Analyses of the conveyance system will be conducted for the 25-year event (or other event identified as the preferred level-of-service).*
- *Improvements will be planning level and conceptual in nature.*

Provided by City:

- All existing stormwater policies and practices currently implemented by the City.

NHC Deliverables:

- Stormwater modeling results.
- A list of recommended stormwater conveyance improvements in PDF format.
- Description of known deficiencies of existing facilities in PDF format.
- A list of recommended water-quality retrofit areas and/or locations in PDF format.

5 TASK 5 - CAPITAL FACILITIES PLAN CHAPTER AND PLANNING ESTIMATES

Objective: Describe, prioritize, and schedule improvements to address deficiencies identified in the stormwater system analyses. Prepare planning-level option of costs for each project identified. Combine schedule and estimates into an overall CIP chapter for the stormwater utility plan.

Approach:

5.1 Review CIP list from preliminary 2022 plan and prepare an updated list of proposed stormwater system improvements (both structural and non-structural) based on the results of the existing system and planned future system analyses. Briefly describe each group of related improvements and the purpose/benefit of the improvements.

5.2 Develop cost estimates for identified CIP projects. RH2 will support NHC as a sub-consultant for this task.

5.3 Coordinate with City staff to establish criteria for prioritizing and scheduling improvements. Prioritization and scheduling will consider other scheduled projects based on information provided by the City and the CIPs developed for transportation and other utilities.

5.4 Describe the criteria and procedures used for prioritizing and scheduling improvements.

5.5 Meet with City staff to discuss the stormwater system improvements and the proposed schedule of implementation. *It is assumed that one NHC staff will attend this meeting.*

NHC Deliverables:

- Written summary of capital projects
- Attendance at one (1) meeting with City staff.

- Meeting minutes

6 TASK 6 – REGULATORY AND O&M REVIEW

Objective: Review existing stormwater regulations, policies, and design criteria and recommend, as necessary, changes to these policies so that stormwater facilities can meet current design standards and new and existing regulatory requirements. The review will specifically address the 2024 NPDES permit requirements for maintenance, inspection, and enforcement. A recommended timeline of milestones to meet each requirement will be included in the SCP. Perform a review of the stormwater system's operations and maintenance (O&M) program, as well as maintenance and staffing levels. If new facilities and/or maintenance activity needs are identified, recommendations for additional staffing will be provided.

Approach:

6.1 Summarize the City's current stormwater code and regulations and identify if gaps exist that should be revised.

6.2 Review 2024 NPDES permit requirements and the City's stormwater program to identify gaps related to O&M, inspection, enforcement, or review of applications for new and re-development projects.

Provided by City:

- Current City stormwater regulations and access to City attorney for consultation.

NHC Deliverables:

- A copy of the effective stormwater code as an appendix of the SCP in PDF format.
- Summary of gaps in the City's stormwater program that need to be filled to meet 2024 NPDES permit requirements in PDF format.

7 STORMWATER COMPREHENSIVE PLAN COMPILATION

Objective: Prepare draft and final SCP.

Approach:

7.1 Identify the purpose of the SCP and summarize the major system characteristics.

7.2 Briefly describe the key issues in the SCP, including the following.

- Policies and design criteria
- Watershed and tributary drainage basins
- Existing and future systems
- System evaluation and deficiencies
- Recommended improvements

7.3 Preparation of draft SCP for City review

7.5 Respond to City comments and submittal of final SCP.

7.6 Prepare the appendices for the SCP.

Assumptions:

- *The number of review comments are difficult to predict and highly variable. An initial allocation of ten (10) hours has been included for revisions to the SCP chapters based on City review comments. If an unusual number of comments are received, or the scope of the comments are excessive, a scope amendment may be required to address the comments.*

NHC Deliverables:

- Draft executive summary chapter for City review and comment

Northwest Hydraulic Consultants Inc.

Address: 12787 Gateway Dr. Seattle, WA 98168

Tel. (206) 241-6000
Fax (206) 439-2420

Prepared for: City of Snoqualmie
Project: 2025 SCP Update
Date: September 26, 2024
Project No.: 2009370
Prepared By: Derek Stuart and Chad Drake

Labor Detail

Task	Description	NHC Labor Cost
1	Project Management	$ 11,115
1.1	Project Management	$ 9,555
1.2	Kickoff Meeting and Confirm Plan	$ 1,560
2	Review of Existing Information and	$ 20,620
2.1	Prepare list of data and mapping needs	$ 1,390
2.2	Review 2022 Plan	$ 1,690
2.3	Review data/develop inventory	$ 3,445
2.4	Review/QAQC hydrometric data	$ 12,740
2.5	Identify if there are critical data gaps	$ 1,010
2.6	Land Use and Population	$ 345
3	BASIN IDENTIFICATION AND ANALYSIS	$ 46,465
3.1	Describe stormwater system ownership	$ 2,560
3.2	Delineate basins	$ 3,630
3.3	Identify and prioritize fish passage	$ 13,450
3.4	Review regulated flood hazard areas	$ 1,360
3.5	Visit stormwater facilities	$ 4,500
3.6	Update HSPF model w/ new dev.	$ 9,280
3.7	Overlay analysis, existing and future	$ 2,465
3.8	Develop future climate narrative	$ 1,320
3.9	Review for consistency with drainage	$ 7,270
3.10	Development of downstream boundary	$ 630
4	Determine Basin Deficiencies	$ 28,625
4.1	Tabulate 2, 10, 25 and 100-year peak	$ 2,870
4.2	Identify existing system deficiencies	$ 2,290
4.3	Identify future system deficiencies	$ 2,290
4.4	Document Model and Assumptions	$ 7,900
4.5	Map flooding locations	$ 1,300
4.6	Develop conveyance improvements	$ 4,930
4.7	Identify hot spots of pollution loading	$ 3,395
4.8	Identify Programmatic and Structural	$ 3,280
5	Capital Facilities Plan and Cost	$ 13,850
5.1	List and describe proposed system	$ 4,860
5.2	Cost Estimates	$ 1,050
5.3	Prioritization	$ 4,880
5.4	Schedule Improvements	$ 1,370
5.5	Discuss projects with City staff	$ 1,690
6	Regulatory AND O&M Review	$ 11,430
6.1	Review local stormwater code	$ 2,110
6.2	Review 2024 NDPES permit req.	$ 9,320
7	Report Assembly	$ 20,900

7.1	Executive Summary		$ 4,400
7.2	Describe key issues in the SCP		$ 6,370
7.3	Draft Document Layout		$ 7,790
7.5	Respond to revisions and submit final		$ 2,640
			$ 152,635

Direct Expense Detail	**Cost**
Mileage	$ 536
	$ 536

Sub-Consultant Detail	**Cost**
RH2 Cost-Estimates	$10,000
	$10,000

Cost Summary	**Cost**
Total Labor	$ 152,635
Total Sub-Consultants	$ 10,000
Total Direct Expenses	$ 536
Total Project Cost Estimate:	**$ 163,171**

BUSINESS OF THE CITY COUNCIL
CITY OF SNOQUALMIE

AB24-113
October 28, 2024
Consent Agenda

AGENDA BILL INFORMATION

TITLE:	**AB24-113:** Award a Public Works Contract to Forma Construction Company for Police Station Improvements	☐ Discussion Only ☒ Action Needed:
PROPOSED ACTION:	Adopt Resolution No. XXXX Awarding a Public Works Contract to Forma Construction Company for Police Station Improvements	☐ Motion ☐ Ordinance ☒ Resolution

REVIEW:	Department Director	Brian Lynch	Click or tap to enter a date.
	Finance	Janna Walker	10/9/2024
	Legal	David Linehan	Click or tap to enter a date.
	City Administrator	Mike Chambless	Click or tap to enter a date.

DEPARTMENT:	Police	
STAFF:	Gary Horesjsi, Captain	
COMMITTEE:	Parks & Public Works	**COMMITTEE DATE:** October 22, 2024
EXHIBITS:	1. AB24-113x1a (Res. No. XXXX) 2. AB24-113x1b (Contract)	

AMOUNT OF EXPENDITURE	$ 164,728
AMOUNT BUDGETED	$ 345,000
APPROPRIATION REQUESTED	$ 0

SUMMARY

INTRODUCTION

This Agenda Bill seeks approval to award a public works contract to Forma Construction Company for Police Station Improvements and authorize the mayor to sign the contract. In order to meet WASPC accreditation standards and current best practices, issues in the original building design need to be resolved. This contract looks to remediate the most pressing concerns identified during the LEMAP review and promotes a higher level of operation and standards for the agency.

The Police Station Improvements was quoted and priced using the pre-bid work as part of the Job Order Contracting. Forma was selected as the contractor to complete the Job. The total price for the improvements total $164,728.

BACKGROUND

The recently adopted City of Snoqualmie 2025-2026 Biennial Budget identifies the need to improve the Police Station. The existing Police Station located at 34825 SE Douglas St, Snoqualmie WA was designed in 1997. Since the initial design, security standards for Police Stations have evolved and the proposed contract will update the building to meet current security recommendations.

LEGISLATIVE HISTORY

Job Order Contracting (JOC) is an Alternative Public Works Contracting Procedure as laid out in Chapter 39.10 of the RCW. The primary objectives of the JOC program are to rapidly engage contractors in the performance of small to medium sized public work projects; to reduce administrative, construction, design, and planning costs; and to develop relationships with contractors to respond to community needs more quickly and efficiently. The JOC provides an effective means of reducing the lead-time and cost for public works projects by eliminating time-consuming, costly aspects of the traditional public works process. According to Mortensen, costs rose 4.9% in the last year, by moving quickly, staff will be able to preserve the buying power of approved funds. The existing spending approval authority is still required for all projects.
The City of Snoqualmie selected Forma Construction as one of the on-call Contractors for the Job Order Contracting Procurement Method in AB23-052 after soliciting bids. Job Order Contracting allows for pre-priced work identified in the Construction Task Catalog with Forma having won a bid with a low adjustment factor of the construction task catalog.

BUDGET IMPACTS

Administration recommends approving a JOC with FORMA Construction Company in the amount of $164,728 for Police Station facility improvements. The Police Station Facility Improvements Project is included within the 2025-2030 Non-Utilities Capital Improvement Plan (CIP) (#310) and as part of the continuing project appropriations specified in the Budget Ordinance (Ordinance No. 1296). The 2025-26 Budget Ordinance appropriates $345,000 for the Police Station Facility Improvements Project. Nothing has been spent on this project and $39,660 is encumbered for City employees' labor related to the project. With the addition of the FORMA Construction Company JOC, the remaining Biennial Budget appropriation is $140,612, as shown in the table below. Therefore, sufficient appropriation exists within continuing appropriations (Non-Utilities Capital Fund #310) to fund the contract.

Police Station Facility Improvements Project (#310)

		Life-of-Project Budget
Beginning Budget	$	345,000
Expenditures	$	-
Outstanding Contract Value *(Previously Approved)*	$	-
Estimated Labor Value for the Project (City Employees	$	(39,660)
Current Available Budget	$	305,340
Value of the Job Order Contract with FORMA *(AB24-113)*	$	(164,728)
Available Budget after AB24-113	$	140,612

NEXT STEPS

Staff recommend awarding a Public Works Contract to Forma Construction Company for Police Station Improvements Project and authorize the mayor to sign.

PROPOSED ACTION

Motion to Adopt Resolution No. XXXX Awarding a Public Works Contract to Forma Construction Company for Police Station Improvements.

RESOLUTION NO. XXXX

A RESOLUTION OF THE CITY COUNCIL OF CITY OF SNOQUALMIE, WASHINGTON DETERMINING THE LOWEST RESPONSIBLE, RESPONSIVE BIDDER, AWARDING A PUBLIC WORKS CONTRACT TO AND AUTHORIZING EXECUTION OF A PUBLIC WORKS CONTRACT WITH FORMA CONSTRUCTION COMPANY FOR THE POLICE STATION IMPROVEMENTS PROJECT.

WHEREAS, pursuant to Ordinance No. 448 as codified in Snoqualmie Municipal Code Section 1.08.010, the City of Snoqualmie has adopted the classification of non-charter code city, retaining the mayor-council plan of government as provided for in Chapter 35A.12 RCW; and

WHEREAS, pursuant to RCW 35A.40.210, procedures for any public work or improvement for code cities shall be governed by RCW 35.23.352; and

WHEREAS, in June 2023, the City utilized Job Order Contracting for Police Station Improvements Project ("the Project") for quotation; and

WHEREAS, the pre-priced sum of work totaled of $164,727.76 (including sales tax) from Forma Construction Company; and

WHEREAS, City staff has checked references and otherwise determined that Forma Construction Company and Job Order Contracting meets the mandatory bidder responsibility criteria established under RCW 39.10

WHEREAS, the Parks and Public Works Director and City Staff recommend award of this contract to Forma Construction Company as the lowest responsive, responsible bidder;

NOW, THEREFORE, BE IT HEREBY RESOLVED BY THE CITY COUNCIL OF THE CITY OF SNOQUALMIE AS FOLLOWS:

Section 1. Determination of Lowest Responsive, Responsible Bidder. Based on the foregoing recitals, which are hereby incorporated as findings of fact, Forma Construction

Company is the lowest, responsive, responsible bidder for the Police Station Improvements Project.

Section 2. Award of Public Works Contract. The contract the Police Station Improvements Project is hereby awarded to Forma Construction Company in accordance with its bid proposal.

Section 3. Authorization for Contract Execution. The Mayor is authorized to execute a contract with Forma Construction Company in substantially the form attached hereto as Exhibit A.

Passed, by the City Council of the City of Snoqualmie, Washington, this 28th day of October 2024.

_____
Katherine Ross, Mayor

Attest:

_____
Deana Dean, City Clerk

Approved as to form:

_____
David Lineham, City Attorney

City of Snoqualmie
38624 SE River Street, P.O. Box 987
Snoqualmie, Washington 98065

Job Order Authorization

Date: 8/26/2024

Job Order Contracting

Project Information	**Job Order #:**	2024-03F	**Location #:**
	Project:		
	Job Order Title:	Police Station Evidence Room TI	
	Location:	Police Station 34825 Douglas St Snoqualmie, WA 98065	
Contract Information	**Contractor Contract #:**	23-051	
	Vendor:	FORMA Construction Company (Olympia) 500 Columbia St NW Suite 201, Olympia, WA 98501	
Project Costs	**Construction:**	**$144,404.87**	
	Construction Sales Tax 8.9%	**$12,852.03**	
	Gordian Licensing 1.95%	**$2,815.89**	
	Sales Tax on License Fee 8.9%	**$250.61**	
	Gordian Fee 3.05%	**$4,404.35**	
	Total:	***$164,727.76***	
Charge Code			
Schedule	**Project Duration:**		
	Construction Started:		
	Construction Complete:		

Sign below to approve this Job Order. Mayor and City Administrator to sign if over $116,155. Parks & Public Works Director to sign if under $116,155.

Mayor **Date**

City Administrator **Date**

Parks & Public Works Director **Date**

City of Snoqualmie
38624 SE River Street, P.O. Box 987
Snoqualmie, Washington 98065

Final Scope of Work

Date: 8/26/2024

Job Order Contracting

To:

From: Brian Kazem
FORMA Construction Company (Olympia)
500 Columbia St NW Suite 201
Olympia, WA 98501
(360) 754-5788
briank@formacc.com

Contract No:	23-051	**Charge Code:**	
Job Order No:	2024-03F		
Job Order Title:	Police Station Evidence Room TI		
Location:	Police Station 34825 Douglas St Snoqualmie, WA 98065		
Brief Scope of Work:	Close off exterior garage door leading to evidence room with brick and mortar to match existing building exterior. Close off 1 man door and create 1 new man door. Add sink and associated plumbing to area with no plumbing.		

The following items detail the scope of work as discussed at the site. All requirements necessary to accomplish the items set forth below shall be considered part of this scope of work.

PROJECT: Police Station Evidence Room
Scope of Work

Location: 34825 SE Douglas St, Snoqualmie, WA 98065 **Date:** 8/8/2024

Description: Upgrades for SPD vault includes exterior wall infill, demo of existing garage doors, new security access doors, demo and infill of existing doors.

Contract Documents and Drawings:

- Construction drawings file: 97-057 Police station-Forma Comments date 06122024.pdf
  - Comments added to original 97-057 Police station.pdf

Description:
Upgrades for SPD vault includes exterior wall infill, demo of existing garage doors, new security access doors, demo and infill of existing doors.

Contract Documents and Drawings:

- Construction drawings file: 97-057 Police station-Forma Comments date 06122024.pdf
  - Comments added to original 97-057 Police station.pdf

General information:

- The performance of all work will be in accordance with OSHA and WISHA safety requirements. Work in accordance with applicable construction and buildings codes.
- The project start date will depend on award notice to proceed.
- All construction debris will be cleaned up during construction.
- Material storage shall be at the project site.
- Reasonable amounts of power and water for use by Forma and subcontractors during construction will be provided at no cost.
- Final cleaning of the site to remove any remaining debris or materials shall be accomplished at the conclusion of the project.
- Building permit to be provided by owner.
- All trades must be onsite during their respective inspection.
- Project hours are regular business hours.
- Each trade is responsible for maintaining the integrity of new or existing finishes to remain.
- Each trade is responsible for Daily cleaning of work areas each shift and at completion of work.
- Subcontractor to provide submittals and shop drawings within one week of NTP.
- Subcontractors must provide daily reports to the general contractor. Electronic version preferred.
- This is a prevailing wage job. All subcontractors must file L&I intents and affidavits of wages paid.
- Subcontractor to provide a one-year warranty from the date of substantial completion.
- No job site dumpster to be provided by Forma.
- All subcontractors undergo a background check and are approved before starting their work.

WORK PLAN

Demo:

- Demo H.M. frame and door in the hallway. (LOTO required key card access)
- Demo for reuse existing key card access for reuse.
- Uninstall existing casework/ O.H. Cabinets/ counter w/ sink for reinstallation. Store in location per SPD
- Remove existing lockers in garage and Vault for reuse later. Store in location per SPD
- Demo existing garage door and support structure.
- Demo of exterior garage door, frame anchors and miscellaneous components.
- Demo Existing shelves, wire racks and wall mounted items in garage for relocated casework.
- Provide delivery and removal of dumpster.
- Demo/ saw cut new door opening and dispose of CMU grout filled debris

Plumbing:

- Cut and cap plumbing at existing sink.
- Reinstall sink at Garage- Location TBD
    - Coordinate with casework locations.
    - Provide water connection and line for sink (cold water).
    - Provide Insta-hot for hot water at sink
    - Provide waste/drain line for sink.

Mechanical:

- Provide and install new range hood @ garage. Insulate per code.
    - Location TBD
- Provide and install duct for new range hood to exterior face.
    - Location and duct route TBD
- Provide an install exterior exhaust vent/ grill, make water tight.
    - Cut new opening for exhaust vent, locate per code.

Electrical/ Security Low voltage

- LOTO - Cut and cap power to overhead garage door and ceiling light fixtures.
- LOTO – Existing power to hallway door.
- Remove existing key card access and relocate to other side of same door.
- Provide and install power to new security door.
- Provide and install new access card reader.
- Provide and install power to new range hood, Coordinate w/ mechanical.
- *Provide low voltage connection to security panel*
- ***Program key cards access to existing system. (By Owner)***

Door Hardware:

- Provide and install new security door, hardware and HM frame, match existing door fire rating.
    - Refer to existing door frame tag.
    - **Note:** Door will require security access.

Casework: (Self Performed)

- Reinstall Casework and Counters to fit, VIF
- Provide additional support and blocking for counters/ casework, as required.

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FORMA CONSTRUCTION COMPANY
1016 1ST AVE SOUTH # 400 SEATTLE WA 98134 206.626.0256

Finish: (Interior)

- Provide and install Infill fire rated wall at demoed door/frame at hallway.
    - Match existing stud framing, gwb both sides
    - Provide insulation if needed to match
    - Mud, tape and prep for paint
    - Caulk and seal as required
    - Install Security mesh at inside face of new infill wall
- Patch and repair openings for new water connections, prep for paint.
- Prep, prime and paint (2) Coats on new walls, match existing colors.
- Provide and install new black base to match existing at new exterior wall and infill hallway wall.
- Provide, prep and paint new door and frame to match existing DTM paint.
- Provide metal angle lintel above new door. Bolted to one face of wall

Exterior Framing and Finish:

- Provide and install stud framing to match existing infill at garage door.
    - (Secured same day as Demo, with exterior sheathing and metal mesh).
- Provide and install sill gasket at bottom of new wall stud framing.
- Provide and install (1) Layer 5/8" Type "X" Exterior Gypsum sheathing at new infill wall.
- Provide and install in batt insulation to match existing.
- Provide and install a compatible air and weather barrier to existing air and weather barrier.
- Provide and install vertical girts for new FCP Siding.
- Provide and install Continuous security mesh at interior side of new infill wall.
- Provide and install (1) layer 5/8" GWB on inside face of new wall, mud and tape.
- Provide and install caulk, seal exterior new wall to be weather tight.
- Provide and install matching FCP siding.
- Patch and prep exterior siding for new paint.
- Provide (1) layer Primer on exterior FCP.
- Provide and paint (2) two coats of Exterior paint to match existing ones.
    - Extent of exterior painted area is in between two existing gutters.
- Provide, prime and paint interior face of new wall (1) layer primer and 2 coats paint to match existing.

Fence:

- Provide and install new fencing to match existing.
- New Fencing to be secured and to extend to ceiling.
- Provide and install Posts, anchors and horizontal rails (Bottom, Middle & Top) fence that extends to ceiling.
- Provide and install fencing to match existing to extend to ceiling.
- Provide and install Posts, and horizontal rails (Bottom, Middle & Top)

Assumptions:

- *Owner will clear all items and debris from fenced in area at garage and at SPD vault office.*
- Owner to provide Escorts for Security if necessary during construction.
- Owner will provide background *checks in less than 7 business days.*
- Restroom facilities can be used by workers.
- Owner will secure all items in vault, if necessary.
- Owner will allow for dumpster to be stored on-site.

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FORMA CONSTRUCTION COMPANY
1016 1ST AVE SOUTH # 400 SEATTLE WA 98134 206.626.0256

Special or potential long lead items:

- __ weeks
- __ weeks

Utility outages:

- Electrical coordination will be required for new security access and range hood.

Special training / orientation requirements:

- N/A

Hours of operation

- Normal work hours 7:00am - 5:00pm Monday – Friday.

Schedule issues

- N/A

Special security requirements

- Background checks for all subcontractors will be completed prior to start.

Milestones

- N/A

Hazardous materials

- Good faith Hazardous Materials survey to provide by owner.

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FORMA CONSTRUCTION COMPANY
1016 1ST AVE SOUTH # 400 SEATTLE WA 98134 206.626.0256

Price Proposal Detail Package Report
Version: 2.0
Approved 08/26/2024 01:46:57 PM EST

City of Snoqualmie

38624 SE River Street, P.O. Box 987 Snoqualmie, Washington 98065

Date:	August 26, 2024
JOC Name (Contractor):	FORMA Construction Company (Olympia)
Contract Name:	2023 - FORMA Construction Company - Base
Contract Number:	23-051
Job Order Number:	2024-03F
Job Order Title:	Police Station Evidence Room TI
Location:	Police Station
Cost Proposal Date:	August 26, 2024
Proposal Value:	$144,404.87

Division		Division Totals
01	General Requirements	$50,686.38
02	Existing Conditions	$2,468.78
05	Metals	$15,845.14
06	Wood, Plastics, and Composites	$6,331.15
07	Thermal And Moisture Protection	$3,845.70
08	Openings	$15,515.77
09	Finishes	$7,445.28
10	Specialties	$1,384.75
11	Equipment	$455.98
12	Furnishings	$729.00
22	Plumbing	$12,194.78
23	Heating, Ventilating, and Air-Conditioning (HVAC)	$8,514.49
26	Electrical	$9,677.53
28	Electronic Safety and Security	$4,836.84
32	Exterior Improvements	$4,473.30
	Proposal Total:	**$144,404.87**
	The Percentage of Non Pre-Priced on this Proposal:	**0.0%**

By signing the Contractor acknowledges that this Job Order is issued under the provisions of the Contract established in response to Contract #23-051 by City of Snoqualmie. The services authorized are within the scope of services set forth in the Contract. All rights and obligations of the parties shall be subject to and governed by the terms and conditions, amendment(s) (if applicable), and the signed contract including any subsequent modifications, are hereby incorporated by reference as if fully set forth herein.

Washington State Sales Tax (9): **$12,996.44**

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Total Price of Construction Including WSST:	**$157,401.31**

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City of Snoqualmie

38624 SE River Street, P.O. Box 987 Snoqualmie, Washington 98065

Date: August 26, 2024
JOC Name (Contractor): FORMA Construction Company (Olympia)
Contract Name: 2023 - FORMA Construction Company - Base
Contract Number: 23-051
Job Order Number 2024-03F
Job Order Title Police Station Evidence Room TI
Location: Police Station
Cost Proposal Date: August 26, 2024
Proposal Value: $144,404.87

Record #	CSI Number	MOD	UOM	Description	Unit Price	Factor	Total
01 - General Requirements							**$50,686.38**
1	012216000002		EA	Reimbursable Fees			
Accepted				**Quantity x**	**Unit Price x**	**Factor =**	**LineTotal**
		Installation	EA	750.00 x	$1.00 x	1.0000 =	$750.00
							$750.00
	User Note: Electrical Permit						
2	012216000002		EA	Reimbursable Fees			
Accepted				**Quantity x**	**Unit Price x**	**Factor =**	**LineTotal**
		Installation	EA	750.00 x	$1.00 x	1.0000 =	$750.00
							$750.00
	User Note: Plumbing Permit						
3	012216000002		EA	Reimbursable Fees			
Accepted				**Quantity x**	**Unit Price x**	**Factor =**	**LineTotal**
		Installation	EA	750.00 x	$1.00 x	1.0000 =	$750.00
							$750.00
	User Note: Mechanical Permit						
4	012220000010		HR	Electrician			
Accepted				**Quantity x**	**Unit Price x**	**Factor =**	**LineTotal**
		Installation	HR	32.00 x	$111.64 x	1.3500 =	$4,822.85
							$4,822.85
	User Note: Actual - Extra electrician will be on site to pull wire, LOTO and run lines and test connections. small works factor						

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38624 SE River Street, P.O. Box 987 Snoqualmie, Washington 98065

5	012220000015		HR	Laborer								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	HR		40.00	x	$68.18	x	1.3500	=	$3,681.72
											$3,681.72

User Note: Extra laborer needed for Demo of Overhead Garage Door with use of scissor lift. Moving lifting hauling. Saw cutting for new opening with a wet saw to minimize dust, job safety. Small Job Cost Factor

6	012220000015		HR	Laborer								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	HR		8.00	x	$68.18	x	1.3500	=	$736.34
											$736.34

User Note: Actual- An extra laborer needed to install new metal Lintel at New Door opening.

7	012220000015		HR	Laborer								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	HR		40.00	x	$68.18	x	1.3500	=	$3,681.72
		Demo	HR		54.000000	x	$0.00	x	1.3500	=	$0.00
											$3,681.72

User Note: Extra laborer will be used for Interior/ Exterior framing, prepping, cleaning, cutting and Misc. Small Job Cost Factor

8	012220000015		HR	Laborer								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	HR		32.00	x	$68.18	x	1.3500	=	$2,945.38
											$2,945.38

User Note: Laborer for Fence Install. Fence is materials only. Need an extra laborer to completed job in two days. most of the work is up high above the existing fence. safety for fire watch during welding. Small Job cost factor

9	012220000027		HR	Plumber								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	HR		54.00	x	$115.94	x	1.3500	=	$8,452.03
											$8,452.03

User Note: Extra plumbers for trench drain demo and install, new supply, waste lines for new sink. Due to heavy weight of cast iron piping. Extra laborer to be used for forklift and scissor lift in confined spaces.

10	012220000032		HR	Sheet Metal Worker								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	HR		32.00	x	$112.51	x	1.3500	=	$4,860.43

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$4,860.43

User Note: Metal Flashing for overhead exterior louver and overhead duct work

11	012223000053		WK	17' Electric, Scissor Platform Lift								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	WK	1.00	x	$376.29	x	1.3500	=	$507.99		
										$507.99		

User Note: scissor lift for overhead work above an existing fence

12	012223000068		WK	40' Electric, Scissor Platform Lift								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	WK	1.00	x	$1,188.73	x	1.3500	=	$1,604.79		
										$1,604.79		

User Note: For Demo of garage door, overhead structure and exterior framing for new vent

13	012223000068		WK	40' Electric, Scissor Platform Lift								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	WK	2.00	x	$1,188.73	x	1.3500	=	$3,209.57		
										$3,209.57		

User Note: For Mechanical overhead Framing, louver installation and new exterior duct work

14	015616000010		SF	6 Mil, Plastic Sheeting, Applied To Ceilings								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	SF	1,500.00	x	$0.52	x	1.3500	=	$1,053.00		
										$1,053.00		

User Note: Plastic to protect existing materials in Vault and all items that may be in vault at time of construction. Entire vault, Garage area and hallway. Demo work from CMU wall

15	015616000077		LF	38" Wide, 46 Mil Fiberboard, Ram Board® For Temporary Floor Protection								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	LF	200.00	x	$0.84	x	1.3500	=	$226.80		
										$226.80		

User Note: Existing site protection, interiors

16	017113000002		EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	EA	2.00	x	$464.49	x	1.3500	=	$1,254.12		
										$1,254.12		

User Note: delivery of Scissor lift

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17	017113000002		EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	EA	1.00	x	$464.49	x	1.3500	=	$627.06		
										$627.06		
	User Note: Mechanical overhead work - Ducting/ Louver/ Anchors and hardware											
18	017113000002		EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	EA	10.00	x	$464.49	x	1.3500	=	$6,270.62		
										$6,270.62		
	User Note: Daily mobe/ demobe due to no storage on site at a police station. For electricians, plumbers, Demolition, Fence and framers. Additional (2) two each at 10 total											
19	017113000003		EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	EA	1.00	x	$1,496.40	x	1.3500	=	$2,020.14		
										$2,020.14		
	User Note: For scissor Platform for Demo of overhead garage, supports and exterior framing											
20	017419000012		EA	10 CY Dumpster (1.5 Ton) "Construction Debris"								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	EA	1.00	x	$629.99	x	1.3500	=	$850.49		
										$850.49		
	User Note: Dumpster for Demolition work. Garage, wall studs, sheathing.											
21	017419000012	**0001**	EA	For Each Ton Over Indicated Amount, Add								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	EA	2.00	x	$110.00	x	1.3500	=	$297.00		
										$297.00		
	User Note:											
22	017419000012		EA	10 CY Dumpster (1.5 Ton) "Construction Debris"								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	EA	1.00	x	$629.99	x	1.3500	=	$850.49		
										$850.49		
	User Note: Dumpster for general Debris Non-recyclable											
23	017419000039		CYM	Hauling On Paved Roads, Miles Over Initial 15 Miles								

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38624 SE River Street, P.O. Box 987 Snoqualmie, Washington 98065

					Quantity	x	Unit Price	x	Factor	=	LineTotal
Accepted											
		Installation	CYM		360.00	x	$0.64	x	1.3500	=	$311.04
											$311.04

User Note: Hauling grouted CMU to Recycling facility in Renton Washington 37 miles.
To haul 16 CY to a site 37 miles away. 16 X (37-15)= 352

16 miles x 22 CY = 352 CYM.

24 017419000039 CYM Hauling On Paved Roads, Miles Over Initial 15 Miles

					Quantity	x	Unit Price	x	Factor	=	LineTotal
Accepted											
		Installation	CYM		200.00	x	$0.64	x	1.3500	=	$172.80
											$172.80

User Note: Hauling non-recyclable to facility in Renton Washington 37 miles.
To haul 16 CY to a site 37 miles away. 16 X (37-15)= 352

02 - Existing Conditions **$2,468.78**

25 024116130020 CCF Sorting Of Material Debris For Recycling Prior To Hauling Off

					Quantity	x	Unit Price	x	Factor	=	LineTotal
Accepted											
		Installation	CCF		15.00	x	$7.55	x	1.3500	=	$152.89
											$152.89

User Note: Sorting of debris prior to hauling for recycling.
Interior wall framing and substrates, exterior wall framing and substrates, Garage doors and Misc. items

26 024116130020 **0004** CCF For Up To 500, Add

					Quantity	x	Unit Price	x	Factor	=	LineTotal
Accepted											
		Installation	CCF		0.00	x	$2.27	x	1.3500	=	$0.00
											$0.00

User Note:

27 024119130009 LF Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth

					Quantity	x	Unit Price	x	Factor	=	LineTotal
Accepted											
		Installation	LF		30.00	x	$13.02	x	1.3500	=	$527.31
											$527.31

User Note: Best fit for cutting a Grout Filled existing 6-8" CMU wall. Saw cut opening for new door

28 024119130009 **0031** LF For Each Additional Pass (Depth To 3"), Add

					Quantity	x	Unit Price	x	Factor	=	LineTotal
Accepted											
		Installation	LF		50.00	x	$5.17	x	1.3500	=	$348.98
											$348.98

User Note:

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29	024119130085		IN	Drill 1" Diameter Core In >12" Concrete							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	IN	96.00	x	$9.09	x	1.3500	=	$1,178.06	
										$1,178.06	

User Note: 24 cores at min. 4" each

30	024119130361		LF	Clean, Prime And Paint Steel Shelf Angle Or Lintel							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	LF	6.00	x	$5.75	x	1.3500	=	$46.58	
										$46.58	

User Note: Paint and prep steel lintel at door

31	029055000064		DAY	Wet Or Dry Portable Cleaning Unit For Emergency Clean-up							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	DAY	1.00	x	$159.23	x	1.3500	=	$214.96	
										$214.96	

User Note: Best Fit Wet Vacuum for cutting of CMU wall

05 - Metals										**$15,845.14**
32	050519000015		EA	1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt						
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA	6.00	x	$17.39	x	1.3500	=	$140.86
										$140.86

User Note: Anchor bolts for new overhead Door Sill

33	050519000157		EA	5/16" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	24.00	x	$10.42	x	1.3500	=	$337.61	
										$337.61	

User Note: Bolts for new wood blocking

34	050521000003		EA	Welding Minimum Charge							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	8.00	x	$432.77	x	1.3500	=	$4,673.92	
										$4,673.92	

User Note: Welding New aluminum post extensions to existing. 3 and 5 to existing posts

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35	050523001164		EA	12-24 x 1-1/4", Hex Washer Head, Teks® 5 Self Drilling Screw								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA		22.00	x	$3.20	x	1.3500	=	$95.04	
											$95.04	
	User Note: Electrical screws											
36	050523001258		LF	1/2" Diameter, 316 Stainless Steel Threaded Rod								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	LF		35.00	x	$21.73	x	1.3500	=	$1,026.74	
											$1,026.74	
	User Note: threaded pipe											
37	051223000442		LF	5" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	LF		6.00	x	$23.55	x	1.3500	=	$190.76	
											$190.76	
	User Note: Lintel at new door opening											
38	051223000442	0031	LF	For Galvanized Steel, Add								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	LF		0.00	x	$8.66	x	1.3500	=	$0.00	
											$0.00	
	User Note:											
39	055213000029		SF	Galvanized Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	SF		270.00	x	$15.09	x	1.3500	=	$5,500.31	
											$5,500.31	
	User Note: Best fit for Exterior framed wall opening and interior infill wall. 10'x10' overlap with existing and 12LF by 12' tall 100+ 144+ 10% waste											
40	055969000058		SF	0.207" Thick Wire, 3/4" Spacing, 2.93 LB/SF Woven And Welded Wire Cloth Panels								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	SF		100.00	x	$28.74	x	1.3500	=	$3,879.90	
											$3,879.90	
	User Note: Security wall mesh at exterior wall/ interior wall											

06 - Wood, Plastics, and Composites **$6,331.15**

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41	061116000050		LF	2" x 6" Wood Stud Framing, For Partition Walls								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	LF		20.00	x	$1.93	x	1.3500	=	$52.11
		Demo	LF		20.000000	x	$0.77	x	1.3500	=	$20.79
											$72.90
	User Note:	Additional Wood framing for blocking. For Demo for new wall vent and selective demo at Garage door									
42	061116000062		SF	2" x 6" Wood Wall Framing At 16" On Center								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	SF		80.00	x	$2.28	x	1.3500	=	$246.24
											$246.24
	User Note:	New Exterior wood wall framing									
43	061116000062	**0002**	SF	For Up To 200, Add								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	SF		120.00	x	$0.73	x	1.3500	=	$118.26
											$118.26
	User Note:										
44	061116000062		SF	2" x 6" Wood Wall Framing At 16" On Center								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	SF		100.00	x	$2.28	x	1.3500	=	$307.80
											$307.80
	User Note:	Framing Interior Walls									
45	061116000074		LF	2" x 6" Pressure Treated Wood Sill								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	LF		50.00	x	$3.23	x	1.3500	=	$218.03
											$218.03
	User Note:	Framing for Infill walls both interior and exterior									
46	061116000135		LF	2" x 8" Pressure Treated Wood Blocking To Wood								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	LF		4.00	x	$7.07	x	1.3500	=	$38.18
											$38.18
	User Note:	Wd blocking for new sink									
47	061116000154		LF	2" x 4" Wood Blocking To Concrete								

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					Quantity	x	Unit Price	x	Factor	=	LineTotal
Accepted											
		Installation	LF		21.00	x	$5.57	x	1.3500	=	$157.91
											$157.91

User Note: Best For woof blocking for relocated Cabinets and countertop

					Quantity	x	Unit Price	x	Factor	=	LineTotal
48	061116000236		LF	1" x 12" Poplar Light Framing, Trim And Furring							
Accepted											
		Installation	LF		60.00	x	$6.86	x	1.3500	=	$555.66
											$555.66

User Note: Furring strips behind Exterior Hardie Panel Board for drainage

					Quantity	x	Unit Price	x	Factor	=	LineTotal
49	061633000012		SF	1/2" Interior BC Plywood Wall Sheathing							
Accepted											
		Installation	SF		100.00	x	$2.75	x	1.3500	=	$371.25
		Demo	SF		100.000000	x	$0.72	x	1.3500	=	$97.20
											$468.45

User Note: Demo for exterior wall and new mechanical hood vent and new louver installation

					Quantity	x	Unit Price	x	Factor	=	LineTotal
50	061633000012	0005	SF	For Exterior CC Grade Plywood, Add							
Accepted											
		Installation	SF		0.00	x	$0.20	x	1.3500	=	$0.00
											$0.00

User Note:

					Quantity	x	Unit Price	x	Factor	=	LineTotal
51	061633000012		SF	1/2" Interior BC Plywood Wall Sheathing							
Accepted											
		Installation	SF		0.00	x	$2.75	x	1.3500	=	$0.00
		Demo	SF		100.000000	x	$0.72	x	1.3500	=	$97.20
											$97.20

User Note: Best Fit for Plumbing demo walls for new lines

					Quantity	x	Unit Price	x	Factor	=	LineTotal
52	061643000003		SF	5/8" Exterior Gypsum Sheathing (GP Dens-Glass Gold)							
Accepted											
		Installation	SF		100.00	x	$2.96	x	1.3500	=	$399.60
											$399.60

User Note: New exterior sheathing at infill wall

53	064113000002		LF	Removal And Reinstallation Of Wood Base Cabinets

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				Quantity	x	Unit Price	x	Factor	=	LineTotal
Accepted										
	Installation	LF		21.00	x	$68.88	x	1.3500	=	$1,952.75
	Demo	LF		30.000000	x	$0.00	x	1.3500	=	$0.00
										$1,952.75

User Note: uninstall/ reinstall Wood cabinets

54 064113000003 LF Removal And Reinstallation Of Wall Cabinets

				Quantity	x	Unit Price	x	Factor	=	LineTotal
Accepted										
	Installation	LF		21.00	x	$59.90	x	1.3500	=	$1,698.17
	Demo	LF		30.000000	x	$0.00	x	1.3500	=	$0.00
										$1,698.17

User Note: Relocation and storage of existing casework

07 - Thermal And Moisture Protection **$3,845.70**

55 072116000015 SF 6-1/4" Thick, Unfaced, R-19 Fiberglass Flexible Insulation

				Quantity	x	Unit Price	x	Factor	=	LineTotal
Accepted										
	Installation	SF		100.00	x	$1.80	x	1.3500	=	$243.00
	Demo	SF		100.000000	x	$0.42	x	1.3500	=	$56.70
										$299.70

User Note: New Insulation at New Infill Wall

56 072613000008 CLF 6" Wide Self Adhesive Butyl Sealing Tape

				Quantity	x	Unit Price	x	Factor	=	LineTotal
Accepted										
	Installation	CLF		1.00	x	$168.88	x	1.3500	=	$227.99
										$227.99

User Note: air and weather barrier tape for new exterior opening

57 072613000010 CSF Building Wrap (Tyvek)

				Quantity	x	Unit Price	x	Factor	=	LineTotal
Accepted										
	Installation	CSF		1.00	x	$69.11	x	1.3500	=	$93.30
										$93.30

User Note: new air and weather barrier at exterior infill wall.

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58	074646000002		SF	5-1/4" Board with 4" Exposure, 5/16" Thick, Fiber Cement Lap Siding							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	SF	250.00	x	$5.89	x	1.3500	=	$1,987.88	
		Demo	SF	80.000000	x	$1.91	x	1.3500	=	$206.28	
										$2,194.16	

User Note: exterior FCP to match existing. Selective demo Siding for New Louver and selective demo for Garage door demo

59	078416000027		GAL	Latex Based Intumescent Fire Barrier Sealant (3M CP-25WB+)							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	GAL	1.00	x	$138.20	x	1.3500	=	$186.57	
										$186.57	

User Note: Fire barrier sealant for rated wall assembly infill

60	079123000003		LF	3/8" Polyethylene Or Polyurethane Backer Rod							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	LF	50.00	x	$1.35	x	1.3500	=	$91.13	
										$91.13	

User Note: backer rod for new infill exterior wall

61	079126000012		CLF	1/2" x 6" Neoprene Gasket Closed Cell, Adhesive							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	CLF	0.25	x	$740.18	x	1.3500	=	$249.81	
										$249.81	

User Note: new wall Framing Sill Sealant for new exterior wall and infill wall

62	079213000005		CLF	3/8" x 3/8" Joint, Silicone Sealant And Caulking							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	CLF	1.00	x	$372.62	x	1.3500	=	$503.04	
										$503.04	

User Note: sealant and caulking for new interior exterior walls

08 - Openings **$15,515.77**

63	080111610002		EA	Up To 1 SI, Patch Small Drill Holes							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	20.00	x	$17.24	x	1.3500	=	$465.48	
										$465.48	

User Note: Misc. patches from Demo work of Overhead Garage and support structure

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64	080513000056		EA	Removal And Reinstallation Of Door								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA		1.00	x	$76.52	x	1.3500	=	$103.30
		Demo	EA		1.000000	x	$0.00	x	1.3500	=	$0.00
											$103.30
	User Note: Uninstall and Reinstall door in CMU										
65	080513000057		EA	Removal And Reinstallation Of Metal Door Frame								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA		1.00	x	$150.05	x	1.3500	=	$202.57
											$202.57
	User Note: Uninstall and Reinstall door frame in CMU										
66	081213130156		EA	3' x >7'-2" Through 9' High, 8-7/8" Through 13" Deep, 16 Gauge, Knock Down Hollow Metal Door Frame								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA		1.00	x	$615.40	x	1.3500	=	$830.79
											$830.79
	User Note: New HM door frame										
67	081313130018		EA	3' x 7' x 1-3/4", 20 Gauge, Level 1 Standard Duty, Honeycomb Core, Hollow Metal Door								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA		1.00	x	$763.30	x	1.3500	=	$1,030.46
											$1,030.46
	User Note: New Door Fire Rated										
68	081313130018	**0028**	EA	For Galvanized Steel Door, Add								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA		0.00	x	$131.05	x	1.3500	=	$0.00
											$0.00
	User Note:										
69	081313130018	**0033**	EA	For 20 Minute Fire Rated Door, Add								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA		0.00	x	$27.63	x	1.3500	=	$0.00
											$0.00
	User Note:										
70	083323110044		EA	8' x 10', 22 Gauge Galvanized Steel Overhead Coiling Door, Chain Lift								

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	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA	0.00	x	$2,653.92	x	1.3500	=	$0.00
		Demo	EA	1.000000	x	$766.19	x	1.3500	=	$1,034.36
										$1,034.36

User Note: Demo existing garage door

71	087111000094		EA	Bright Chrome Finish, 500 LB Max Door Weight, Top Header Mount, 3/4" Offset Pivot Hinge (Ives 7215 Top)							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA	3.00	x	$200.53	x	1.3500	=	$812.15
										$812.15

User Note: New Security Door

72	087111000507		EA	3" Projection, Residential Spring Type, Bright Brass Finish, Steel Wall Stop (Ives 63)							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA	2.00	x	$9.94	x	1.3500	=	$26.84
										$26.84

User Note: Door stops for new and existing door

73	087111000514		EA	Satin Chrome Finish, Brass Hinge Pin Door Stop (Ives 70)							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA	3.00	x	$32.56	x	1.3500	=	$131.87
										$131.87

User Note: New Security Door

74	087111000682		EA	Top And Bottom Bolt, Constant Latching, Stainless Steel Flush Bolt For Metal Doors (Ives FB51P)							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA	1.00	x	$254.82	x	1.3500	=	$344.01
										$344.01

User Note: For new Security door

75	087111001305		EA	12" x 28", 0.050" Thick, Satin Nickel Finish, Stainless Kick Plate							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA	2.00	x	$201.51	x	1.3500	=	$544.08
										$544.08

User Note: New Security Door

76	087111002120		EA	3' Push Bar, Fire Rated, Rim Type, Exit Device (Von Duprin Series 98-F/99-F)							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**

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		Installation	EA	1.00	x	$1,254.79	x	1.3500	=	$1,693.97
										$1,693.97

User Note: New Security Door and existing door

77	087111002170		EA	Jamb Mounted Concealed Electric Power Transfer (Von Duprin EPT-10)						
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA	1.00	x	$652.71	x	1.3500	=	$881.16
										$881.16

User Note: New Security Door

78	087111002171		EA	2 Amperes Output Current, 12/24 Volt DC, Power Supply (Von Duprin PS902)						
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA	1.00	x	$351.60	x	1.3500	=	$474.66
										$474.66

User Note: New Security Door

79	087111002221		EA	Surface Mounted Heavy Duty Door Closer (LCN 4040XP/4041 Series)						
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA	2.00	x	$498.65	x	1.3500	=	$1,346.36
										$1,346.36

User Note: New Security Door and relocated security door

80	087111002250		EA	Entrance/Office F41 Pre-Assembled Lockset (Corbin Russwin UT5261)						
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA	1.00	x	$1,906.84	x	1.3500	=	$2,574.23
										$2,574.23

User Note: New Security Door

81	087111002381		EA	12/24 Volt DC, Fail Secure, Dual Monitor Switch, Stainless Steel Body Electric Strike (Von Duprin 6111)						
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA	1.00	x	$1,030.70	x	1.3500	=	$1,391.45
										$1,391.45

User Note: For new security door

82	087111002437		EA	Two 18 Gauge Wire, Door Frame To Edge Of Door Electrical Power Transfer						
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA	1.00	x	$691.08	x	1.3500	=	$932.96
										$932.96

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User Note: New door

83	087113000016		EA	Small Format Interchangeable Core (SFIC) Horizontal Tailpiece Rim Cylinder (Schlage 80-116-ICX)								
Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	EA	1.00	x	$94.50	x	1.3500	=	$127.58		
										$127.58		

User Note: New Security Door

84	089119000002		EA	12" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum								
Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	EA	1.00	x	$420.36	x	1.3500	=	$567.49		
										$567.49		

User Note: New Metal Exhaust louver for new Range hood

09 - Finishes **$7,445.28**

85	092313000018		SF	Smooth Finish Two Coats Gypsum Plaster On Walls								
Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	SF	150.00	x	$5.29	x	1.3500	=	$1,071.23		
										$1,071.23		

User Note: New Exterior wall and interior wall infill & patchwork to existing

86	092313000018	0031	SF	For Walls >10' High, Add								
Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	SF	0.00	x	$0.50	x	1.3500	=	$0.00		
										$0.00		

User Note:

87	092313000018	0044	SF	For >100 To 500, Add								
Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	SF	0.00	x	$1.25	x	1.3500	=	$0.00		
										$0.00		

User Note:

88	096513130007		LF	4" High, 1/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors								
Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	LF	25.00	x	$4.32	x	1.3500	=	$145.80		
										$145.80		

User Note: New infill walls

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89	096513130007		LF	4" High, 1/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors								
Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	LF	0.00	x	$4.32	x	1.3500	=	$0.00		
		Demo	LF	30.000000	x	$1.12	x	1.3500	=	$45.36		
										$45.36		
User Note: Demo infill wall base												
90	099113000104		SF	1 Coat Primer, Brush Work, Paint Exterior Wood Smooth Siding								
Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	SF	1,200.00	x	$0.94	x	1.3500	=	$1,522.80		
										$1,522.80		
User Note: Prime new exterior wall												
91	099113000122		SF	2 Coats Paint, Sprayed, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn)								
Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	SF	1,200.00	x	$1.84	x	1.3500	=	$2,980.80		
										$2,980.80		
User Note: Paint exterior wall from gutter spout to gutter spout.												
92	099113000122	0189	SF	For Oil Based Paint, Add								
Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	SF	0.00	x	$0.13	x	1.3500	=	$0.00		
										$0.00		
User Note:												
93	099113000122	0198	SF	For Work >15' To 20' Above Floor, Add								
Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	SF	0.00	x	$0.16	x	1.3500	=	$0.00		
										$0.00		
User Note:												
94	099113000122	0207	SF	For >250 To 500, Add								
Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	SF	0.00	x	$0.20	x	1.3500	=	$0.00		
										$0.00		
User Note:												
95	099123000063		SF	1 Coat Primer, Brush Work, Paint Iinterior Plaster/Drywall Walls								

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				Quantity	x	Unit Price	x	Factor	=	LineTotal
Accepted										
	Installation	SF		300.00	x	$0.74	x	1.3500	=	$299.70
										$299.70

User Note: Primer for new infill wall interior both sides and new exterior framed wall

				Quantity	x	Unit Price	x	Factor	=	LineTotal
96	099123000069		SF	2 Coats Paint, Brush/Roller Work, Paint Interior Plaster/Drywall Walls						
Accepted										
	Installation	SF		300.00	x	$1.20	x	1.3500	=	$486.00
										$486.00

User Note: New infill wall interior both sides and new exterior framed wall

				Quantity	x	Unit Price	x	Factor	=	LineTotal
97	099123000252		LF	1 Coat Primer, Brush/Roller Work, Paint Interior Metal Door Frame And Trim						
Accepted										
	Installation	LF		60.00	x	$0.93	x	1.3500	=	$75.33
	Demo	LF		40.000000	x	$0.00	x	1.3500	=	$0.00
										$75.33

User Note: (2) Frame for new and relocated interior door

				Quantity	x	Unit Price	x	Factor	=	LineTotal
98	099123000254		LF	2 Coats Paint, Brush/Roller Work, Paint Interior Metal Door Frame And Trim						
Accepted										
	Installation	LF		60.00	x	$1.99	x	1.3500	=	$161.19
										$161.19

User Note: (2) paint new and existing door

				Quantity	x	Unit Price	x	Factor	=	LineTotal
99	099123000259		EA	1 Coat Primer, Brush/Roller Work, Both Faces, Paint Interior Metal Door						
Accepted										
	Installation	EA		2.00	x	$85.92	x	1.3500	=	$231.98
										$231.98

User Note: Primer for (2) New and existing door

				Quantity	x	Unit Price	x	Factor	=	LineTotal
100	099123000261		EA	2 Coats Paint, Brush/Roller Work, Both Faces, Paint Interior Metal Door						
Accepted										
	Installation	EA		2.00	x	$157.44	x	1.3500	=	$425.09
										$425.09

User Note: (2) New and existing door

10 - Specialties	**$1,384.75**

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101	100140000007		EA	Recharge 20 LB Carbon Dioxide Portable Fire Extinguisher							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	2.00	x	$25.74	x	1.3500	=	$69.50	
										$69.50	
	User Note: Fire extinguisher for on site welding										
102	102623130149		EA	1/2" Copper Pipe, Hugger Hanger							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	22.00	x	$10.00	x	1.3500	=	$297.00	
										$297.00	
	User Note: For 100 LF										
103	102623130150		EA	3/4" Copper Pipe, Hugger Hanger							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	14.00	x	$12.44	x	1.3500	=	$235.12	
										$235.12	
	User Note: for 60 LF										
104	102623130151		EA	1" Copper Pipe, Hugger Hanger							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	9.00	x	$14.49	x	1.3500	=	$176.05	
										$176.05	
	User Note: For 40 LF										
105	102623130154		EA	2" Copper Pipe, Hugger Hanger							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	9.00	x	$21.17	x	1.3500	=	$257.22	
										$257.22	
	User Note: For 50 LF										
106	105113000009		EA	12" x 12" x 72" Single Tier Institutional Or Corridor Locker							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	4.00	x	$57.59	x	1.3500	=	$310.99	
		Demo	EA	1.000000	x	$28.79	x	1.3500	=	$38.87	
										$349.86	
	User Note: remove and reinstall existing locker 48" wide										
11 - Equipment										**$455.98**	

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107	113013130015		EA	30" Venting Range Hood (Broan 40000)								
Accepted					**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA		1.00	x	$234.57	x	1.3500	=	$316.67	
											$316.67	
	User Note:	Best fit new range hood										
108	113013130015	**0021**	EA	For Stainless Steel, Add								
Accepted					**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA		0.00	x	$19.71	x	1.3500	=	$0.00	
											$0.00	
	User Note:											
109	113013130095		EA	Removal And Reinstallation Of Range Hood								
Accepted					**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA		1.00	x	$103.19	x	1.3500	=	$139.31	
											$139.31	
	User Note:	Removal of existing range hood										
12 - Furnishings												**$729.00**
110	123661160005		SF	1/2" Thick, Solid Color, Solid Surface Countertop With 4" Backsplash								
Accepted					**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	SF		12.00	x	$36.00	x	1.3500	=	$583.20	
		Demo	SF		12.000000	x	$9.00	x	1.3500	=	$145.80	
											$729.00	
	User Note:	Best fit - Demo and reinstall Countertop										
22 - Plumbing												**$12,194.78**
111	220719000180		LF	8" Diameter Pipe, 2" Thick Foamglas Insulation								
Accepted					**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	LF		25.00	x	$53.48	x	1.3500	=	$1,804.95	
											$1,804.95	
	User Note:	Insulation for Ductwork										

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112	221116000374		LF	3/4" Hard Drawn Type L Copper Tube/Pipe								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	LF		60.00	x	$8.11	x	1.3500	=	$656.91	
											$656.91	

User Note: For plumbing lines

113	221116000375		LF	1" Hard Drawn Type L Copper Tube/Pipe								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	LF		40.00	x	$10.27	x	1.3500	=	$554.58	
											$554.58	

User Note: For a new sink and new water supply lines from an existing line.

114	221116000375	0085	LF	For Up To 20, Add								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	LF		0.00	x	$1.15	x	1.3500	=	$0.00	
											$0.00	

User Note:

115	221116000425		LF	1/4" Soft Drawn Type K Copper Tube								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	LF		100.00	x	$5.73	x	1.3500	=	$773.55	
											$773.55	

User Note: Plumbing lines

116	221116000441		EA	3/4" 90 Degree Copper Elbow								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA		3.00	x	$51.22	x	1.3500	=	$207.44	
											$207.44	

User Note: For plumbing connections

117	221116000442		EA	1" 90 Degree Copper Elbow								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA		5.00	x	$65.12	x	1.3500	=	$439.56	
											$439.56	

User Note: For plumbing connections

118	221116000463		EA	1" Reducing 90 Degree Copper Elbow								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	

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		Installation	EA	4.00	x	$72.13	x	1.3500	=	$389.50
										$389.50

User Note: For plumbing connections

119	221116000510		EA	1/4" Copper Coupling							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	12.00	x	$24.28	x	1.3500	=	$393.34	
										$393.34	

User Note: Plumbing Copper Coupling

120	221116000527		EA	3/4" Reducing Copper Coupling							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	7.00	x	$46.61	x	1.3500	=	$440.46	
										$440.46	

User Note: For plumbing connections

121	221116000746		EA	Up To 1/2", Cut And Prepare Existing In Place Copper Pipe							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	46.00	x	$11.73	x	1.3500	=	$728.43	
										$728.43	

User Note: Prep Existing and New Copper connections for 1/2" copper pipes for both hot and cold water lines, (100LF + (12) Couplings)

122	221116000747		EA	3/4", Cut And Prepare Existing In Place Copper Pipe							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	34.00	x	$12.68	x	1.3500	=	$582.01	
										$582.01	

User Note: Prep Existing and New Copper connections. (60 LF + (3) 90 degree elbows + (7) reducer Coupling)

123	221116000748		EA	1", Cut And Prepare Existing In Place Copper Pipe							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	28.00	x	$14.26	x	1.3500	=	$539.03	
										$539.03	

User Note: Prep Existing and New Copper connections for both hot and cold water lines (40 KLF + (5) 90 degree elbows + (4) Reducing elbows)

124	221116000751		EA	2", Cut And Prepare Existing In Place Copper Pipe							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	20.00	x	$17.43	x	1.3500	=	$470.61	

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$470.61

User Note: Prep Existing and New Copper connections for both hot and cold water lines. (50 LF + (4) elbows)

125	221316000271		LF	2" No Hub Cast Iron Pipe							
Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	LF	50.00	x	$18.84	x	1.3500	=	$1,271.70	
										$1,271.70	

User Note: For plumbing lines

126	221316000291		EA	2" No Hub Cast Iron Short Sweep							
Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	4.00	x	$64.16	x	1.3500	=	$346.46	
		Demo	EA	3.000000	x	$30.68	x	1.3500	=	$124.25	
										$470.71	

User Note: For plumbing connections

127	221316000468		EA	2" No Hub Coupling							
Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	15.00	x	$18.04	x	1.3500	=	$365.31	
										$365.31	

User Note: For plumbing

128	224216160035		EA	24" x 21" Enameled Cast Iron Single Laundry Sink, Floor Mounted With Metal Stand (Eljer 222-2210)							
Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	1.00	x	$1,009.21	x	1.3500	=	$1,362.43	
		Demo	EA	1.000000	x	$115.62	x	1.3500	=	$156.09	
										$1,518.52	

User Note: new utility sink

129	224216160065		EA	Removal And Reinstallation Of Wall Hung Service Sink With Faucet							
Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	1.00	x	$435.68	x	1.3500	=	$588.17	
		Demo	EA	1.000000	x	$0.00	x	1.3500	=	$0.00	
										$588.17	

User Note: Demo Existing sink/ Install one new sink

23 - Heating, Ventilating, and Air-Conditioning (HVAC) $8,514.49

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130	230529000004		EA	1/2" Steel Clevis Hanger (Cooper B-Line B3100)								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA		4.00	x	$21.04	x	1.3500	=	$113.62
											$113.62

User Note: New Mechanical lines

131	230529000004	**0446**	EA	For Work In Restricted Working Space, Add								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA		0.00	x	$5.83	x	1.3500	=	$0.00
											$0.00

User Note:

132	230529000016		EA	8" Steel Clevis Hanger (Cooper B-Line B3100)								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA		10.00	x	$71.45	x	1.3500	=	$964.58
											$964.58

User Note: Hangers for new Range Hood Duct work

133	230529000084		EA	1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170)								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA		14.00	x	$22.54	x	1.3500	=	$426.01
											$426.01

User Note: Plumbing Hanger

134	230529000085		EA	3/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170)								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA		8.00	x	$23.76	x	1.3500	=	$256.61
											$256.61

User Note: Hangers for mechanical

135	230529000089		EA	2" Adjustable Swivel Steel Ring (Cooper B-Line B3170)								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA		14.00	x	$32.07	x	1.3500	=	$606.12
											$606.12

User Note: Hangers for mechanical

136	230529000089	**0446**	EA	For Work In Restricted Working Space, Add								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**

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		Installation	EA	0.00	x	$9.27	x	1.3500	=	$0.00
										$0.00

User Note:

137	230529000598		LF	3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	LF	25.00	x	$9.71	x	1.3500	=	$327.71	
										$327.71	

User Note: Mechanical Threaded rods for hangers

138	230593000016		EA	Balancing HVAC Duct System, Ceiling Height >12' Supply, Return, Exhaust, Register And Diffuser							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	1.00	x	$142.37	x	1.3500	=	$192.20	
										$192.20	

User Note: Balancing new range hood

139	230719000079		LF	8" Diameter Pipe, 3" Thick Calcium Silicate Insulation							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	LF	33.00	x	$60.84	x	1.3500	=	$2,710.42	
										$2,710.42	

User Note: Insulation for new range hood ducting

140	233113160031		EA	8" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	4.00	x	$57.53	x	1.3500	=	$310.66	
										$310.66	

User Note: Metal range hood ducting elbows

141	233113160078		LF	8" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	LF	33.00	x	$15.01	x	1.3500	=	$668.70	
										$668.70	

User Note: New range hood Ducting. Location TBD

142	233113190031		EA	12" x 4" x 7" Register Boot, Universal, Galvanized Steel							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	2.00	x	$47.81	x	1.3500	=	$129.09	
										$129.09	

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Version: 2.0
Approved 08/26/2024 01:46:57 PM EST

City of Snoqualmie
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User Note: Mechanical Louver Duct boot

143	233116160195		EA	6" Fiber Reinforced Plastic Damper								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	EA	1.00	x	$551.87	x	1.3500	=	$745.02		
										$745.02		

User Note: Damper for New mechanical Range Hood

144	235116000320		EA	6" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	EA	4.00	x	$196.99	x	1.3500	=	$1,063.75		
										$1,063.75		

User Note: Elbow for duct work for new range hood

26 - Electrical **$9,677.53**

145	260120910002		EA	Lock Out/Tag Out Local Disconnect								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	EA	2.00	x	$40.54	x	1.3500	=	$109.46		
										$109.46		

User Note: For Exterior Demo and Key card work

146	260120910005		EA	Lock Out Tags								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	EA	2.00	x	$4.63	x	1.3500	=	$12.50		
										$12.50		

User Note: For Exterior Demo and Key card Work

147	260519160125		MLF	#12 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	MLF	1.00	x	$822.72	x	1.3500	=	$1,110.67		
										$1,110.67		

User Note: Electrical #12 thhn wiring

148	260519160439		MLF	2 Conductor #18 AWG, Stranded, Type TC Control Cable								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	MLF	1.00	x	$1,028.95	x	1.3500	=	$1,389.08		
										$1,389.08		

User Note: Wiring for New Key Card and Existing one being that is being relocated. Wiring to existing security panel in another room

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149	260529000169		EA	1", One Hole Steel Conduit Strap								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA		5.00	x	$4.42	x	1.3500	=	$29.84
											$29.84
	User Note: Electrical 1 Hole Conduit strap											
150	260529000169	**0108**	EA	For Work In Restricted Working Space, Add								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA		0.00	x	$1.08	x	1.3500	=	$0.00
											$0.00
	User Note:											
151	260529000169	**0109**	EA	For Installation On Concrete (Includes Drilling And Fastener), Add								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA		0.00	x	$1.00	x	1.3500	=	$0.00
											$0.00
	User Note:											
152	260533130005		CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	CLF		3.00	x	$1,038.14	x	1.3500	=	$4,204.47
											$4,204.47
	User Note: Tubing for new key card and existing key card to an existing security panel											
153	260533130611		EA	1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	EA		90.00	x	$5.38	x	1.3500	=	$653.67
											$653.67
	User Note: Coupling for 300 LF, 60 lf flexible conduit 45 elbows											
154	260533132370		LF	1/2" Flexible Metallic Conduit								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**
		Installation	LF		15.00	x	$4.11	x	1.3500	=	$83.23
											$83.23
	User Note: Electrical flexible alum Conduit											
155	260533132455		EA	1/2" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling								
	Accepted				**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**

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		Installation	EA	45.00	x	$11.98	x	1.3500	=	$727.79
										$727.79

User Note: Electrical Steel Conduit

156	260533132467		EA	1/2" Flexible 90 Degree Connector, Die Cast							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	12.00	x	$9.62	x	1.3500	=	$155.84	
										$155.84	

User Note: Electrical Squeeze Connector

157	260533132467	**0065**	EA	For Work In Restricted Working Space, Add							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	0.00	x	$2.37	x	1.3500	=	$0.00	
										$0.00	

User Note:

158	260533160014		EA	1/2" Depth, 2 Gang, 4" Square Steel Mud Ring							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	3.00	x	$14.60	x	1.3500	=	$59.13	
										$59.13	

User Note: Electrical plaster ring box

159	260533160037		EA	2-1/8" Depth, 4-11/16" Square Steel Box							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	3.00	x	$41.87	x	1.3500	=	$169.57	
										$169.57	

User Note: Electrical Conduit box

160	260533160059		EA	One Toggle Switch And One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	1.00	x	$29.93	x	1.3500	=	$40.41	
										$40.41	

User Note: Electrical toggle switch and cover

161	260533160066		EA	Single Box Bracket, One 4" Or 4-11/16" Square Box							
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**	
		Installation	EA	4.00	x	$14.77	x	1.3500	=	$79.76	
										$79.76	

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User Note: Electrical Square Mounting Bracket

162	260533160112		EA	1-7/8" Deep, 4" x 2" Steel Handy Box								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	EA	1.00	x	$32.83	x	1.3500	=	$44.32		
										$44.32		

User Note: Electrical box

163	260533160316		EA	20 Amperes, Duplex Receptacles (Wiremold 68REC-25)								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	EA	1.00	x	$153.44	x	1.3500	=	$207.14		
										$207.14		

User Note: For new Overhead Range hood

164	260533230311		EA	Circuit Breaker Housing (Wiremold #6046KD)								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	EA	1.00	x	$152.54	x	1.3500	=	$205.93		
										$205.93		

User Note: For new Overhead Range hood

165	260533230433		EA	Toggle Switch Cover Plate (Wiremold #ALA-N)								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	EA	1.00	x	$19.38	x	1.3500	=	$26.16		
										$26.16		

User Note: Electrical toggle switch cover

166	262419000866		EA	15 To 30 Amperes,1 Pole, Bolt-On Branch Circuit Breaker								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	EA	1.00	x	$22.49	x	1.3500	=	$30.36		
										$30.36		

User Note: For new Overhead Range hood

167	262716000071		EA	12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure								
	Accepted			**Quantity**	**x**	**Unit Price**	**x**	**Factor**	**=**	**LineTotal**		
		Installation	EA	1.00	x	$169.01	x	1.3500	=	$228.16		
										$228.16		

User Note: Electrical 12x12 NEMA 1

168	262726000161		EA	15 Amperes, 120 Volt, Ivory Toggle, Lighted In Off Position, Lighted Toggle Switch

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				Quantity	x	Unit Price	x	Factor	=	LineTotal
Accepted										
	Installation	EA		1.00	x	$81.51	x	1.3500	=	$110.04
										$110.04

User Note: electrical toggle switcth

28 - Electronic Safety and Security — $4,836.84

169 281611000055 EA HID Proximity Card Reader, Exterior Stand Alone Access Controls

				Quantity	x	Unit Price	x	Factor	=	LineTotal
Accepted										
	Installation	EA		2.00	x	$1,735.22	x	1.3500	=	$4,685.09
	Demo	EA		1.000000	x	$112.41	x	1.3500	=	$151.75
										$4,836.84

User Note: Demo Existing, Relocate existing, Install new key card

32 - Exterior Improvements — $4,473.30

170 321540000002 CY Gravel Surfacing And Spreading

				Quantity	x	Unit Price	x	Factor	=	LineTotal
Accepted										
	Installation	CY		15.00	x	$85.33	x	1.3500	=	$1,727.93
										$1,727.93

User Note: Gravel for new trench drain sub grading

171 323113130091 LF 3" Outside Diameter Galvanized Steel Post, 11' To 15' In Length

				Quantity	x	Unit Price	x	Factor	=	LineTotal
Accepted										
	Installation	LF		3.00	x	$22.67	x	1.3500	=	$91.81
										$91.81

User Note: Three new posts welded to existing to ceiling

172 323113130166 LF 1-5/8" Galvanized Steel Rail, 0.085" Wall Thickness, Tie Wires And Fittings

				Quantity	x	Unit Price	x	Factor	=	LineTotal
Accepted										
	Installation	LF		80.00	x	$8.19	x	1.3500	=	$884.52
										$884.52

User Note: Fence: Vertical Posts. 42"-48" tall spaced 12" apart for 20' (20x4)

173 323113130166 LF 1-5/8" Galvanized Steel Rail, 0.085" Wall Thickness, Tie Wires And Fittings

				Quantity	x	Unit Price	x	Factor	=	LineTotal
Accepted										
	Installation	LF		160.00	x	$8.19	x	1.3500	=	$1,769.04
										$1,769.04

User Note: Horizontal Rails posts spaced 8" a part for infill 42"-48" (8) @ 20 LF

Price Proposal Detail Package Report
Version: 2.0
Approved 08/26/2024 01:46:57 PM EST

City of Snoqualmie

38624 SE River Street, P.O. Box 987 Snoqualmie, Washington 98065

Proposal Total:	**$144,404.87**
The Percentage of Non Pre-Priced on this Proposal:	**0.0%**

This proposal total represents the correct total for the proposal. Any discrepancy between line totals, sub-totals and the proposal total is due to rounding of the line totals and sub-totals.

City of Snoqualmie
38624 SE River Street, P.O. Box 987
Snoqualmie, Washington 98065

Job Order Subcontractor Certification Report

23-051 - 2023 - FORMA Construction Company - Base

		Duration								
		Preapproval Process		Construction Duration		Construction				
Job Order #	Project Title	Joint Scope	To NTP	Start Date	Days	End Date				
2024-03F		08/14/2024								
				Subcontractor			Certification	Participation Amt	Participation %	Certified (C) or Self (S)
								$0.00	0.00%	Self Performed
Costs:	Work Order Total:	$144,404.87							Subcontractor Value:	$0.00
	Total SubContractor Value:	$0.00								
	SubContractor % of "Work" for this Job Order:	0.00%								

Certification Value Summary:

Certification	Value	%
	$0.00	0.00%

City of Snoqualmie
38624 SE River Street, P.O. Box 987,
Snoqualmie, Washington 98065

Notice to Proceed

NTP Issued Date:

Job Order Contracting

To: Brian Kazem
FORMA Construction Company (Olympia)
500 Columbia St NW Suite 201
Olympia, WA 98501
(360) 754-5788
briank@formacc.com

From:

Contract #:	23-051
Job Order #:	2024-03F
Job Order Title:	Police Station Evidence Room TI
Location:	Police Station 34825 Douglas St Snoqualmie, WA 98065

This is your notice that your proposal for the above referenced task order has been approved and you have been awarded the Job Order Contract for the above referenced project. You are authorized to proceed with the work outlined in the Detailed Scope of Work. In accordance with the provisions of the contract, you are hereby notified to commence work on the subject Job Order.

The Authorized Representative's signature below authorizes the contractor to begin procuring materials necessary to start construction.

Construction Complete Date:

The value of this Job Order is: $144,404.87

If you have any questions, please contact the undersigned.

Parks & Public Works Director **Date**

Parks & Public Works, Project Engineer **Date**

BUSINESS OF THE CITY COUNCIL
CITY OF SNOQUALMIE

AB24-116
October 28, 2024
Choose an item.

AGENDA BILL INFORMATION

TITLE:	**AB24-116**: Reclaimed Water System Improvements Project Update	☒ Discussion Only ☐ Action Needed:
PROPOSED ACTION:	Discussion only	☐ Motion ☐ Ordinance ☐ Resolution

REVIEW:	Department Director	Jeff Hamlin	10/16/2024
	Finance	n/a	Click or tap to enter a date.
	Legal	n/a	Click or tap to enter a date.
	City Administrator	Mike Chambless	Click or tap to enter a date.

DEPARTMENT:	Parks & Public Works	
STAFF:	Andrew Vining and Jeff Hamlin	
COMMITTEE:	Parks & Public Works	**COMMITTEE DATE:** October 22, 2024
EXHIBITS:	1. Map of Class A Reclaimed Water System 2. Reclaimed Water Storage Tank and Irrigation Pump Station Renderings	

AMOUNT OF EXPENDITURE	$ n/a
AMOUNT BUDGETED	$ n/a
APPROPRIATION REQUESTED	$ n/a

SUMMARY

INTRODUCTION

The City produces and distributes Class A reclaimed water during dry season months for non-drinking uses such as landscape irrigation. Reclaimed water is wastewater that gets treated to such a high level that it can be used safely for irrigation. By using reclaimed water the City preserves potable water resources for drinking water purposes. The reclaimed water reservoir improvements will upgrade the dated reclaimed water distribution system and bring it into compliance with current state standards.

LEGISLATIVE HISTORY

State Legislation

The state legislature approved the Reclaimed Water Use Act in 1992 codified as RCW 90.46. This act encouraged using reclaimed water for land application, industrial, and commercial uses. In 1997 the Water Reclamation and Reuse Standards were developed to support this act. Most recently in 2006 this act was amended to expand uses of reclaimed water and directed state agencies to develop

framework for safe and beneficial use of reclaimed water – this amendment is the origin of the reclaimed water rule.

Following the 2006 legislative direction state agencies (Department of Health and Department of Ecology) jointly began developing the framework over a 12-year period based on stakeholder feedback. In 2018 the Reclaimed Water Rule (WAC 0173-219) was adopted to encourage the use of reclaimed water to help meet the growing need for clean water across the state by establishing regulatory framework for the generation, distribution, and the use of reclaimed water for beneficial use. Concurrently agencies published the Reclaimed Water Facilities Manual or "Purple Book" which provides more in-depth guidance for utilities that produce reclaimed water.

City Legislation

Following the state adoption of Reclaimed Water Rule in 2018 the City began evaluating options to ensure compliance with updated state standards. On February 25, 2019 under **AB19-022** City Council authorized RH2 Engineering (RH2) to prepare a Reclaimed Water Irrigation System Analysis Feasibility Study to provide agency coordination and evaluate potential solutions to meet the Reclaimed Water Rule standards. During this period the City also renewed it's Water Reclamation Facility NPDES Permit WA0022403 (Permit) which authorizes the production and distribution of up to 1.56 million gallons of Class A Reclaimed Water daily. The City provided comment to the City's draft permit on February 24, 2020 and received responses from Ecology documented in the permit. The final Permit outlines necessary improvements to the City's reclaimed water distribution system and an associated compliance schedule. The following agenda bills were approved by Council to facilitate these improvements and continue production of Class A water. On November 28, 2022 City Council approved **AB22-146** Resolution No. 1632 authorizing a contract with RH2 to complete a Reclaimed Water Distribution System Engineering Report. This contract was amended on October 3rd, 2023 under **AB23-110** which authorized RH2 to complete design of the reclaimed water reservoir improvements.

BACKGROUND

The City's reclaimed water distribution system was constructed by the Snoqualmie Ridge Developer in 1997 based on RCW 90.46 standards at that time. The City utilizes sand filtration enhanced treatment followed by ultraviolet disinfection to treat reclaimed water to Class A standards. Following treatment, Class A water is then pumped to Eagle Lake Reservoir for temporary storage prior to distribution as irrigation water to various locations on the ridge including Snoqualmie Ridge Golf Course, City parks and right-of-ways, and the Snoqualmie Ridge Business Park. The reclaimed water system has operated for 25 years in this configuration with no major improvements or recorded public health incidents.

Despite this clean track record of public use, City operations staff have observed times of degraded class A water quality in the reclaimed water distribution system. The water degradation is a result of the distribution system being built to the old standards, specifically the system lacks adequate cross-connection controls needed to protect Class A water from lower-quality water sources. Class A water produced at the City's Water Reclamation Facility is monitored daily and consistently meets state standards. However, once delivered to Eagle Lake Class A water is degraded by lower-quality water including urban stormwater runoff. In addition, the pump station intake is located near the lake bottom results in periodic intake of lake sediments.

The Reclaimed Water Rule standards are more comprehensive than the 1997 standards and require that reclaimed water produced not be degraded during storage and distribution. The 2018 Reclaimed Water Facilities Manual (The Purple Book) Chapter 7 provides guidelines for delivery of reclaimed

water including storage and cross-connection control requirements. The old standards did not consider protection of Class A water during storage and distribution. The City's current Permit provides a 6-year extension to the 2018 reclaimed water rule and an associated compliance schedule for implementing improvements.

ANALYSIS

The City's Class A reclaimed water storage and distribution system does not meet current state standards and must be improved to ensure compliance with new standards for safe and reliable delivery of reclaimed water to customers. Over the past 5 years and following adoption of the Reclaimed Water Rule, City staff and consultants have discussed with state agencies options to upgrade the Class A distributions system to current standards. These discussions are reflected in Permit comments, meeting minutes, and the Reclaimed Water Distribution System Engineering Report. The City has been granted a 6-year extension to the 2018 reclaimed water rule and must complete upgrades to the system no later than July 2026 to continue Class A water distribution.

The City distributes an annual average of 18 million gallons Class A water to customers for irrigation purposes. Available during peak irrigation season this volume of water offsets potable water usage by up to 15% of the peak demand, equivalent to 2,000 ERUs. The City's Water System Plan identifies limitations to water rights and source capacity within the current 20-year planning period. As a result, due to the City's projected population growth and limited water rights, switching Class A customers to potable water is not a viable long-term solution.

City administration recommends improving the Class A water distribution system to current standards to ensure safe and reliable delivery of reclaimed water and preservation of potable water resources.

BUDGET IMPACTS

The overall project cost is estimated to be $9 million. The City has received $6.866M state funding for this project thru the Ecology Water Quality Combined Funding program. The offer consists of a $6.866 million low-interest loan which will be used for project design and construction costs. The City has requested additional state funding to cover the remaining project cost.

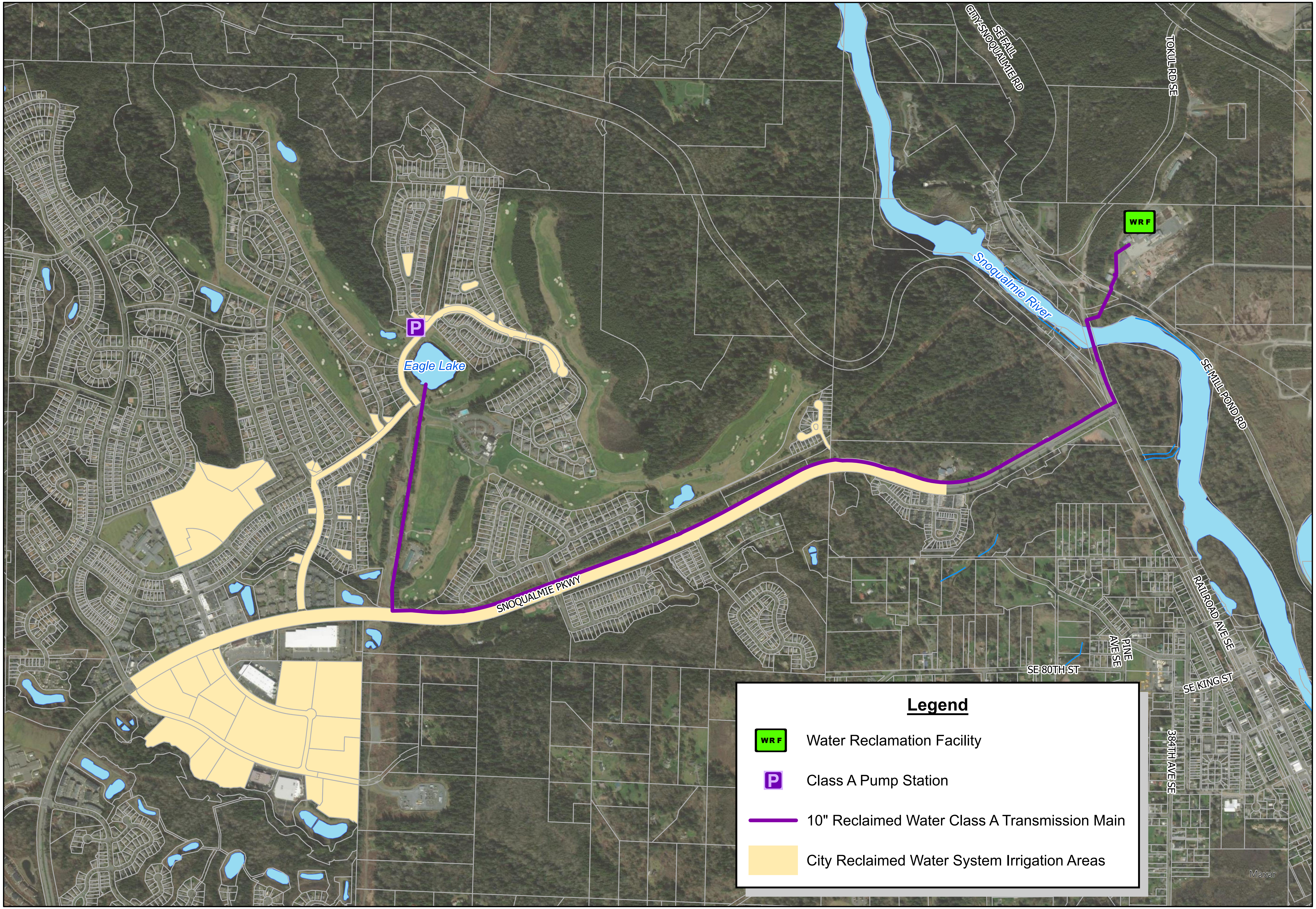
NEXT STEPS

The City is currently soliciting written or oral feedback on the proposed improvements. The deadline for public comments is November 14, 2024 – and any comments shared in this public meeting will be incorporated.

Construction of the Reclaimed Water Improvements is anticipated to begin in Spring of 2025.

PROPOSED ACTION

Discussion only. No Council action. Members of the public are invited to provide public comments related to these proposed improvements.



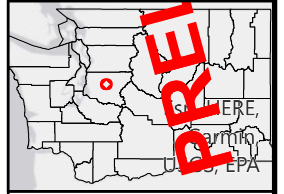
J:\DATA\SNQ_GENINFO\COMP PLANS\RECLAIMED WATER\RECLAIMED WATER.APRX BY: LMOJARAB PLOT DATE: OCT 5, 2022 COORDINATE SYSTEM: NAD 1983 HARN STATEPLANE WASHINGTON NORTH FIPS 4601 FEET

Item 4.

PRELIMINARY

This map is a graphic representation o... the City of Sn... ity) Geographic Infor... It was designed and ... City staff ... ; it is not guaranteed to sur... accuracy. This map is based on the best information availabl... o... the date shown on this map.

Vicinity Map



Reclaimed Water Reuse Plan

City of Snoqualmie

Water Reclamation Facility Phase 3 Design

CITY OF SNOQUALMIE

1 inch : 1,000 Feet

0 250 500 1,000 Feet

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

RH2

NORTH

The City of Snoqualmie: Proposed Reclaimed Water Storage Tank and Irrigation Pump Station

View from Ridge Street

View from Hole 2 Green

View from Access Road

BUSINESS OF THE CITY COUNCIL
CITY OF SNOQUALMIE

AB24-112
October 28, 2024
Choose an item.

AGENDA BILL INFORMATION

TITLE:	**AB24-112**: Reclaimed Water System Improvements Project Amendment to RH2 Services Agreement	☐ Discussion Only ☒ Action Needed:
PROPOSED ACTION:	Approve Amendment No. 2 to the Eagle Lake Water Reclamation Basin Improvements Services Agreement with RH2 Engineering for Design Services	☒ Motion ☐ Ordinance ☐ Resolution

REVIEW:	Department Director	Jeff Hamlin	10/16/2024
	Finance	Janna Walker	10/15/2024
	Legal	David Linehan	10/16/2024
	City Administrator	Mike Chambless	Click or tap to enter a date.

DEPARTMENT:	Parks & Public Works	
STAFF:	Andrew Vining, Project Engineer	
COMMITTEE:	Parks & Public Works	**COMMITTEE DATE:** October 22, 2024
EXHIBITS:	1. Amendment No. 2 to RH2 Services Agreement 2. Technical Memorandum- Reclaimed Water Irrigation Pump Station 3. Reclaimed Water System Improvement Project Budget Summary 4. CIP Excerpt - Eagle Lake Water Reclamation Basin Improvements Project	

AMOUNT OF EXPENDITURE	$ 284,000
AMOUNT BUDGETED	$ 321,000
APPROPRIATION REQUESTED	$ 296,492

SUMMARY

INTRODUCTION

This agenda bill seeks to amend the existing Professional Services Agreement (PSA) with RH2 Engineering to design and permit a new reclaimed water irrigation pump station (IPS) to operate adjacent to the new reservoir. These improvements will upgrade the dated reclaimed water distribution system and bring into compliance with current state standards.

LEGISLATIVE HISTORY

The following agenda bills were approved by Council to facilitate the reclaimed water distribution system improvements and continue production of Class A water. On November 28, 2022 City Council approved **AB22-146** Resolution No. 1632 authorizing a contract with RH2 to complete a Reclaimed Water Distribution System Engineering Report. This contract was amended on October 3rd, 2023 under **AB23-110** which authorized RH2 to complete design of the reclaimed water reservoir

improvements. This proposed agenda bill authorize RH2 to complete remaining design tasks necessary to incorporate a new irrigation pump station at the reservoir site.

BACKGROUND

Over the past year City staff have been working to advance the design of the reclaimed water distribution system improvements. During this design process the City staff and consultants evaluated using the existing IPS in conjunction with the new reclaimed water reservoir. As detailed in the enclosed Reclaimed Water Irrigation Pump Station Technical Memorandum (Exhibit 2) the existing IPS is 25 years old and is in poor condition. Major structural improvements would need to be made to the IPS to connect it to the new reservoir system including a new below grade clear well, 1,100-foot force-main pipe along Eagle Lake Drive, and on top of that pump replacement would be expected in the next 5 to 10 years. Building a new irrigation pump station adjacent to the reclaimed water reservoir will include additional features that will increase operability and efficiency of the reclaimed water system and will more effectively meet the 2018 reclaimed water rule.

The decision to replace the irrigation pump station was initially presented to Parks and Public Works Committee on February 21st, 2024. Following this meeting the cost to replace the irrigation pump station was incorporated into project budget estimates presented to council. This contract amendment will authorize RH2 engineering to advance the new irrigation pump station thru final design and permitting.

ANALYSIS

The City's Class A reclaimed water storage and distribution system does not meet current state standards and must be improved to ensure compliance with new standards for safe and reliable delivery of reclaimed water to customers. Construction of a new irrigation pump station adjacent to the reclaimed reservoir will most effectively comply with current standards. The new pump station will facilitate reservoir recycle pumping, maintenance cleaning, and SCADA integration that will provide operators with full control of reclaimed water distribution. Replacing the old IPS eliminates the potential for cost over-runs related to unforeseen subsurface conditions – including submerged pump cans, inlet piping, and utilities along Eagle Lake Drive which is the single ingress/ egress to the uphill residents. Further the existing IPS is 25 years old and is poorly configured. It's poor condition does not warrant further investment for a complete renovation.

City administration recommends replacement of the existing Eagle Lake IPS with a new pump station located adjacent to the planned reservoir along Ridge Street.

BUDGET IMPACTS

Administration recommends approving an amendment to the contract with RH2, Inc. in the amount of $284,000 to complete the design of the Pump Station adjacent to Eagle Lake Reclamation Basin. This project was originally incorporated in the 2023-2028 Capital Improvement Plan (CIP) (See Exhibit #4) with a life-of-project budget of $3,332,000. Since then, the life-of-project budget has been adjusted to $8,651,047 within the 2025-26 Biennial Budget Ordinance (No. 1296). The 2023-24 Amended Budget appropriated $321,000 for this project. However, AB23-110 adjusted the $321,000 appropriation for this project up to $765,192 by delaying the Pressure Reducing Valve Project (#417), using appropriation from Water Utility (#401) and Wastewater Utility (#402), and a $49,006 budgetary amendment. In the current biennium, $351,577 has been spent and $426,107 has been

encumbered for contracts within the Eagle Lake Improvements Project. With the addition of the RH2 contract, the project is $296,492 over budget for the 2023-24 biennium, as shown in the table below.

Eagle Lake Water Reclamation Basin Improvements

		2023-2024 Amended Biennial Budget
Beginning Budget (from AB23-110)	$	765,192
Expenditures	$	(351,577)
Outstanding Contract Value *(Previously Approved)*	$	(426,107)
Current Available Budget	$	(12,492)
Value of this Contract *(AB24-112)*	$	(284,000)
Available Budget / (Shortfall) after AB24-112	$	(296,492)

Based on current engineering estimates, approximately $500,000 of the outstanding contract value and the current contract amendment will occur during the current biennium, with the remainder expected to occur in 2025. Administration will follow the contract's progress and billings and bring forward an amendment for the remainder of the 2023-24 biennium, if necessary, of up to $296,492. At the start of the 2025-26 biennium, these expenditures will fold into the continuing appropriation of the life-of-project budget of $8,651,047, as shown below.

Eagle Lake Water Reclamation Basin Improvements

		Life-of-Project Budget *(Multiple Bienniums)*
Beginning Budget (from AB23-110)	$	8,651,047
Expenditures	$	(351,577)
Outstanding Contract Value *(Previously Approved)*	$	(426,107)
Current Available Budget	$	7,873,363
Value of this Contract *(AB24-112)*	$	(284,000)
Available Budget / (Shortfall) after AB24-112	$	7,589,363

NEXT STEPS

City staff and consultants will advance the reclaimed water reservoir and pump station improvements to final design. Council may expect upcoming agenda bills related to following project action items:

- Public Comment Opportunity
- Land purchase Documents
- Acceptance of State Funding

These agenda bills will be brought forward to meet the following project deadlines:

- December 31, 2024 – Final Plans and Specifications (Currently Underway)
- June 30, 2026 – Declaration of Construction Completion

PROPOSED ACTION

Motion to Approve Amendment No. 2 to the Eagle Lake Water Reclamation Basin Improvements Services Agreement with RH2 Engineering for Design Services (shown in attachment 1a).

CITY OF SNOQUALMIE
AGREEMENT FOR CONSULTANT SERVICES
Amendment No. 2
Eagle Lake Water Reclamation Basin Improvements

This Amendment No. 2 to Agreement for Consulting Services is entered into by and between the City of Snoqualmie, a Washington municipal corporation, ("City") and RH2 Engineering, Inc., a Washington corporation, ("Consultant"). City and Consultant are collectively referred to herein as "the Parties."

WHEREAS, the City and Consultant previously entered into an Agreement for Consultant Services on December 2, 2022 ("Agreement"), which provided for Consultant to complete an engineering report and design cross-control improvements to the Class A reclaimed water distribution system;

WHEREAS, on October 9th, 2023, Council approved Amendment No. 1 to the Agreement that included final reservoir design, permitting, support during bidding, and updates to the City's Reclaimed Water System Plan; and

WHEREAS, the City has requested Consultant to provide additional services including final design, permitting, and support during bidding of a new Reclaimed Water Irrigation Pump Station; and

WHEREAS, Consultant has the resources and capability to perform this work and has provided a scope of work and an hour and fee estimate for such additional work;

NOW, THEREFORE, the Parties mutually agree as follows:

Section 1. Exhibit A Scope of Work Amended. Exhibit A ("Scope of Work") to the Agreement dated December 2, 2022, is hereby amended to add the additional work tasks set forth in Exhibit A to this Amendment No. 2.

Section 2. Compensation Amended. Section 2 of the Agreement dated December 2, 2022, entitled ("Compensation"), is hereby amended to increase the total compensation to be paid Consultant for the work from $765,192 to $1,049,192.

Section 3. Exhibit B Amended. Exhibit B to the Agreement dated December 2, 2022, is hereby amended to add the additional compensation and fee estimate details set forth in Exhibit B to this Amendment No. 2.

Section 4. Exhibit C Amended. Exhibit C to the Agreement dated December 2, 2022, is hereby amended to revise the rates and charges in Exhibit C to this Amendment No. 2.

Section 5. No Other Provisions Affected. Except as modified in this Amendment No. 2, all other provisions of the Agreement dated December 2, 2022, remain in full force and effect.

Section 6. Effective Date. This Amendment No. 2 is effective as of the date of the last signature affixed below.

///

ACKNOWLEDGED AND AGREED TO BY:

CITY OF SNOQUALMIE	CONSULTANT RH2 ENGINEERING, INC.
By: _____ Katherine Ross, Mayor	By: _____ Name _____ Its: _____
Date: _____	Date: _____

ATTEST:

_____
Deana Dean, City Clerk

APPROVED AS TO FORM:

_____
David Linehan, City Attorney

EXHIBIT A
Scope of Work
Amendment No. 2
City of Snoqualmie
Reclaimed Water Distribution System
IPS Design and Permitting

August 2024

Background

The City of Snoqualmie (City) owns and operates a potable water system, a reclaimed water system, and an irrigation system. The City's Water Reclamation Facility (WRF) supplies Class A reclaimed water to Eagle Lake, where it is stored as irrigation supply for the City and its customers, including the Snoqualmie Ridge Golf Course (Golf Course). The main customers are supplied irrigation water from the Irrigation Pump Station (IPS), including the City, the Business Park Owners Association, and the Snoqualmie Ridge Owners Association. The Golf Course irrigation system is owned and operated by the Golf Course and is separate from City operations.

The City has decided to accelerate the replacement of the IPS instead of reusing the existing pump station. The IPS will be bid with the closed water reservoir improvements currently under design by RH2 Engineering, Inc. (RH2). The City requested that RH2 prepare bid-ready design documents, provide permitting support, and provide services during bidding for the IPS.

The previous scopes of work included the following tasks:

- **Task 1 – Reclaimed Water Engineering Report**
- **Task 2 – Project Management**
- **Task 3 – Reclaimed Water System Plan Update**
- **Task 4 – Loan and Grant Application Assistance**
- **Task 5 – Preliminary Design**
- **Task 6 – Final Design**
- **Task 7 – Permitting**
- **Task 8 – Services During Bidding**
- **Task 9 – Management Reserve**

This Scope of Work and Fee Estimate includes the addition of the following tasks:

- **Task 10 – IPS Bid-Ready Design**
- **Task 11 – IPS Permitting**
- **Task 12 – IPS Services During Bidding**

Future tasks include the following:

- **Task 13 – Services During Construction**
- **Task 14 – SCADA Programming**

General Assumptions

In preparing this Scope of Work, the following assumptions were made:

- *The Reclaimed Water Distribution System Engineering Report prepared by RH2 (June 2023) as part of the original scope of work currently has been approved by the Washington State Department of Ecology (Ecology) and the Washington State Department of Health (DOH); therefore, a separate Project Report submittal to DOH will not be required as part of the project's preliminary design.*
- *The Reclaimed Water Distribution System Engineering Report did not include the new irrigation pump station. It is assumed that for this scope of work, the Engineering Report will not need to be updated.*
- *The closed water reservoir and IPS improvements will be bid together.*
- *RH2 will rely upon the accuracy and completeness of information, data, and materials generated or produced by the City or others in relation to this Scope of Work. RH2 assumes that the entity providing such information to RH2 is either the owner of such information or has obtained written authorization from the owner to distribute said information.*
- *Deliverables will be submitted in electronic format (PDF) unless otherwise noted.*
- *RH2 will perform the services described up to the amounts included in the attached Fee Estimate. If additional effort is needed, that extra work will be mutually determined and agreed upon by the City and RH2.*

Task 10 – IPS Bid-Ready Design

Objective: Prepare 60- and 90-percent plans, specifications, and opinions of probable construction cost (OPCCs) for City review and comment. Prepare bid-ready plans, specifications, and construction contract documents for the IPS.

Approach:

10.1 Prepare Design Criteria Checklist – Summarize criteria, standards, guidance, and/or codes governing the design, including mechanical, structural, and electrical design criteria. Develop a checklist for presenting design choices to the City. Discuss the City's preferences and finalize the design criteria checklist.

10.2 Prepare Structural Calculations – Prepare structural calculations for the IPS, including the roof and foundation. Provide quality assurance and quality control (QA/QC) review of structural calculations. Make recommended updates and additions to calculations per the QA/QC

review comments. Prepare and format calculations, with supporting documentation, for the Building Permit application.

10.3 Prepare Design Documents – Prepare technical specifications, construction contract documents, OPCC, and design plans, including plans, sections, elevations, and details, as follows:

- Prepare site and utility design plans including demolition plan, site grading, access to the proposed pump station, utilities, and stormwater improvements.
- Prepare structural plans including building elevations, foundation plan, floor plan, roof plan, structural sections, and structural details. *It is assumed that the IPS will be a concrete masonry unit structure with a cast-in-place concrete foundation and wood framed roof structure.*
- Prepare mechanical design plans of supply and discharge water mains, valves, and pumps (plan view, sections, and mechanical details). Prepare mechanical design plans for ventilation, heating, and dehumidification equipment and conduits.
- Prepare electrical and control design plans (legend, one-line diagram, power distribution and signal plan, lighting and receptacle plan, details, schedules, control logic diagrams, and telemetry/control panel details).
- Prepare portable emergency generator connection design plans and details. *It is assumed that the site will not include a permanent engine generator due to the time of year the IPS typically is operating*.
- Develop design specifications using Divisions 1 through 18 of RH2's standard technical specifications tailored for this project. Develop front-end specifications and non-technical specifications using the City's standard legal documents updated to reflect the project improvements. Develop schedule of prices and measurement and payment descriptions.
- Prepare and update the OPCC.

10.4 Submit 60-Percent Design Documents to City – Submit the 60-percent design plans, specifications, and OPCC to the City. Prepare meeting agenda and attend one (1) meeting with the City to discuss the 60-percent review comments. Prepare meeting minutes.

10.5 Submit 90-Percent Design Documents to City – Update the design documents based on City review comments and submit the 90-percent design plans, specifications, and OPCC to the City. Prepare meeting agenda and attend one (1) meeting with the City to discuss the 90-percent review comments. Prepare meeting minutes.

10.6 Perform Internal QA/QC – Perform internal QA/QC review of the 90-percent design plans and specifications.

10.7 Prepare Bid-Ready Design Documents – Incorporate internal QA/QC and City review comments, and Ecology and City Community Development Department (CDC) permitting conditions into the plans and specifications. Prepare bid-ready plans, specifications, and OPCC.

Assumptions:

- *The closed water reservoir and IPS improvements will be bid together as one (1) set of plans, construction contract documents, and specifications.*

Provided by the City:

- Preferences for design criteria checklist.
- One (1) set of 60-percent plans and specifications with City markups.
- One (1) set of 90-percent plans and specifications with City markups.

RH2 Deliverables:

- Structural calculations for inclusion in the Building Permit application (Task 11).
- Three (3) hard copies and one (1) PDF of half-size design plans at the 60- and 90-percent design phases.
- Three (3) hard copies, one (1) PDF, and one (1) Word file of the specifications at the 60- and 90-percent design phases.
- Three (3) hard copies and one (1) PDF of the OPCC at the 60- and 90-percent design phases.
- Three (3) hard copies and one (1) PDF of half-size bid-ready plans and OPCC.
- Three (3) hard copies, one (1) PDF, and one (1) Word file of the bid-ready specifications.

Task 11 – IPS Permitting

Objective: Perform environmental background reviews to facilitate preparation of local and state permit applications. Perform additional permitting tasks to comply with Ecology State Environmental Review Process (SERP) requirements. Prepare and submit permit applications to the City's CDC, Ecology, and DOH.

Approach:

11.1 Coordinate with CDC – Coordinate with the City's CDC regarding planned project improvements and anticipated permits.

11.2 Prepare Building Permit – Prepare a Building Permit application for the project and submit to the City. *The Building Permit will be submitted during Task 10. The effort estimated for this subtask is based on RH2's current understanding of the requirements for Building Permits in the City; project-specific requirements may require more or less effort related to the Building Permit*.

11.3 Perform Additional Permitting Tasks – Perform an environmental site investigation. Coordinate with an arborist to assess tree health, write a report to comply with City tree preservation and removal requirements, and develop a landscaping plan. Prepare a migratory bird treaty act (MBTA) and bald and golden eagle protection act (BGEPA) avoidance and conservation plan to meet SERP requirements. Prepare an environmental justice memorandum to meet SERP requirements. Prepare a No Effect (NE) Letter to address Endangered Species Act (ESA) compliance and SERP requirements.

11.4 Respond to Agency Comments – Coordinate with City staff to review applications and respond to requests for information following permit submittals. Respond to City comments by letter if requested. *RH2 cannot guarantee agency approvals. The level of effort that will be necessary for agency coordination is difficult to estimate; therefore, RH2 has estimated a level of effort that is typical for permit coordination and facilitation. It is assumed that there will be up to two (2) rounds of review comments from the City. If additional coordination is needed, RH2 can prepare an amendment to this Scope of Work*.

Assumptions:

- *The City will pay all permit fees directly.*
- *RH2 will submit permit packages directly to the City's CDC.*
- *No date is warranted or implied for agency response or approval.*
- *The project site does not contain wetland and/or stream features, or other critical areas. A critical areas study will not be required for this project.*
- *The project will disturb less than one (1) acre of land and will not require a National Pollutant Discharge Elimination System (NPDES) Construction Stormwater General Permit from Ecology.*

Provided by the City:

- Payment of permit fees.
- Review and comment on draft permitting applications.

RH2 Deliverables:

- Building Permit application.
- MBTA and BGEPA avoidance and conservation plan.
- Environmental Justice Memorandum.
- ESA NE letter.
- Electronic records of correspondence and coordination with agency staff.

Task 12 – IPS Services During Bidding

Objective: Assist with the bidding phase for the IPS.

Approach:

12.1 Submit Bid Documents and Advertisement – Submit plans, specifications, and appendices to the Builders Exchange of Washington (BXWA) for posting on its online system. *BXWA will be utilized to maintain the planholders list.* Post a copy of the same documents on the City's website for viewing. Submit advertisement for bids to the Daily Journal of Commerce.

12.2 Respond to Questions from Bidders – Respond to bidders' technical questions during the bidding process. Questions and responses will be shared with the City for review and comment prior to sending to bidders. *RH2 will forward bidders' procedural questions to the City for response.*

12.3 Prepare and Issue Addenda – Prepare up to two (2) draft addenda and submit to the City for review. Revise the addenda based on City comments and prepare a final version to submit to BXWA for posting. Post a copy of each addendum on the City's website for viewing. Revise and update the OPCC to reflect cost changes based on the addenda.

12.4 Conduct Pre-Bid Walkthrough – Attend a pre-bid walkthrough of the project site with bidding contractors and the City.

12.5 Attend Bid Opening and Prepare Analysis – Attend the bid opening and prepare a bid tabulation. Review the lowest three (3) bids, with the exception of insurance documents, which are to be reviewed by the City. Check references for the lowest bidder and prepare a letter of recommendation of award to the City.

Assumptions:

- *The City will pay any fees associated with the online bidding system directly.*
- *The City will pay all project advertisement fees directly.*
- *The City will respond to bidders' procedural questions.*
- *The City will review insurance documents in the bid package(s).*
- *The City will handle bid award and construction contract execution.*

Provided by the City:

- Payments for online bidding system fee(s) and advertisement fee(s).
- Responses to bidders' procedural questions.
- Review of draft addenda.
- Review of insurance documents in bid.
- Bid award and contract execution.

RH2 Deliverables:

- Responses to bidders' technical questions.
- One (1) hard copy, one (1) PDF, and one (1) Word file for up to two (2) draft and final addenda.
- One (1) hard copy and one (1) PDF of up to two (2) updated OPCC.
- Review of non-insurance documents in bids and bid tabulation.
- One (1) hard copy, one (1) PDF, and one (1) Word file of the letter of recommendation of award.

Project Schedule

RH2 is prepared to commence with the work upon written authorization from the City, and continue until completion of the IPS design, which is scheduled for December 2024. The City's goal is to have construction of the reclaimed water reservoir and IPS complete by June 30, 2026, to comply with the milestones listed in on the City's NPDES Permit.

EXHIBIT B
Fee Estimate
Amendment No. 2
City of Snoqualmie
Reclaimed Water Distribution System
IPS Design and Permitting
Aug-24

Description		Total Hours	Total Labor	Total Subconsultant	Total Expense	Total Cost
Task 10	IPS Bid-Ready Design	1081	$ 222,174	$ 13,800	$ 19,042	$ 255,016
Task 11	IPS Permitting	92	$ 18,482	$ -	$ 559	$ 19,041
Task 12	IPS Services During Bidding	46	$ 9,498	$ -	$ 445	$ 9,943
	PROJECT TOTAL	**1219**	**$ 250,154**	**$ 13,800**	**$ 20,046**	**$ 284,000**

EXHIBIT C RH2 ENGINEERING, INC. 2024 SCHEDULE OF RATES AND CHARGES		
RATE LIST	**RATE**	**UNIT**
Professional I	$168	$/hr
Professional II	$186	$/hr
Professional III	$207	$/hr
Professional IV	$227	$/hr
Professional V	$245	$/hr
Professional VI	$259	$/hr
Professional VII	$282	$/hr
Professional VIII	$296	$/hr
Professional IX	$314	$/hr
Technician I	$132	$/hr
Technician II	$144	$/hr
Technician III	$162	$/hr
Technician IV	$177	$/hr
Technician V	$193	$/hr
Technician VI	$213	$/hr
Technician VII	$231	$/hr
Technician VIII	$243	$/hr
Administrative I	$88	$/hr
Administrative II	$103	$/hr
Administrative III	$123	$/hr
Administrative IV	$144	$/hr
Administrative V	$166	$/hr
CAD/GIS System	$27.50	$/hr
CAD Plots - Half Size	$2.50	price per plot
CAD Plots - Full Size	$10.00	price per plot
CAD Plots - Large	$25.00	price per plot
Copies (bw) 8.5" X 11"	$0.09	price per copy
Copies (bw) 8.5" X 14"	$0.14	price per copy
Copies (bw) 11" X 17"	$0.20	price per copy
Copies (color) 8.5" X 11"	$0.90	price per copy
Copies (color) 8.5" X 14"	$1.20	price per copy
Copies (color) 11" X 17"	$2.00	price per copy
Technology Charge	2.50%	% of Direct Labor
Night Work	10.00%	% of Direct Labor
Mileage	$0.6700	price per mile (or Current IRS Rate)
Subconsultants	15%	Cost +
Outside Services	at cost	

Rates listed are adjusted annually.

TECHNICAL MEMORANDUM

Client:	City of Snoqualmie
Project:	Reclaimed Water Distribution System Improvements
Project File:	SNQ 0220187.00.0006
Project Manager:	Barney Santiago, PE
Composed by:	Cassidy Brand, EIT, and Barney Santiago, PE
Reviewed by:	Rick Ballard, PE
Subject:	Reclaimed Water Irrigation Pump Station
Date:	August 1st, 2024

Signed: 08/01/2024

Background

The City of Snoqualmie (City) owns and operates a reclaimed water supply and distribution system that is 25 years old. The City's Water Reclamation Facility supplies Class A reclaimed water to Eagle Lake, where it is stored as irrigation supply for City-supplied customers and The Club at Snoqualmie Ridge Golf Course. City customers are supplied irrigation water from the City-owned Irrigation Pump Station (IPS) located near Eagle Lake. The Golf Course irrigation system is owned and operated by the Golf Course and is separate from City operations. The City currently is designing improvements for its reclaimed water system to meet updated National Pollutant Discharge Elimination System Permit requirements. Improvements include a new closed water reservoir to be located just east of SE Ridge Street and north of Hole 2 at the Golf Course.

The City asked RH2 Engineering, Inc., (RH2) to prepare this technical memorandum to evaluate the advantages and disadvantages of using the existing IPS or building a new IPS to serve end users from the new reclaimed water system reservoir.

Existing IPS

RH2's *Reclaimed Water Distribution System Engineering Report* (2023) **(Attachment 1)** assumed the City would reuse the existing IPS as part of the reservoir improvements. The main advantage of reusing the existing IPS is that it would reduce the cost of near-term improvements to the reclaimed water system. However, there are several disadvantages to continuing to operate the existing IPS, including the following:

- The existing IPS is aging and in poor condition. The suction side piping and irrigation pumps have deteriorated due to decades of withdrawing Class A water from Eagle Lake, resulting in expedited wear on the pump cans and related suction piping.
- A new control structure and clearwell would be required to hydraulically operate the existing IPS with the new reservoir.

- The existing IPS is structurally connected to the Golf Course's irrigation pump station. Operating the new reservoir with the existing IPS would require modifying the existing yard piping that is in close proximity to the Golf Course's primary irrigation piping.
- Connecting the existing IPS to the new reservoir would require additional irrigation force main to be installed on Eagle Lake Drive SE, which would disrupt homeowners and Golf Course activities during construction. Eagle Lake Drive SE is congested with buried utilities and construction of a new 10-inch irrigation force main in the right-of-way would be slow and complex.

The construction cost to extend the irrigation transmission main from the reservoir to the existing IPS as well as to construct ancillary control and clearwell structures would range between $650,000 and $900,000. The existing IPS pumps are approximately 25 years old and have limited useful life remaining. If the existing IPS is reconfigured to accommodate the new reclaimed water reservoir, the City would need to plan to replace the pumps in the next 5 to 10 years. This would be an additional cost of approximately $200,000 to $300,000.

Proposed IPS

A new IPS would be constructed at the reclaimed water reservoir site. Although constructing a new IPS would be more costly than reusing the existing IPS, there are several advantages, including the following:

- The existing IPS pumps have 5 to 10 years of useful life remaining.
- Additional features that increase operability and efficiency of the reclaimed water system could be implemented at a new IPS. These features include variable frequency drives for the pumps, connections to a portable backup power generator, and emergency chlorination.
- The new reclaimed water reservoir will slightly change the hydraulic grade of the reclaimed water system. The new IPS can be designed around the reservoir hydraulics to maximize efficiency.
- The proposed IPS equipment and piping will only convey high quality Class A reclaimed water instead of a mixture of Class A water and low-quality raw surface water currently drawn from Eagle Lake. Additionally, the new IPS will have the ability to dispose of Class A water to the sewer system if it does not meet specifications.
- The proposed IPS will be located at the secured reservoir site adjacent to the reservoir. This will limit the number of sites that operators and maintenance personnel must regularly visit.

The construction cost to implement a new IPS at the reservoir site would range between $2,200,000 and $2,800,000.

Recommendations

Based on the many advantages of building a new IPS at the reclaimed water reservoir site, RH2 recommends the City design and construct the proposed IPS. A new IPS would cost $1,300,000 to $1,600,000 more than reusing the existing IPS, and the City would have a new facility independent from Golf Course infrastructure dedicated to conveying high-quality Class A reclaimed water. If the City were to reuse the existing IPS, the transmission main to connect the reservoir to the existing IPS would be a costly and disruptive construction project that may be abandoned years after installation. It would be more economical to implement new irrigation infrastructure now than to invest in depreciating assets associated with the existing pump station that has limited useful life remaining.

Attachments

Attachment 1 – Reclaimed Water Distribution System Engineering Report

Attachment 1

Reclaimed Water Distribution System Engineering Report

RECLAIMED WATER DISTRIBUTION SYSTEM ENGINEERING REPORT

Prepared for City of Snoqualmie

December 2023

SNQ 22-0187

Prepared by:
RH2 Engineering, Inc.
22722 29th Drive SE, Suite 210
Bothell, WA 98021
1.800.720.8052 / rh2.com

City of Snoqualmie
Reclaimed Water Distribution System
December 2023

Prepared by RH2 Engineering, Inc.

Prepared for City of Snoqualmie

Note: This Engineering Report was completed under the direct supervision of the following Licensed Professional Engineers registered in the State of Washington.

Sincerely,

RH2 ENGINEERING, INC.

Signed: 12/07/2023

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Reclaimed Water Distribution System
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City of Snoqualmie
Reclaimed Water Distribution System
Engineering Report

Introduction

This Engineering Report (Report) evaluates alternatives for the City of Snoqualmie (City) to improve its reclaimed water distribution system to meet the requirements of the Washington State Department of Ecology's (Ecology) Reclaimed Water Rule and to comply with Permit Section R8.A.1 of the City's current Reclaimed Water Permit. This Report includes the reclaimed water system alternatives analysis and the preliminary design of the preferred alternative.

Background

The City owns and operates a potable water system, a sanitary sewer system, and a reclaimed water system. The reclaimed water supply and distribution system finished construction in 1999. The City's Water Reclamation Facility (WRF) supplies Class A reclaimed water to Eagle Lake, where it is stored as irrigation supply for City-supplied customers and the Snoqualmie Ridge Golf Course (Golf Course). City customers are supplied irrigation water from the City owned Irrigation Pump Station (IPS) located near Eagle Lake. The Golf Course irrigation system is owned and operated by the Golf Course and is separate from City operations. **Figure 1** shows the reclaimed water transmission main from the WRF to Eagle Lake, as well as the City's reclaimed water system irrigation areas.

In 2021, Ecology issued the City's updated National Pollutant Discharge Elimination System (Permit) Permit (No. WA0022403), which included additional requirements for the City's reclaimed water system. These updates are based on the recently modified Reclaimed Water Rule, Chapter 173-219 Washington Administrative Code (WAC), which includes requirements that did not exist at the time the reclaimed water system was constructed. Through the NPDES Permit, Ecology is requiring the City to modify the reclaimed water distribution system to "…not allow contamination of reclaimed water by lower quality water, such as urban stormwater runoff." The purpose of this Report is to analyze alternatives and propose reclaimed water system improvements to fulfill Permit Section R8.A.1 submittal requirements. The use of reclaimed water is necessary to help meet the growing need for clean water for beneficial use. It is RH2 Engineering, Inc., (RH2) and the City's understanding that the goal of the Reclaimed Water Rule and the Permit, as it pertains to the City's Class A reclaimed water irrigation system, is to prevent degradation of reclaimed water quality from other sources.

The existing City irrigation system is a non-expanding reclaimed water system. At this time, the City has no intention to increase the service area or number of customers that receive reclaimed water.

Historical Irrigation Usage

Currently, reclaimed water is produced at the WRF, sent to Eagle Lake via the Reclaimed Water Transmission Main, and then pumped from the IPS to the City's irrigation distribution system. The municipal side of the IPS has three pumps that supply a 10-inch pipeline that connects to

the City's irrigation distribution system. **Table 1** shows the existing pumps' capacity, total dynamic head, and horsepower.

Table 1

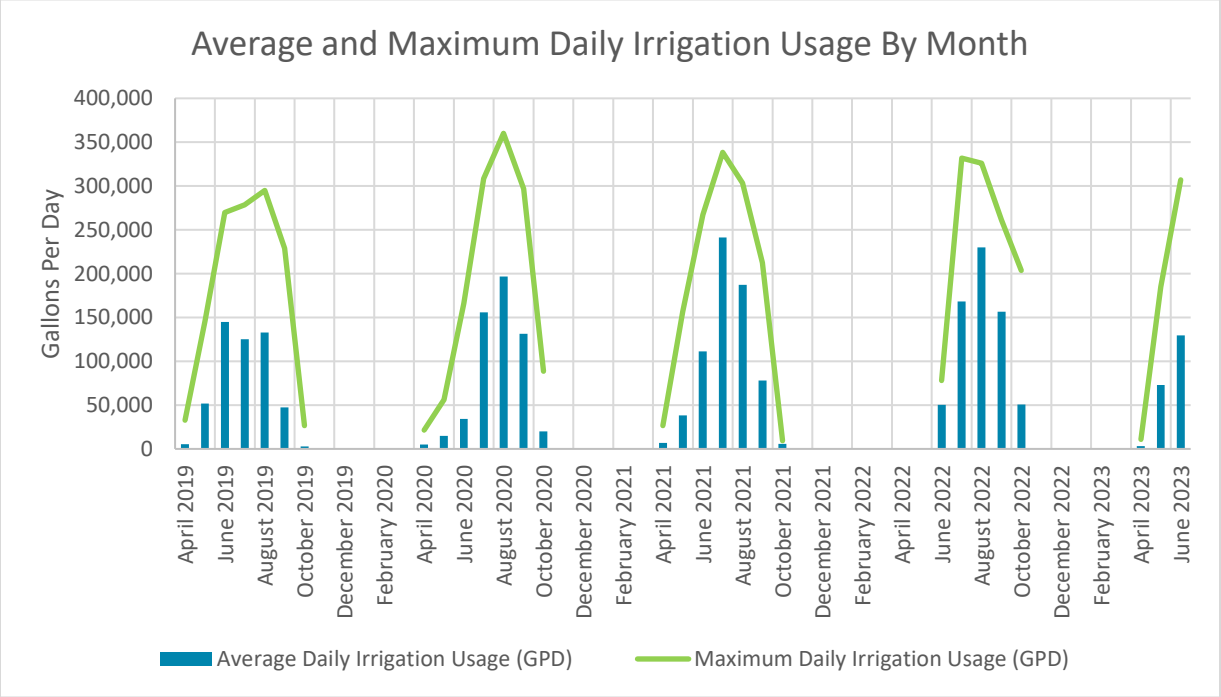
Existing Municipal Irrigation Pumps

Pump Quantity and Type	Pump Capacity (gpm)	Total Dynamic Head (ft)	Horsepower
(2) Vertical Turbine Pumps	500	400	75
(1) Jockey Pump	40	600	7.5

Historically, the City supplied Eagle Lake from two sources; Class A reclaimed water from the City's WRF, and water from the City's potable water system. In 2019, the City transitioned to using only reclaimed water for irrigation to help conserve potable water for beneficial use. **Figure 2** shows the average and maximum daily irrigation use for each month from April 2019 to June 2023 during irrigation season. During the 2019 through 2022 irrigation seasons, the average volume of irrigation water used for the City's irrigation system was 17.9 million gallons (MG) per year. This is not total reclaimed water supply to Eagle Lake or does it include supply to the Golf Course irrigation system.

Figure 2

Average and Maximum Daily Irrigation Usage per Month



The existing City irrigation system controller is a Rain Bird Maxicom Central Control System with meters to the various points of connection to bill customers. This Maxicom system controls irrigation of City areas overnight between the hours of 10 PM and 6 AM. **Table 2** summarizes the daily irrigation water demands.

Table 2

City Irrigation Demands Summary

Condition	Criteria	Gallons
Average Daily Demand	Average Day Production in July and August 2019-2022	180,000
Maximum Daily Demand	Maximum Day Production from 2019-2022	360,000
Maximum Daily Irrigation Pump Capacity	Eagle Lake Pump Station capacity with two 500 gallons per minute (gpm) pumps continuously running for 8 hours each night	480,000

The City contracts with Extended Range Forecasting Company, Inc., (ERF, aka Water Management Group, Inc.) to manage the irrigation system. The irrigation system piping varies throughout distribution, and there are multiple pressure regulating valves which reduce pressure to the zone of application. The jockey pump operates intermittently to maintain a pressure setpoint within the system, a minimum of 70 pounds per square inch (psi).

Alternatives Analysis

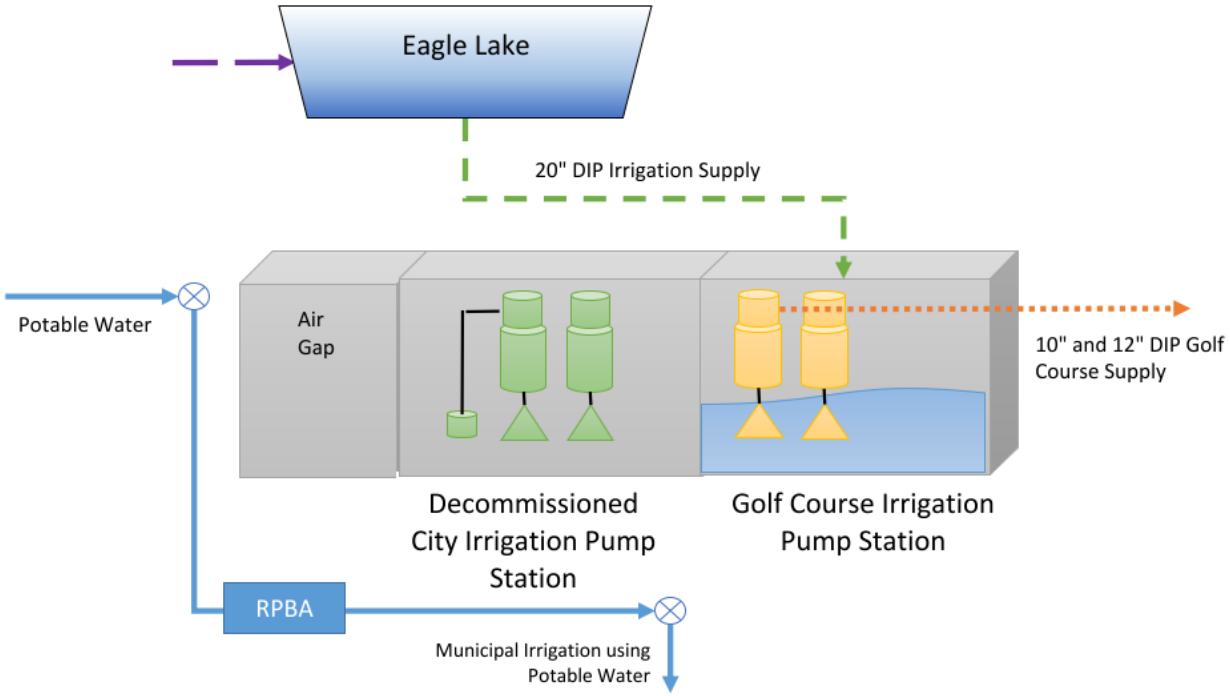
Ecology is requiring that the City's irrigation system be separated from Eagle Lake so that it does not pump water that is comingled with other potential water sources. In addition, the Reclaimed Water Rule requires that any Class A reclaimed water generator or distributor must maintain a free chlorine residual greater than 0.2 milligrams per liter (mg/L) or a total chlorine residual greater than 0.5 mg/L "…from the facility to the point of use to prevent biological growth, prevent deterioration of reclaimed water quality, and to protect public health." (WAC 173-219-370(1)). RH2 evaluated two distribution system improvement alternatives to comply with these regulations. Alternative 1 would transition the City's entire municipal irrigation supply downstream of the IPS to potable water, which inherently has a chlorine residual. Alternative 2 would construct a closed reservoir to store and separate reclaimed water generated by the WRF from the Golf Course's Eagle Lake. This alternative would either have a permanent chlorination system for disinfection or have appurtenances to implement emergency chlorination.

Alternative 1: Transition Irrigation Customers to Potable Supply

Alternative 1 would transition existing irrigation customers from reclaimed water to potable water. This can be accomplished by bypassing the IPS altogether and connecting the existing potable water supply directly to the 10-inch ductile iron pipe (DIP) municipal irrigation main. Piping associated with the municipal reclaimed IPS would be cut and capped. The existing 4-inch-diameter potable supply pipeline may need to be upsized to accommodate the new connection. A reduced pressure backflow assembly (RPBA) would be installed to prevent a cross connection to the domestic water system. The pipeline would be equipped with control valves

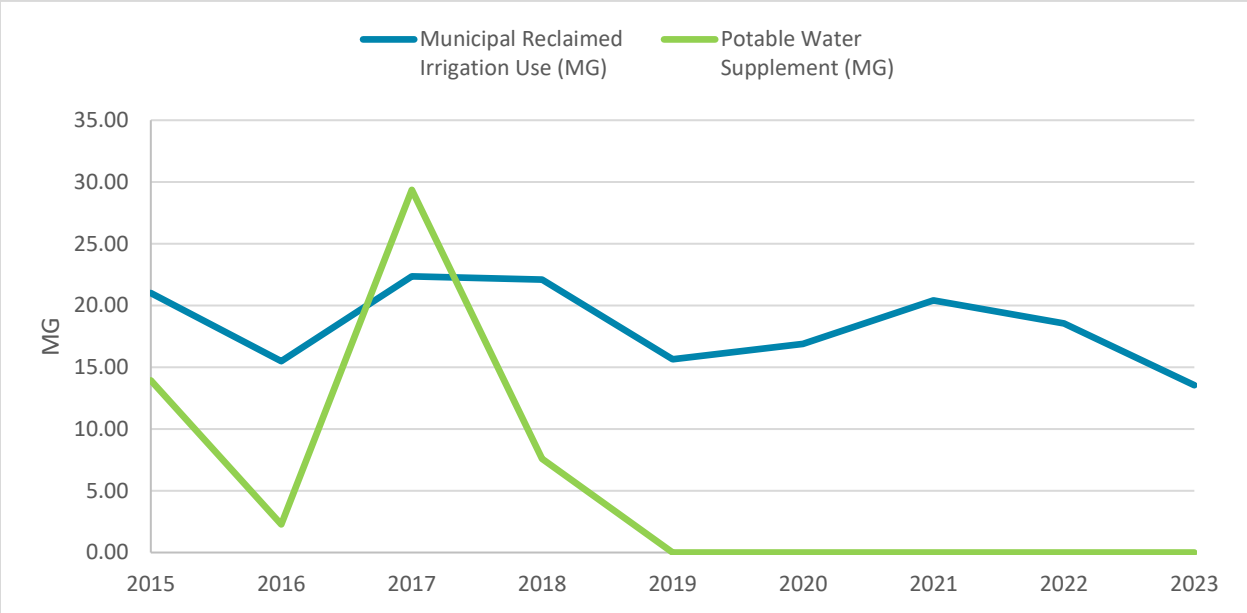
to regulate flow and a flow meter with a telemetry connection to allow the City to monitor water use. **Figure 3** shows a schematic of this alternative.

Figure 3
Alternative 1 Schematic



The City's Water Use Efficiency (WUE) Program, in accordance with the WUE Rule in the Municipal Water Supply – Efficiency Requirements Act, is helping to curtail excess potable water demands. Prior to 2019, potable water was used occasionally to supplement reclaimed water for irrigation. Since 2019, the City has not supplemented reclaimed water demands with potable water. **Figure 4** shows the historical annual municipal reclaimed water irrigation usage and potable water supplement. Converting municipal customers' irrigation supply from reclaimed water to potable water will result in higher potable water usage for irrigation. This will result in higher potable water usage for irrigation and may result in greater burden to water supply which has not been accounted for in water system planning.

Figure 4
Municipal Reclaimed Irrigation Use and Potable Water Supplement



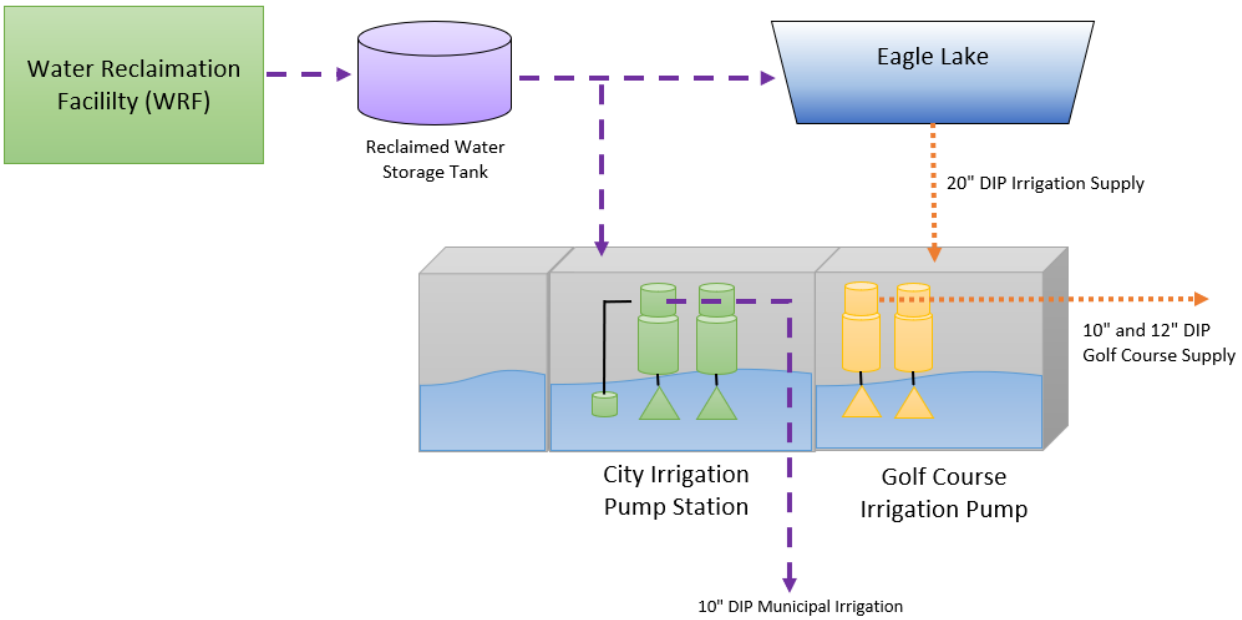
Converting the City's irrigation supply to potable water also will cause an increase in prices for City customers currently billed for reclaimed water. Per City Ordinance 1187, the rate for retail customers of the municipal irrigation system for reclaimed water is a flat rate (based on the percent of total zones a customer owns) plus a volumetric rate of $3.21 per 100 cubic feet (ccf) in 2023. The commercial water/potable irrigation rate is a flat rate (based on the size of the customer's water meter) plus a volumetric rate of $4.09/ccf in 2023 (assuming the usage falls within 300 to 801 ccf). Therefore, transitioning customers from reclaimed water to potable water would result in a cost increase of $0.88/ccf in 2023.

The Water System Plan (WSP) details future water rights and source capacity limitations. Table 6-3 of the WSP shows that instantaneous water rights would be deficient by 2040 even factoring Water Use Efficiency (WUE). Table 7-2 of the WSP shows that projected water source capacity would be deficient by 2030. Due to the City's population growth, limited water rights, and customer cost impacts, potable water is not a viable long-term solution for the City to comply with the Reclaimed Water Rule.

Alternative 2: Separation of City Reclaimed Water Irrigation System

Alternative 2 consists of constructing a new reclaimed water reservoir. Reclaimed water produced at the WRF would be stored in the reservoir and then connected to the irrigation distribution system at the IPS, thereby completely separating Eagle Lake from the municipal irrigation system. This alternative would provide the City with complete control of the reclaimed water quantity and quality as it leaves the WRF. Eagle Lake would continue to be supplied with reclaimed water for use by the Golf Course. **Figure 5** shows a schematic of this alternative.

Figure 5
Alternative 2 Schematic



Alternative 2A: Reclaimed Water Reservoir with Chlorination

To maintain a chlorine residual per WAC 173-219-370, a chlorination system would inject sodium hypochlorite into the City's irrigation pump station discharge as the water is pumped to the municipal irrigation distribution system. The disinfection infrastructure would include a bulk sodium hypochlorite chemical storage and feed system, chlorine residual analyzers in the irrigation distribution system at key locations (to ensure a residual greater than 0.2 mg/L free chlorine or greater than 0.5 mg/L total chlorine), and electrical and control improvements.

The disadvantages of chlorinating reclaimed water not only include the additional capital and operational costs for the chemical feed system, but also the challenges and labor required to maintain a chlorine residual in this type of distribution system. As shown in **Figure 1**, unlike a potable water distribution system that typically loops fresh water throughout a system, the reclaimed water distribution system consists of a 10-inch-diameter transmission main to Eagle Lake and a branching network of irrigation lines from the pump station. This results in many dead-end, small diameter pipelines, each with their own extended water age issues. It would be challenging to monitor the various extents of the irrigation zones for chlorine residual. It would be even more challenging to consistently maintain a healthy chlorine residual in an intermittent system that only operates overnight and is dormant for most of the day. A fully looped irrigation system would require a complete rebuild of this distribution system.

Alternative 2B: Reclaimed Water Reservoir without Chlorination

WAC 173-219-370 allows for the distribution chlorine residual requirement to be waived or modified if the reclaimed water generator can demonstrate a benefit from reducing or eliminating the chlorine residual. The City previously requested a distribution chlorine residual waiver in a December 2015 Engineering Report under the condition that the chlorination disinfection system be maintained to either mitigate biological growth within the irrigation distribution system or provide disinfection in the event the ultraviolet (UV) disinfection system

cannot meet reclaimed water standards. In 2019, the City received formal approval from Ecology and the Washington State Department of Health (DOH) to waive the distribution chlorine residual requirement for the UV application. The City is requesting that Ecology and DOH continue to waive the distribution chlorine residual requirement for the proposed application of completely separating Eagle Lake from the municipal irrigation system by constructing a reclaimed water reservoir. The many benefits of not chlorinating the City's reclaimed water include the issues referenced previously. City operations staff would not need to operate and maintain the chlorine storage and feed equipment or monitor chlorine residual throughout the various dead-end irrigation zones overnight during the hours of irrigation.

One of the strongest reasons to not chlorinate is that the City has been operating this irrigation system for more than two decades without any recorded violations or public health concerns regarding the use of reclaimed irrigation water. The City has complete control of the irrigation system, there are no unauthorized users of the reclaimed water system, and the late-night hours of operation limit human exposure to the Class A reclaimed water. Augmenting this water with a chlorine residual would require extensive additional maintenance for City staff with minimal health benefit.

To provide disinfection flexibility, the City can keep the WRF reclaimed water pump discharge chemical injection point available if sodium hypochlorite is ever needed to sanitize the irrigation distribution system in an emergency. The City previously chlorinated Class A reclaimed water before the UV light disinfection system was implemented at the WRF.

Recommendation

Separating the City's reclaimed water allotment from Eagle Lake by installing a new closed water reservoir is the best solution to meet the updated Permit requirements. This will allow the City to have full control of the quality of reclaimed water generated by the WRF. Maintenance of a chlorine residual to comply with WAC 176-219-370 may require rebuilding the City's entire irrigation distribution system, as well as extensive operator labor to maintain and operate a chlorine storage and injection system and monitor chlorine residuals in dead-end zones overnight. The non-looped irrigation distribution system may not feasibly sustain a chlorine residual due to extensive water quality issues within dead-end pipes. The effort required for maintaining this residual has minimal benefit since the City has had no reported public health issues with humans interacting with this reclaimed irrigation water since 1999 when construction was completed. It would be challenging to estimate the costs of chlorinating reclaimed water while upgrading the reclaimed water distribution system to ensure a persistent chlorine residual. The City is formally requesting Ecology waive the requirement of maintaining a chlorine residual as outlined in WAC 173-219-370, since separation through a proposed reclaimed water reservoir will meet the intent of the NPDES Permit.

Reclaimed Water Reservoir Preliminary Design

Reservoir Sizing

The reservoir will be sized to provide at least enough storage to meet the maximum day demand of the existing system over the 8 hour irrigation period. The irrigation period is from 10 PM to 6 AM and most reclaimed water is produced during the day. **Table 3** shows the basis of design for the reservoir's volume.

Table 3

Reclaimed Water Reservoir Volume Basis of Design

Condition	Criteria	Design Usage (gal)
Average Daily Demand	Average Day Demand (During Peak Irrigation Season)	180,000
Minimum Storage Volume	1.5 x Average Day Demand (per Reclaimed Water Facilities Manual)	270,000
Maximum Daily Storage Volume	Maximum Production from 2019-2022	360,000
Conservative Maximum Daily Storage Volume	Maximum Production with a 10% Safety Factor	400,000
Maximum IPS Pumping Condition	Eagle Lake Pump Station capacity with two 500 gpm pumps continuously running for 8 hours each night	480,000

The proposed reservoir should be sized to store approximately 400,000 gallons to provide some conservatism for the maximum daily volume. The exact size will be determined in a future phase of this project.

Reservoir Location

The proposed reclaimed water reservoir will be constructed along the reclaimed water transmission main that currently runs from the WRF to Eagle Lake. Reclaimed water will flow from the reservoir to the IPS and bypass Eagle Lake. A new control structure and clearwell also will need to be installed at the IPS. **Figure 6** provides six possible sites for the proposed reservoir. Sites 1 and 2 are preferable as they are out of the neighborhood's public view; however, they are both within Bonneville Power Administration's (BPA) easement and would require additional coordination and permitting prior to construction. If the BPA permitting timeline would prevent the tank from being constructed and operational by June 30, 2026, then Site 3 or 4 should be selected. Site 3 is within view of the Golf Course and many homeowners; therefore, it would require additional coordination with these stakeholders. Site 4 is at the WRF. This site would simplify operations and maintenance; however, due to hydraulic constraints, a reservoir at the WRF would have to be very shallow and would be significantly more expensive than the other sites. Site 5 would require constructing an additional clarifier at the WRF and utilizing it as a reclaimed water reservoir until City growth requires it to function as a clarifier to increase WRF treatment capacity. This option was eliminated as it is significantly more expensive than sites 1-3 and once a third clarifier is needed at the WRF, another reclaimed water reservoir also would be necessary. Site 6 is next to the IPS. This site was

eliminated due to the large number of existing utilities in the area. **Planning-Level Capital Costs** for all six sites are presented later in this Report.

Reservoir Access

The site will be developed to allow for large vehicles to drive to the infrastructure for any future work. The reservoir will be buried or partially buried depending on the selected location. There will be a single roof access hatch that will be a minimum of 30 inches in diameter for interior access and transport of any maintenance equipment inside the reservoir. The interior access ladder will be stainless steel and equipped with a safety climb system. The reservoir will be designed to prevent any stormwater intrusion to maintain the water quality of the reclaimed water.

Reservoir Mechanical

A control structure or mechanical piping system will be designed in a future phase of this project to split reclaimed water flows to the reservoir and to Eagle Lake. Due to the volume differences between the reservoir and Eagle Lake, the intent of the control structure would be to prioritize filling the reservoir first. The reservoir inlet pipe will be ductile iron outside of the reservoir, stainless steel under and through the reservoir foundation, and coated steel within the reservoir. The inlet pipe sizing and location will be determined during future phases of the project.

The separate outlet pipe also will be coated steel pipe inside the reservoir, stainless steel piping through the reservoir, and ductile iron piping outside the reservoir. There also will be new ductile iron piping from the reservoir outlet to the City's municipal irrigation pump station clearwell. The outlet pipe sizing will be determined during future phases of the project.

The reservoir control structure would direct any reservoir overflow water to Eagle Lake. This will be designed during future phases of the project. Reservoir drainage will also be determined during the design phase of the project and will account for the partially buried or completely buried structure, likely through piping or an accessory structure.

All pipes entering or leaving the reservoir will have expansion joints to allow for differential settling without putting strain on the pipes.

The reservoir will have one roof vent to move air during normal operation and provide vacuum protection for a major drawdown event. The vent system will be confirmed during the design phase of the project.

Reservoir Electrical, Telemetry, and Lighting

The reservoir instrumentation will communicate with the City's Supervisory Control and Data Acquisition (SCADA) system through fiber optic lines. The location of the existing wiring that can be extended to the site will be evaluated during future phases of the project.

The SCADA system at the reservoir site will monitor reservoir levels, notify staff of access hatch intrusion, and notify the City if there is an overflow event. Updates to the telemetry system at

the IPS will allow City operators to monitor and control water levels in Eagle Lake and the bypass control structure.

The reservoir will have site lighting to help facilitate City staff to access the reservoir anytime throughout the day. Additional security measures will be determined during future phases of the project.

Operations and Maintenance Considerations

City WRF staff would operate and maintain the proposed reservoir and control structure, but the required labor is expected to be minimal due to the passive nature of these distribution system improvements.

If irrigation water is required in early spring before the WRF starts producing Class A reclaimed water regularly, then the irrigation system should be configured to be supplemented with potable water through an air gap or an approved backflow prevention device for potable cross-connection control.

The City can plan on shock chlorinating the transmission main, reservoir, and pipeline routinely as a maintenance procedure to ensure sanitary conditions at the start of each irrigation season. The emergency chlorination injection point can be activated for this activity. At the end of each irrigation season, the irrigation distribution system can be flushed and drained as much as possible.

Once construction of the reclaimed water reservoir is complete, the City will update its *Reclaimed Water Operations and Maintenance Manual* per the NPDES Permit requirements. This will include shock chlorination and flushing protocols for the reclaimed water distribution system, updates to the sign maintenance program, and cross-connection control maintenance activities, such as proper backflow prevention assembly testing protocols.

Planning-Level Capital Costs

This section summarizes the capital costs of the reclaimed water storage tank alternatives presented in **Figure 6**. **Table 4** presents an opinion of probable construction and overall project costs for a proposed reservoir on Sites 1 through 3, as these three sites have similar capital costs related to being undeveloped with minimal existing infrastructure and utilities. **Table 5** presents an opinion of probable cost for Site 4, which is significantly higher than Sites 1, 2, and 3 due to the shallow and wide geometry of the proposed tank to make the WRF location feasible. **Table 6** presents an opinion of probable cost for Site 5, which constructs a new clarifier to function as a reclaimed water reservoir. **Table 7** presents an opinion of probable cost for Site 6, which locates the proposed reservoir directly adjacent to the IPS. Costs and contingencies will be further refined during future phases of the project.

Table 4

Engineer's Opinion of Probable Capital Cost for Sites 1 through 3 (Greenfield Sites)

Item	Unit	Total Cost
Mobilization, Demobilization, Site Prep, and Cleanup (10%)	LS	$265,000
Site Work	LS	$275,000
Structural	LS	$2,239,000
Utility	LS	$100,000
Electrical, Telemetry, and Automatic Control	LS	$100,000
Construction Cost Subtotal		**$2,979,000**
Construction Contingency (30%)		$894,000
Sales Tax (8.9%)		$265,200
Total Estimated Construction Cost		**$4,139,000**
Engineering Design, Survey, Geotechnical, Permitting, Bid-Phase Services, Construction-Phase Services		$1,449,000
City Project Administration		$621,000
Total Project Cost		**$6,300,000**

Table 5

Engineer's Opinion of Probable Capital Cost for Site 4 (at WRF)

Item	Unit	Total Cost
Mobilization, Demobilization, Site Prep, and Cleanup (10%)	LS	$323,000
Site Work	LS	$300,000
Structural	LS	$2,688,000
Utility	LS	$90,000
Electrical, Telemetry, and Automatic Control	LS	$150,000
Construction Cost Subtotal		**$3,551,000**
Construction Contingency (30%)		$1,066,000
Sales Tax (8.9%)		$316,000
Total Estimated Construction Cost		**$4,933,000**
Engineering Design, Survey, Geotechnical, Permitting, Bid-Phase Services, Construction-Phase Services		$1,727,000
City Project Administration		$740,000
Total Project Cost		**$7,400,000**

Table 6

Engineer's Opinion of Probable Capital Cost for Site 5 (WRF Clarifier)

Item	Unit	Total Cost
Mobilization, Demobilization, Site Prep, and Cleanup (10%)	LS	$302,000
Site Work	LS	$450,000
Structural	LS	$1,715,000
Utility	LS	$450,000
Electrical, Telemetry, and Automatic Control	LS	$400,000
Construction Cost Subtotal		**$3,317,000**
Construction Contingency (30%)		$996,000
Sales Tax (8.9%)		$296,000
Total Estimated Construction Cost		**$4,610,000**
Engineering Design, Survey, Geotechnical, Permitting, Bid-Phase Services, Construction-Phase Services		$1,614,000
City Project Administration		$692,000
Total Project Cost		**$7,000,000**

Table 7

Engineer's Opinion of Probable Capital Cost for Site 6 (at IPS)

Item	Unit	Total Cost
Mobilization, Demobilization, Site Prep, and Cleanup (10%)	LS	$316,000
Site Work	LS	$400,000
Structural	LS	$1,910,000
Utility	LS	$750,000
Electrical, Telemetry, and Automatic Control	LS	$100,000
Construction Cost Subtotal		**$3,476,000**
Construction Contingency (30%)		$1,041,000
Sales Tax (8.9%)		$309,000
Total Estimated Construction Cost		**$4,826,000**
Engineering Design, Survey, Geotechnical, Permitting, Bid-Phase Services, Construction-Phase Services		$1,687,000
City Project Administration		$723,000
Total Project Cost		**$7,300,000**

Sites 1, 2, and 3 are the lowest cost options for the proposed reclaimed water reservoir and are to be further explored during future phases of this project. Locating the reservoir at the WRF (Site 4) was eliminated since it is more expensive and would reduce the amount of expandable area at the WRF. While developing a third WRF clarifier (Site 5) would be more expensive than Sites 1 through 3, it has the benefit of being converted into a future clarifier when needed.

However, this option postpones a true reclaimed water storage solution for the future and has been eliminated. Building the reservoir directly at the IPS (Site 6) would require a massive reconstruction of below-grade utilities; this option has been eliminated due to the additional cost and unknown risks.

Conclusions and Next Steps

The recommended alternative to comply with the Reclaimed Water Rule is for the City to store reclaimed water in a proposed reservoir, separating this supply. The proposed reservoir should be located in an open area near the Golf Course away from existing infrastructure and utilities (proposed Sites 1, 2, and 3). The irrigation system is a non-expanding system with no proposed new reclaimed water users in the near future. The existing infrastructure was operated and maintained for more than two decades with no public health concerns since the City irrigates overnight to minimize human exposure. Implementing a chlorination system to provide a chlorine residual would incur extensive costs and labor for minimal benefit.

The predesign and site selection will be finalized in 2023. A preliminary environmental review and planning-level State Environmental Policy Act (SEPA) Checklist has been prepared to comply with WAC 173-240-060(3)(r) and is attached as **Appendix A**. The City's determination of nonsignificance (DNS) letter associated with that planning-level SEPA is attached as **Appendix B**. A project-level SEPA and other permitting will be completed concurrent with the design phase of this project after site selection. Design of the recommended improvements is anticipated to begin in 2024, with the goal to have construction complete by June 30, 2026, to comply with the milestones listed on the Permit. The preliminary design-level cost estimate for this project is between $6,000,000 to $7,000,000, depending on the selected tank location.

Figures

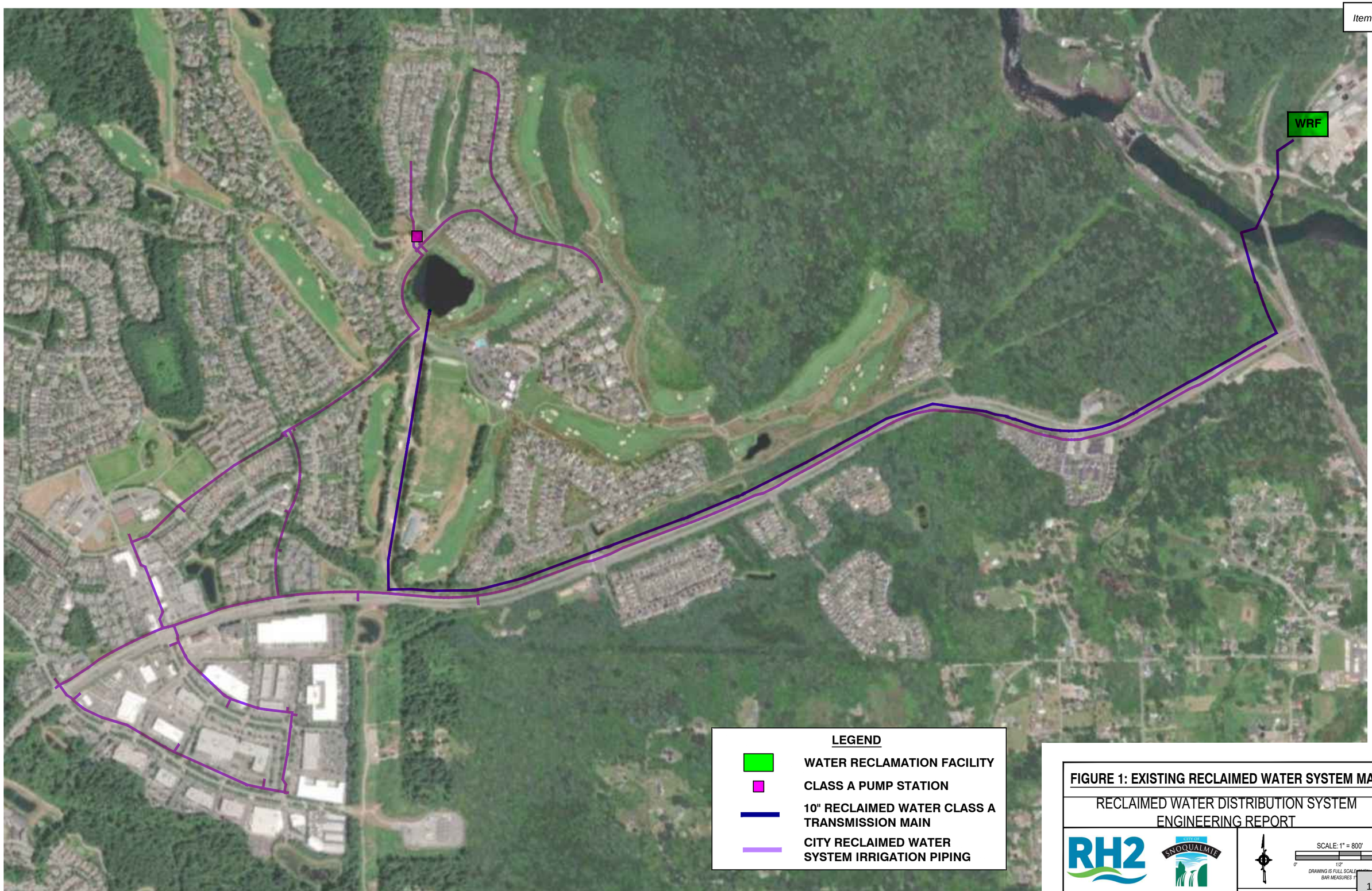


FIGURE 1: EXISTING RECLAIMED WATER SYSTEM MAP

RECLAIMED WATER DISTRIBUTION SYSTEM ENGINEERING REPORT

RH2

CITY OF SNOQUALMIE

SCALE: 1" = 800'

0" 1/2" 1"

DRAWING IS FULL SCALE WHEN BAR MEASURES 1"

PLOT DATE: 6/28/2023

FILE PATH: J:\Data\SNO\22-0187\CAD\wlrw-d-fig1.dwg

FIGURE 6: POTENTIAL RESERVOIR LOCATIONS

RECLAIMED WATER DISTRIBUTION SYSTEM ENGINEERING REPORT

RH2

CITY OF SNOQUALMIE

SCALE: NTS

0" 1/2" 1"

DRAWING IS FULL SCALE WHEN BAR MEASURES 1"

PLOT DATE: 9/11/2023

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Appendix A

SEPA Checklist

SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization, or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. **You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown.** You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to **all parts of your proposal,** even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for lead agencies

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B, plus the Supplemental Sheet for Nonproject Actions (Part D). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in "Part B: Environmental Elements" that do not contribute meaningfully to the analysis of the proposal.

A. Background

1. **Name of proposed project, if applicable:**

   Reclaimed Water Distribution System Improvements

2. **Name of applicant:**

   City of Snoqualmie (City) Public Works Department

3. **Address and phone number of applicant and contact person:**

   Andrew Vining, PE, Project Engineer
   City of Snoqualmie Public Works
   38624 SE River Street
   Snoqualmie, WA 98065
   (425) 831-8919, ext. 3004

4. **Date checklist prepared:**

   October 6, 2023

5. **Agency requesting checklist:**

   City Planning Department and Washington State Department of Ecology (Ecology)

6. **Proposed timing or schedule (including phasing, if applicable):**

   The *Reclaimed Water Distribution System Engineering Report* (Engineering Report) (RH2, 2023) is undergoing final review and pending approval with Ecology, which is planned to occur before the end of 2023. The predesign and site selection for the reservoir will be finalized in late 2023. Design of the recommended improvements is anticipated to begin in 2024, with the goal of having construction complete by June 30, 2026, to comply with the requirements of Ecology's Reclaimed Water Rule and with Permit Section R8.A.1 of the City's current National Pollutant Discharge Elimination System (NPDES) Permit.

7. **Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.**

   The existing City irrigation system is a non-expanding reclaimed water system. The City does not currently intend to increase the service area or number of customers that receive reclaimed water. Future improvements or expansion of the reclaimed water system would be covered in future State Environmental Policy Act (SEPA) review, as needed.

8. **List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.**

   The Engineering Report, which includes a reclaimed water system alternatives analysis and preliminary design information for a preferred site alternative, has been prepared in support of this project. This SEPA Checklist has been prepared to accompany the Engineering Report review through Ecology, as well as detail anticipated project

improvements to the extent they are presently defined. Additional environmental documentation is anticipated to be prepared for construction of a preferred alternative, as well as for compliance with permitting processes, including the State Environmental Review Process (SERP) through Ecology. SERP is anticipated to be completed for this project as a condition of receiving Clean Water State Revolving Fund (CWSRF) funding.

9. **Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.**

   No pending applications or approvals are known.

10. **List any government approvals or permits that will be needed for your proposal, if known.**

    This SEPA will be processed by the City to accompany the Engineering Report. A project-level SEPA will be prepared following site selection and subsequent design. Approvals needed for the project include the following.

    - Project Design/Construction Review and Approval – Washington State Department of Health (DOH) and Ecology
    - SERP Compliance is anticipated to be required for the project pending award of CWSRF funding, including the following components – Ecology
        - Environmental Review (SEPA) (for project-level improvements)
        - Public participation/engagement
        - Section 106 National Historic Preservation Act (NHPA) Cultural Resources Review
        - Environmental Justice Review
        - Compliance with applicable federal cross cutters, as needed (e.g., Clean Air Act, Endangered Species Act, etc.)
    - Proposed Use of Bonneville Power Administration (BPA) Right-of-Way Approval would be needed for select potential reservoir sites – BPA
    - Clearing and Grading Permit – City
    - Critical Areas Review would be needed for select potential reservoir sites – City
    - Commercial Building Permit – City

11. **Give a brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)**

    The City's Water Reclamation Facility (WRF) produces Class A reclaimed water and supplies it to Eagle Lake via a transmission main that traverses State Route (SR) 202 and Snoqualmie Parkway. Class A water is stored in Eagle Lake as irrigation supply for the City's Class A distribution system and the Snoqualmie Ridge Golf Course (Golf Course). Reclaimed water is

distributed to the above-mentioned sources via the City-owned Irrigation Pump Station (IPS) located near Eagle Lake.

In 2021, Ecology issued the City's updated NPDES Permit (No. WA0022403), which included additional requirements for the City's reclaimed water system. These updates are based on the recently modified Reclaimed Water Rule in Chapter 173-219 Washington Administrative Code (WAC), which includes requirements that did not exist at the time the reclaimed water system was constructed. Through the NPDES Permit, Ecology is requiring the City to modify the reclaimed water distribution system to "...not allow contamination of reclaimed water by lower quality water, such as urban stormwater runoff."

To comply with the 2018 update of the Reclaimed Water Rule, the City is proposing construction of a new closed reservoir to store and separate reclaimed water generated by the WRF from Eagle Lake. Reclaimed water produced at the WRF would be stored in the reservoir and then connected to the irrigation distribution system at the IPS, thereby completely separating Eagle Lake from the City's Class A distribution system. The proposed closed reservoir also would involve construction of a new reclaimed water pipeline to the IPS. Six potential reservoir sites are identified in the Engineering Report and four are being evaluated further to determine the optimal location for the new facility.

This SEPA Checklist is being included with the Engineering Report review and is intended to satisfy planning-level SEPA review. To the extent that details are known for the proposed alternative reservoir sites, they have been included; however, the City anticipates preparation of a project-level SEPA once the reservoir site is selected and subsequent design is completed.

12. **Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.**

Potential reservoir sites identified in the Engineering Report are all within City limits. Potential reservoir sites 1, 2, and 3 are in the Snoqualmie Ridge neighborhood, near the Golf Course. Potential reservoir site 4 is within the footprint of the City's existing WRF. The proposed reclaimed water transmission main alignment would be dependent on the reservoir site selected, but generally would traverse along existing rights-of-way from the IPS to the new reclaimed water reservoir. These reservoir sites are in the eastern half of Section 25, Township 24 North, Range 07 East.

Potential reservoir sites 1 and 2 are located within the BPA overhead power line corridor on parcel no. 2524079001, which encompasses the Golf Course. These sites are along an unnamed private road that spans south to north from Snoqualmie Parkway to SE Ridge Street through the Golf Course and is primarily used for Golf Course operations and maintenance.

Potential reservoir site 3 is located on parcel no. 2624079045, northwest of Eagle Lake, on the northwest side of Eagle Lake Drive SE and southwest of the existing IPS.

Potential reservoir site 4 is on parcel no. 3024089079 at the existing WRF site, on the north side of the Snoqualmie River and north of SE Stearns Road, approximately 1.5 miles east of Eagle Lake. Potential reservoir site 4 was determined to have a much higher cost of design and construction due to hydraulic limitations and is omitted from further discussion in this SEPA Checklist.

Refer to the attached **Potential Reservoir Locations** map showing the potential reservoir sites and possible reclaimed water transmission main alignment.

B. Environmental Elements

1. Earth

a. General description of the site:

Circle or highlight one: (Flat), rolling, hilly, steep slopes, mountainous, other:

b. What is the steepest slope on the site (approximate percent slope)?

The steepest slope on potential reservoir site 1 is associated with the hillside north of Snoqualmie Parkway and is approximately 5 percent. Potential reservoir site 2 is generally flat with some gentle hills. The steepest slope on potential reservoir site 3, associated with the Golf Course and the road embankment of Eagle Lake Drive, is approximately 13 percent.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them, and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

According to the Natural Resources Conservation Service soil survey data, the potential reservoir sites are entirely within the Tokul gravelly medial loam, 8 to 15 percent slopes, soil map unit, which is comprised of a moderately well drained gravelly medial loam that develops from volcanic ash mixed with loess over glacial till on hillslopes or till plains. This soil is classified as a farmland of statewide importance and is not hydric.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No.

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

Earthwork would be needed to construct a new approximately 480,000-gallon water reclamation reservoir, install a reclaimed water transmission main from the new reservoir to the existing IPS and install associated power and communication lines between the new reservoir and the existing IPS. Earthwork quantities vary between the potential reservoir sites and will be further detailed in the planned project-level SEPA.

f. Could erosion occur because of clearing, construction, or use? If so, generally describe.

Erosion could occur during construction and clearing activities; however, construction best management practices (BMPs) will be included in the project design to reduce the chance for erosion, water quality impacts, and sedimentation resulting from construction activities.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

Some impervious surfaces, associated with roadways and existing facilities, are present in the existing site areas. The proposed improvements would construct a partially buried reclaimed water reservoir, potentially increasing impervious surfaces. The project-level SEPA will detail anticipated impervious surface percentages associated with the selected reservoir site.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any.

During construction, appropriate temporary erosion and sedimentation control (TESC) measures will be implemented to limit the potential for erosion resulting directly from construction activities (e.g., proper soil cover, dust control, inlet protection, sediment control, etc.). TESC measures will be included on the design plans to address erosion control planning for construction of the project. The finished project is not expected to result in erosion.

2. Air

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

Temporary exhaust and dust emissions from construction equipment and vehicles are anticipated during construction but would not be present post-construction.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No.

c. Proposed measures to reduce or control emissions or other impacts to air, if any.

Construction equipment and vehicles shall conform with Washington State standards for air quality, including using properly functioning equipment and vehicles that have passed emissions testing, using clean-burning fuels when possible, limiting diesel exhaust, limiting vehicle idling, etc.

3. Water

a. Surface Water:

1. Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Eagle Lake is an approximately 5-acre manmade waterbody surrounded by residential neighborhoods near the center of the Golf Course. Eagle Lake is a closed depression that is currently supplied by Class A reclaimed water from the City's WRF and has no natural outlet. Reclaimed water is stored and pumped from Eagle Lake via the IPS for land application of irrigation water at the Golf Course and throughout the City. Upon project completion, water allocated for the City's Class A distribution system will bypass Eagle Lake and be stored in the new reclaimed water reservoir.

Wetland and/or stream habitat may be present adjacent to some of the potential reservoir sites; however, site selection and subsequent design is needed to accurately determine project proximity and impacts to these features.

Water in the surrounding region generally drains to the Snoqualmie River, which flows to the northwest. Eagle Lake and drainage associated with the Golf Course do not flow into the Snoqualmie River; therefore, the Snoqualmie River will be unaffected by this proposal.

2. **Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.**

   Reservoir site selection and additional design is needed to determine proximity and/or impacts to streams or wetlands. It is anticipated that project design will occur in a manner that minimizes impacts to these critical areas.

   No impacts to Eagle Lake or the Snoqualmie River are anticipated for any of the potential reservoir sites during construction and upon project completion.

3. **Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.**

   None. The project will not involve fill or excavation within wetlands or waters of the state.

4. **Will the proposal require surface water withdrawals or diversions? Give a general description, purpose, and approximate quantities if known.**

   No.

5. **Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.**

   No Federal Emergency Management Agency mapped flood zones occur on or within proximity to the project sites.

6. **Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.**

   No.

b. Ground Water:

1. **Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the**

well. Will water be discharged to groundwater? Give a general description, purpose, and approximate quantities if known.

No.

2. **Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (domestic sewage; industrial, containing the following chemicals...; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.**

Not applicable.

c. Water Runoff (including stormwater):

1. **Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.**

Surface water in the area is currently and will remain intercepted and routed directly to existing stormwater infrastructure associated with residential neighborhoods, public roadways, and the Golf Course. The completed project will not impact the existing runoff patterns of the site.

2. **Could waste materials enter ground or surface waters? If so, generally describe.**

No.

3. **Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.**

No.

4. **Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any.**

BMPs will be implemented to avoid and minimize potential impacts to nearby areas during project construction. Project design will be completed to adhere to applicable local, state, and federal regulations that provide standards to reduce and control impacts to surface, ground, and storm waters and drainage patterns.

4. Plants

a. **Check the types of vegetation found on the site:**

- ☒ **deciduous tree: alder, maple, aspen, other**
- ☒ **evergreen tree: fir, cedar, pine, other**
- ☒ **shrubs**
- ☒ **grass**
- ☐ **pasture**
- ☐ **crop or grain**
- ☐ **orchards, vineyards, or other permanent crops.**
- ☐ **wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other**

☐ **water plants: water lily, eelgrass, milfoil, other**
☐ **other types of vegetation**

b. What kind and amount of vegetation will be removed or altered?

Varying amounts of common lawn grasses and/or disturbed weedy vegetation will be removed for construction of the proposed reclaimed water reservoir. The amount and type of vegetation to be removed is dependent on the selected reservoir site, and this will be further detailed in a project-level SEPA.

c. List threatened and endangered species known to be on or near the site.

Based on a review of U.S. Fish and Wildlife Service (USFWS) Endangered Species Act maps and data, Washington State Department of Natural Resources Natural Heritage Data, and Washington Department of Fish and Wildlife Priority Habitats and Species data, the potential reservoir sites and surrounding areas do not support threatened or endangered plant species.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any.

To be determined with subsequent project design and detailed in subsequent project-level SEPA.

e. List all noxious weeds and invasive species known to be on or near the site.

According to the King County iMap GIS database, tansy ragwort (*Senecio jacobaea*), a King County Class B noxious weed, was observed near the potential reservoir sites.

5. Animals

a. List any birds and other animals that have been observed on or near the site or are known to be on or near the site.

Examples include:

- **Birds: hawk, heron, eagle, songbirds, other:**
- **Mammals: deer, bear, elk, beaver, other:**
- **Fish: bass, salmon, trout, herring, shellfish, other:**

b. List any threatened and endangered species known to be on or near the site.

According to USFWS Information for Planning and Consultation database, gray wolf (*Canis lupus*), North American wolverine (*Gulo gulo luscus*), marbled murrelet (*Brachyramphus marmoratus*), yellow-billed cuckoo (*Coccyzus americanus*), bull trout (*Salvelinus confluentus*), and monarch butterfly (*Danaus plexippus*) may be present in the area. However, based on the developed nature of the site, suitable habitat for these species is not present on or in the immediate vicinity of the project site. No threatened or endangered species or their habitats are anticipated to be present on or near the site.

c. Is the site part of a migration route? If so, explain.

The project area is within the Pacific Flyway migration route; therefore, it may provide habitat for migratory bird species. USFWS data shows five migratory species recognized as Birds of Conservation Concern that may be found in the project area (e.g., evening grosbeak, olive-sided flycatcher, rufous hummingbird, etc.).

d. Proposed measures to preserve or enhance wildlife, if any.

None anticipated at this time.

e. List any invasive animal species known to be on or near the site.

None known.

6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Gasoline and oil will be used to fuel equipment for construction of the project. Electric energy will continue to be used to operate pumps for the IPS.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any.

None known at this time.

7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur because of this proposal? If so, describe.

No.

1. Describe any known or possible contamination at the site from present or past uses.

None known.

a. Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

None known.

b. Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

Industrial paint coatings may be applied to the reservoir surface. Appropriate environmental containment will be implemented during construction.

Construction of the project will utilize oil- and gas-fueled equipment and may require temporary fuel storage onsite. These uses do carry some risk of spill; however, the risk should be minimized with the implementation of spill control methodologies to be outlined in the project design and technical specifications in accordance with Washington State pollution control standards.

c. **Describe special emergency services that might be required.**

No special emergency services are anticipated.

d. **Proposed measures to reduce or control environmental health hazards, if any.**

No additional measures beyond those mentioned previously.

b. Noise

1. **What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?**

Traffic noise, associated with Eagle Lake Drive SE and other roadways, is present at the site but is not anticipated to impact the project.

2. **What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site)?**

Temporary construction noise will occur to install the proposed reclaimed water reservoir. The contractor will need to follow regulations set forth in Snoqualmie Municipal Code (SMC) 9.36.020, including controlling the level and timing of construction noise. The completed project will not produce noise disturbance above ambient levels at the site.

3. **Proposed measures to reduce or control noise impacts, if any.**

No additional measures beyond those mentioned previously.

8. Land and Shoreline Use

a. **What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.**

All potential reservoir sites are along the City's existing 10-inch reclaimed water Class A transmission main alignment. Land uses near the potential reservoir sites include public and private roadways, the BPA overhead power line corridor, and Golf Course operations. Additional design and project-level SEPA completion will further define land uses in proximity to the selected reservoir site, as well as potential impacts to current surrounding land uses.

b. **Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses because of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?**

No.

1. **Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how?**

   No.

c. **Describe any structures on the site.**

   Potential reservoir sites 1 and 2 contain few above-ground structures including BPA overhead power lines and associated power poles, buildings that house Golf Course facilities and equipment, and other miscellaneous structures. No above-ground structures are present at potential reservoir site 3.

d. **Will any structures be demolished? If so, what?**

   No.

e. **What is the current zoning classification of the site?**

   According to the City's Official Zoning Map 2016, the entire project is within the Mixed Use (MU) local zoning classification.

f. **What is the current comprehensive plan designation of the site?**

   The current comprehensive plan designation of the site is MU.

g. **If applicable, what is the current shoreline master program designation of the site?**

   Not applicable.

h. **Has any part of the site been classified as a critical area by the city or county? If so, specify.**

   Wetlands and/or streams could be present adjacent to select potential reservoir sites.

i. **Approximately how many people would reside or work in the completed project?**

   None.

j. **Approximately how many people would the completed project displace?**

   None.

k. **Proposed measures to avoid or reduce displacement impacts, if any.**

   None proposed.

l. **Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any.**

The proposed project is consistent with existing and projected land uses. With subsequent design, project land use approval, including review of consistency with existing and projected land uses, will be completed by the City's Community Development Department

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any.

None proposed.

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None.

c. Proposed measures to reduce or control housing impacts, if any.

Not applicable.

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

The proposed reclaimed water reservoir is anticipated to be approximately 24 feet tall, with up to 10 feet of the structure above grade. No other above-ground structures are proposed.

b. What views in the immediate vicinity would be altered or obstructed?

None.

c. Proposed measures to reduce or control aesthetic impacts, if any.

Following site selection, design of the selected reclaimed reservoir site will be conducted to minimize aesthetic impacts. Specific measures will be detailed in a project-level SEPA.

11. Light and Glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

None.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

No.

c. What existing off-site sources of light or glare may affect your proposal?

None.

d. Proposed measures to reduce or control light and glare impacts, if any.

None proposed.

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

Potential reservoir sites 1, 2, and 3 are located within the Golf Course.

Additionally, Snoqualmie Falls, a popular scenic attraction, is located approximately 1 mile northeast of Eagle Lake. Associated with the 270-foot waterfall is a 2-acre park, gift shop, observation deck, and the Salish Lodge.

b. Would the proposed project displace any existing recreational uses? If so, describe.

The project will not impact the continued use of existing recreational opportunities in proximity to the site.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any.

None proposed.

13. Historic and Cultural Preservation

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.

Approximately 1.25 miles to the east of the potential reservoir sites is the Snoqualmie Falls Hydroelectric Power Plant Historic District and the Snoqualmie Falls Cavity Generating Station, both listed on the National Register of Historic Places and the Washington Heritage Register. The proposed improvements will not affect either of these historic places.

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

None known. According to the Washington State Department of Archaeology and Historic Preservation's (DAHP) Washington Information System for Architectural and Archeological Records Data (WISAARD) predictive model database, the proposed reservoir project sites are within an area with moderately low risk of containing as-yet unidentified archaeological sites. However, construction in the project footprint will occur primarily in previously disturbed areas associated with the Golf Course, so the probability of inadvertent discovery is anticipated to be minimal. A Cultural Resources Assessment will be prepared and reviewed as part of the project.

c. **Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.**

It is anticipated a professional cultural resources consultant will conduct a background review, contact DAHP and area Tribes, conduct field investigations, and prepare a report, as necessary, to identify archaeological and historic evidence in the selected reclaimed water reservoir project location and evaluate the potential for the project to affect cultural resources.

d. **Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.**

Specific cultural resources review and minimization measures will be detailed in a subsequent project-level SEPA.

14. Transportation

a. **Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.**

The potential reservoir sites can be accessed via Snoqualmie Parkway. All potential reservoir sites are serviced by SR 202 and Interstate 90.

b. **Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?**

The nearest transit stop to the project is located at Ridge Street and Fairway Avenue, located approximately 1/4 mile from the site.

c. **Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle, or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).**

None proposed.

d. **Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.**

No.

e. **How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?**

None.

f. **Will the proposal interfere with, affect, or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.**

No.

g. Proposed measures to reduce or control transportation impacts, if any.

None proposed.

15. Public Services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

No.

b. Proposed measures to reduce or control direct impacts on public services, if any.

Not applicable.

16. Utilities

a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other:

b. **Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.**

Proposed utilities to be installed at the selected reclaimed water reservoir site include a Class A reclaimed water reservoir, pipeline, and power and communication lines.

C. Signature

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

X Andrew Vining (Oct 9, 2023 09:02 PDT)

SEPA Responsible Offical

Type name of signee: Andrew Vining, PE

Position and agency/organization: Project Engineer/City of Snoqualmie

Date submitted: 10/9/2023

Redline comments reflect updates to the checklist based on public comments received on Monday November 27th, 2023.

D. Supplemental sheet for nonproject actions

IT IS NOT REQUIRED to use this section for project actions.

Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.

When answering these questions, be aware of the extent the proposal, or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.

1. **How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise?**

   This proposal would not directly increase discharges to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise. The site selection alternatives outlined in the Engineering Report will divert reclaimed water currently conveyed to Eagle Lake to a new closed reservoir for separate storage and City Class A reclaimed water use, thereby preventing comingling of City irrigation water with other sources and reducing the amount of reclaimed water discharged to Eagle Lake in the long-term.

   - **Proposed measures to avoid or reduce such increases are:**

   The proposed Engineering Report and subsequent reclaimed water system improvements will bring the City's reclaimed water system into compliance with the requirements of its current NPDES Permit. The changes are prompted by the 2018 modifications to the Reclaimed Water Rule, Chapter 174-219 WAC. Improvements and preliminary design described in the Engineering Report shall be compliant with local, state, and federal laws governing discharge to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise.

2. **How would the proposal be likely to affect plants, animals, fish, or marine life?**

   The Engineering Report and reclaimed reservoir site selection alternatives have been developed with consideration for avoidance and minimization of impacts to plants, animals, fish, and marine life. Site selection alternatives are in areas of previous disturbance, including the Golf Course, roadways, improved roadside shoulder areas, and along the alignment of the existing Class A reclaimed water transmission main and other utilities. Since the sites are entirely in previously disturbed areas, which coincide with areas providing low habitat value, impacts to plants, fish, and other wildlife are anticipated to be minimal.

   - **Proposed measures to protect or conserve plants, animals, fish, or marine life are:**

   No additional measures, as it pertains to the Engineering Report and preliminary design information, are proposed to protect, or conserve plants, fish, and other wildlife currently. After the preferred site alternative has been selected, and during design, the City will evaluate potential impacts to plants, animals, fish, or marine life. These proposed Class A reclaimed water improvements will be designed in accordance with City critical areas regulations and state and federal laws governing the protection of natural resources and fish and wildlife. The City will prepare a project-level SEPA,

once the reservoir site is selected and subsequent design is complete, that will include a further review of potential vegetation and wildlife impacts.

3. **How would the proposal be likely to deplete energy or natural resources?**

   Findings from the Engineering Report indicate that no impacts to energy or natural resources are anticipated for any of the potential reservoir sites. The proposed alternatives utilize existing pumps for irrigation water; therefore, no additional permanent energy needs are anticipated.

   - **Proposed measures to protect or conserve energy and natural resources are:**

   None proposed.

4. **How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection, such as parks, wilderness, wild and scenic rivers, threatened or endangered species habitat, historic or cultural sites, wetlands, floodplains, or prime farmlands?**

   The site selection alternatives identified in the Engineering Report avoid and minimize, to the maximum extent possible, impacts on environmentally sensitive areas or areas designated for governmental protection. Impacts to wetlands and/or wetland buffers and areas containing cultural resources are possible, dependent on the site alternative selected; however, the City anticipates preparation of a project-level SEPA, once subsequent design is complete, that will include a further review of potentially impacted environmentally sensitive areas or areas designated for governmental protection.

   - **Proposed measures to protect such resources or to avoid or reduce impacts are:**

   Specific critical areas and cultural resources review and minimization measures will be detailed in a subsequent project-level SEPA. No additional measures to avoid or reduce impacts to environmentally sensitive areas or areas designated for governmental protection are proposed currently.

5. **How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans?**

   The improvements provided in the Engineering Report are compatible with existing land use plans, including the *Snoqualmie Comprehensive Plan 2032*, Snoqualmie Ridge II Development Standards, and the *Snoqualmie Ridge Class "A" Water System and Irrigation Plan*. Improvements will not impact land or shoreline use in the region.

   - **Proposed measures to avoid or reduce shoreline and land use impacts are:**

   The proposed Engineering Report and reclaimed water system improvements would continue to allow all permissible land and shoreline uses in the Mixed Use zone of the City. No additional measures to avoid or reduce shoreline and land use impacts are proposed.

6. **How would the proposal be likely to increase demands on transportation or public services and utilities?**

   The proposal is not likely to increase demands on transportation or public services and utilities. The existing City irrigation system is a non-expanding reclaimed water system

and the proposed improvements described in the Engineering Report would only serve to separate the City's reclaimed water storage from the Golf Course supply.

- **Proposed measures to reduce or respond to such demand(s) are:**

No measures to reduce or respond to such demands are proposed currently. In the event that the City experiences an increase in service area or number of customers that receive reclaimed water, improvements or expansion of the reclaimed water system would be covered in future SEPA review, as needed.

7. **Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment.**

The proposed Engineering Report and subsequent improvements are being developed to comply with state requirements for protection of the environment, including Chapter 173-219 WAC. Through the City's NPDES Permit, Ecology is requiring the reclaimed water system to be modified to "... not allow contamination of reclaimed water by lower quality water, such as urban stormwater runoff." The proposed Engineering Report analyzes alternatives and proposes reclaimed water system improvements to fulfill NPDES Permit requirements. No conflict with any other local, state, or federal laws or requirements are anticipated because of this proposal.

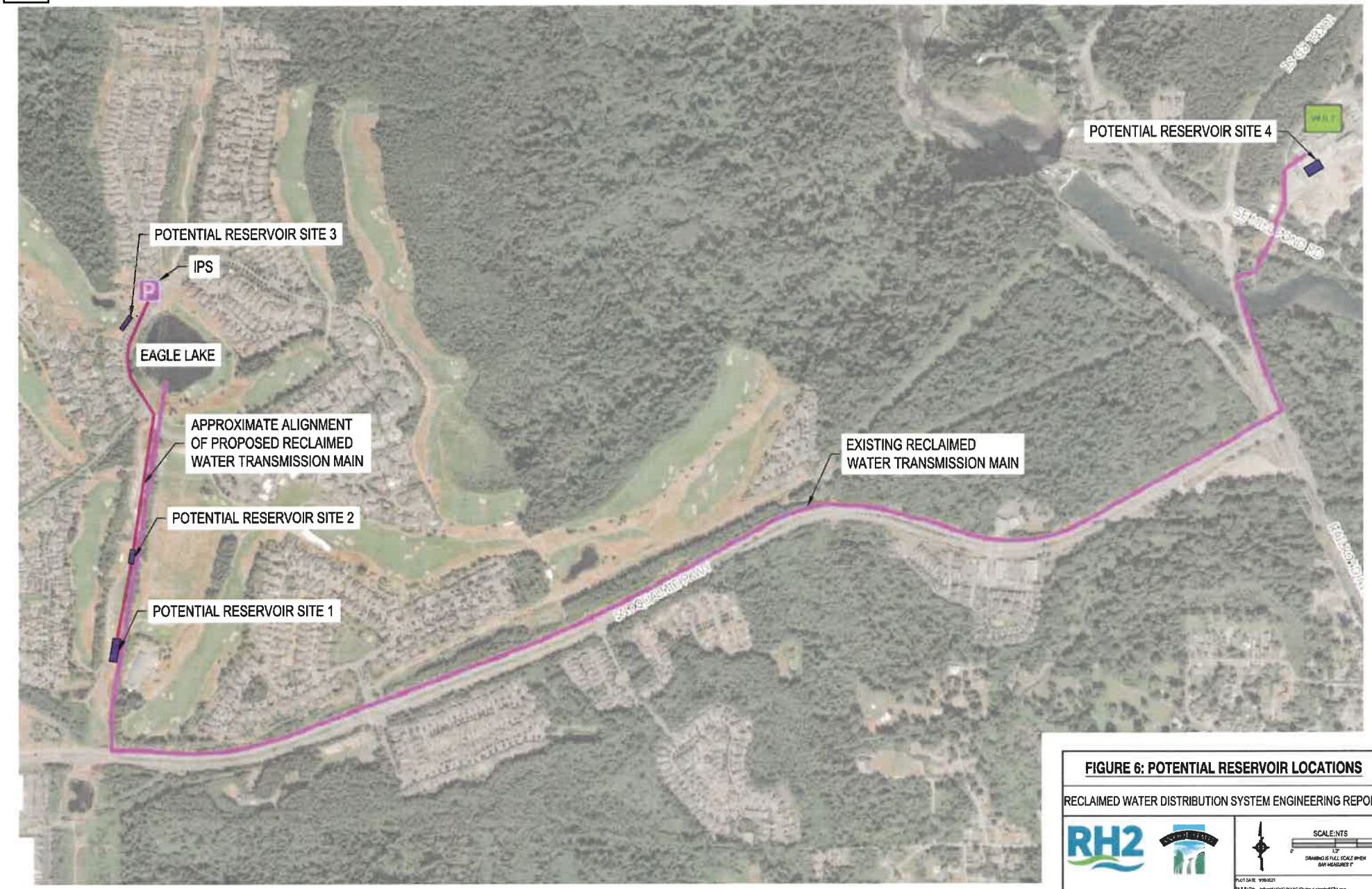

FIGURE 6: POTENTIAL RESERVOIR LOCATIONS

RECLAIMED WATER DISTRIBUTION SYSTEM ENGINEERING REPORT

SNQ_Reclaimed Water Reservoir_SEPA Checklist 10092023

Final Audit Report 2023-10-09

Created:	2023-10-09
By:	Andrew Vining (AVining@snoqualmiewa.gov)
Status:	Signed
Transaction ID:	CBJCHBCAABAA6nvdFyxNJbuIvvDeqsKjPRv6UJFD_eb0

"SNQ_Reclaimed Water Reservoir_SEPA Checklist 10092023" History

Document created by Andrew Vining (AVining@snoqualmiewa.gov)
2023-10-09 - 4:01:15 PM GMT

Document emailed to Andrew Vining (AVining@snoqualmiewa.gov) for signature
2023-10-09 - 4:01:50 PM GMT

Document e-signed by Andrew Vining (AVining@snoqualmiewa.gov)
Signature Date: 2023-10-09 - 4:02:24 PM GMT - Time Source: server

Agreement completed.
2023-10-09 - 4:02:24 PM GMT

Appendix B
DNS Letter

COMMUNITY DEVELOPMENT DEPARTMENT

38624 SE River Street
PO Box 987
Snoqualmie, WA 98065

Office: 425-888-5337
Fax: 425-831-6041

www.snoqualmiewa.gov

DETERMINATION OF NONSIGNIFICANCE (DNS)

Project Name:	Reclaim Water Reservoir
File Number:	SEPA2023-0005
Issuance Date:	November 22, 2023
Publication Date:	November 22, 2022
Proponent:	City of Snoqualmie, Parks and Public Works Department P.O. Box 987 Snoqualmie, WA 98065
Description of Proposal:	The City of Snoqualmie is considering various sites for the construction of a closed reservoir and a new reclaimed water pipeline to store and separate reclaimed water generated by the WRF from Eagle Lake.
Project Location:	Potential reservoir sites under consideration include parcels numbers 2524079001, 2624079045 and 3024089079.
Lead Agency:	City of Snoqualmie
Existing Environmental Documents:	Reclaimed Water Distribution System Engineering Report by RH2, dated October 2023, SEPA Checklist dated, October 9, 2023.
Threshold Determination:	The City of Snoqualmie has determined the proposal does not have a probable significant adverse impact on the environment. An environmental impact statement (EIS) is not required under RCW 43.21C.030(2)(c). This decision is made after review of a completed environmental checklist and other information on file with the city. This information is available to the public on request, email: communitydevelopment@snoqualmiewa.gov, phone: 425-888-5337. This DNS is issued under WAC 197-11-340(2); the lead agency will not act on this proposal for 14 days after the date of issuance. Legal notice is provided pursuant to RCW 43.21C.080.
Responsible Official:	Emily Arteche, AICP, Community Development Director, 38624 SE River Street PO Box 987 Snoqualmie, WA 98065, PH: 425-888-5337.
Public Comment:	Comments on the DNS may be submitted until December 5, 2023, by 5:00 PM via e-mail: communitydevelopment@snoqualmiewa.gov or mail: City of Snoqualmie, Community Development Department, PO Box 987 Snoqualmie, WA 98065. Please include File Number: SEPA 2023-0005 in the comment. The city will not take final action on this proposal until after the end of the comment period. The issuance of this DNS should not be interpreted as acceptance or approval of this proposal as presented. The City of Snoqualmie (City) reserves the right to deny or approve said proposal subject to conditions if it is determined to be in the best interest of the City and/or necessary for the general health, safety, and welfare of the public.
APPEAL:	This DNS may be appealed, pursuant to WAC 197-11-680.

SIGNATURE: Emily Antocha **DATE:** November 22, 2023

City of Snoqualmie Reclaimed Water System Improvements		Cost
Task 1 - Grant and Loan Administration	**$**	**250,000**
Loan Administration	$	250,000
Task 2 - Project Management	**$**	**52,000**
Invoices, Agency Coordination, and Project Summaries	$	52,000
Task 3 - City Administration	**$**	**550,000**
City Administration During Design and Permitting	$	150,000
City Administration During Construction	$	400,000
Task 4 - Design	**$**	**681,000**
Survey Project Area	$	62,000
Geotechnical Investigation	$	35,000
Hydraulic Analysis	$	60,000
Design Criteria Checklist	$	10,000
30-percent Construction Plans	$	100,000
Opinion of Probable Construction Cost	$	30,000
Structural Calculations	$	50,000
60-percent Design Documents	$	134,000
90-percent Design Documents	$	134,000
Bid Ready Documents	$	66,000
Task 7 - Permitting	**$**	**60,500**
City Permits	$	25,000
SERP Checklist	$	25,500
BPA Coordination	$	10,000
Task 8 - Services During Bidding	**$**	**29,500**
Pre-Bid Walkthrough, Addendum, Bid Tabulation	$	29,500
Task 9 -Engineering Services During Construction	**$**	**636,000**
Engineering Services During Construction	$	636,000
TOTAL INDIRECT COSTS	**$**	**2,259,000**
Task 10 - Construction	**$**	**6,392,000**
Mobilization, Demobilization, Site Prep, and Cleanup (10%)	$	459,000
Excavation Safety and Shoring	$	36,000
Temporary Erosion and Sedimentation Control (TESC)	$	30,000
Site Work	$	673,000
Site Utilities	$	565,000
Unscheduled Excavation	$	21,000
Unscheduled Structural Backfill	$	11,000
Structural - Reservoir	$	1,313,000
Structural - Irrigation Pump Station	$	637,000
Mechanical - Reservoir	$	169,000
Mechanical - Irrigaiton Pump Station	$	465,000
Electrical	$	384,000
Telemetry and Automatic Control	$	143,500
As-builts, Construction Records, and O&M Manuals	$	10,000
Testing, Startup and Training	$	30,000
Minor Change	$	100,000
Existing Irrigation Pump Station Mechanical and Electrical Demolition	$	50,000
Construction Contingency	$	767,000
Sales Tax (9.0%)	$	528,000
PROJECT TOTAL	**$**	**8,651,000**

SEWER CAPITAL PROJECT OR PROGRAM

EAGLE LAKE WATER RECLAMATION BASIN IMPROVEMENT PROJECT

CIP Project ID:	TBD	**Previously Spent:**	**$0**
Department:	Sewer	**Current Project Budget:**	**$3,332,000**
Project Status:	Pre-Design	**Original Budget at CIP Inception:**	**$0**
Project Location:	Eagle Lake	**Years Project in CIP:**	0
Project Contact:	Jeff Hamlin	**Contact Email:**	jhamlin@snoqualmiewa.gov

Project Description:

This project will address Department of Ecology regulatory changes for managing reclaimed water. A planning effort will be coordinated with Department of Ecology to determine a reasonable solution, followed by design and construction of a facility to store or treat the irrigation water prior to use.

Photo or Map:

Community Impact:

Because of the unique characteristics of Snoqualmie's Reclaimed Water System, the Department of Ecology's recently adopted "Reclaimed Water Rule" is difficult to apply. Reasonable solutions may include a reclaimed water reservoir near Eagle Lake or a chlorination system for irrigation water used in public spaces.

Operating Impact:

This project is not expected to impact the operating budget.

Budget:

Project Activities	*% of Budg.*	*Total Activity Budget*	*Previously Spent*	*2023*	*2024*	*2025*	*2026*	*2027*	*2028*	*2029 or Beyond*
Analysis	0%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Design	9%	$ 307,083	$ -	$ 101,449	$ 205,634	$ -	$ -	$ -	$ -	$ -
Construction	61%	$ 2,034,151	$ -	$ -	$ -	$ 1,240,161	$ 793,989	$ -	$ -	$ -
Const. Manage	9%	$ 305,123	$ -	$ -	$ -	$ 186,024	$ 119,098	$ -	$ -	$ -
Contingency	12%	$ 406,830	$ -	$ -	$ -	$ 248,032	$ 158,798	$ -	$ -	$ -
Art	0%	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Labor	5%	$ 177,106	$ -	$ 4,551	$ 9,366	$ 91,774	$ 71,415	$ -	$ -	$ -
Other	3%	$ 101,708	$ -	$ -	$ -	$ 62,008	$ 39,699	$ -	$ -	$ -
TOTAL	100%	$ 3,332,000	$ -	$ 106,000	$ 215,000	$ 1,828,000	$ 1,183,000	$ -	$ -	$ -
Operating		$ -		$ -	$ -	$ -	$ -	$ -	$ -	$ -

TOTAL PROJECT BUDGET: **$3,332,000**

TOTAL OPERATING BUDGET: **$0**

Anticipated Funding Mix:

Source	*Total Sources*	*Previously Allocated*	*2023*	*2024*	*2025*	*2026*	*2027*	*2028*
Utility Fees ("Rates")	$ 3,332,000	$ -	$ 106,000	$ 215,000	$ 1,828,000	$ 1,183,000	$ -	$ -
TOTAL	$ 3,332,000	$ -	$ 106,000	$ 215,000	$ 1,828,000	$ 1,183,000	$ -	$ -

TOTAL FUNDING SOURCES: **$3,332,000**

FUTURE FUNDING REQUIREMENTS: **$0**

Fiscal Notes: