



Roseburg Urban Sanitary Authority
1297 N.E. Grandview Drive
Roseburg, OR 97470

REGULAR MONTHLY BOARD MEETING
March 11, 2026

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ROSEBURG URBAN SANITARY AUTHORITY AGENDA – March 11th, 2026

Board Room, Administrative Offices

1297 NE Grandview Dr., Roseburg, Oregon 97470

[Public Online Access](#)

AGENDA – 4:00 pm Regular Meeting

1. Call to Order – Vice-Chair Lieberman
2. Roll Call
 - Rob Lieberman Tom Dole
 - Kelsey Wood Mike Baker
3. Audience Participation – In-Person / via Zoom®
 - a. On agenda items
4. Consider Minutes
 - a. February 11th, 2026, Regular Board Meeting
5. Board Appointment to Open Board Seat
6. Wastewater Collection System Master Plan Amendment
7. Check Signer
8. General Managers Report
 - a. South Umpqua Trunk South Bank Repair – Project No. 25002
 - i. Project Update
 - b. WWTP Solar – Project No. 24011
 - i. Project Update
 - c. Admin Office Solar – Project No. 24012
 - i. Project Update
 - d. NTS Solar – Project No. 25001
 - i. Project Update
 - e. South Umpqua River TMDL for Temperature
 - f. Emergency declaration
 - i. Walmart MH Repair – Project No. 25006
 - ii. Sleepy Hollow Creek Main Repair (Highland Stabilization) - Project No. 25005
 - g. Goedeck Trunk Rehabilitation – Project No. 25004
 - i. Project Update
 - h. WRF SCADA Roadmap Assessment – Project No. 26001
9. New Developments
10. Staff Report
11. Plant Operations Report – Jacobs
12. Accounts Payable
13. Other Business
14. Audience Participation – In-Person / via Zoom®
 - a. Off agenda items
15. Adjourn

AMERICANS WITH DISABILITIES ACT NOTICE

Please contact the Authority’s Finance Department, 1297 NE Grandview Dr., Roseburg, OR 97470 or by phone (541)672-1551 at least 48 hours prior to the scheduled meeting time if you need accommodation.

**ROSEBURG URBAN SANITARY AUTHORITY
MEETING OF THE BOARD OF DIRECTORS
MINUTES**

Board Vice-Chair Rob Lieberman, called the regular monthly Board Meeting to order at 4:01 p.m. on February 11, 2026. The Board Meeting was held in-person and remotely broadcast by Zoom® Meeting.

ROLL CALL

Directors

Present: Board Vice-Chair Rob Lieberman, Kelsey Wood, Tom Dole & Mike Baker

Absent:

Others present: General Manager Jim Baird, Finance Director Christine Morris, Accounting Specialist Angie Allen, Collection Superintendent Steve Lusch, Engineering & Operations Manager Ryon Kershner and Jacobs Project Manager Dan Prather

Consideration of the January 14, 2026 Board Meeting Minutes

Kelsey Wood moved to approve the minutes for the January 14, 2026 Roseburg Urban Sanitary Authority Monthly Board Meeting.
Mike Baker seconded the motion.

Vice-Chair Rob Lieberman requested Roll Call for the motion to approve the January 14, 2026 Board Meeting Minutes.

Vote By Roll Call

Rob Lieberman	Yes
Tom Dole	
Kelsey Wood	Yes
Mike Baker	Yes

The motion was passed with a 3/0 vote

Passing of Board Chair John Dunn

Board Chair John Dunn passed away last week.

Jim read a nice tribute about John.

Kelsey Wood made a motion to approve a Notice of Appreciation for John to be posted on the website based on the tribute that Jim read.

Mike Baker seconded the motion.

Vice-Chair Rob Lieberman requested Roll Call for the motion to post a Notice of Appreciation for John Dunn on the Roseburg Urban Sanitary Authority website:

Vote By Roll Call

Rob Lieberman	Yes
Tom Dole	Yes
Kelsey Wood	Yes
Mike Baker	Yes

The motion was passed with a 4/0 vote

Budget Recommendations

Budget Calendar

Staff presented the proposed Budget Calendar for the 2026-2027 Budget.

Kelsey Wood moved to approve the proposed Budget Calendar for the 2026-2027 Budget. Mike Baker seconded the motion.

Vice-Chair Rob Lieberman requested Roll Call for the motion to approve the Budget Calendar for 2026-2027:

Vote By Roll Call

Rob Lieberman	Yes
Tom Dole	Yes
Kelsey Wood	Yes
Mike Baker	Yes

The motion was passed with a 4/0 vote

Rates

Jim presented a recommendation for a regular rate increase for the upcoming budget of \$3.00 or 5.8% of the current rate of \$52.00 per equivalent dwelling unit (EDU).

The Board had a lengthy discussion of what the upcoming projects are, where the funds would be used, future planning of projects, repairs and upgrades to the Water Reclamation Facility (WRF).

There was additional discussion regarding a new Master Plan being included in the next budget year along with an updated CIP for additional planning.

Additionally, there was concern regarding a rate increase at this time based on the economy and upcoming additional taxes to Oregonians.

Due to the number of projects, repairs, upgrades and permitting requirements, there was a feeling by the Board that a rate increase should not be delayed.

Kelsey Wood made a motion to Propose a Rate Increase to \$60.00 per EDU to the Budget Committee.

Rob Lieberman seconded the motion.

Vice-Chair Rob Lieberman requested Roll Call for the motion to Propose a Rate Increase to \$60.00 per EDU to the Budget Committee:

Vote By Roll Call

Rob Lieberman	Yes
Tom Dole	No
Kelsey Wood	Yes
Mike Baker	Yes

The motion was passed with a 3/1 vote

Staffing

Jim presented a request to hire an IT Specialist because the IT Department currently has only one staff member, Dave Fromdahl. The IT Department does not have a framework to train and replace the IT System Administrator in place. An IT Specialist would allow Dave to train someone to assist him with the day to day needs of the office so that he can continue to keep up on the always changing demands of the IT Department.

Tom Dole made a motion to add an IT Specialist to the Budget for 2026-2027.

Mike Baker seconded the motion.

Vice-Chair Rob Lieberman requested Roll Call for the motion to approve adding an IT Specialist to the Budget for 2026-2027:

Vote By Roll Call

Rob Lieberman	Yes
Tom Dole	Yes
Kelsey Wood	Yes
Mike Baker	Yes

The motion was passed with a 4/0 vote

Budget Officer

Staff recommended that Jim Baird, General Manager, be appointed as the Budget Officer for the 2026-2027 Budget preparation.

Kelsey Wood made a motion to appoint Jim Baird the Budget Officer for the 2026-2027 Budget preparation.

Tom Dole seconded the motion.

Vice-Chair Rob Lieberman requested Roll Call for the motion to appoint Jim Baird the Budget Officer for 2026-2027:

Vote By Roll Call

Rob Lieberman	Yes
Tom Dole	Yes
Kelsey Wood	Yes
Mike Baker	Yes

The motion was passed with a 4/0 vote

Check Signer Practice

At times there has been difficulty getting checks signed by two signers. A discussion took place with the auditors to confirm if this was needed for controls. A review of the policies to see if two signers was a policy was also completed. It was determined that two signers are not necessary due to the additional controls that we have in place and there isn't a policy requiring two signers.

Tom Dole made a motion to approve One Signer on Checks from the approved list of signers. Kelsey Wood seconded the motion.

Vote By Roll Call

Rob Lieberman	Yes
Tom Dole	Yes
Kelsey Wood	Yes
Mike Baker	Yes

The motion was passed with a 4/0 vote

General Managers Report

South Umpqua Trunk South Bank Repair – Project No. 25002

Staff have completed all the required reimbursement documentation. The project has been approved, and we are waiting for the reimbursement check. The total FEMA reimbursement will be \$671,587.89

WWTP Solar – Project No. 24011

Ameresco has contracted with an archaeologist to submit the permit and complete the site investigation to meet the requirements of the State Historic Preservation Office (SHPO). We are working with Pacific Power to complete the inter-connection agreement. Ameresco has submitted the 60% plans to DEQ for review and comment.

Admin. Office Solar – Project No. 24012

The subcontractor has completed most of the solar system and commissioned the system. The system is currently generating power, offsetting a portion of our electricity usage. The battery is not scheduled to be delivered until April. The subcontractor will return after the battery is delivered to complete the installation.

NTS Solar -Project No. 25001

Ameresco has completed 30% plans. Ameresco has submitted the inter-connect agreement to Pacific Power.

Umpqua River Basin TMDL for Temperature

The DEQ has appointed Jim to the Rule Advisory Committee (RAC) for the Water Quality Plan to implement the Umpqua River Basin Temperature TMDL replacement. The public process and meetings with the RAC are anticipated to begin February 18th, 2026. We are working with West Yost to represent RUSA at the RAC meetings.

Emergency Declaration

Walmart MH Repair – Project No. 25006

Dyer Partnership is working through the permit process to repair the manhole. The engineer is working on a no rise certification for the proposed work to meet the City of Roseburg requirements.

Sleepy Hollow Creek Main repair – Project No. 25005

Dyer Partnership is working through the permit process to repair the 15-inch sewer main crossing Sleepy Hollow Creek.

Goedeck Trunk Rehabilitation - Project No. 25004

Leeway Engineering Solutions has completed 50% plans. Staff have reviewed and made comments on the plans. The plans have been sent to Jacobs Engineering for review.

WRF SCADA Road Map Assessment – Project 26001

The Request for Proposals (RFP) is currently out for proposals. The deadline for submitting a proposal is March 12th. A mandatory pre-proposal meeting was held on February 10th. All engineering firms must have attended the meeting to have their proposal considered.

There are several options out there and this will allow us to explore those options along with pricing to determine the best course of action.

Jacobs Plant Operations Report

Dan Prather advised that the treatment facility averaged 95% BOD removal and 95% Total Suspended Solids removal during January. The total Effluent flow was 132.05 million gallons, all of which went to the river at Outfall 001.

Accounts Payable

The Board reviewed the Accounts Payable Report and Addendum for the February 2026 Accounts Payable.

Kelsey Wood made a motion to approve the Accounts Payable Report and Addendum as presented. Mike Baker seconded the motion.

Vote By Roll Call

Vice-Chair Rob Lieberman requested Roll Call for the motion to approve Accounts Payable and the Addendum as presented:

Rob Lieberman	Yes
Tom Dole	Yes
Kelsey Wood	Yes
Mike Baker	Yes

The motion was passed with a 4/0 vote.

Other Business

Christine will present the January meeting minutes to Banner Bank to make the changes to the signers as discussed at the January meeting, Rob Lieberman and David Campos are to be removed as signatories. Kelsey Wood, Tom Dole and Mike Baker are to be added as signatories. John Dunn will now be removed due to his passing.

A new Board Chair needs to be appointed. There was a short discussion.

Vice-Chair Rob Lieberman moved to Appoint Kelsey Wood as the new Board Chair. Tom Dole seconded the motion.

Vote By Roll Call

Vice-Chair Rob Lieberman requested Roll Call for the motion to approve Accounts Payable and the Addendum as presented:

Rob Lieberman	Yes
Tom Dole	Yes
Kelsey Wood	Yes
Mike Baker	Yes

The motion was passed with a 4/0 vote

There is a need for a new Board Member as well as a new Budget Committee Member. There was a short discussion regarding some potential candidates for those positions.

Meeting was adjourned at 5:44 pm.

Attached Additional Items Presented

Revised Agenda
Revised Budget Recommendation Memo
Accounts Payable Addendum

Respectfully submitted,

Angie Allen

Angie Allen
Accounting Specialist

ROSEBURG URBAN SANITARY AUTHORITY AGENDA – February 11th, 2026

Board Room, Administrative Offices

1297 NE Grandview Dr., Roseburg, Oregon 97470

[Public Online Access](#)

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1. Call to Order – Vice-Chair Lieberman
2. Roll Call
 - Rob Lieberman Tom Dole
 - Kelsey Wood Mike Baker
3. Audience Participation – In-Person / via Zoom®
4. Consider Minutes
5. Budget Recommendations
 - a. Budget Calendar
 - b. Rates
 - c. Staffing
6. Wastewater Collection System Master Plan Amendment
7. Check signer practice
8. General Managers Report
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14. Adjourn

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INTEROFFICE MEMORANDUM

TO: BOARD OF DIRECTORS
FROM: JIM BAIRD, GENERAL MANAGER
SUBJECT: BUDGET RECOMMENDATIONS
DATE: 02/09/26
CC:

Budget Calendar –

The staff has developed the draft 2026-2027 Budget Process Calendar. The process is anticipated to begin today February 11th and end on July 15th with the adoption of the Appropriation Resolution. Staff would ask that the Board review the budget calendar. Staff would recommend that the Board adopt the budget calendar if there are no changes.

Rates –

The average inflationary rate for 2025 was 2.5%. Applied to the current rate of \$52.00 would be \$53.30 to keep pace with inflation. Staff would recommend that the Board increase the regular rate per equivalent dwelling unit (EDU) to \$55.00, a 5.8% increase.

Staffing –

I have been evaluating all the departments to develop a succession plan for the organization. The Information Technology department is the one department that does not have a framework to train and replace the Information Technology System Administrator. The department also does not have any support should Dave Fromdahl be away for any extended time.

Dave Fromdahl moved into the position as the lead IT specialist in 2002 and RUSA had six (6) computers and one (1) server. Today RUSA has 28 computers and 10 servers in two locations. We maintain LAN, VPN, Cloud services, mobile applications, GIS, Asset management software, Finance management software, Mapping software, GPS software and 365 Microsoft. We maintain and manage two (2) cyber security vendors that provide hardware and software solutions.

It is my recommendation that we increase staffing in the IT department by one (1) and hire an IT specialist. This will allow Dave to delegate tasks to the new employee to reduce the overall workload carried by Dave and build redundancy in our computer and software support. Based on a quick review of similar positions in Roseburg, a salary of approximately \$78,828 could be expected with a budget impact of approximately \$139,000 to include benefits.

Appointment of a Budget Officer -

Annually the Board must appoint a budget officer (as per. ORS 294.331). The budget officer shall prepare or supervise the preparation of the budget document. The budget officer shall act under the direction of the RUSA Board.

Historically the Board has appointed the general manager as the budget officer.

Staff would recommend that the Board appoint Jim Baird, RUSA General Manager, as the budget officer for the 2026-2027 Budget preparation.

Addendum to February 11, 2026 Board Packet

Accounts Payable

Checks by Date - Detail by Check Date

User: christine
 Printed: 2/11/2026 3:00 PM



Check No	Vendor No Invoice No	Vendor Name Description	Check Date Reference	Check Amount
ACH	Express 33512807	Express Services, Inc. Student Intern - W. Kinderecht	02/11/2026	208.72
Total for this ACH Check for Vendor Express:				208.72
53227	KERSHNER Feb 2026 - SDAO	Ryon Kershner Mileage reimbursement for SDAO Conference tr	02/11/2026	360.18
Total for Check Number 53227:				360.18
53228	CMM Feb 2026 - SDAO	Christine Morris Mileage reimbursement for travel to SDAO Con:	02/11/2026	360.18
Total for Check Number 53228:				360.18
53229	UB*00100	JOHN RAYNOR Refund Check 006916-002, 1436 SE PINE	02/11/2026	156.00
Total for Check Number 53229:				156.00
Total for 2/11/2026:				1,085.08
Report Total (4 checks):				1,085.08

TECHNICAL MEMORANDUM

Prepared for: Ryon Kershner, PLS
Roseburg Urban Sanitary Authority

Project: Master Plan Amendment

Author: Rylee Archuleta, PE
Yogerej Visvanathan
Leeway Engineering Solutions

Reviewer: Rob Lee, PE, PMP
Leeway Engineering Solutions

Date: February 20, 2026

Subject: RUSA CSMP Amendment - Customer Categories

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APPENDICES

Appendix A - Charter Oaks Conveyance Options Technical Memorandum (January 2026)

I INTRODUCTION

The Roseburg Urban Sanitary Authority (RUSA) provides sanitary sewer collection and treatment services for the City of Roseburg and surrounding areas. The Charter Oaks Plan Area (Charter Oaks) is an unsewered area outside of the current urban growth boundary (UGB) located between the western boundary of Roseburg and the north bank of the Umpqua River, opposite the existing wastewater treatment plant (WWTP). Based on the UGB Exchange Proposal: Staff Report and Findings (City of Roseburg, 2024), RUSA is evaluating incorporating Charter Oaks into the UGB in exchange for existing areas that will be removed from the current UGB.

The purpose of this TM is to define the four customer categories being served by this recommended CIP and to provide the number of equivalent dwelling units (EDU) per category so that RUSA can determine the allocation of funding based on the EDU breakdown between categories.

2 BACKGROUND

RUSA retained Leeway to develop a Capital Improvement Plan (CIP) for providing sewer service within the Charter Oaks area and connecting the area to RUSA's existing collection system. The recommended CIP will be documented in an amendment to RUSA's Wastewater Collection System Master Plan (CSMP), published in 2004 by CH2M Hill.

In addition to looking at how to provide wastewater service to the Charter Oaks Plan Area, RUSA tasked Leeway with evaluating the feasibility of routing the existing Loma Vista Pump Station (PS) basin flows through the Charter Oaks area. The Loma Vista flows are currently pumped east where they eventually cross the Umpqua River via the Stewart Park Siphon and then are conveyed through the 42-inch gravity Goedeck Trunk to the WWTP. Both the Stewart Park Siphon and the Goedeck Trunk have capacity limitations (particularly during peak wet-weather events) and redirecting Loma Vista's flows to the Charter Oaks Plan Area would relieve these stressed assets. Another driver for rerouting Loma Vista flows is that the Loma Vista PS is approaching the end of its service life and will need to be upgraded and rebuilt in the near future. The Charter Oaks and Loma Vista areas relative to the WWTP are shown below in Figure 2-1.

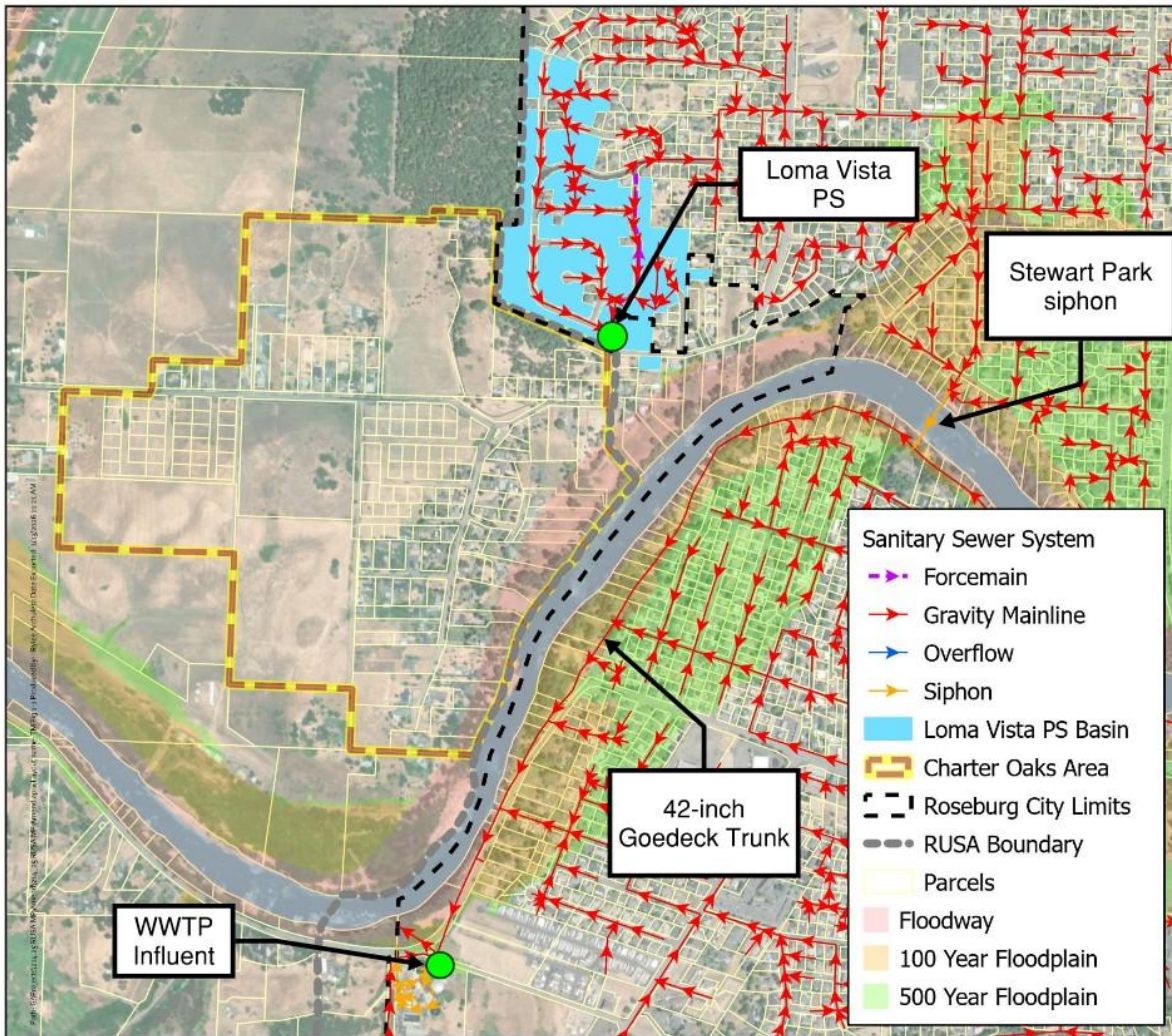


Figure 2-1. Overview of Charter Oaks, Loma Vista, and WWTP

2.1 RECOMMENDED CIP

Following Leeway’s development of multiple CIP options and a workshop with RUSA, a recommended CIP was chosen to sewer the Charter Oaks area and reroute flows from the Loma Vista Pump Station basin. The recommended sewer conveyance layout to sewer Charter Oaks is shown in Figure 2-2 and the recommended river crossing to bring Charter Oaks flows to the WWTP is shown in Figure 2-3.



Figure 2-2. Alternative 4 Overview

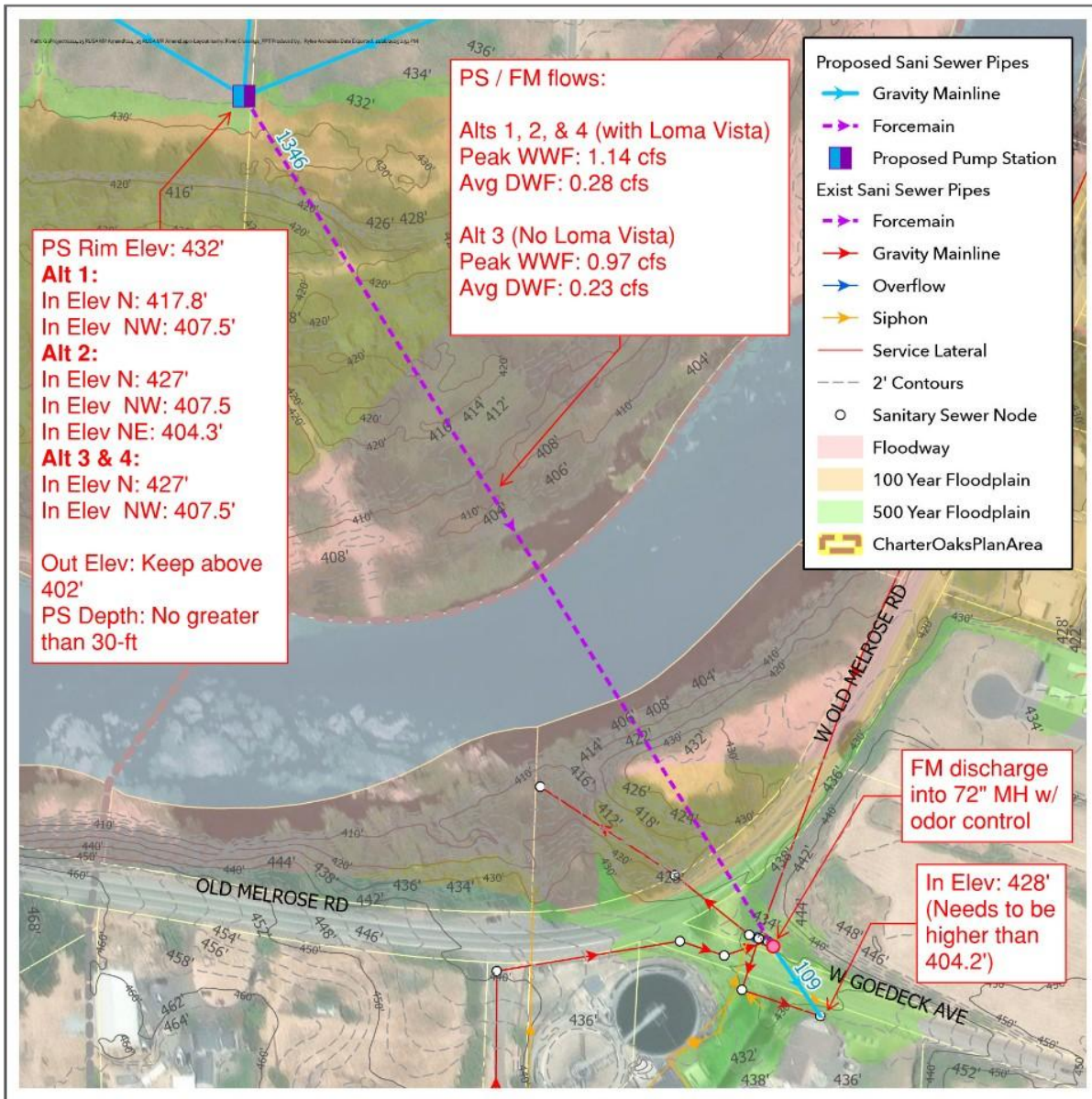


Figure 2-3. River Crossing A Overview

More detailed information regarding Leeway’s evaluation and recommended CIP is documented in Leeway’s Charter Oaks Conveyance Options TM, which is included in Appendix A.

3 CUSTOMER CATEGORIES

In order to determine the funding breakdown for the recommended CIP, RUSA asked Leeway to provide the number of EDUs for the following four categories.

- Category 1: Existing customers within the existing / old UGB
 - a. These are customers who already have sewer service within the existing UGB. These properties make up the Loma Vista Pump Station basin.
- Category 2: Potential customers within the existing / old UGB
 - a. These are potential customers who are located within the existing UGB, but do not currently have sewer service. These properties are located south of Loma Vista and northeast of Charter Oaks, are currently not connected to RUSA's system, and could be connected to the recommended CIP.
- Category 3: Existing developed / partially developed properties within the new UGB (Charter Oaks)
 - a. These are potential customers in Charter Oaks who already have existing homes on fully or partially developed properties. These customers are not currently sewered but could be serviced with the recommended CIP.
 - b. One fully developed taxlot is equivalent to 1 EDU. Partially developed properties are defined as larger taxlots which already have a home or building on them, but have undeveloped land within that taxlot that could potentially be broken out as multiple developable taxlots in the future. The EDU calculations for undeveloped land is detailed in Leeway's Charter Oaks Conveyance Options TM.
- Category 4: Undeveloped land within the new UGB (Charter Oaks)
 - a. These are potential customers located in Charter Oaks on land that is currently undeveloped but has the potential for future development.
 - b. Since the total number of EDUs in Charter Oaks was already calculated prior to developing the CIP, Category 4 was calculated by taking the total number of EDUs in Charter Oaks (755) and subtracting the EDUs in Category 3.

The location of these properties by category is shown in Figure 3-1.

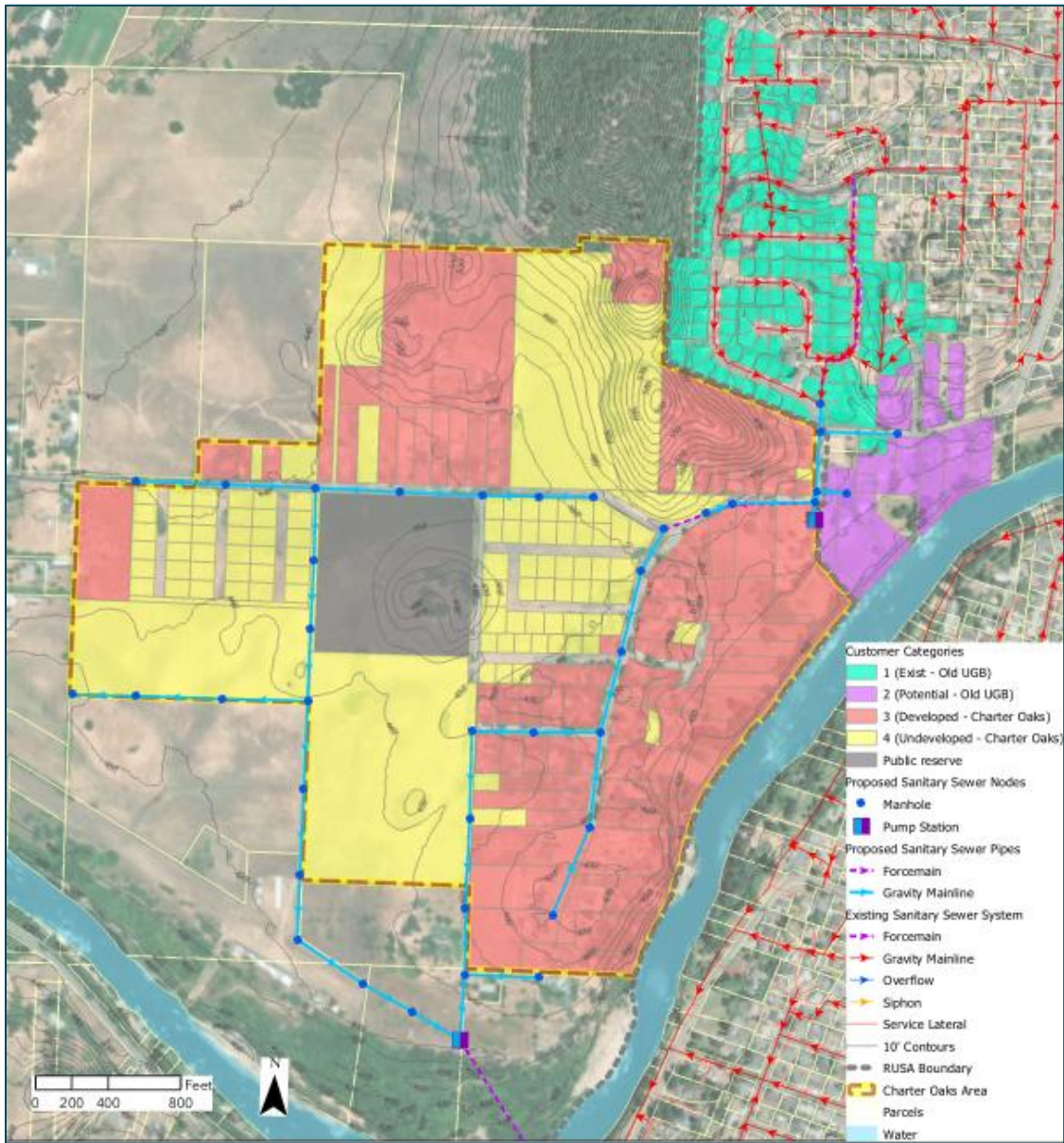


Figure 3-1. Charter Oaks Sewer Extension Customer Categories

The funding for the four categories, as provided by RUSA, is as follows:

- Category 1: RUSA General Fund dollars
- Category 2: RUSA System Development Charges (SDC) and General Fund dollars
- Category 3: Other funding sources
- Category 4: Other funding sources

4 EDU BREAKDOWN

Using the customer categories provided by RUSA, Leeway determined the total number of EDUs for each category, which is summarized in Table 4-1 below.

Table 4-1. Charter Oaks Sewer Extension Customer Category Breakdown

Categories	Description	EDUs	Percentage	
1. Existing customers (Old UGB) - RUSA General fund dollars	Developed taxlots with sewer connections in existing UGB (i.e. Loma Vista)	145	16%	18%
2. Potential customers (Old UGB) - RUSA SDC /General fund dollars	Developed taxlots / potential development in old UGB without sewer connections	20	2%	
3. Existing developed properties (Charter Oaks Area) - Other funding sources	Existing developed / partially developed properties in Charter Oaks*	79**	9%	82%
4. Undeveloped properties (Charter Oaks Area) - Other funding sources	Undeveloped land in Charter Oaks*	676**	73%	
Total:		920	100%	100%

*Figure 3-1 shows all developed and partially developed taxlots as Category 3 and undeveloped land as Category 4.

**EDU calculations for partially developed and undeveloped land are documented in the RUSA CSMP Amendment Memo.

In total, there is the potential for 920 EDUs to be served by the recommended CIP, with 18% of those located within the existing UGB, funded by RUSA SDC and General Fund dollars, and 82% located within Charter Oaks, to be funded by other sources.

APPENDIX A

CHARTER OAKS CONVEYANCE OPTIONS TECHNICAL MEMORANDUM (JANUARY 2026)

TECHNICAL MEMORANDUM

Prepared for: Ryon Kershner, PLS
Roseburg Urban Sanitary Authority

Project: Master Plan Amendment

Author: Rylee, Archuleta, PE
Leeway Engineering Solutions

Reviewer: Rob Lee, PE, PMP
Leeway Engineering Solutions

Date: January 28, 2026

Subject: Charter Oaks Conveyance Options

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APPENDICES

Appendix A - UGB Exchange Proposal: Staff Report and Findings

Appendix B - November Workshop Presentation

Appendix C - HDD River Crossing Summary and Cost

I INTRODUCTION AND BACKGROUND

The Roseburg Urban Sanitary Authority (RUSA) provides sanitary sewer collection and treatment services for the City of Roseburg and surrounding areas. The Charter Oaks Plan Area (Charter Oaks) is an area outside of the current urban growth boundary (UGB) located between the western boundary of Roseburg and the north bank of the Umpqua River, opposite the existing wastewater treatment plant (WWTP). Based on the UGB Exchange Proposal: Staff Report and Findings, developed by the City of Roseburg in 2024 and located in Appendix A, RUSA is evaluating incorporating the Charter Oaks Plan Area into the UGB in exchange for the Atkinson and Serafin sites that will no longer be within the UGB and are shown below in Figure 1-1.

In addition to looking at Charter Oaks, RUSA also asked Leeway to evaluate options for routing the existing Loma Vista Pump Station (PS) basin flows through the Charter Oaks area. The Loma Vista flows are currently pumped east where they eventually cross the Umpqua River via the Stewart Park Siphon and then are conveyed through the 42-inch gravity Goedeck Trunk to the WWTP. Both the Stewart Park Siphon and the Goedeck Trunk have capacity limitations (particularly during peak wet-weather events) and redirecting Loma Vista’s flows to the Charter Oaks Plan Area would relieve these stressed assets. Another driver for rerouting Loma Vista flows is that the Loma Vista PS is approaching the end of its service life and will need to be upgraded and rebuilt in the near future. The Charter Oaks and Loma Vista areas relative to the WWTP are shown below in Figure 1-2.

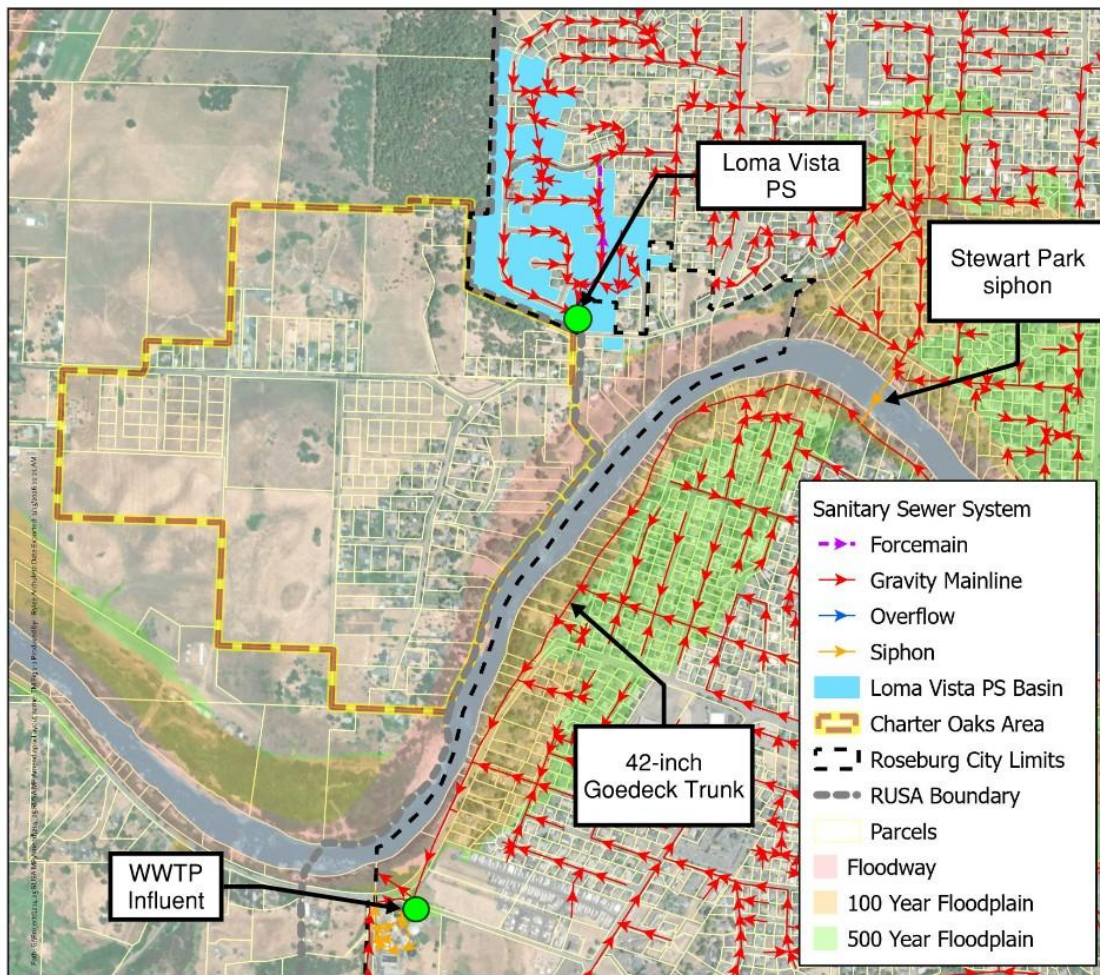


Figure 1-2. Overview of Charter Oaks, Loma Vista, and WWTP

In order to fully develop CIP options, Leeway worked with Parametrix for their pump station and environmental permitting expertise, C&L Construction for microtunneling and general construction expertise, and Epic, LLC. for horizontal-directional drilling (HDD) expertise.

This technical memorandum (TM) establishes the planning assumptions and design criteria, lays out the alternatives for the gravity conveyance of the Charter Oaks and Loma Vista areas, details Umpqua River crossing alternatives to convey flows from the Charter Oaks area to the south, provides cost estimates for all alternatives, and presents Leeway’s recommendation for the CIP.

2 PLANNING CONDITIONS AND DESIGN CRITERIA

To develop a recommended CIP for Charter Oaks, Leeway conducted meetings with RUSA staff, reviewed RUSA’s design standards, reviewed the planning criteria and assumptions established in the CSMP, and used Oregon industry standards to establish the planning assumptions and design criteria to be followed, which are shown below in Tables 2-1 and 2-2, respectively.

Table 2-1. Planning Conditions and Assumptions

Category	Proposed assumption
Planning timeframe	Buildout or ultimate development Estimated year of Buildout
Future Equivalent Development Units (EDUs) served	673 EDUs new 40 EDUs existing (partially developed in UGB) 58 EDUs adjacent to UGB on septic (calculated based on acreage at R7.5)
Household Size	2.5 people per EDU
Future Land Use	R7.5 - all residential/domestic uses 7,500 square feet per EDU
Wastewater Usage Rates	80 gallons per capita per day
Wastewater Peaking Factor	1.9
Resulting Peak Daily WW flows	152 gallons per capita per day
Infiltration and Inflow Rates	2,000 gallons per acre per day (net area)
Optional additional I/I for future aged system	4% additional per decade ¹
Net development area	80% of gross areas
Total acreage in UGB area	212 acres (includes public reserve, but not floodway)
Area removed from UGB in exchange	Equivalent to Charter Oaks area and future new EDUs (166 acres [gross], 673 EDUs)

¹ Buildout date is not known, so recommend if RUSA wishes to do this, use 5 decades or 22% increase in new system RDII.

Category	Proposed assumption
Flow assumptions from UGB removed in exchange	100 gallons per capita per day wastewater usage 136 gallons per capita per day groundwater infiltration 3 EDUs per acre (or 1 EDU per 15,000 square feet) 2,000 gallons per acre per day
Connection Point of Area Removed from UGB in exchange	Upstream of Stewart Park Siphon
Total estimated peak flow increase based on master plan assumptions, UGB density	0.74 MGD

Table 2-2. System Performance Criteria

Category	Proposed assumption
Gravity hydraulic conveyance	No surcharge with peak design flow in proposed pipes (wastewater plus I/I)
Maximum distance between manholes	500 feet and at roadway intersections and changes in slope (300 feet typically preferred)
Drop across manhole	0.1 feet minimum
Velocity in gravity mains	≥ 2 feet per second daily in gravity mains ≤ 15 feet per second in gravity mains
Velocity in siphons	≥ 3 feet per second during average daily flow in siphons ≤ 15 feet per second in siphons
Velocity in force mains	≥ 3 feet per second during average flow, and ≤ 8 feet per second when pumping at full capacity
Minimum pipe slope for gravity pipes to achieve minimum velocity (ft/100 ft)	8" = 0.40 ft/100 ft 10" = 0.28 ft/100 ft 12" = 0.22 ft/100 ft 15" = 0.15 ft/100 ft 18" = 0.12 ft/100 ft 21" = 0.10 ft/100 ft 24" = 0.08 ft/100 ft
Minimum Pipe Cover	3 feet for gravity mains (unless otherwise protected)
Pump station firm capacity	Must meet 5-year peak hour flow with largest pump out of service (calculated based on Planning Condition Assumptions in Table 1.
Sizing for existing trunk line alignment	Recommended increases in Collection System Master Plan would be required for adequate conveyance downstream of Loma Vista siphon, should new UGB area connect into the existing system.

Below is a list of references used to develop these tables:

- CH2MHill. (2004). RUSA Wastewater Collection System Master Plan. Roseburg, Oregon: CH2MHill.
- City of Roseburg. (2024). Urban Growth Boundary Exchange Proposal: Staff Report and Findings. Roseburg, Oregon: City of Roseburg, Oregon.
- Erik D. Ranger, P. (2014). RUSA Brown Avenue Lift Station Design Report. Roseburg, Oregon: Roseburg Urban Sanitary Authority.
- Roseburg Urban Sanitary Authority. (2020, July 2). Sanitary Sewer Standards. Roseburg, Oregon: Roseburg Urban Sanitary Authority.
- State of Oregon. (1981, September). Oregon Administrative Rules Division 52 Appendix A Sewer Pipelines.

3 FLOW ASSUMPTIONS

Once the planning assumptions and criteria were established, Leeway then calculated the equivalent dwelling units (EDUs) and flows for both the Charter Oaks and Loma Vista areas. Since Loma Vista is already developed, the EDUs were calculated by counting the existing taxlots. Since Charter Oaks is partially developed, the EDU calculations were more complicated. A developed taxlot is equivalent to one EDU. 7,500 square feet of undeveloped land is equivalent to one EDU, unless the land has steep topography (over 12% slope), then it is assumed that the developed land will be less dense. Partially developed taxlots (i.e., large parcels with one home that may be broken into multiple properties in the future) were converted into EDUs with the assumption that one taxlot is 0.75 EDUs per 7,500 square feet. In addition, any area within the floodway was not excluded from developable land. Figure 3-1 below shows the floodway and steep topography locations within the Charter Oaks Plan Area.

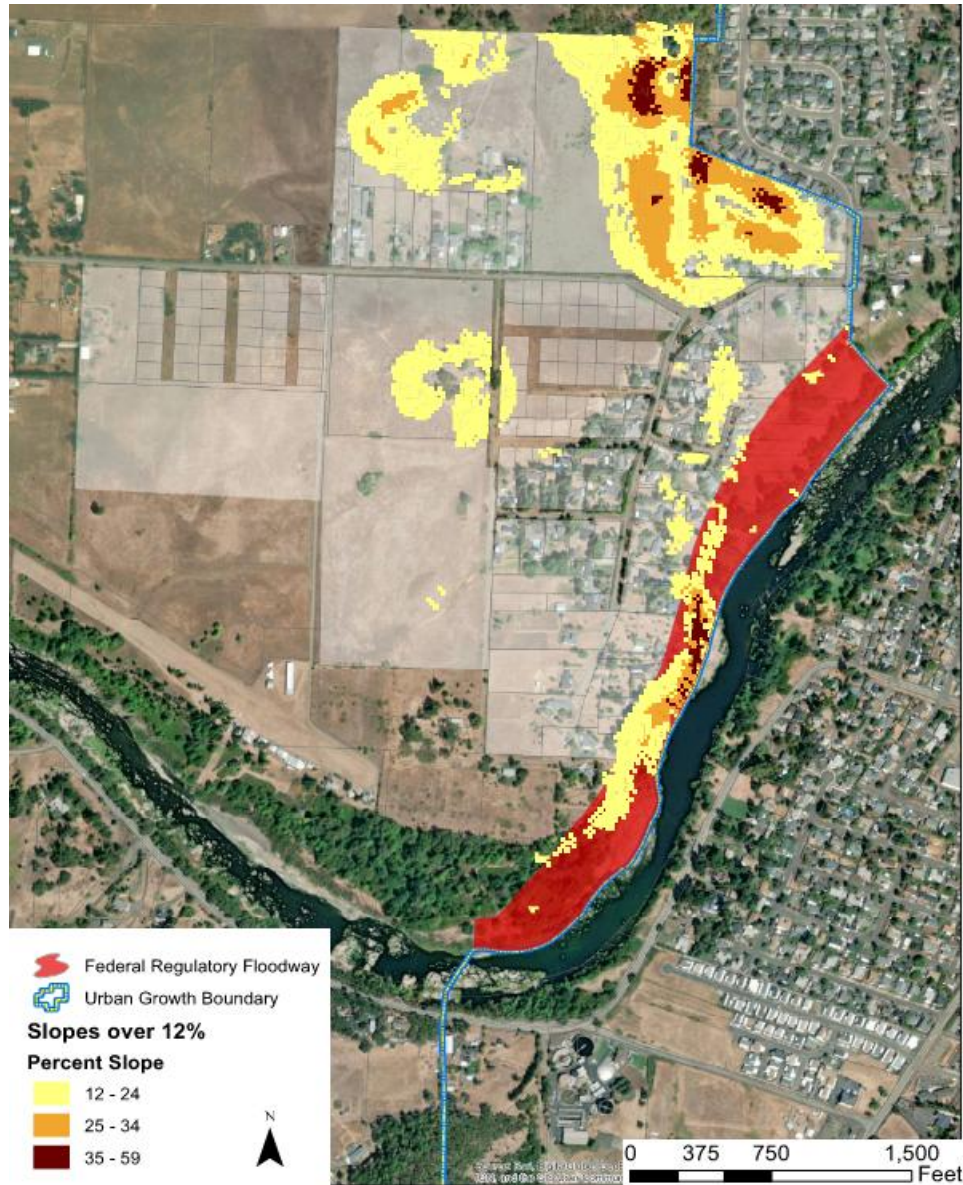


Figure 3-1. Charter Oaks Floodway and Steep Topography

Steep slopes affecting the predicted density of an area, are present in the north and east areas of Charter Oaks, however, the steep slopes along the Umpqua River are primarily located within the floodway and did not affect the total EDU count. 42 EDUs were subtracted from the northern area due to the steep topography.

In addition, a large area totaling approximately 17.5 acres in the center of the Charter Oaks area was identified by RUSA as not to be developed due to due land zoning designation.

Once EDUs were calculated, the wet weather peak daily flows were determined by multiplying the number of EDUs by 2.5 persons per dwelling unit and multiplying that number by 152 gallons per capita day. 2,000 gallons per acre per day were then applied to the assumed net developable area (80% of the total area).

The total EDUs and flow from Charter Oaks and Loma Vista are shown below in Table 3-1.

Table 3-1. Flow Assumptions

Flow Component	Charter Oaks	Loma Vista	Total
EDUs	755 EDUs	145 EDUs	900 EDUs
Population (2.5 persons per EDU)	1,887 persons	363 persons	2,250 persons
Average Dry Weather Flow (80 gal/person)	151,000 gpd	29,000 gpd	0.18 MGD
Total Peak Daily Flow (peaking factor + infiltration)	626,000 gpd	109,000 gpd	0.74 MGD

As shown in Table 2-1, the total peak flows came to 0.74 MGD for both Charter Oaks and Loma Vista combined.

Using the existing topography and development as a guide, Leeway broke the Charter Oaks area into subareas and determined the peak flow coming from each subarea, as well as from Loma Vista which are shown below in Figure 3-2.

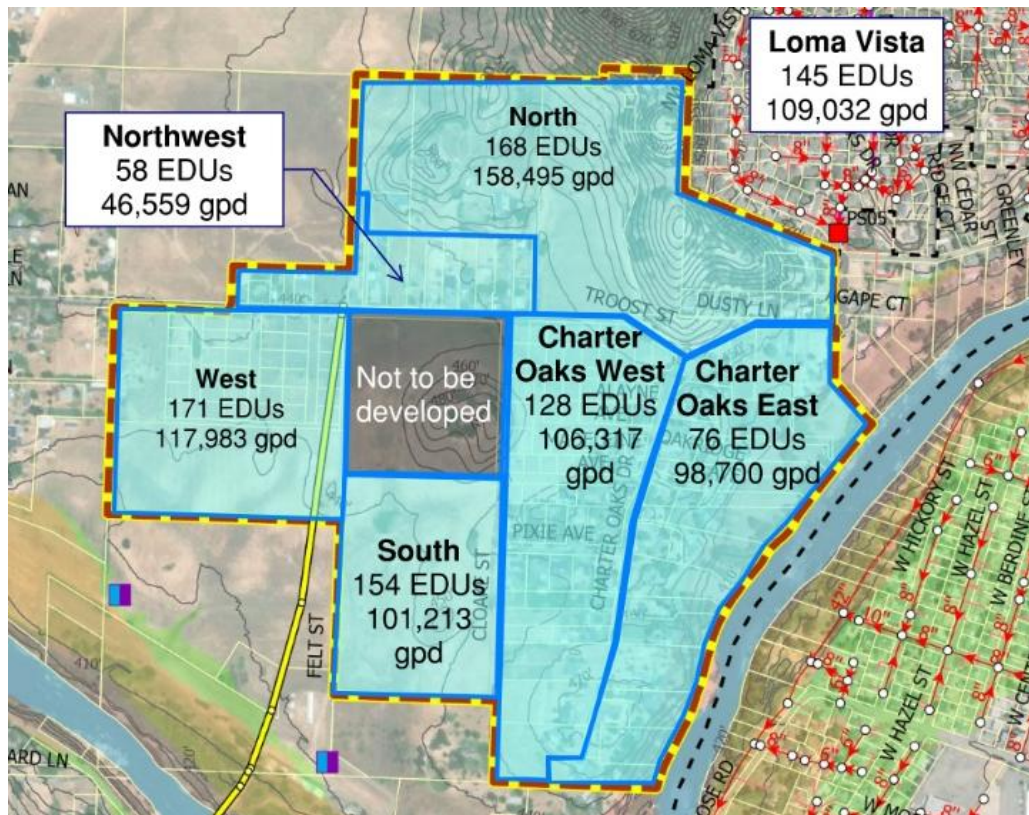


Figure 3-2. Charter Oaks Subareas and Flows

4 CHARTER OAKS CONVEYANCE ALTERNATIVES

After establishing flow assumptions and planning criteria, Leeway developed four separate alternatives for conveying the Charter Oaks and Loma Vista flows, which were presented to RUSA at a workshop in November of 2025. Feedback from that workshop was incorporated into the conveyance alternatives and river crossings presented in this memo. The slide deck for that workshop can be found in Appendix B. All four conveyance alternatives terminate on the southern end of the Charter Oaks Plan Area, north of the Umpqua River. The river crossing options, which convey flow from this southern point beneath the Umpqua River and to the WWTP, will be discussed in Section 5 of this memo.

4.1 ALTERNATIVE 1 (LOMA VISTA INTO CHARTER OAKS)

Alternative 1 involves decommissioning the Loma Vista Pump Station and rerouting Loma Vista flows into a gravity conveyance system through the Charter Oaks Plan Area, which also conveys Charter Oaks flows. Figure 4-1 below shows the layout of the gravity conveyance pipes for Alternative 1, where each proposed manhole is labeled with a manhole ID number and the approximate depth.

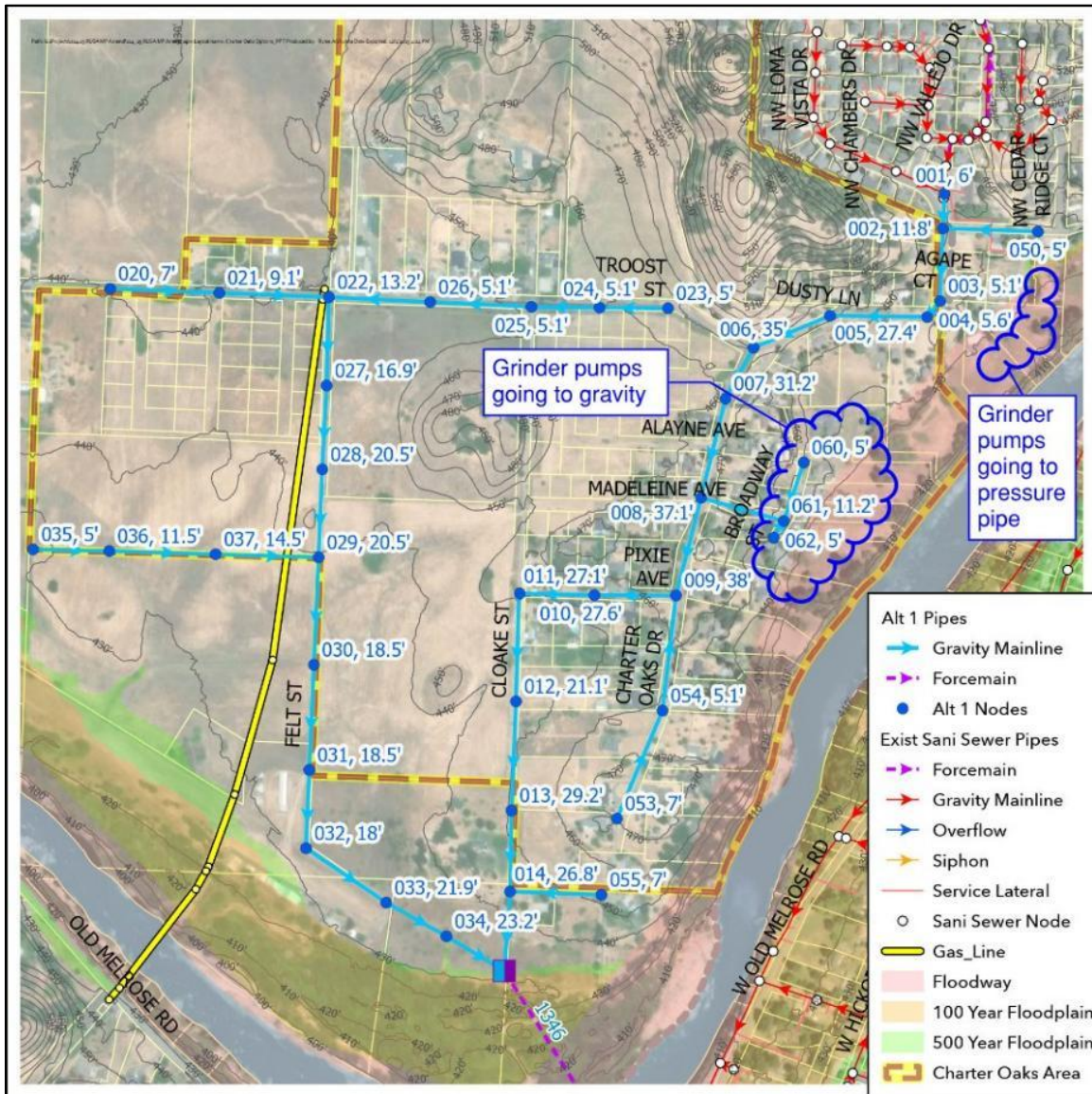


Figure 4-1. Alternative 1 Overview

The eastern flows for this alternative generally flow to the south from the decommissioned Loma Vista Pump Station to a point south of the Charter Oaks Plan Area, just north of the 500-year flood zone. The west pipes general flow from Troost St down to the same southern point. Although Leeway based the pipes depths to accommodate the existing topography and developed taxlots, these depths and locations will need to be refined once the project moves from planning into design.

Due to a low point on NW Troost St where Agape Ct intersects, the proposed infrastructure becomes very deep on Charter Oaks Drive with five manholes reaching over 30 feet deep. This drives up costs significantly, as well as making future operations and maintenance much more challenging.

Because of the topography within the Charter Oaks area, grinder pumps are required at some properties for all three alternatives, although the extent varies. For Alternative 1, grinder pumps going to a pressure sewer main will be needed in the northeast corner of the project in order to connect low elevation homes to the adjacent gravity sewers. Leeway was unable to develop a cost-effective alternative to provide service to these homes without including pressure sewers. Grinder pumps will also be required east of NW Broadway St. RUSA has indicated that pressure mains in the ROW are not currently common practice for their operations and maintenance team; in lieu of a pressure main, RUSA can elect to have the properties remain on septic. However, because of the great depth of pipes in Charter Oaks Drive, no pressure pipes are required and the grinder pumps are able to pump directly to gravity pipes in NW Broadway St. which flow into Charter Oaks Drive. RUSA could elect to also leave those properties on septic in lieu of mandating the use of grinder pumps and pressure sewer mains.

The major pros and cons of Alternative 1 are summarized below.

Pros:

- Decommissions the Loma Vista PS and relieve flow in the 42-inch trunk on the east side of the river
- Avoids pressure sewers east of Charter Oaks Dr.
- Avoids tunneling of separate Loma Vista line (included in Alternative 2)

Cons:

- Gravity sewers are very deep in Charter Oaks Dr.
- Requires pressure pipe at NE corner of Charter Oaks Area

COST ESTIMATE

Table 4-1 details the cost estimate developed for Alternative 1. All cost estimates include direct construction costs, a construction contingency of 40%, and indirect costs. Direct construction costs were determined using information from comparable bid tabs and contractor outreach. Parametrix developed the Environmental / Planning cost, which also applies to the river crossing alternatives. This cost estimate does not include the Umpqua River crossing infrastructure which are detailed out in Section 5. The Alternative 1 cost estimate is meant for planning purposes only and all costs are in 2025 US dollars. These cost assumptions are consistent for all costs provided in this TM.

Table 4-2. Alternative 1 Cost Estimate

Item	Unit	Quantity	Unit Cost	Total Cost
Mobilization (10%)	LS	1	\$ 983,000	\$ 983,000
Erosion Control (5%)	LS	1	\$ 468,000	\$ 468,000
New pipe installation via open-cut, 8-inch, 0- to 10-Ft depth	LF	5,825	\$ 350	\$ 2,038,750
New pipe installation via open-cut, 8-inch, 10- to 20-Ft depth	LF	4,595	\$ 500	\$ 2,297,500
New pipe installation via open-cut, 8-inch, 20- to 30-Ft depth	LF	3,041	\$ 700	\$ 2,128,700
New pipe installation via open-cut, 8-inch, 30- to 40-Ft depth	LF	1,550	\$ 1,200	\$ 1,860,000
48-inch Manhole, 0- to 10-Ft depth	EA	16	\$ 10,000	\$ 160,000
48-inch Manhole, 10- to 20-Ft depth	EA	11	\$ 15,000	\$ 165,000
48-inch Manhole, 20- to 30-Ft depth	EA	8	\$ 20,000	\$ 160,000
48-inch Manhole, 30- to 40-Ft depth	EA	4	\$ 35,000	\$ 140,000
Grinder Pump to Pressure Sewer	EA	3	\$ 25,000	\$ 75,000
Pressure Sewer	LF	164	\$ 150	\$ 24,600
Grinder Pump to Gravity Sewer	EA	10	\$ 25,000	\$ 250,000
Decommission Loma Vista Pump Station	LS	1	\$ 65,000	\$ 65,000
Subtotal Direct Construction Costs				\$ 10,816,000
Construction Contingency (40%)				\$ 4,326,000
Construction Total				\$ 15,142,000
Environmental / Planning				\$ 113,000
Design / Planning (10%)				\$ 1,514,000
Construction Management (10%)				\$ 1,514,000
Finance / Legal / Soft Costs (5%)				\$ 757,000
Indirect Project Costs				\$ 3,898,000
Project Total Cost (2025 USD)				\$ 19,040,000

As shown above, the total construction cost for Alternative 1 is \$15,142,000 with the total project cost coming in at \$19,040,000. Leeway also looked at the overall cost if RUSA chooses to omit pressure pipes and instead leave the homes in the NW corner of the Charter Oaks area on septic. If the line items shown in red text in Table 4-1 are removed, the total cost drops to \$18,800,000.

4.2 ALTERNATIVE 2 (LOMA VISTA ALONG RIVER)

Similar to Alternative 1, Alternative 2 also involves decommissioning the Loma Vista PS and rerouting its flows into gravity conveyance pipes south. However, in Alternative 2, the Loma Vista flows are conveyed in a separate line that meets back up with the Charter Oaks flows south of the Charter Oaks area. Figure 4-2 below shows the layout of the gravity conveyance pipes for Alternative 2.

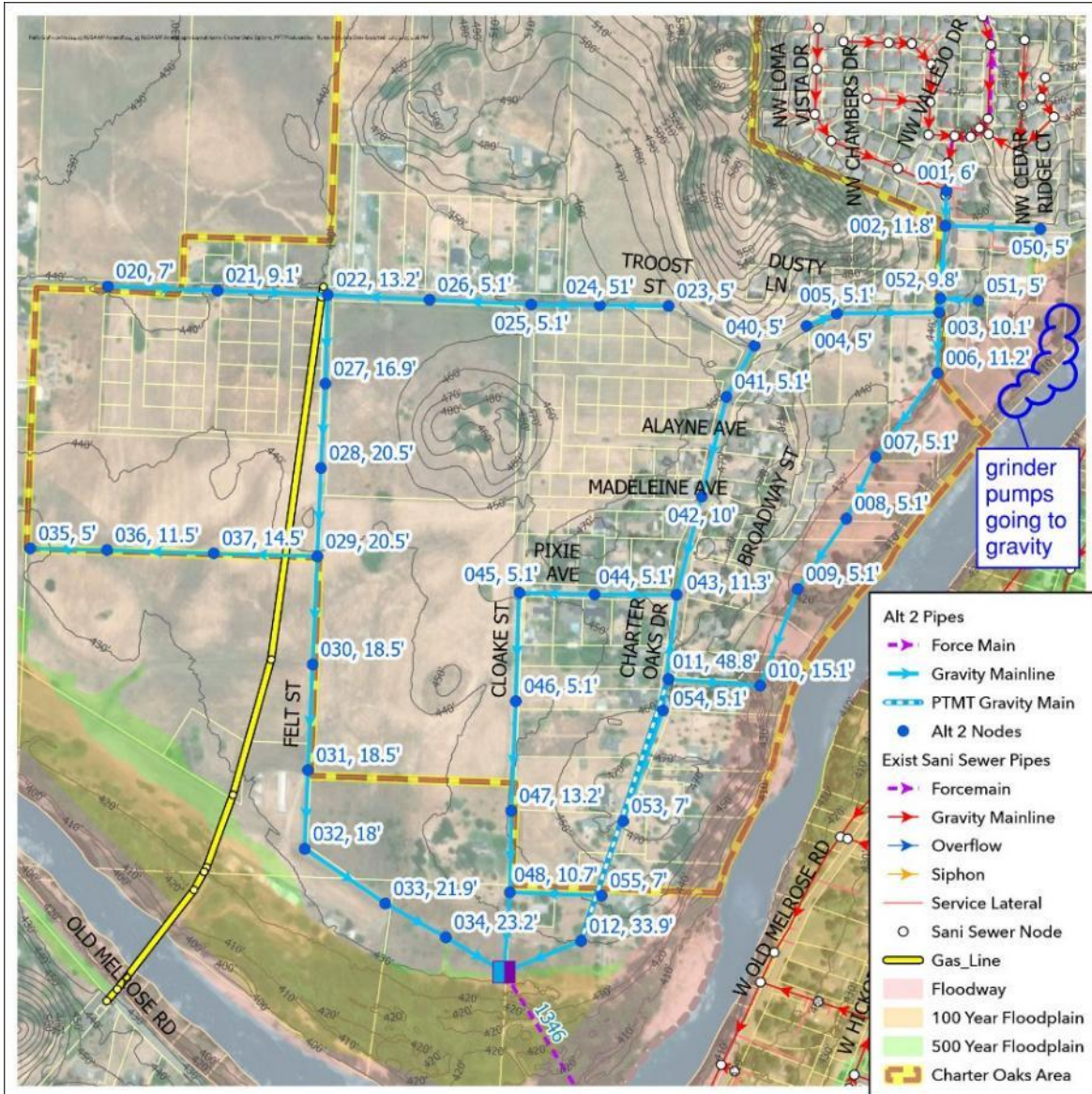


Figure 4-2. Alternative 2 Overview

The separate Loma Vista line heads south on Troost and then follows the Umpqua River until it turns west to avoid steep topography and existing buildings. From this point, the Loma Vista line runs south on the southern end of Charter Oaks Dr. Because there is a large hill here, the depths of line would necessitate the use of trenchless installation methods; after consulting with Epic and C&L, Leeway proposes that this line be constructed using pilot tube microtunneling (PTMT). To determine the feasibility and cost of PTMT, Leeway worked with C&L construction, who determined though feasible, PTMT would be costly and could vary greatly depending on soil conditions.

The pipes conveying Charter Oaks flows for Alternative 2 are very similar to Alternative 1. The primary difference is that the piping on Charter Oaks Drive starts at a higher point and avoids the significant depths seen in Alternative 1.

Because the proposed Loma Vista line is located downhill of NW Broadway St., neither pressure pipe nor grinder pumps are needed east of Charter Oaks Drive. The new Loma Vista line would also eliminate the need for pressure pipe in the northeast corner of the project area, however grinder pumps would still be needed to carry flow from the low-lying homes in this area to the proposed gravity mainline.

The major pros and cons of Alternative 2 are summarized below.

Pros

- Decommission the Loma Vista PS and relieve flow in the 42-inch trunk on the east side of the river.
- Sewers in Charter Oaks Dr. area are at reasonable depth
- No pressure sewers required
- No grinder pumps required east of Charter Oaks Drive

Cons

- Requires construction of gravity sewer within the floodplain
- Requires pilot tube microtunneling, which is costly and complicated

COST ESTIMATE

Table 4-2 details the cost estimate developed for Alternative 2. Leeway consulted C&L regarding constructability and providing input to support the cost estimate.

Table 4-2. Alternative 2 Cost Estimate

Item	Unit	Quantity	Unit Cost	Total Cost
Mobilization (10%)	LS	1	\$ 967,000	\$ 967,000
Erosion Control (5%)	LS	1	\$ 461,000	\$ 461,000
New pipe installation via open-cut, 8-inch, 0- to 10-Ft depth	LF	10,054	\$ 350	\$ 3,518,900
New pipe installation via open-cut, 8-inch, 10- to 20-Ft depth	LF	5,413	\$ 500	\$ 2,706,500
New pipe installation via open-cut, 8-inch, 20- to 30-Ft depth	LF	618	\$ 700	\$ 432,600
New pipe installation via open-cut, 8-inch, 30- to 40-Ft depth	LF	788	\$ 1,200	\$ 945,600
New pipe installation via pilot tube microtunnelling, 1242-LF, 8-inch	LS	1	\$ 950,000	\$ 950,000
48-inch Manhole, 0- to 10-Ft depth	EA	27	\$ 10,000	\$ 270,000
48-inch Manhole, 10- to 20-Ft depth	EA	14	\$ 15,000	\$ 210,000
48-inch Manhole, 20- to 30-Ft depth	EA	2	\$ 20,000	\$ 40,000
Grinder Pump to Gravity Sewer	EA	3	\$ 25,000	\$ 75,000
Decommission Loma Vista Pump Station	LS	1	\$ 65,000	\$ 65,000
Subtotal Direct Construction Costs				\$ 10,642,000
Construction Contingency (40%)				\$ 4,257,000
Construction Total				\$ 14,899,000
Environmental / Planning				\$ 113,000
Design / Planning (10%)				\$ 1,490,000
Construction Management (10%)				\$ 1,490,000
Finance / Legal / Soft Costs (5%)				\$ 745,000
Indirect Project Costs				\$ 3,838,000
Project Total Cost (2025 USD)				\$ 18,740,000

As shown in the table above, the total construction cost for Alternative 2 is \$14,899,000 with the total project cost coming in at \$ 18,740,000.

4.3 ALTERNATIVE 3 (UPGRADE LOMA VISTA PUMP STATION)

In Alternative 3, the Loma Vista PS is upgraded and the northeast corner of the Charter Oaks flows into the Loma Vista Pump Station. The layout for the gravity sewers for the remaining portion of Charter Oaks is very similar to the previous alternatives. Figure 4-3 below illustrates the gravity conveyance layout for Alternative 3.



Figure 4-3. Alternative 3 Overview

Because the northeast corner of Charter Oaks goes north towards Loma Vista, the pipes in Charter Oaks Dr. are located at a reasonable depth. However, because the pipes in Charter Oaks are not extremely deep like in Alternative 1, and there’s not a pipe running along the river in Alternative 2, individual grinder pumps pumping to a pressure sewer main are needed to connect the properties on NW Broadway St. to the gravity pipes in Charter Oaks Drive. However upgrading the Loma Vista PS allows it to be rebuilt at a lower depth, which eliminates the need for grinder pumps in the northeast corner of Charter Oaks.

The major pros and cons of Alternative 3 are summarized below.

Pros

- Sewers in Charter Oaks area are at reasonable depth
- No grinder pumps or pressure pipes in northeast corner of Charter Oaks

Cons

- Requires grinder pumps and pressure pipes east of Charter Oaks Drive
- Loma Vista PS needs to be upgraded, and capacity issues are not relieved in 42-inch trunk of east side of river

COST ESTIMATE

Table 4-3 details the cost estimate developed for Alternative 3.

Table 4-3. Alternative 3 Cost Estimate

Item	Unit	Quantity	Unit Cost	Total Cost
Mobilization (10%)	LS	1	\$ 716,000	\$ 716,000
Erosion Control (5%)	LS	1	\$ 341,000	\$ 341,000
New pipe installation via open-cut, 8-inch, 0- to 10-Ft depth	LF	8,795	\$ 350	\$ 3,078,250
New pipe installation via open-cut, 8-inch, 10- to 20-Ft depth	LF	4,614	\$ 500	\$ 2,307,000
New pipe installation via open-cut, 8-inch, 20- to 30-Ft depth	LF	775	\$ 700	\$ 542,500
48-inch Manhole, 0- to 10-Ft depth	EA	23	\$ 10,000	\$ 230,000
48-inch Manhole, 10- to 20-Ft depth	EA	11	\$ 15,000	\$ 165,000
48-inch Manhole, 20- to 30-Ft depth	EA	3	\$ 20,000	\$ 60,000
Grinder Pump to Pressure Sewer	EA	10	\$ 25,000	\$ 250,000
Pressure Sewer	LF	760	\$ 150	\$ 114,000
Grinder Pump to Gravity Sewer	EA	3	\$ 25,000	\$ 75,000
Loma Vista PS Rebuild	LS	1	\$ 400,000	\$ 400,000
Subtotal Direct Construction Costs				\$ 8,279,000
Construction Contingency (40%)				\$ 3,312,000
Construction Total				\$ 11,591,000
Environmental / Planning				\$ 113,000
Design / Planning (10%)				\$ 1,159,000
Construction Management (10%)				\$ 1,159,000
Finance / Legal / Soft Costs (5%)				\$ 580,000
Indirect Project Costs				\$ 3,011,000
Project Total Cost (2025 USD)				\$ 14,600,000

As shown in the table above, the total construction cost for Alternative 3 is \$11,591,000 with the total project cost coming in at \$14,600,000. If RUSA chooses to eliminate pressure piping from the alternative and leave the properties unsewered instead, indicated by the line items in red text in Table 4-3, the total project cost drops to \$13,900,000.

4.4 ALTERNATIVE 4 (RELOCATE LOMA VISTA PUMP STATION)

Alternative 4 involves relocating the Loma Vista PS south, to a point near the intersection of NW Troost St. and Agape Ct., and re-routing Loma Vista flows south into the Charter Oaks

collection system. Figure 4-4 below shows the layout of the gravity conveyance pipes for Alternative 4.



Figure 4-4. Alternative 4 Overview

Similar to Alternatives 2 and 3, the flows from the northeastern corner of the Charter Oaks area flow into this pump station to avoid deep infrastructure on Charter Oaks Dr. The layout of the Charter Oaks pipes in Alternative 4 are nearly identical to Alternative 3. The newly located Loma Vista PS will then convey flows through a forcemain on NW Troost St., discharging to the Charter Oaks gravity system near the intersection of Charter Oaks Dr.

Relocating the Loma Vista PS allows the pipes in Charter Oaks Dr. to stay at reasonable depths, while also reducing flows in the 42-inch trunk sewer on the east side of the river. In addition, grinder pumps and pressure pipes are not required in the northeast corner of the project due to the conveniently place PS in the northeast corner of the project area. However, grinder

pumps and pressure pipes are still needed on the west side of Charter Oaks Drive, similar to Alternative 3

The major pros and cons of Alternative 4 are summarized below.

Pros

- Sewers in Charter Oaks Dr. are at a reasonable depth
- Relieves flow in the 42-inch trunk on the east side of the river
- No grinder pumps or pressure pipes are required in the NE corner of Charter Oaks

Cons

- Requires grinder pumps and pressure pipes on the west of Charter Oaks Drive
- Requires relocating/rebuilding the Loma Vista PS

COST ESTIMATE

Table 4-4 details the cost estimate developed for Alternative 4.

Table 4-4. Alternative 4 Cost Estimate

Item	Unit	Quantity	Unit Cost	Total Cost
Mobilization (10%)	LS	1	\$ 735,000	\$ 735,000
Erosion Control (5%)	LS	1	\$ 350,000	\$ 350,000
New pipe installation via open-cut, 8-inch, 0- to 10-Ft depth	LF	8,397	\$ 350	\$ 2,938,950
New pipe installation via open-cut, 8-inch, 10- to 20-Ft depth	LF	5,266	\$ 500	\$ 2,633,000
New pipe installation via open-cut, 8-inch, 20- to 30-Ft depth	LF	618	\$ 700	\$ 432,600
48-inch Manhole, 0- to 10-Ft depth	EA	18	\$ 10,000	\$ 180,000
48-inch Manhole, 10- to 20-Ft depth	EA	15	\$ 15,000	\$ 225,000
48-inch Manhole, 20- to 30-Ft depth	EA	2	\$ 20,000	\$ 40,000
Grinder Pump to Pressure Sewer	EA	10	\$ 25,000	\$ 250,000
Pressure Sewer	LF	924	\$ 150	\$ 138,600
Decommission Loma Vista Pump Station	LS	1	\$ 65,000	\$ 65,000
6-inch Loma Vista FM	LF	950	\$ 100	\$ 95,000
New Loma Vista Pump Station	LS	1	\$ 445,000	\$ 445,000
Subtotal Direct Construction Costs				\$ 8,528,000
Construction Contingency (40%)				\$ 3,411,000
Construction Total				\$ 11,939,000
Environmental / Planning				\$ 113,000
Design / Planning (10%)				\$ 1,194,000
Construction Management (10%)				\$ 1,194,000
Finance / Legal / Soft Costs (5%)				\$ 597,000
Indirect Project Costs				\$ 3,098,000
Project Total Cost (2025 USD)				\$ 15,040,000

As shown in the table above, the total construction cost for Alternative 4 is \$11,939,000 with the total project cost coming in at \$15,040,000. If RUSA chooses to eliminate pressure piping

from the alternative and leave the properties unsewered instead, indicated by the line items in red text in Table 4-4, the total project cost drops to \$14,250,000.

4.5 SUMMARY OF CHARTER OAKS PLAN AREA CONVEYANCE ALTERNATIVES

Table 4-5 summarizes the Charter Oaks Plan Area conveyance alternatives costs

Table 4-5. Charter Oaks Plan Area Conveyance Alternatives

Alternative	Total Conceptual Cost (w/o river crossing)
1 - Loma Vista into Charter Oaks	\$19,040,000
2 - Loma Vista along river	\$18,740,000
3 - Upgraded Loma Vista	\$13,900,000
4 - Relocated Loma Vista PS	\$14,250,000

Alternatives 1 and 2 have a significantly higher cost due to the depth of the gravity sewers and (for Alternative 2) the need for trenchless installation of a deep sewer using PTMT, however, they include decommissioning the Loma Vista PS, allowing for complete gravity conveyance.

Alternatives 3 and 4 both include rebuilding or relocating the Loma Vista PS but are significantly less expensive with shallower gravity sewers. The difference in costs between Alternatives 3 and 4 are essentially negligible at a budgetary planning level. RUSA has indicated that a relocated Loma Vista PS may alleviate current O&M issues at the current Loma Vista PS location.

Alternatives 1, 2, and 3 reduce flows downstream of the current Loma Vista PS service area which currently have capacity issues, including the Stewart Park Siphon and 42-inch Goedeck trunk on the east side of Umpqua River.

After discussions with RUSA, Leeway recommends Alternative 4.

5 RIVER CROSSINGS

After looking at the conveyance of flow within the Charter Oaks area, the Leeway team evaluated options to convey flows beneath the Umpqua River to the WWTP.

For all three river crossing options, Parametrix was responsible for the PS and forcemain design and cost estimates, as well as environmental permitting costs. As a retired contractor who specialized in HDD, Neil Swope of Epic, LLC was responsible for the HDD river crossing design and cost estimate. Leeway looked at three separate river crossing options which are described in detail below. All three river crossing options use the same starting point on the northern side of the river, which was shown as the downstream point in all of the Charter Oaks Plan Area gravity conveyance alternatives.

5.1 RIVER CROSSING A (PS ON NORTH SIDE OF UMPQUA RIVER)

In River Crossing A, a PS at the southern point of the Charter Oaks area conveys flow through a 6-inch forcemain, which runs beneath the Umpqua River and discharges into a 72-inch manhole with an odor control facility near the WWTP. From this manhole, flow is conveyed to the WWTP influent wet well via a 10-inch gravity main. The proposed construction method for all evaluated river crossings is HDD.

Figure 5-1 below shows the layout for River Crossing A, and Figure 5-2 shows the plan and profile of the HDD crossing developed by Epic, LLC.

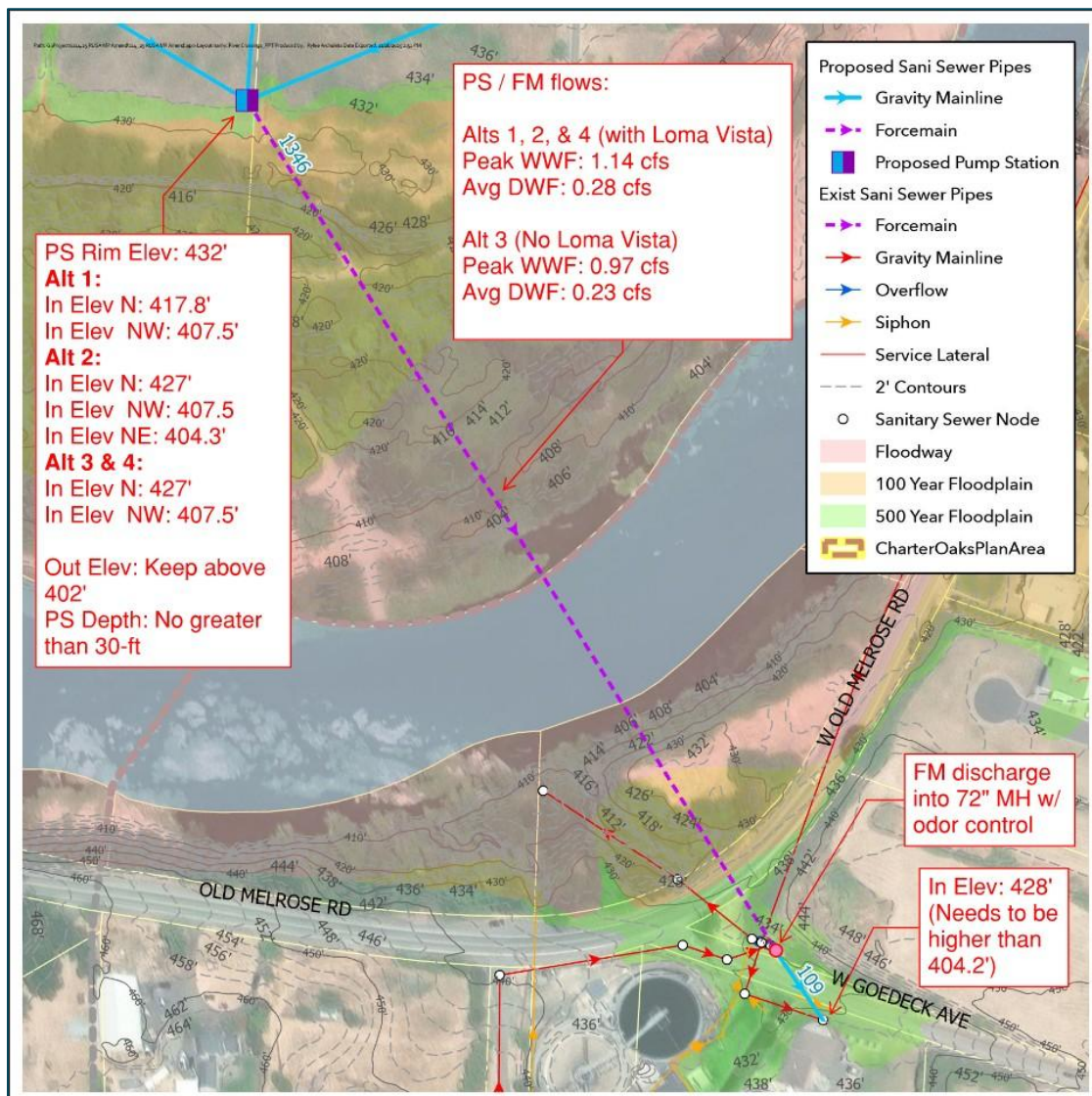


Figure 5-1. River Crossing A Overview

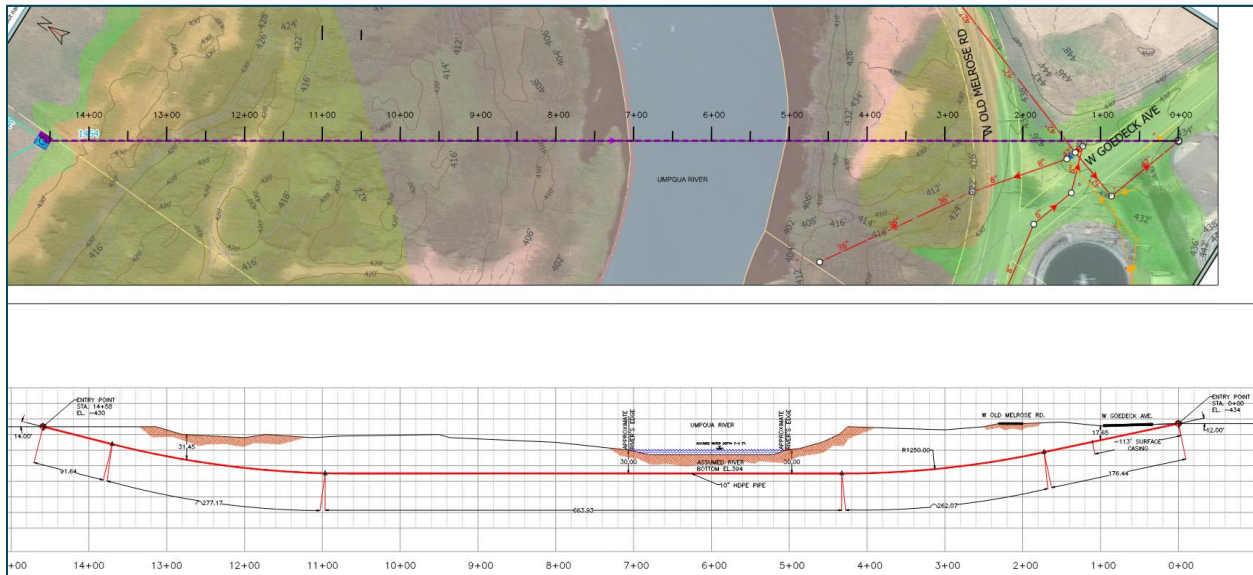


Figure 5-2. HDD River Crossing Plan and Profile

The HDD entry point is within the 500-year flood zone, as is a large portion of the WWTP, including the wet-well, and crosses beneath Old Melrose Road and the Umpqua River before exiting beyond the existing floodplain, where it will eventually connect to the proposed pump station. Although Figure 5-2 shows the HDD entry point at the existing wet-well, the alternative was revised so that the forcemain will end at a proposed MH on the should of Goedeck Ave, as shown in Figure 5-1, which will be the actual HDD entry point.

Due to the complexity of this proposed HDD project, a few key notes and recommended requirements are listed below:

- Specific driller qualifications for both the contractor and key individuals should be required with a minimum of five years' experience and a minimum of five similar projects involving the same soil type and pipe size with wireline and mud motor pilot hole navigation experience.
- A hydro fracture analysis, a bore plan and profile should be completed by a licensed engineer with a minimum of 5 years HDD experience and five similar HDD Projects.
- A minimum bore entry and exit site of at least forty-five' x 100' or preferably larger will need to be provided for the drilling equipment.
- A pipe handling procedure should be submitted by the contractor and approved by an experienced engineer familiar with similar HDD pipeline installations.

Additional requirements and details can be found in Swope's detailed HDD river crossing write-up, located in Appendix C.

A conceptual pump station layout was developed by Parametrix and is shown below in figure 5-3.

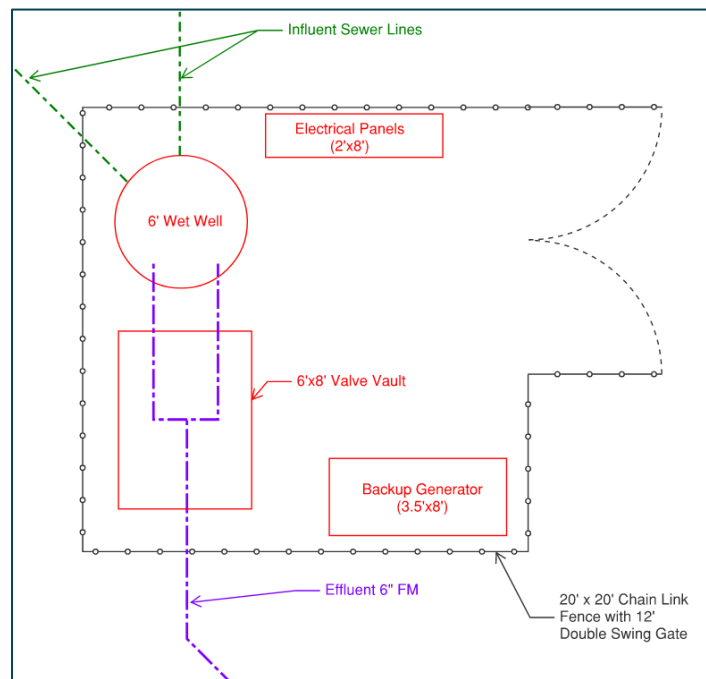


Figure 5-3. Conceptual Charter Oaks Pump Station Layout

Based on the provided flows and elevations, Parametrix recommended a pump station with a 6-foot diameter wet-well with two submersible 14 horse power (hp) pumps and a single 6-inch forcemain to handle peak wet weather flows of 1.14 cfs and average dry weather flows of 0.28 cfs.

COST ESTIMATE

Table 5-1 details the cost estimate developed for River Crossing A.

Table 5-1. River Crossing A Cost Estimate

Item	Cost
Forcemain River Crossing, 1350-LF, 6-inch	\$ 816,000
New Charter Oaks Pump Station	\$ 678,000
72-inch MH w/odor control facility	\$ 30,000
Gravity pipe discharging into WW	\$ 38,500
Subtotal Direct Construction Costs	\$ 1,562,500
Construction Contingency (40%)	\$ 625,000
Construction Total	\$ 2,187,500
Design / Planning (20%)	\$ 438,000
Construction Management (10%)	\$ 219,000
Finance / Legal / Soft Costs (5%)	\$ 109,000
Indirect Project Costs	\$ 766,000
Project Total Cost (2025 USD)	\$ 2,950,000

As shown in the table above, the total construction cost for River Crossing A is \$2,187,500 with the total project cost of \$2,950,000. The environmental and permitting costs associated with the river crossing are not included in this cost estimate as they are already accounted for in the Charter Oaks conveyance alternative cost estimates.

When looking at costs associated with HDD, it is important to note that site specific soil investigations have not been completed for this project, however a site visit did reveal bedrock and mud stone at or near the site. These planning-level cost estimates assumed a soft to medium strength bedrock with no gravel or cobble. A thorough soil investigation with a minimum of one bore hole on each side of the river should be completed prior to an HDD river crossing. Soil investigation reports should be at least 30 feet deeper than the proposed depth and should include water table elevations, rock strength, and type. Factors that affect HDD costs are listed below:

- Soils, ground conditions, pipeline size, depth, and length are typically the biggest factors when determining cost. Drilling in soft alluvial soil requires less expensive tooling and requires less time than a larger and longer HDD.
- Drilling in gravel and cobbles will typically require larger diameter casing pipes and specialized expensive tools and techniques. The tooling is often damaged and needs replacing in these scenarios.
- Drilling in bedrock requires very specialized expensive tooling and takes longer to drill, resulting in a higher cost.
- Larger pipe diameter requires much larger bore holes and drilling equipment, resulting in higher cost.
- More expensive navigation tools are required to drill to depths of 50 feet or more, or in and around existing pipelines and magnetic city environments near bridge footings with steel and rebar where bore accuracy is greatly affected.
- Long drills of 5000 feet or more are typically done by the most experienced contractors and often utilize what is known as an intersect with a drill machine placed on each end – one drill machine will drill into the other machine’s bore hole. These types of HDD will often be the most expensive.

For costing the PS, Parametrix utilized a tracking spreadsheet of past pump station projects that have cost versus flow rate and provided the following chart which shows the probable construction cost for pump stations up to 1 MGD. Based on this chart, a PS of this size will fall around \$300,000 to \$500,000, although the deep excavation of the wet-well and potential access challenges to the site would likely push that cost significantly higher, which is reflected in Parametrix’s provided cost estimate.

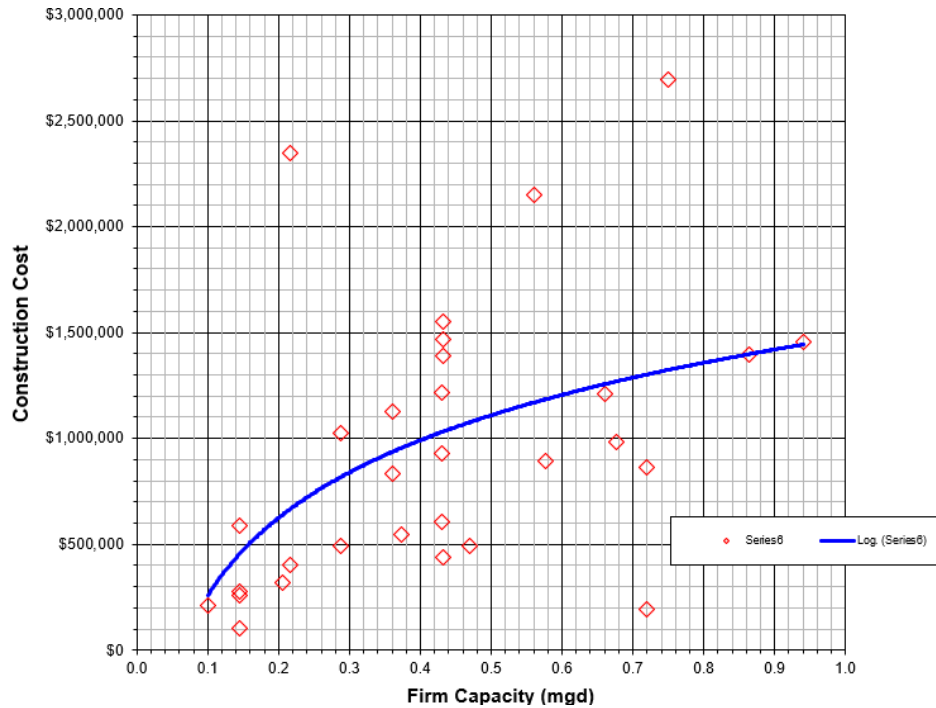


Figure 5-4. Probably Construction Cost for Raw Sewage Pump Stations up to 1 MGD

5.2 RIVER CROSSING B (SIPHON)

River Crossing B conveys flows beneath the Umpqua River using two parallel 6-inch and 8-inch siphons, which follow the same alignment as the forcemain in River Crossing B. Dual siphons are used to handle the range of flows and maintain resuspension velocities during diurnal and wet-weather peak flows. However, this configuration is not viable because the low incoming elevation of the gravity pipes on the north side of the river does not provide sufficient pressure head to discharge above the wet-well floor elevation. The layout for River Crossing B is shown in Figure 5-5.

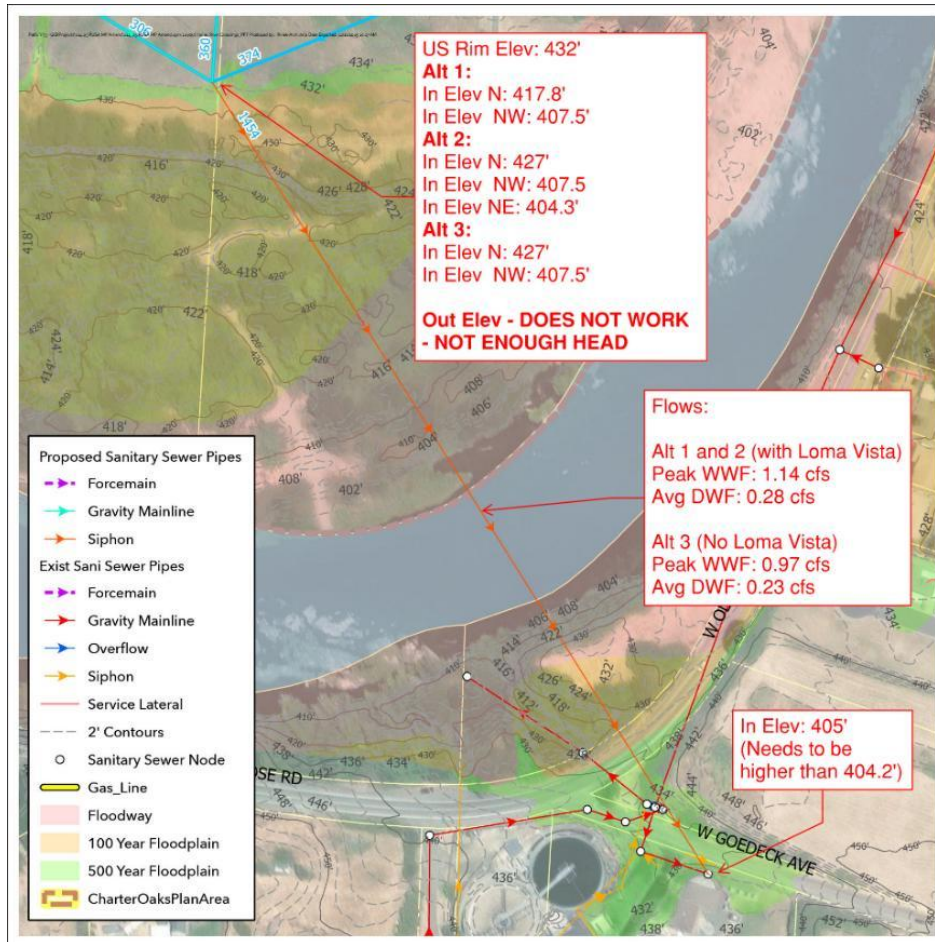


Figure 5-5. River Crossing B Overview

COST ESTIMATE

Despite not being possible, Leeway developed a cost estimate for River Crossing B since the components of the cost estimate were already developed as part of River Crossing A. Table 5-2 details the cost estimate developed for River Crossing B.

Table 5-2. River Crossing B Cost Estimate

Item	Cost
Parallel 6- and 8-inch siphon crossing	\$ 1,060,800
Subtotal Direct Construction Costs	\$ 1,060,800
Construction Contingency (40%)	\$ 424,000
Construction Total	\$ 1,484,800
Design / Planning (20%)	\$ 297,000
Construction Management (10%)	\$ 148,000
Finance / Legal / Soft Costs (5%)	\$ 74,000
Indirect Project Costs	\$ 519,000
Project Total Cost (2025 USD)	\$ 2,000,000

As shown in the table above, the total construction cost for River Crossing B is \$1,484,800 with the total project cost of \$2,000,000.

Although the costs for this river crossing is lower than that of river crossing A, the configuration is not feasible because the low elevation at the siphon influent does not provide sufficient head to convey the flow.

5.3 RIVER CROSSING C (SIPHON CROSSING WITH PUMP STATION)

For River Crossing C, flows from the southern point of the Charter Oaks area are conveyed beneath the Umpqua River using a dual-barrel siphon, similar to river crossing B. However, in this option the siphon discharges into a PS located on the south side of the river southwest of the WWTP. From the PS, flow is conveyed through a FM into the WWTP influent wet well. This configuration resolves the insufficient head issue associated with using a siphon alone for the river crossing. However, using both a siphon and a PS for the river crossing is not recommended as it is significantly more expensive to construct and maintain, and long-term operation and maintenance of siphons can be problematic. Figure 5-6 below shows the layout of river crossing C.

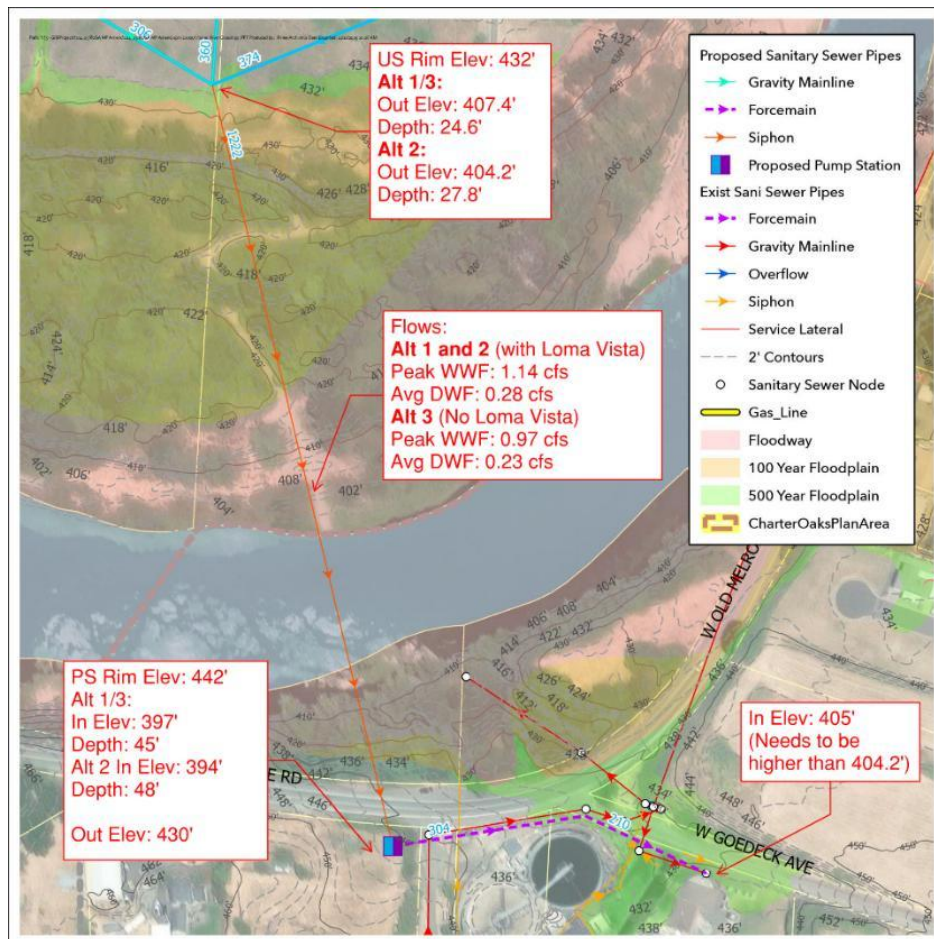


Figure 5-6. River Crossing C Overview

COST ESTIMATE

Table 5-3 details the cost estimate developed for River Crossing C.

Table 5-3. River Crossing C Cost Estimate

Item	Cost
Parallel 6- and 8-inch siphon crossing	\$ 1,060,800
New Charter Oaks Pump Station	\$ 678,000
New forcemain, 6-inch	\$ 205,600
Subtotal Direct Construction Costs	\$ 1,944,400
Construction Contingency (40%)	\$ 778,000
Construction Total	\$ 2,722,400
Design / Planning (20%)	\$ 544,000
Construction Management (10%)	\$ 272,000
Finance / Legal / Soft Costs (5%)	\$ 136,000
Indirect Project Costs	\$ 952,000
Project Total Cost (2025 USD)	\$ 3,670,000

As shown in the table above, the total construction cost for River Crossing C is \$2,722,400 with the total project cost of \$3,670,000.

5.4 SUMMARY OF RIVER CROSSING OPTIONS

Table 5-4 summarizes the Umpqua River Crossing Options.

Table 5-4. Umpqua River Crossing Options

River Crossing Options	Total Conceptual Cost
A - PS and FM to WWTP	\$2,950,000
B - Siphon to WWTP	Not Feasible
C - Siphon and PS	\$3,670,000

Leeway recommends River Crossing Option A. A gravity-conveyance option to cross the river (Option B) was determined to be infeasible. Option C is a higher cost option that will require long-term operation and maintenance of both a pump station and siphon. Option A does not utilize a siphon and is a lower cost option with lower operation and maintenance needs.

6 SUMMARY OF TOTAL PROJECT ALTERNATIVES

Table 6.1 below summarizes the project alternatives, with and without the river crossing component. All cost estimates are conceptual project costs and include indirect costs.

Table 6-1. Project Alternatives

Alternative	Total Conceptual Cost (w/o river crossing)	Total Conceptual Cost (w/ River Crossing A)
1 - Loma Vista into Charter Oaks	\$19,040,000	\$21,990,000
2 - Loma Vista along river	\$18,740,000	\$21,690,000
3 - Upgraded Loma Vista	\$13,900,000	\$16,820,000
4 - Relocated Loma Vista PS	\$14,250,000	\$17,200,000

7 RECOMMENDATION

Leeway recommends Alternative 4 for the Charter Oaks conveyance component of the project, which involves relocating the Loma Vista PS south of its current location and redirecting Loma Vista Flows into the Charter Oaks area.

Along with Alternative 4, Leeway recommends River Crossing A, which involves a PS on the north side of the river that pumps flows through a forcemain beneath the river to the WWTP.

Table 7-1 below summarizes the recommended cost estimate, with individual project components and their associated costs. The cost estimate does not include right-of-way acquisition.

Table 7-1. Recommended Project Cost Estimate

Project Component	Cost
Gravity Pipes	\$10,400,000
New Loma Vista PS and FM	\$950,000
Charter Oaks Pump Station	\$950,000
Force Main + odor control MH + gravity discharge	\$1,250,000
Construction Total	\$13,550,000
Indirect Project Costs	\$3,707,000
Total Cost	\$17,200,000

As shown in the table above, the total construction cost for the recommended project components is \$13,550,000 with the total project cost of \$17,200,000.

GENERAL MANAGERS REPORT

Date: 03/05/26
To: Roseburg Urban Sanitary Authority, Board of Directors
From: James V. Baird, General Manager
Re: General Managers Informational Report to the Board

South Umpqua Trunk South Bank Repair – Project No. 25002

The project has been awarded federal funds from the Federal Management Agency's (FEMA) Public Assistance Program. Staff are requesting reimbursement payment for the project in the amount of \$671,587.89

WWTP Solar – Project No. 24011

We are working through the permit process to have an archaeologist conduct a site investigation to meet the requirements of the State Historic Preservation Office (SHPO). We are working with Pacific Power to complete the inter-connection agreement. Ameresco has submitted the 60% plans to DEQ for review and comment. Further work on the design has been halted until the results of the Archaeological testing is completed.

Admin. Office Solar – Project No. 24012

The subcontractor has completed most of the solar system and commissioned the system. The system is currently generating power, offsetting a portion of our electricity usage. The battery is not scheduled to be delivered until April. The subcontractor will return after the battery is delivered to complete the installation.

NTS Solar -Project No. 25001

Ameresco is working on 90% plans to submit to the DEQ for engineering review. Ameresco has submitted the inter-connect agreement to Pacific Power.

Umpqua River Basin TMDL for Temperature

The DEQ has appointed me to the Rule Advisory Committee (RAC) for the Water Quality Plan to implement the Umpqua River Basin Temperature TMDL replacement. The next meeting with the RAC is scheduled for April 29th, 2026. We are working with West Yost to represent RUSA at the RAC meetings.

Emergency Declaration

Walmart MH Repair – Project No. 25006

Dyer Partnership is working through the permit process to repair the manhole.

The engineer is working on a no rise certification for the proposed work to meet the City of Roseburg requirements.

Sleepy Hollow Creek Main repair – Project No. 2500

Dyer Partnership is working through the permit process to repair the 15-inch sewer main crossing Sleepy Hollow Creek.

Goedeck Trunk Rehabilitation - Project No. 25004

Jacobs Engineering has completed their preliminary review and submitted comments. Leeway Engineering Solutions has completed 80% plans. Staff is reviewing the plans.

WRF SCADA Road Map Assessment – Project 26001

The Request for Proposals (RFP) is currently out for proposals. The deadline for submitting a proposal is March 12th. Staff will evaluate the proposals that are submitted and rank the firms that submit all proposals that meet the requirements outlined in the Request for Proposals (RFP).

ROSEBURG URBAN SANITARY AUTHORITY NEW DEVELOPMENTS AND PROJECTS

DEVELOPMENTS:

- Hanna Heritage Plaza Sewer Main Relocation-Project Complete
- Kester Road Sewer Main Extension
- Tarragon Acres
- Old Hwy99

PRELIMINARY DESIGN:

- Harvard/Maple Sewer Improvement
- Trunk Line CIPP Project
- WWTP Influent Pump Station Replacement
- WWTP SCADA Upgrade

PROJECTS:

- Deer Creek sewer trunk line rehabilitation project - Now in Warranty
- Umpqua Street Sewer Rehabilitation project – Now in Warranty
- SE Stephens Sewer Improvement-Joint Project with the City of Roseburg – Project Complete

ROSEBURG URBAN SANITARY AUTHORITY

February 2026 STAFF REPORTS

COLLECTION DEPARTMENT:

- 26 work orders completed.
- Cleaned and CCTV 7,321 feet or 1.4 miles of mainline.
- Cleaned 40,044 feet or 7.6 miles of mainline.
- 54 Manhole inspections completed.
- Completed 1 service connection.
- Repaired 1 service connection.
- Completed annual small engine maintenance.
- Responded to 3 after hours callouts.
- Completed monthly air release valve inspections and cleaning.
- Completed monthly trouble spot inspections.

ENGINEERING DEPARTMENT:

- Issued 7 permits and 4 completed inspection.
- 144 Locates Completed
- RFP for SCADA Upgrade is out to bid at the Waste Water Treatment Plant
- 50% Plans Engineering work for Goedeck Trunk Rehab-Leeway Engineering.
- Walmart Manhole Repair
- Sleepy Hollow Creek- Main Repair

FINANCE DEPARTMENT:

- Vacancy Credits: 11 were processed for a total of \$1,739.00.
- Credit cards/Echecks/debit cards: 3305 transactions totaling \$333,607.13 or approximately 32.0% of monthly billing was collected.
- Automatic Payments: 1995 customer accounts are signed up. Received \$162,051.95 or approximately 15.5% of monthly billing.



TO: Jim Baird, General Manager-RUSA
FROM: Dan Prather, Project Manager-Jacobs
DATE: March 4th, 2026
SUBJECT: Monthly Client Report for February 2026

OPERATIONAL ACTIVITIES

- All permit parameters were met this month.
- The treatment facility averaged 95% BOD removal and 94% Total Suspended Solids removal during the month with a requirement of no less than 85% removal for each.
- The facility's electrical consumption (based on meter readings) for February 2026 was 197,000 KWHRS with a total Effluent flow of 160.46 million gallons, all of which went to the river at Outfall 001. February 2025 electrical consumption was 198,000 KWHRS with a total Effluent flow of 154.93 million gallons.

PRETREATMENT ACTIVITIES

- Mailed out 10 Pretreatment surveys to local businesses.

The following pretreatment inspections were completed in February:

- Taco Time-Routine inspection, small amount of build-up around pipe, OK.
- Umpqua Dairy-Semiannual inspection found self-monitoring probe calibration off. Umpqua Dairy will reset or buy new probe.
- Mariachi Loco-Routine inspection, checked at clean out found a concerning amount of grease build-up around pipes, called left message two times waiting for a call back.
- Domino's Pizza-Routine inspection, small amount of build-up around pipe, OK.
- Alexanders Greek Cuisine-Routine inspection, checked at clean out nothing concerning.

NATURAL TREATMENT SYSTEM (NTS)

- Serviced UTVs
- Cleaned sprinkler heads

MAINTENANCE ACTIVITIES

- Maintenance Team completed **572** Preventative Maintenance items for the month.
- Maintenance Team completed **21** Corrective Maintenance items for the month.

Call Outs for the Month

- Pretreatment high channel (high flows)
- Highland pump 1 failure (pulled, checked, reset)

Current Month Lift Station Flows

- **Total Approx.** Flow from all Lift Stations for the month – **78,073,000 Gallons**
- **Average Approx.** Daily Flow from all Lift Stations per day – **2,788,000 Gallons**

Current Month Repairs

- Replaced W3 Pressure control valve
- INF Pump 1 VFD failure (reset PLC)
- Repaired coolant leak on INF Emergency Generator
- Deragged Highland pumps 2,3
- Replaced Air Compressor Differential Pilot Valve
- Removed polymer pump for replacement

LABORATORY ACTIVITIES

- We are in our normal winter testing which requires BOD's 3 times a week, TSS 3 times a week, pH daily, Chlorine Residual Daily average, Ammonia once a week, E. Coli 3 times a week.
- 96 permit tests were completed during the month.
- Lab water samples were collected and shipped on 2/4/26 to NRC for testing.
- Copper Biotic samples collected and taken to NRC on 2/10/26.
- Weekly covid samples were collected and shipped to OSU.

BIOSOLIDS

- Storing Biosolids in Bay #1
- Bay #1 is approximately 20% full
- Bay # 2 is 100% full
- Biosolids Trucks annual DOT inspections complete

UPCOMING ITEMS

- NTS improvements/repairs (Prep for season)
- Phosphorous removal testing

ENCLOSURES

12 Month Moving Avg.

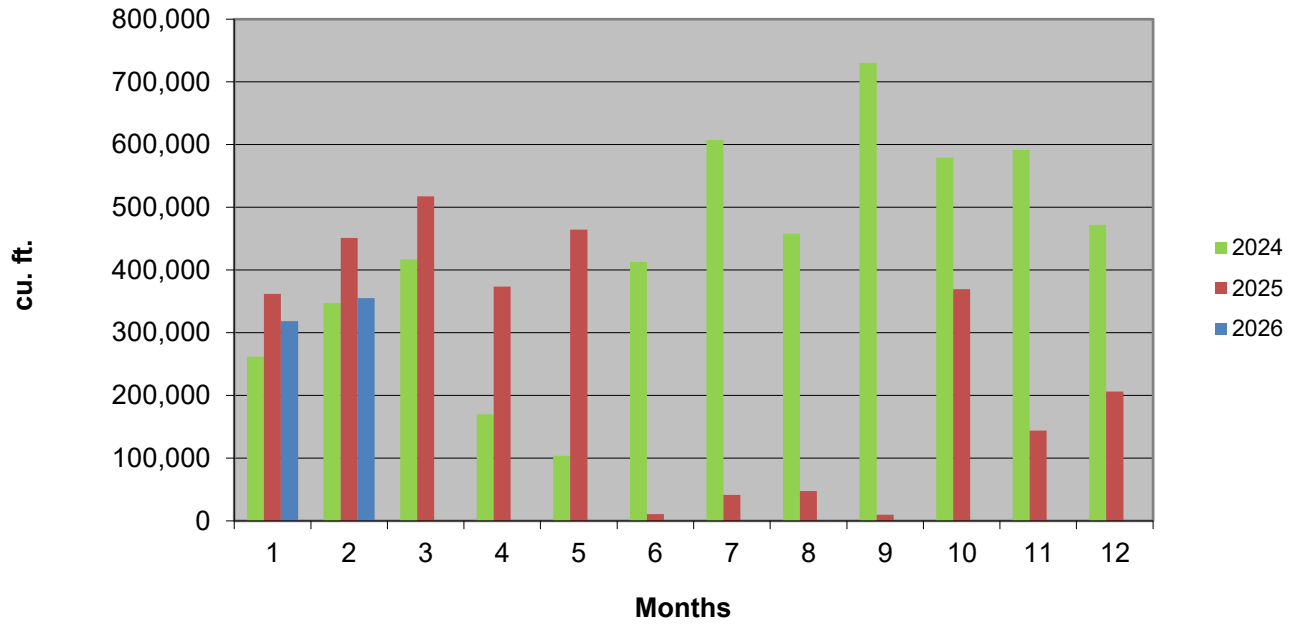
Boiler/Flare Gas Usage graphs

Influent TSS/BOD and Effluent Flow Graphs

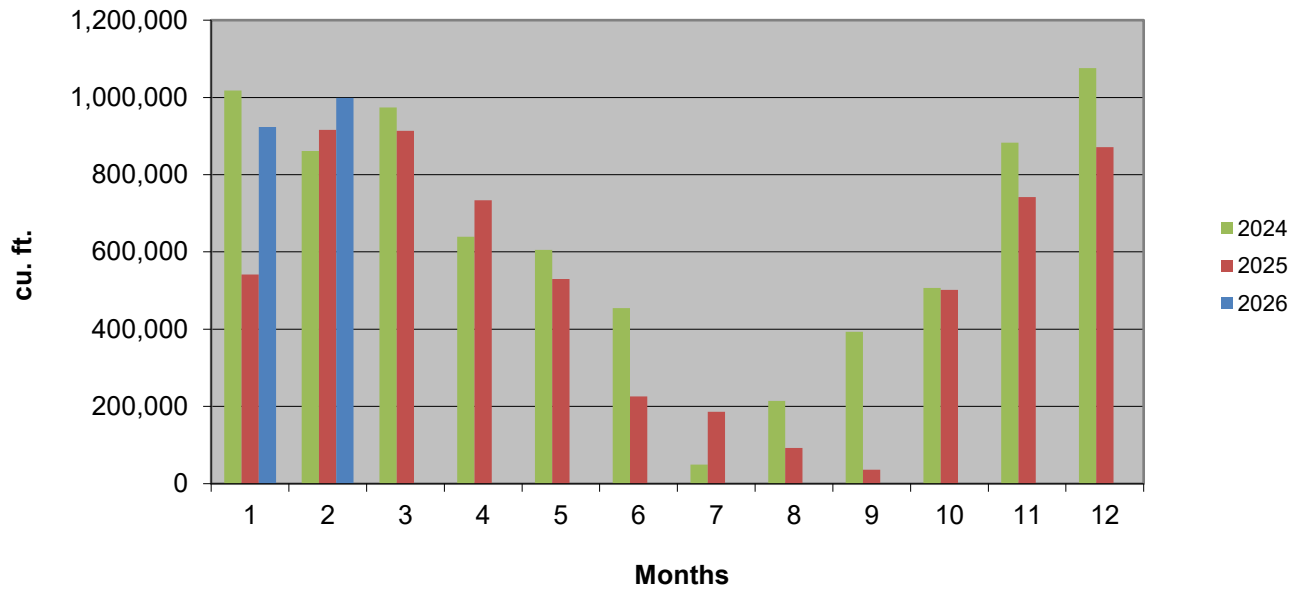
12 MONTH MOVING AVERAGES

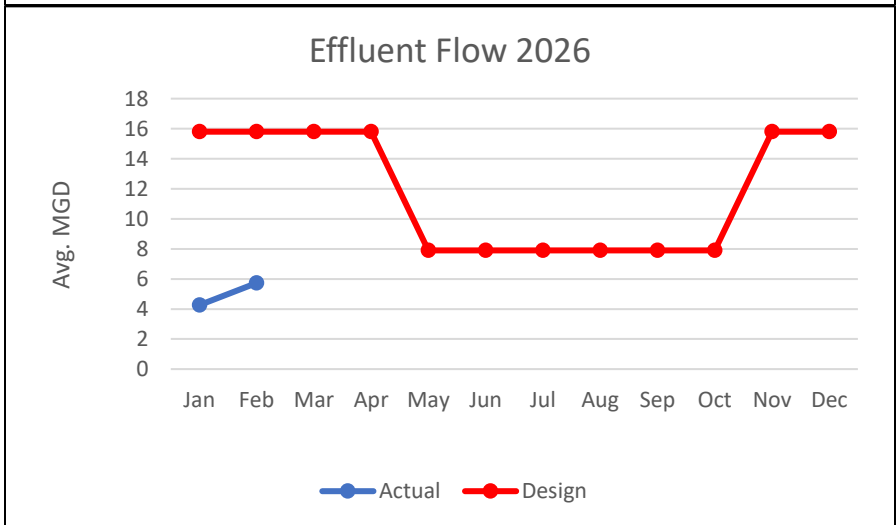
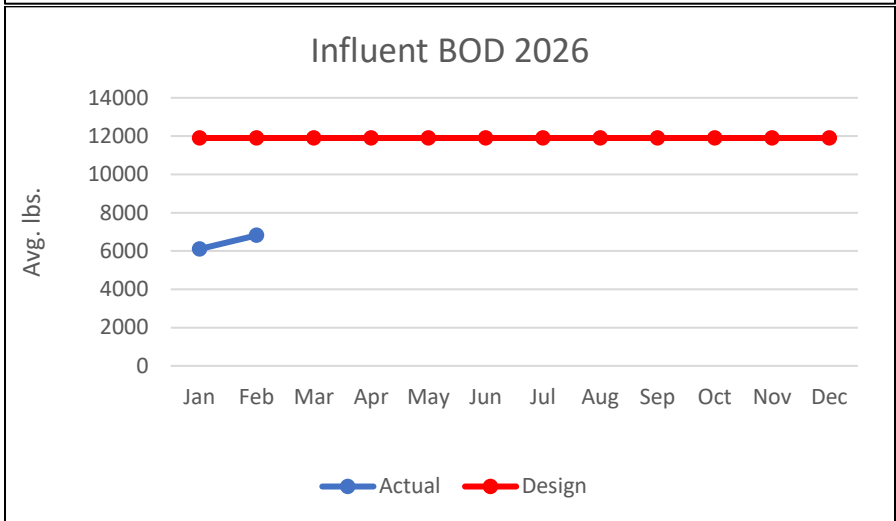
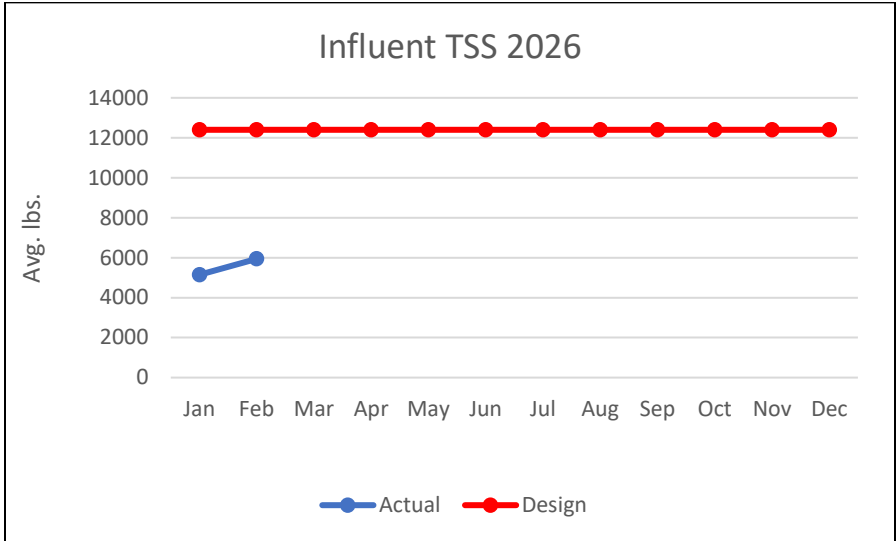
Month/Year	Plant Inf Q Average MGD	Plant Inf Average lbs/day CBOD/BOD	Plant Inf Average lbs/day TSS
Mar-25	7.39	9780	8843
Apr-25	4.54	10834	8579
May-25	3.03	8740	7915
Jun-25	2.83	7579	6765
Jul-25	2.78	6509	6088
Aug-25	2.68	7174	6706
Sep-25	2.69	7531	7180
Oct-25	2.91	5707	6337
Nov-25	3.22	6576	5452
Dec-25	4.66	6866	5876
Jan-26	4.26	6100	5145
Feb-26	5.73	6817	5939
SUM	46.72	90213	80825
AVE	3.89	7518	6735
MAX	7.39	10834	8843
MIN	2.68	5707	5145

FLARE GAS USAGE 2024 - 2026



BOILER GAS USAGE 2024 - 2026





CASH DISBURSEMENT RECAP BOARD MEETING MARCH 11, 2026

Cash Disbursements Since the Last Board Meeting

All Funds:

Total of Prepaid Checks & ACH Transactions	291,141.92
Total of Regular Checks & ACH Transactions	<u>95,979.79</u>

Total Expenditures (not including Payroll)	<u><u>387,121.71</u></u>
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Payroll:

Net Payroll - February 28, 2026	82,657.92
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All Checks & ACH Transactions since the Board Meeting February 11, 2026	<u><u>469,779.63</u></u>
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Accounts Payable

Checks by Date - Detail by Check Date

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Check No	Vendor No Invoice No	Vendor Name Description	Check Date Reference	Check Amount
ACH	02669	PERS Deposit	02/12/2026	
	JAN 26 PR	PR Batch 00001.01.2026 PERS Pick-Up	PR Batch 00001.01.2026 PER	1,825.29
	JAN 26 PR	PR Batch 00001.01.2026 OPSRP-Not W/Held	PR Batch 00001.01.2026 OPS	15,737.70
	JAN 26 PR	PR Batch 00001.01.2026 PERS - Not W/Held	PR Batch 00001.01.2026 PER	19,550.88
	JAN 26 PR	PR Batch 00001.01.2026 PERS W/Held	PR Batch 00001.01.2026 PER	6,685.75
Total for this ACH Check for Vendor 02669:				43,799.62
Total for 2/12/2026:				43,799.62
ACH	ASIFLEX	ASIFlex	02/27/2026	
	FEB 26 PR	PR Batch 00001.02.2026 Flexible Spending Acc	PR Batch 00001.02.2026 Flex	1,640.00
	FEB 26 PR	PR Batch 00001.02.2026 Dependent Care FSA	PR Batch 00001.02.2026 Dep	775.00
Total for this ACH Check for Vendor ASIFLEX:				2,415.00
ACH	CIS INS	CIS Trust	02/27/2026	
	FEB 26 PR	PR Batch 00001.02.2026 Critical Illness Insuran	PR Batch 00001.02.2026 Criti	195.50
	FEB 26 PR	PR Batch 00001.02.2026 Trauma	PR Batch 00001.02.2026 Trau	100.00
	FEB 26 PR	PR Batch 00001.02.2026 Medical Ins w/RX	PR Batch 00001.02.2026 Med	36,432.65
	FEB 26 PR	PR Batch 00001.02.2026 Life Insurance - er	PR Batch 00001.02.2026 Life	130.54
	FEB 26 PR	PR Batch 00001.02.2026 Accident Insurance	PR Batch 00001.02.2026 Acc	147.55
	FEB 26 PR	PR Batch 00001.02.2026 CCIS Insurance AD&I	PR Batch 00001.02.2026 CCI	17.60
	FEB 26 PR	PR Batch 00001.02.2026 Life Insurance - Spous	PR Batch 00001.02.2026 Life	340.31
	FEB 26 PR	PR Batch 00001.02.2026 Voluntary Life Insuran	PR Batch 00001.02.2026 Volu	1,154.20
	FEB 26 PR	PR Batch 00001.02.2026 Voluntary Dependent L	PR Batch 00001.02.2026 Volu	34.58
	FEB 26 PR	PR Batch 00001.02.2026 Dental & Vision	PR Batch 00001.02.2026 Den	3,142.61
	FEB 26 PR	PR Batch 00001.02.2026 Identity Protection	PR Batch 00001.02.2026 Iden	117.65
	FEB 26 PR	PR Batch 00001.02.2026 Short-Term Disability	PR Batch 00001.02.2026 Sho	74.48
	FEB 26 PR	PR Batch 00001.02.2026 Hospital Indemnity	PR Batch 00001.02.2026 Hos	60.50
	FEB 26 PR	PR Batch 00001.02.2026 CCIS Insurance Long-	PR Batch 00001.02.2026 CCI	173.40
Total for this ACH Check for Vendor CIS INS:				42,121.57
ACH	DNB	Internal Revenue Service	02/27/2026	
	FEB 26 PR	PR Batch 00001.02.2026 Federal Income Tax	PR Batch 00001.02.2026 Fed	9,723.56
	FEB 26 PR	PR Batch 00001.02.2026 FICA - Employer	PR Batch 00001.02.2026 FIC	7,667.93
	FEB 26 PR	PR Batch 00001.02.2026 FICA - Employee	PR Batch 00001.02.2026 FIC	7,667.93
	FEB 26 PR	PR Batch 00001.02.2026 Medicare - Employee	PR Batch 00001.02.2026 Med	1,793.29
	FEB 26 PR	PR Batch 00001.02.2026 Medicare - Employer	PR Batch 00001.02.2026 Med	1,793.29
Total for this ACH Check for Vendor DNB:				28,646.00
ACH	OR-REV	Oregon Dept. of Revenue	02/27/2026	
	FEB 26 PR	PR Batch 00001.02.2026 Oregon W/Held	PR Batch 00001.02.2026 Oreg	7,585.11
Total for this ACH Check for Vendor OR-REV:				7,585.11
ACH	PEBSCO	Nationwide Retirement Solutions	02/27/2026	

Check No	Vendor No Invoice No	Vendor Name Description	Check Date Reference	Check Amount
	FEB 26 PR	PR Batch 00001.02.2026 Roth Contribution	PR Batch 00001.02.2026 Rotl	200.00
	FEB 26 PR	PR Batch 00001.02.2026 Nationwide-Deferred C	PR Batch 00001.02.2026 Nati	4,500.00
		Total for this ACH Check for Vendor PEBSCO:		4,700.00
ACH	Express 33535351	Express Services, Inc. Student Intern - W Kinderknecht	02/27/2026	169.59
		Total for this ACH Check for Vendor Express:		169.59
ACH	Jacobs 35128938-09	Jacobs Engineering Group Inc Professional services per agreement	02/27/2026	155,039.00
		Total for this ACH Check for Vendor Jacobs:		155,039.00
		Total for 2/27/2026:		240,676.27
ACH	Pathpnt Feb 2026	Path Point Merchant Services LLC Monthly credit card merchant service fees - Feb	03/02/2026	2,739.49
		Total for this ACH Check for Vendor Pathpnt:		2,739.49
		Total for 3/2/2026:		2,739.49
ACH	Xpress INV-XPR033616	Xpress Bill Pay Web and phone transactions, maintenace and sup	03/05/2026	3,926.54
		Total for this ACH Check for Vendor Xpress:		3,926.54
		Total for 3/5/2026:		3,926.54
		Report Total (10 checks):		291,141.92

Accounts Payable

Checks by Date - Detail by Check Date

User: christine
 Printed: 3/5/2026 12:50 PM



Check No	Vendor No Invoice No	Vendor Name Description	Check Date Reference	Check Amount
ACH	AT&T x02252026	AT & T Mobility Monthly wireless telephone services	03/11/2026	468.61
Total for this ACH Check for Vendor AT&T:				468.61
ACH	Cintas 4259251217 4260760966 5318987205 9361651964	Cintas Corporation No. 3 Paper products, soap restock Paper products, soap restock Restock first aid kits 2 Waterbreak cooler agreements	03/11/2026	82.75 64.25 7.53 90.00
Total for this ACH Check for Vendor Cintas:				244.53
ACH	Jacobs 351289OS-NT-06	Jacobs Engineering Group Inc OOS NTS Monitoring and Reporting	03/11/2026	7,303.29
Total for this ACH Check for Vendor Jacobs:				7,303.29
53231	ADOBE 3377839958 Adm 3377839958 Coll 3377839958 Fin	Adobe Inc. Adobe Acrobat AI & Express - Admin staff Adobe Acrobat AI & Express - Coll staff Adobe Acrobat AI & Express - Finance staff	03/11/2026	327.90 222.40 278.00
Total for Check Number 53231:				828.30
53232	WP Feb 2026	Avista Utilities Natural gas service	03/11/2026	199.48
Total for Check Number 53232:				199.48
53233	BANNERMC AA021126 AA021326 AA021426 AA021726 CM020426 CM020526a CM020526b CM020626a CM020626b CM021526 DEV021226 DF020226 DF020326 DF020426 DF020426a DF020426b DF020526 DF020826a DF020826b	BANNER BANK Long's Flowers - Sympathy Basket - Dunn Famil Staples - Copy paper Staples - Desk for Collections Supervisor Amazon - Bank bags Rivertide Suites-SDAO Conf Starbucks-Meal SDAO- CM Starbucks-Meal SDAO Conf-DF Las Olas-Meal SDAO Conf-CM Las Olas-Meal SDAO Conf-DF Sunriver-OGFOA Conf-Christine SAFEWAY: STAFF MTG SUPPLIES LastPass - Credit (no receipt available) Teksmith - Annual fee for 11 licenses Rivertide Suites - lodging for SDAO Conference Seaside Brewery-Meal-Christine Seaside Brewery-Meal-Dave Dutch Brothers -meal SDAO Conference Panera Bread-meal-Dave-SDAO Conference Panera Bread-Meal Christine - SDAO Conferenc	03/11/2026	94.99 232.36 1,171.01 28.72 1,118.04 6.25 5.75 28.85 16.00 430.54 49.23 -612.00 110.11 702.24 18.30 21.30 5.45 11.99 13.49

Check No	Vendor No Invoice No	Vendor Name Description	Check Date Reference	Check Amount
	DF021026	Zoom - Virtual meeting software for board meeti		148.00
	DF021326	Pcloud - Cloud storage for file sharing.		29.97
	DF021326 fee	International transaction fee for Pcloud		0.27
	GO217026a	Lowes - Paint new change room		76.86
	GO217026b	Lowes - Change room sheetrock		7.58
	JAKE022626	GoodGuysGarage-2019ServiceTrk Oil&Lube		84.04
	JB013026a	Westin Hilton Head - lodging/meals		480.52
	JB013026b	PGA Tour Grill - meals		37.33
	JB013026c	Eugene Airport - Parking		133.00
	JB020226	Roseburg Chamber - Annual Awards Lunch		350.00
	JB020326	PNCWA Annual Conference Sponsorship		531.71
	JB020526a	The Farmstand - Gift Basket SDAO		40.99
	JB020526b	Sherms Thunder Bird - Gift Basket SDAO		54.74
	JB020526c	Michaels Stores - Gift Basket SDAO		43.97
	JB020826	Rivertide Suites - SDAO Conference Lodging - J		1,025.64
	JB021826	Tailwind - meal - WWETT Expo		23.68
	JB021826a	Eugene Airport - Parking - Flight to IN for WWI		12.00
	JB021926	Douglas County Planning - LUCS WWTP Solar		250.00
	JB021926 fee	Douglas County Planning - Service Fee, LUCS		8.12
	KB020326	ECOFLOW: BATTERY INVERTER FOR CCT		1,631.69
	NW021126	Safeway - Snacks for board meeting		9.00
	RC021726	ABBY'S PIZZA/SOOS MEETING - SL, RC, Jal		136.20
	RK02042026	Lnx Group, Inc-Updated Oregon Standards Spec		133.13
	RK02082026	Rivertide Suites- Room for SDAO conference		838.53
	SL020526a	The Stand - Steve Dinner @ SDAO		13.80
	SL020526b	Rivertide Suites - Steve Lodging for SDAO conf		838.53
	SL020626	Pizza A'Fetta - Steve Dinner 2nd night of SDAO		27.95
	SL021726	Summit Safety Hi Vis T-shirts		520.61
	SL021926a	Gate Depot - Gate Remotes		151.96
	SL021926b	Door Openers & More - Gate Remotes		77.50
	SO020426	Outside Pride - wildflower pollinator seeds for p		136.84
	SO022426	ULINE - Lockers for women's locker room.		924.87
			Total for Check Number 53233:	12,231.65
53234	BHEC	Bassett-Hyland Energy Company	03/11/2026	
	CL42276-IN	Fuel usage 2/1 - 2/15/26		890.23
	CL42650-IN	Fuel usage 2/16 - 2/28/26		1,063.10
			Total for Check Number 53234:	1,953.33
53235	BATT PLU	Batteries Plus #208	03/11/2026	
	P89579165	Battery tender		98.45
			Total for Check Number 53235:	98.45
53236	BIOMED	bio-MED Testing Services Inc	03/11/2026	
	123723	4 FMCSA Clearing house inquiries		32.00
			Total for Check Number 53236:	32.00
53237	CAPCON	CAP Concrete Coatings, Inc	03/11/2026	
	4812	Floor Coating for 2 rooms in shop		4,200.00
			Total for Check Number 53237:	4,200.00
53238	ORMS	Chaves Consulting, Inc	03/11/2026	
	215983	Monthly digital document storage fees		516.81
	216257	Monthly electronic document storage fees - Mar		516.81

Check No	Vendor No Invoice No	Vendor Name Description	Check Date Reference	Check Amount
			Total for Check Number 53238:	1,033.62
53239	WATER Feb 2026 Keady INV25362	City of Roseburg Water service - Keady Ct Bulk water use & permit - Jan2026	03/11/2026	56.68 127.15
			Total for Check Number 53239:	183.83
53240	DRAUTO 222403 224628	D & R Auto & Truck Supply Corp Air filter for air compressor, battery for light tow DEF fluid	03/11/2026	283.19 98.64
			Total for Check Number 53240:	381.83
53241	DJC 745845259	Daily Journal of Commerce Inc Advertise WRF SCADA Roadmap RFP	03/11/2026	181.46
			Total for Check Number 53241:	181.46
53242	UB*00101	JEFFREY & DACARI DAVIS Refund Check 003254-000, 1010 W LUELLEN	03/11/2026	52.00
			Total for Check Number 53242:	52.00
53243	DCPW 792417	Douglas County Public Works Landfill disposal fees	03/11/2026	34.78
			Total for Check Number 53243:	34.78
53244	DFN Mar 2026 Admin Mar 2026 Brbn Mar 2026 CSB Mar 2026 GateI Mar 2026 GatePh Mar 2026 High Mar 2026 Host Mar 2026 Keady Mar 2026 LV Mar 2026 NBank Mar 2026 NTS Mar 2026 Ph/Cam Mar 2026 Wilb1 Mar 2026 Wilb2 Mar 2026 Winch	Douglas Fast Net Internet Services-Admin Internet Services-Bourbon St Internet Services-Collections Storage Bldg Internet Services-NTS Gate Phone Service-NTS Gate Internet Services-Highland PS Admin Hosting Internet Services-Keady Ct Internet Services-Loma Vista P Internet Services-No. Bank PS Internet Services-NTS Phones/Security Cams Internet Services-Wilbur 1 PS Internet Services-Wilbur 2 PS Internet Services-Winchester P	03/11/2026 Service: 14806 Service: 205697 Service: 272962 Service: 271594 Service: 5413914279 Service: 105797 Service: 106289 Service: 205950 Service: 105793 Service: 237686 Service: 141784 Service: 105796 Service: 105794 Service: 105795	223.99 102.58 100.69 75.59 28.62 78.59 10.80 78.59 106.58 75.59 86.39 101.19 75.59 75.59 64.79
			Total for Check Number 53244:	1,285.17
53245	Overhead A34101	FBD, Inc. 3 - 3 button garage remotes	03/11/2026	144.00
			Total for Check Number 53245:	144.00
53246	HANDY 128232	Handyman Hardware Ratchet straps, eye bolts	03/11/2026	33.95
			Total for Check Number 53246:	33.95
53247	ICONIX U2616006939	ICONIX WATERWORKS INC Couplings for stock	03/11/2026	99.29

Check No	Vendor No Invoice No	Vendor Name Description	Check Date Reference	Check Amount
			Total for Check Number 53247:	99.29
53248	Peterbil 3006RB	Jackson Group Peterbilt 2001 5yd dump truck repair - alternator, tensione	03/11/2026	1,486.68
			Total for Check Number 53248:	1,486.68
53249	COASTAL B43128 B43185 B45712 B48223 B48563 B49044	John Deere Financial f.s.b. Vehicle cleaning supplies Work pants - RK Weed killer for NTS entry project Tool box & cutters for pipe patch kit Raingear - Dev, Raingear, Boots & Pants - BM Muck Boots - BM	03/11/2026	107.95 179.88 19.99 48.98 675.87 150.00
			Total for Check Number 53249:	1,182.67
53250	Leeway 1609	Leeway Engineering Solutions, LLC Engineering Services for Geodeck Trunk Rehabi	03/11/2026	37,546.84
			Total for Check Number 53250:	37,546.84
53251	LOWES 998706	Lowe's Sprayer for NTS entry project	03/11/2026	15.18
			Total for Check Number 53251:	15.18
53252	CMM FEB 2026	Christine Morris Mileage - CIS Conference	03/11/2026	192.56
			Total for Check Number 53252:	192.56
53253	NEILSON 98574 98858	Neilson Research Corporation NPDES Enhanced Sampling - Toxic Characteriz NPDES Enhanced Sampling - Copper Biotics	03/11/2026	4,738.00 1,592.00
			Total for Check Number 53253:	6,330.00
53254	NEXNET 28846 29018 Admin 29018 WRF	Nexcom, LLC Networking for new office spaces Monthly digital telephone services - Admin Monthly digital telephone services - WRF	03/11/2026	2,997.75 346.00 196.50
			Total for Check Number 53254:	3,540.25
53255	OCCUHLTH 99562 99782	OccuHealth Pre-employment physical for new Collections I - Vaccinations for new Collections I -OIT employe	03/11/2026	110.00 230.00
			Total for Check Number 53255:	340.00
53256	1CALL 6021096	One Call Concepts, Inc. 143 Locate Tickets	03/11/2026	225.94
			Total for Check Number 53256:	225.94
53257	OR-LIN 1351066 1356347	Oregon Linen, Inc. Laundry and mat services Laundry and mat services	03/11/2026	45.09 62.98
			Total for Check Number 53257:	108.07

Check No	Vendor No Invoice No	Vendor Name Description	Check Date Reference	Check Amount
53258	PLATT2 7C12026	Platt Electric Supply Wiring and plug for permanent wiring for CCTV	03/11/2026	75.76
Total for Check Number 53258:				75.76
53259	RSBG-AUD 43203	Roseburg Audiology Center 10 Hearing screenings	03/11/2026	500.00
Total for Check Number 53259:				500.00
53260	RSBG-DIS 1467743	Roseburg Disposal Company Monthly garbage service	03/11/2026	70.00
Total for Check Number 53260:				70.00
53261	SHRED-IT 8013449632	Stericycle, Inc. Monthly document shredding services	03/11/2026	349.95
Total for Check Number 53261:				349.95
53262	TEKMAN 103649 103649 103649 103649 103649 103649 103649 103649 103649	TEKMANAGEMENT, INC. Cloud storage-server backups Penetration Testing Secure Multi-Factor Authentication \$91.20/mo NinjaOne for Workstations and Phones billed at : Server Maint & monitoring Backup & Recovery Services Encryption of laptops Priveleged Access Mgmt Software DNS Filter (security)	03/11/2026	108.00 253.84 91.20 400.00 1,707.70 565.00 107.25 39.60 32.00
Total for Check Number 53262:				3,304.59
53263	DYER 41054 41055	The Dyer Partnership Engineers & Planners Pre-design, design storm damage repair main Sle Walmart Manhole: Pre-design and design to repa	03/11/2026	2,775.00 960.00
Total for Check Number 53263:				3,735.00
53264	THMSCRK 1750	Thomas Creek Landscaping & Maintenance Monthly landscape services	03/11/2026	350.00
Total for Check Number 53264:				350.00
53265	UBWA Feb 2026 411LM Feb 2026 606LM Feb 2026 Brbn	Umpqua Basin Water Association Water - 411 Long Meadows Ln Water - 606 Long Meadows Ln Water - 310 Bourbon St	03/11/2026	28.16 28.00 28.00
Total for Check Number 53265:				84.16
53266	UMPS&G 4078856 4085241 4085243 4085248 4085543 4086024 4086743	Umpqua Sand & Gravel Gravel for stock Rock for NTS roads Rock for NTS roads Rock for NTS roads Rock for NTS roads Rock for NTS roads Rock for NTS roads	03/11/2026	289.58 907.36 95.98 234.85 1,009.81 972.00 1,062.79
Total for Check Number 53266:				4,572.37

Check No	Vendor No Invoice No	Vendor Name Description	Check Date Reference	Check Amount
53267	MOTORSP 81331	Zoom Motorsports CB and strobe install on 2025 5yd Dump Truck	03/11/2026	980.20
Total for Check Number 53267:				980.20
Total for 3/11/2026:				95,979.79
Report Total (40 checks):				95,979.79