



CITY OF ASTORIA

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MEMORANDUM • PUBLIC WORKS DEPARTMENT

DATE: JANUARY 21, 2025
TO: MAYOR AND CITY COUNCIL
FROM: SCOTT SPENCE, CITY MANAGER
SUBJECT: PUBLIC WORKS STATUS UPDATE

Following are summaries of the status of Public Works major projects and activities:

WATERSHED

Watershed Road System

- Routine road maintenance – Our Water Source Operator has been conducting routine road system maintenance.
- Cedar Creek Bridge Project (ON HOLD)
 - Staff and the City Forester, Ben Hayes, developed a concept plan for the replacement of the failing Cedar Creek road crossing within the City watershed. The concept plan included a new bridge crossing along the existing road alignment. Updated estimates for the construction increased dramatically (\$500,000 +/-) due to inflation, so this option has been taken off the table. The Oregon Department of Fish and Wildlife (ODFW) has also determined that the bridge project would not qualify for mitigation for the Spur 12 culvert project.
 - The City Forester is working with the Oregon Department of Forestry and ODFW on a new option for meeting our mitigation obligation, which will most likely include some form of culvert replacement project in our watershed.
 - Options for the road crossing and failing culvert problem are being investigated and may include a more cost-effective option of removing the creek crossing, restoring the streambed, and developing a simpler crossing at another location.

WATER SYSTEM

16th Street Distribution Waterline Project (ARPA Grant Project)

- The grant agreement with the Infrastructure Finance Authority (IFA) has been approved.

- HDR Engineering was awarded the engineering services contract.
- The CMGC contract was awarded to Emery & Sons Construction Group, and the GMP has been approved by City Council.
- Initial construction activity is anticipated to start in Spring 2025.

Pipeline Road Waterline Resilience Project (ARPA Grant Project)

- The grant agreement with the Infrastructure Finance Authority (IFA) has been approved.
- Tetra Tech was awarded the engineering services contract.
- Tapani, Inc. was awarded the construction contract.
- Construction activities are scheduled to begin in early February.
- Additional scope to increase the pipe length is currently being designed.

Irving Ave from 20th St to 28th St Waterline Project (Congressionally Directed Spending)

- The project will replace an existing 6-inch cast iron waterline that is nearly 100 years old with a new 12-inch pipe constructed of modern resilient materials.
- The City was notified by U.S. Senator Jeff Merkley's office that \$1.8 million in grant funding has been allocated for this project.
- Staff has obtained a waiver for the 25% match portion of this grant, resulting in a 100% grant-funded project.
- Staff will be working on the application submittal as time permits.
- Further updates and details will be provided to City Council as they become available.

Automated Water Meter Reading (AMR) System Project

- The Public Works Department has completed the installation and implementation of the new AMR system for downtown and large commercial customers.
- City Council approved a strategy to purchase and install AMRs over a 4-5 year period. We have budgeted \$200,000 this fiscal year for new meters and plan to budget \$200,000 each fiscal year to install the meters over time.
- Residential AMR water meter replacement is underway.

Old Highway 30 – Emergency Waterline Relocation Project

- *No status change since the last update.*
- The Department of Labor plans to complete landslide mitigation work immediately adjacent to a City-maintained waterline along Old Highway 30. The City needs to relocate the waterline pipe to accommodate their construction project and minimize potential damage.
- Engineering staff has finalized the waterline plans.

- We are working with the City Attorney to coordinate an agreement for the relocation of the utility with the Department of Labor. The Department of Labor has indicated that the landslide mitigation work has been postponed due to funding. The City has not been able to finalize the agreement with the Department of Labor at this time.

Dam Safety Program Projects, Bear Creek Dam Emergency Spillway, Main & Wickiup Dam seismic Studies (Oregon Water Resources Grant Projects)

- At the August 19, 2024, City Council work session, the Public Works Director presented the current status of all activities involving the Oregon Dam Safety Program compliance efforts. Following is the status of all activities taking place within the program:
 - o Emergency Action Plan – Completed in 2012
 - o Bear Creek Dam Seismic Study – Completed in 2016
 - o Design Inflow Hydrology Report/Probable Maximum Flood (PMF) determination – Completed in 2021
 - o Scour Analysis of flood overtopping dam – Completed in 2022
 - o Bear Creek Dam Leak Investigation & Repair – Completed in 2022
 - o Design Study of Alternatives for Emergency Spillway – Completed in 2024
 - o Final Design of selected emergency spillway alternative – On hold pending funding source
 - o Seismic Study of Wickiup Lake Dam – In progress
 - o Seismic Study of Middle Lake Dam – In progress
 - o Repair of Wickiup Lake conduit and control structure – Planned to be completed within the next 2 years
 - o Repair of Main Lake conduit – Planned to be completed within the next 3 years
 - o The City will enter into a Consent Order with the State, which will outline the specific corrective actions and schedule for implementation. We are currently waiting on OWRD for the final order.

Skyline Place Waterline Improvement Project

- *No status change since the last update.*
- This project will replace two 2-inch water lines that serve the Skyline Place neighborhood. It will also reroute several water services that are currently inaccessible in that area.
- The project is nearing final design but has been placed on hold due to other water improvement priorities.
- City secured an easement with adjacent property owner for the project.

SANITARY SEWER SYSTEM

COVID-19 Wastewater Monitoring

- Staff is still providing COVID-19 testing results from the City Wastewater Treatment Plant (WWTP) for the Oregon Health Authority (OHA) Program. OHA has launched a statewide COVID-19 wastewater-monitoring project to study the presence of the SARS-CoV-2 virus in more than 40 small- to medium-sized communities around the state. The project, which will include weekly wastewater testing over a 30-month period, will enable epidemiologists to better understand the circulation of COVID-19 in some of Oregon's communities. It will serve as an "early warning" system to detect if COVID-19 is spreading silently in communities. Staff is now receiving feedback from the program. According to the wastewater monitoring data, the viral concentration rates at the WWTP have plateaued.
- Staff will be meeting with staff from the program (OSU) and County Community Health staff in the near future to review the program and discuss the future use of the data collected.

Industrial Pretreatment Program

- *No status change since the last update.*
- The City identified industrial user loads that were causing issues at the wastewater treatment plant and in the sewer collection system, which necessitated the development of an Industrial Pretreatment Program.
- Pretreatment Ordinance No. 22-10 was adopted on May 16, 2022.
- Resolution No. 22-21, establishing conditions for the waste allocation to the fermentation beverage industry sector, was adopted on June 20, 2022.
- The new sewer rate structure became effective on January 1, 2024.

Wastewater Treatment Plant Improvements Project (ARPA Grant Project)

- *No status change since the last update.*
- No status change since the last update.
- Gibbs & Olson was awarded the engineering services contract.
- The grant agreement for the ARPA funding of \$4,860,000 has been fully executed.
- The Funding Agreement with OBDD was fully executed in May 2024, which includes a \$425,000 grant and a \$2,006,500 loan.
- Funding Agreement Amendment No. 1 with OBDD for an additional loan amount of \$2,527,732 was authorized by City Council on September 23, 2024.
- Big River Construction was awarded the construction contract.
- Construction will begin in the spring of 2025.

Floral Ave. Sanitary Sewer Project

- Staff is working on project close-out documentation at this time.
- All impacted residents are connected to the new sanitary sewer pipe and Public Works is working to remove temporary piping.

Melbourne Ave. SS Replacement Project

- *No status change since the last update.*
- This project includes replacement of approximately 120 feet of deteriorated sanitary sewer pipe on Melbourne Ave.
- This project has temporarily been placed on hold to accommodate other project priorities.

Sewage Lift Stations Rehabilitation Project

- Three sewage lift stations have been maintained for approximately 50 years with uninterrupted use. Recent maintenance activity is exceeding normal levels due to the components being beyond their design life.
- Design phase funding agreements were authorized in May 2024: 1) OSG grant amount of \$185,880 and 2) DEQ CWSRF loan amount of \$119,920 with 50% principal forgiveness.
- DEQ has offered an additional OSG grant in the amount of \$150,000. The funding agreement is included in the current City Council packet.
- Richwine Environmental is finalizing a preliminary engineering report.

COMBINED SEWER OVERFLOW (CSO) SYSTEM

CSO Program

- Staff is finalizing an Integrated Plan that will be presented during the January City Council work session.
- No construction will take place this year.

TRANSPORTATION SYSTEM

Emergency Bank Stabilization Project

- As a result of king tides and a windstorm at the end of December 2022, the Columbia River bank adjacent to the River Trail experienced extensive erosion that requires immediate attention.
- The project has been completed by Big River Construction and the City is working on close-out administrative tasks.

OR202 Sidewalk Project: Dresden – 4th Street (ODOT Grant)

- ODOT funded approximately 90% of the project cost, and ODOT staff designed the project, including all permitting and right-of-way acquisition.
- ODOT awarded the construction contract to Big River Construction.
- The project included new sidewalk and drainage improvements on the north side of OR202 from the Astoria High School (AHS) driveway to Hanover St.
- Construction is complete, and AHS students joined the ribbon-cutting event on November 13, 2024.



23rd Street Rectangular Rapid Flashing Beacon (RRFB) Project (ODOT Grant)

- The project has been completed and is functional.
- Staff is working on final project documentation and grant reimbursement tasks.

6th Street Waterfront Bridge Cathodic Protection Repair Project

- Norton Corrosion will be performing inspections in mid-January to assist with development of the repair scope of work.

15th Street Railroad Crossing Project

- North Pacific Excavation and the Riverfront Trolley Association (RTA) completed improvements on the 15th Street railroad crossing in December.
- The RTA is continuing to repair track and ties in the area, and is nearing completion.

City and Hwy 30 Chairwall Issues

- *No status change since the last update.*
- The City of Astoria has a downtown where the roadways are supported by a wall system commonly referred to as a Chairwall system built in 1919 and 1922.
- US Hwy 30 through town is supported by the wall system between 5th Street and 17th Street.

- There are two locations where the wall system supporting Highway 30 is failing. The first location is on Marine Drive between 9th and 10th Streets and the second location is between 16th and 17th Streets.
- Staff has communicated with ODOT regarding the need to repair the failing wall segments supporting the highway. ODOT has informed staff that they will route oversized loads away from the wall segments through their oversized freight traffic permit process.

Trolley Infrastructure Maintenance Planning

- The City will work with the Riverfront Trolley Association (RTA) to update the operational agreement that guides the use of the tracks and associated infrastructure.
- The Riverfront Trolley Association (RTA) has worked diligently to repair several track deficiencies identified by the Oregon Department of Transportation (ODOT) Rail Division during their inspection. This effort has included the replacement of numerous deteriorated railroad ties. The City has partnered with the RTA to ensure that materials and equipment are available for maintenance work, yielding very positive results. Currently, no identified issues will prohibit the Trolley from operating.
- The City and the RTA are collaborating on a project to replace the 15th Street rail crossing to address both rail and roadway deficiencies.

STORM SYSTEM

Pre-Disaster Landslide Storm Drainage Project (FEMA & IFA Grant)

- SLE, Inc. completed construction and the City is currently working on project close-out documentation.

SANITATION

Landfill Post-Closure Activities

- Household Hazardous Waste Facility: Staff will continue to work with County staff on DEQ gas monitoring requirements.
- Staff is continuing to work with the Oregon Department of Environmental Quality (DEQ) on post-closure activities, including gas and groundwater monitoring. A final permit has been issued, and staff is currently working on the final document requirements for the site. Once all operation manuals are complete, staff will proceed with the annual reporting required for the term of the post-closure period.

- During periodic utility inspections, it was determined that a critical stormwater pipe through the site was showing signs of failure. Staff is developing a plan to replace the pipe and will monitor its condition in the meantime. Funding for this project has not yet been identified.
- The Astoria School District addressed asphalt settlement issues near the concessions area by replacing the asphalt with reinforced concrete.
- Staff is working on a Landfill Closure Permit renewal. The term of the permit is ten years, and the current permit will expire on December 31, 2025. The renewal application is due by June 1, 2025.

FACILITIES

LED lighting at City Hall

- *No status change since the last update.*
- Staff is working with the Energy Trust of Oregon and their contract electrician to develop a strategy for replacing all of the City Hall overhead lights with LED lighting. The project will involve both fixtures and simple bulb replacements.
- The work is budgeted for fiscal year 2023-24.

LANDSLIDE RESPONSE AND UTILITY REPAIR

27TH Street and Grand Avenue Landslide

- Engineering Division staff are currently working with a consultant on a design to restore infrastructure in the area.
- Stop-gap repairs have been completed on the sanitary sewer pipe and storm drain flume system.
- Completion of more permanent repairs is anticipated in late summer 2025.

PUBLIC WORKS ENGINEERING

Development Review Workload

- *No status change since the last update.*
- In calendar year (CY) 2025, the Engineering Division expects a significant workload associated with construction coordination on several large commercial projects approved last year. The volume of development review-related tasks remains high. We are working on ways to increase review efficiency and minimize impacts on Public Works priorities. However, work associated with development review is expected to substantially impact staff resources available for capital improvement projects this year.

- We anticipate the need to coordinate, review, and oversee construction on nearly \$300 million in private development within the next year.

GIS Updates

- Staff have continued to make progress on developing the public works infrastructure system in GIS. We have also been working on our mobile application for both staff and public use.
- Staff have been developing a GIS solution for more streamlined management of Oceanview Cemetery.
- GIS staff will be developing a UAV (drone) program to add aerial imagery and other associated resources to the City.
- Operations staff are using tablets in the field, which makes their access to GIS data more efficient and helpful. They are planning to procure more tablets to expand the beneficial use of the system by additional operational field staff.

PUBLIC WORKS OPERATIONS

The following items highlight some of Operation's recent work:

Personnel and Training:

- Field Operations Manager Ole Gifford retired on 12/31/24 after 38 years with the City of Astoria.
- Levi Greer was promoted to Field Operations Manager on 12/1/24.
- New Utility Worker Justin Lucas was hired on 10/15/24.
- Eric Bufkin obtained Wastewater Collections III certification.
- Caleb Laws obtained Water Distribution I certification.
- Public Works Operations and Engineering staff engaged in two OSHA 10 safety training sessions with the proprietor of Risky Business, Inc.
- Eric Bufkin and Levi Greer attended the "HR & Manager Crash Course," a 14-hour training.
- Justin Lucas completed Competent Person training online.
- Nate Bartlett obtained Water Operator recertification following attendance at the OAWU End-of-Year Operators' Conference.



- Staff engaged in vector trailer training and demonstration at Public Works Shops.
- Bret Stevens, Arthur Judd, Caleb Laws, and Justin Lucas participated in de-icing best practices training held at ODOT offices in Astoria.
- Safety training reviews were provided for staff in front-end loader, sander, and chainsaw operation best practices.
- Staff reviewed respirator use best practices and the Public Works Respiratory Protection Program.
- Equipment Mechanic Nathaniel Van Dyke resigned his position on 11/15/24.

Water:

- All reservoirs and the Skyline Tank were inspected by divers and the Skyline Tank was cleaned.
- A major water leak was repaired on the 10-inch main at 38th St. and Lief Erikson Dr.
- Fifteen water leaks/main breaks were repaired.
- A new blow-off and service were installed at 1039 Irving Ave.
- Four disabled fire hydrants (8th & Bond St., and 18th, 20th, and 21st at Exchange St.) were restored to service.
- Crews completed the installation of 104 new AMR meters, concentrating efforts in the Alderbrook Neighborhood.
- A new, larger pump was installed and put into service at Reservoir #3 chlorinator.
- Results of the lead service line inventory were made public via the Daily Astorian and the City of Astoria website.
- Chlorine sensors were calibrated, and all four sand filter cells were cleaned at Headworks.

Sewer:

- Equipment at the Wastewater Treatment Plant, Mill Pond Pump Station, and Pump Stations #1 and #6 was winterized.
- The wet well at Pump Station #1 was cleaned three times, and the dry well was cleaned once; pump one was reinstalled following outside service and returned to operation.
- The wet well at the Mill Pond pump station was cleaned.
- The belt guard on the pump at Pump Station #5 was repaired.
- The shaft and mechanical unit on the sluice gate at the Denver Storage Facility were inspected.
- The bisulfite line at WWTP was replaced due to a large plug; used pex and installed larger-diameter line to increase resistance to freezing and clogging.
- Eleven work orders to TV sewer mains were completed.
- The sewer line on Washington St. was inspected from two directions to determine the reasons for frequent sinkholes; issues discovered included a sagging pipe section, minor joint separations, and debris requiring flushing.
- Numerous problems were found in the sewer main at 14th and Duane St., including cracked pipe sections, holes, joint separation, and sagging structure preventing a full inspection.

- A cracked and collapsed sewer pipe with 90% blockage was discovered between manholes on 32nd St. between Franklin Ave. and Marine Dr., with repairs to be effected later.

Stormwater:

- The TV camera was used to inspect a report of stormwater spilling out of a manhole at Alameda Ave. and Hyten Ct.; debris and wooden boards blocking an outflowing pipe were removed using a vactor and extension grabber, and the line was flushed.
- The storm line at 110 South Pl. was cleared, TV'd, and dye-tested to explain a nearby sinkhole; it was determined that the pipe and catch basins needed substantial repair, but the sinkhole was unrelated.
- Eighteen feet of 10-inch 3034 pipe were installed to connect the existing HDPE storm line from Irving Ave. to the manhole at the end of 27th St. adjacent to Grand Ave., and excavation behind 757 27th St. was done to lay the flume flush.
- Catch basins and storm inlets were cleared and cleaned in all city zones.

Transportation:

- Thermoplastic crosswalks and/or street markings were installed at 15th and Commercial St.; 10th and Duane St.; 14th and Marine Dr.; 10th and Franklin Ave.; and 1001 W. Marine Dr. at the entrance to Astoria High School.
- The berm in front of the driveway at 244 W. Exchange St. was rebuilt to prevent rainwater from pooling and flowing into the resident's garage.
- A bulb was replaced at 12th and Duane St. to reactivate a decorative street light, and Bogh Electric was worked with to convert the street light between Marine Dr. and Steam Whistle Way to LED and reactivate it.
- Large potholes were filled, and brush and debris were removed at 29th and 30th Streets adjacent to Riverwalk.
- Twenty-one work orders were completed, including potholes, signs, street sweeping, and dead animal removal.

Shop and Yard:

- Installed "Exit" signs and safety lighting at Public Works Shops.
- Performed maintenance on the DEF pump in the Public Works gas shack.
- 234.5 hours of interdepartmental vehicle maintenance (AFD, APD, Parks) were performed.
- Possession of a 2024 Ring-O-Matic hydro-excavating trailer was taken, purchased through NW Hydrovac Corp. (\$142,133.82).
- The Hofmann/Monty 1565 Tire Changer Machine was declared surplus.

Miscellaneous:

- Removed the exhaust fan and ductwork at Fire Station #2, installed a new fan and ductwork, and constructed and installed a transition fitting for the fan.

- Installed three fire extinguishers and an AED box in the temporary Public Library building.
- As part of a Mutual Aid Agreement, staff responded on-call with the City of Astoria vactor to assist the City of Warrenton in pumping their lift stations during an overnight power outage and mechanical failure of their vactor.
- Backup bumpers were installed in the parking area of the Emergency Services Building for APD.
- Parks & Recreation staff were assisted in removing and cleaning a transient camp located at 39th St. and Lief Erikson Dr.
- Two new supports were installed for the southeast corner of the chairwall while re-shoring existing supports at Heritage Square.
- The standpipe and all bollards on the 17th St. Dock were replaced and refurbished.
- Ed Karl traveled to Appleton, Wisconsin, with AFD personnel to assist with the purchase of a new city fire truck.
- Staff began work with new Rio telemetry software for the Water Department.
- Workers hung holiday lighting at City Hall, downtown Astoria, and installed the City Christmas holiday tree.

BY: JEFF HARRINGTON, PUBLIC WORKS DIRECTOR

SUMMARY OF INFRASTRUCTURE GRANTS AWARDED

Staff has dedicated many hours of hard work to securing and administering grant funding for projects that would have otherwise been funded by incurring debt service, resulting in subsequent rate increases. Since 2006, Public Works has secured or assisted with approximately \$50 million in grant funding for the City.

**Funding source for the following projects: American Recovery Plan Act (ARPA) Discretionary Funds*

GRANT FUNDED OR202 Waterline Replacement Project - \$1,772,000

This project replaced an undersized older waterline that runs along the project limits of the recent OR202 Sidewalk Project. The pipe had to be replaced before repaving the highway adjacent to the new sidewalk between the Short Stop Market and Astoria High School. **[PROJECT COMPLETED]**

**Funding source for the following projects: American Rescue Plan Act Coronavirus (ARPA) State Fiscal Recovery Fund Grants administered through Infrastructure Finance Authority (IFA)*

GRANT FUNDED Wastewater Treatment Plant (WWTP) Improvements Project - \$4,860,000 (ARPA Grant) + \$425,000 (OBDD Grant) + \$4,959,232 (OBDD Loan)

The Wastewater Treatment Plant upgrades, which include flow measurement, screening, influent grit removal, and pond baffles, have been in the works for many years.

GRANT FUNDED Pipeline Road Waterline Resilience Project - \$2,930,000

This project includes re-aligning some of the most landslide-prone sections of our transmission main to more stable ground. This will be the start of many other project recommendations made in our Pipeline Road Transmission Main Resilience Study.

GRANT FUNDED 16th Street Distribution Waterline Project - \$2,790,000

This project is the first section of our water distribution piping leaving Reservoir 2 and feeding a large section of the City including downtown and the Port area. The pipe was constructed in 1895 and runs through a tunnel from Reservoir 2 to 16th and Jerome Street.

**Funding sources for the following projects: FEMA Oregon Legislative Pre-Disaster Mitigation (LPDM) Funds and Infrastructure Finance Authority (IFA)*

GRANT FUNDED Pre-Disaster Landslide Storm Drainage Project - \$902,487.50

(75% or \$676,875 FEMA grant funded with 25% or \$225,615 City match funded by IFA) This project included two of six landslide areas identified for storm pipe replacement of

pipe placed in the early 1950s after three very large landslides destroyed many homes along the north slopes of Astoria. **[PROJECT COMPLETED]**

**Funding source for the following projects: Oregon Department of Transportation*

GRANT FUNDED OR 202 Sidewalk Project - \$4,172,000 (90% or \$3,743,450 grant funded with 10% or \$428,550 City match)

This project consisted of the construction of a new sidewalk and drainage infrastructure between Hanover St. and the Astoria High School. This area is experiencing high pedestrian volumes where walkers and bicyclists have to navigate the highway shoulder around a curved roadway. **[PROJECT COMPLETED]**

GRANT FUNDED Marine Drive and 23rd Street Crosswalk Enhancements Project - \$200,000

This project provided a Rapid Flashing Rectangular Beacon and crosswalk enhancements at the request of the CO-OP and Columbia Memorial Hospital, both of which have resulted in increased pedestrian activity at the crossing. **[PROJECT COMPLETED]**

**Funding source for the following project: Oregon Department of Water Resources*

GRANT FUNDED Bear Creek Dam Spillway Pre-design - \$140,000

The second phase of the spillway study will eventually result in meeting a requirement of the Oregon State Dam Safety Program that requires our High Hazard Dam to have the capability of passing a probable maximum flood event over the dam without causing damage to the dam and without reducing the dam's seismic stability.

**Funding source for the following projects: Congressional Directed Spending*

GRANT FUNDED Irving Avenue (20th - 28th St.) Waterline Resiliency Project - \$1,894,662

This project will upgrade 2,800 LF of old 6-inch cast-iron water pipe to new resilient 12" HDPE pipe from 20th Street to 28th Street along Irving Ave. and will provide a critical alternate route for over a mile of the City's 21-inch transmission main that connects Reservoirs 2 and 3 through several landslide-susceptible areas. The existing pipe was installed in 1928 and 1970 and is aligned through several mapped landslide areas.

**Funding source for the following projects: Department of Environmental Quality (DEQ)*

GRANT/LOAN FUNDED Sewer Lift Stations Rehabilitation Project - \$3,670,000

The City has three sewage lift stations that convey sewage around Astoria, starting on the Young's Bay side of town and heading to the wastewater treatment plant on the east

side. Built in the early 1970s, these lift stations are in dire need of an overhaul, with breakdowns occurring periodically and costly repairs burdening our budget.

For the design phase, DEQ awarded a \$185,880 grant through their Overflow Sewer & Stormwater program and a loan of \$119,920 with 50% forgiveness (grant) through their Clean Water State Revolving Fund (CWSRF). **Staff has applied for a DEQ loan for \$3,370,000 for the construction phase, which, we anticipate that half of the loan (\$1,685,000) amount will be a forgivable loan (grant).**

PROJECT LIST FOR FUTURE GRANT/LOAN REQUESTS

AWAITING FUNDING OPPORTUNITY Water System Clearwell Project - \$6,000,000

This project would improve operations at the water treatment facility and provide updated laboratory facilities. A study was completed in 2018 identifying the project's purpose, scope, cost and benefits.

AWAITING FUNDING OPPORTUNITY Phase 5 CSO Program Projects - \$18,000,000

Grant funding for the remaining CSO program projects would reduce the length and amount of future CSO surcharge rates for the ratepayer. While this amount of grant funding is not highly likely, we will continue to look for funding opportunities.

AWAITING FUNDING OPPORTUNITY Irving at 33rd Street Bridge - \$6,000,000

Public Works staff has applied for funding for our last of nine City-owned bridges twice but have not been awarded funding for this existing timber bridge built in 1951. Once federal stimulus funding works its way down to the Oregon Department of Transportation Local Bridge Program, it is our hope that the bridge replacement will be funded. Past bridge funding has consisted of 90% grant and 10% City match. **Staff will be submitting an application due October 16th, 2023, but our consultant who is assisting with the application anticipates that our project may not qualify for this round of funding.**

AWAITING FUNDING OPPORTUNITY Denver and Alameda Sidewalk Project - \$960,000

This project is a transportation safety project identified in the City Transportation System Plan (TSP) as a priority sidewalk project linking neighborhoods above Tapiola Park and the Astoria High School to the Hwy 202 sidewalk corridor.