



CITY OF ASTORIA

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MEMORANDUM • PUBLIC WORKS DEPARTMENT

DATE: OCTOBER 20, 2025
TO: MAYOR AND CITY COUNCIL
FROM: SCOTT SPENCE, CITY MANAGER
SUBJECT: PUBLIC WORKS STATUS UPDATE

The 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.
- 2025 Bear Creek Watershed Forest Carbon Project
 - The City of Astoria launched a voluntary forest carbon project in 2015 to generate revenue through carbon credit sales. To date, the project has generated approximately \$837,500 in net proceeds from two credit issuances.
 - On April 7, 2025, Council reviewed the FY 25/26 Annual Operating Plan, which highlights the carbon project as a key priority. The project is now undergoing its required five-year reverification under the American Carbon Registry (ACR).
 - The reverification could result in the issuance of 40,000 additional credits, potentially generating \$400,000–\$600,000 in revenue.
 - A \$70,000 contract with David Ford (L&C Carbon) was approved and executed on August 4, 2025, to manage the reverification and carbon inventory.
 - An RFP for third-party verification services was issued in July; Aster Global Environmental Solutions Inc. was selected.
 - David Ford is currently developing the scope of work for the carbon inventory phase.
- Cedar Creek Bridge Project (ON HOLD)
 - City staff and City Forester Ben Hayes developed a concept plan to replace the deteriorating Cedar Creek road crossing within the City's watershed. The plan proposed constructing a new bridge along the existing road alignment. However, updated construction cost estimates have increased significantly (approximately \$500,000) due to inflation, making this option financially unfeasible. Additionally, the Oregon Department of Fish and Wildlife (ODFW) determined that the bridge project would not qualify as mitigation for the Spur 12 culvert project.

- The City Forester is now collaborating with the Oregon Department of Forestry and ODFW to explore a new strategy for fulfilling the City's mitigation obligations. This will likely involve a culvert replacement project elsewhere within the watershed.
- Alternative solutions for addressing the failing culvert and road crossing are currently under review. These may include a more cost-effective approach, such as removing the existing crossing, restoring the natural streambed, and constructing a simpler crossing at a different location.

WATER SYSTEM



Slow Sand Filter Re-sanding Project 2025

- The project has been awarded to Big River Construction. Public Works Staff are working through submittal review and pre-construction activities.
- This project serves to replenish the filter media in the City's slow sand filters to provide continued high-quality water treatment.

Pipeline Road Waterline Resilience Project (ARPA Grant Project)

- Grant agreement with the Infrastructure Finance Authority (IFA) was approved.
- Tetra Tech was awarded the engineering services contract.
- Tapani, Inc. was awarded the construction contract.
- Change order was approved to increase the pipe length.
- Construction of this project was completed in August.
- Close-out paperwork is underway.

16th Street Distribution Waterline Project (ARPA Grant Project)

- Construction on the project began in March 2025.
- Installation of infrastructure to support the project occurred in May-June 2025 that includes a new PRV at 16th & Jerome, franchise utility relocation, pre-construction subsurface investigation, and temporary pedestrian facilities.
- Replacement of the 16th Street tunnel waterline is complete and the new pipe is currently in use. Restoration activities are underway and expected to be completed by November 2025.

- The following roads and parking are closed until November 2025:
 - 16th St. from Jerome Ave. to Lexington Ave.
 - 16th St. from Niagara Ave. to James St.
 - Jerome Ave. from 16th St. to 17th St.
 - Parking area at James St. gate



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

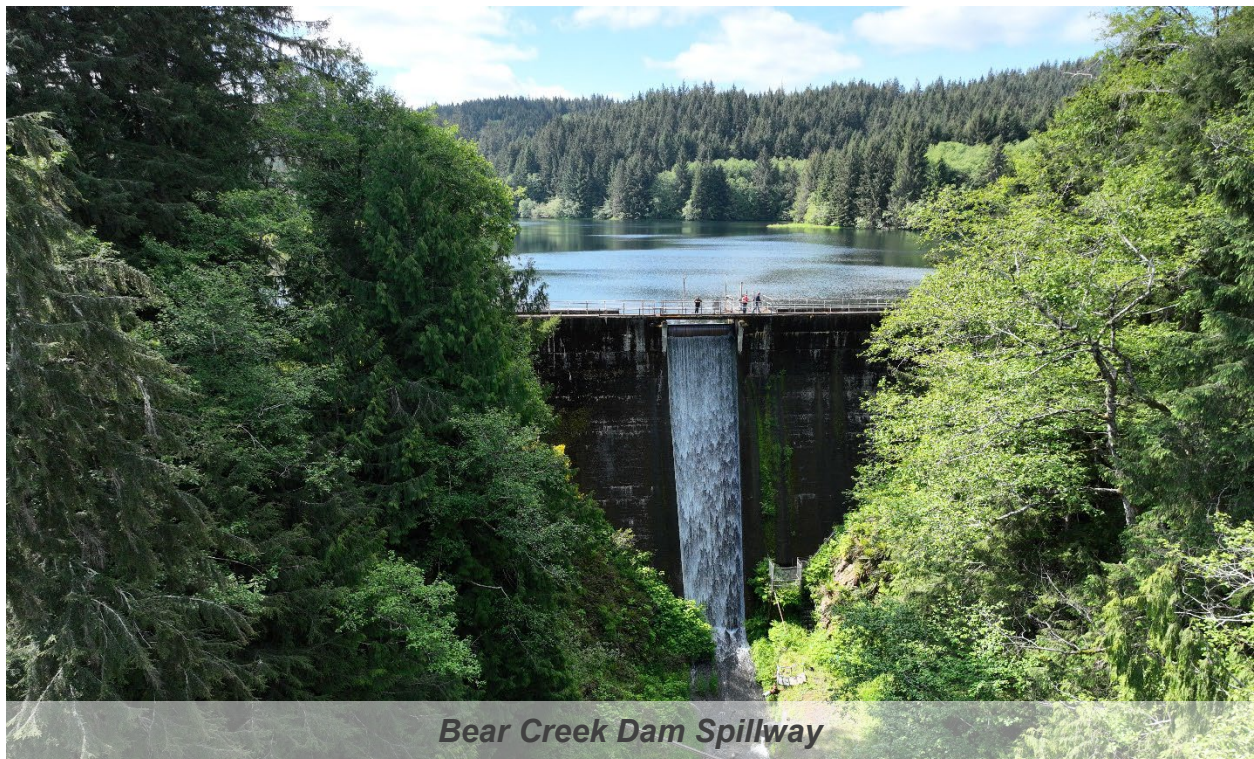
- *No status change since the last update.*
- The Public Works Department has completed the installation and implementation of the new AMR system for downtown and large commercial customers.
- City Council approved a strategy to purchase and install AMRs over a 4-5 year period. We have budgeted \$200,000 for new meters this fiscal year and plan to allocate \$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

- The Department of Labor will not be proceeding with landslide mitigation work along its roadway due to a lack of funding.
- Due to the continued risk in this area, the City still plans to move forward with a project to relocate the existing waterline away from the toe of the slope.
- We are working with the City Attorney to coordinate an agreement for the relocation of the utility with the Department of Labor. We have recently established an active dialogue and will be working on finalizing an agreement/easement for the waterline relocation.

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:



Bear Creek Dam Spillway

- Emergency Action Plan – Completed in 2012.
- Bear Creek Dam Seismic Study – Completed in 2016.
- Design Inflow Hydrology Report/Probable Maximum Flood (PMF) determination – Completed in 2021.
- Scour Analysis of flood overtopping dam – Completed in 2022.
- Bear Creek Dam Leak Investigation & Repair – Completed in 2022
- Design Study of Alternatives for Emergency Spillway – Completed in 2024.
- Final Design of selected emergency spillway alternative – On hold pending funding source.
- Seismic Study of Wickiup Lake Dam – In progress.
- Seismic Study of Middle Lake Dam – In progress.
- Repair of Wickiup Lake conduit and control structure – Planned to be completed within the next 2 years.
- Repair of Main Lake conduit – Planned to be completed within the next 3 years.
- The City has entered into a Consent Order with the State (approved at April 7th Council Meeting) which outlines the specific corrective actions and schedule for implementation.

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

- *No status change since the last update.*
- Staff continues to provide 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.

Wastewater Treatment Plant Improvements Project (ARPA Grant Project)

- *No status change since the last update.*
- Gibbs & Olson was awarded the engineering services contract.
- Grant agreement for the ARPA funding of \$4,860,000 has been fully executed.



- 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 started the first week of April and is expected to be completed in Summer 2026.

Melbourne Ave. SS Replacement Project

- *No status change since the last update.*
- This project includes the 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 has exceeded 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. An additional OSG grant in the amount of \$200,001 was authorized in February 2025.
- Richwine Environmental finalized the Project Definition Report that recommended a CM/GC alternative bidding method for this project. City Council held a Public Hearing and approved this alternative bidding method.
- A funding amendment through the DEQ CWSRF program for the construction phase will be presented to Council on October 20th.
- Construction is anticipated in Summer 2027.

COMBINED SEWER OVERFLOW (CSO) SYSTEM

CSO Program

- Staff presented a Draft Integrated Plan at the January 27th City Council work session. Staff submitted the draft to DEQ and addressed their comments.
- Staff presented the Final Integrated Plan at the September 29th City Council work session.
- An approved Integrated Plan will result in a program extension giving staff time to scope Phase 5 (last phase) of the CSO Program and pursue grant funding.
- Official adoption of the Final Integrated Plan through Resolution is included in the Council packet for the October 6th City Council meeting.

TRANSPORTATION SYSTEM

Trolley Trestle Repair Project 2025

- DOWL, structural consulting engineers completed the structural inspection in early July 2025.
- City staff is finalizing a contract with DOWL to assist with design, bidding and construction management for the work.

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 replacing 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 16th Street rail crossing to address both rail and roadway deficiencies. This is planned for Spring 2026.

Asphalt and Concrete Patching Project

- Public Works staff are working with Olson Asphalt Maintenance to complete asphalt patching at various locations around the City. This work is anticipated to be completed in October 2025.
- Public Works staff will be working with R. Prom Construction to complete concrete patching at various locations around the City. This work is planned for completion in October 2025.

SANITATION

Landfill Post-Closure Activities

- *No status change since the last update.*
- 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 showed 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.
- Staff have completed the Landfill Closure Permit renewal process with DEQ. The term of the permit renewal is ten years so it will expire on December 31, 2035.

Recycling Modernization Act (RMA)

- Local Funding Authorization Form to authorize Recology Western Oregon to receive the funding on the City's behalf was approved by City Council on April 21, 2025
- Staff has prepared and City Council has approved a lease amendment with Recology that will provide a small amount of additional space for recycling facilities at the transfer station.

FACILITIES

- No significant projects are currently underway

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 2026.
- We worked with property owners to secure the easements needed for the relocation work.

5th Street and Commercial Street Landslide Clean-up

- North Pacific Excavation completed clean-up work on the 5th St. and Commercial St. landslide in September 2025.
- Public Works staff are currently working on close-out documentation and monitoring.

PUBLIC WORKS ENGINEERING

Development Review Workload

- 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 developments within the next year.
- Unpermitted work continues to place an increasing burden on Public Works staff. When work, such as utility connections, sidewalk repairs, grading/excavation, or driveway installations, is performed without the required permits or inspections, staff must shift from planned priorities to response efforts. This often involves site investigations, coordination with property owners, enforcement measures, and, in some cases, removal or correction of work that fails to meet City standards or creates safety concerns.

These unexpected demands disrupt daily workflows, delay progress on capital and maintenance projects, and divert resources from development review and other essential services. Unpermitted work also undermines the City's efforts to maintain consistent infrastructure standards and protect the long-term reliability of its public systems.

GIS Updates

- GIS staff have continued to make database and data management improvements. User experience improvements have been made to our desktop and mobile applications for both City staff and public use.
- GIS staff have developed a UAS (Uncrewed Aircraft Systems)/Drone program to add aerial imagery and other associated resources to the City. This has already been used for natural resource monitoring, infrastructure inspection, and construction monitoring. Over 40 missions have been conducted this calendar year.
- GIS staff have migrated Automated Meter Reading (AMR) data collection to an electronic form. This provides an accurate location of assets along with validated data collection. Workflows have been developed to create products used by Public Works and Finance staff that are regularly updated and sourced from a single, authoritative dataset.
- Operations staff are using tablets in the field, which makes their access to GIS data more efficient and helpful. Their use is expanding with AMR data collection and additional mapping application availability. Additional asset data collection forms have been created, extending the beneficial uses of the system by additional operational field staff. Setup and training are planned to be complete by the end of October.

PUBLIC WORKS OPERATIONS

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

Personnel and Training:

- Garrett Reeves hired 8/1/25 as Stores Supervisor
- Jim Meadors hired 8/18/25 as Utility Worker I
- Mike Foster hired 9/2/25 as Utility Worker I/Machine Mower
- Wastewater Operator Matthew Burgher passed the Wastewater Treatment I certification exam
- Utility Worker I Jason Schmeling obtained CDL licensure
- Water Quality Technician Tim Johnson completed CDL HAZMAT recertification
- Utility Workers Tim Ryan, Wolfgang Pecota, and Jim Meadors completed online trench safety and confined space training
- Utility workers and operators completed a three-day confined space rescue training, including simulated field rescues
- Staff participated in monthly safety refresher briefings focused on load securement, safe lifting techniques, and best practices for dump truck and backhoe operation, and working with asbestos pipe and silica sand materials

Water:

- Repaired 12 water leaks/main breaks
- Installed 40 AMR meters to replace non-AMR meters on existing service lines
- Repaired major leak on 21" pipeline at blow-off #26, requiring temporary shutdowns to outlying districts and reduced Headworks flow to 400 GPM
- Emptied Reservoir #2 to complete repairs to the reservoir cover
- Replaced and rewired Reservoir #2 cover pumps, hoses, power supplies, and check valves
- Flushed mains on 16th St. and between James St. and Jerome Ave.; Bac-T samples collected for the 16th St. Tunnel Waterline Project
- Repaired pump in basement at Astoria Column host residence
- Investigated and resolved six water quality complaints (odor, taste, discoloration)
- Installed an additional 3" conduit and level sensor at East Astoria tanks
- Repaired leaks on 3 cast-iron main sections
- Replaced meter and service at Clatsop County Courthouse, including installation of 18' HDPE line, 2" AMR and 2" AFC gate valve, and reset of existing valve can
- Installed 10" ductile iron valve, tee, and 2" blow-off on 10" main at Clatsop County Fairgrounds; restored service following successful Bac-T testing
- Cut in 6" tee and installed 6" Neptune meter at Tongue Point for the USCG development
- Cleaned and flushed 4" compound meter on pipeline serving John Day Water District
- Conducted herbicide treatments at Reservoirs #2 and #3

Sewer:

- Cleaned wet wells at Pump Stations #1, #6, Mill Pond, and Alder St.
- Cleaned and inspected Pump Station #5
- Inspected Pump Station #4; corrected inverted coupling, installed new breathers, and greased bearings
- Inspected Pump Station #3; rotated pump, maintained upper gearbox, and greased bearings
- Responded to multiple high wet well alarms at Ash St. Pump Station
- Replaced pump at Ash St. Pump Station; stored old pump as spare and continued maintenance
- Removed, rebuilt and reinstalled Pump #3 from Pump Station #1
- Conducted herbicide treatments at WWTP in July and August
- Used TV inspection to assess 12" clay sewer main at 5th & Harrison (sinkhole investigation); collapsed pipe discovered and footage forwarded to Engineering for repair planning
- Replaced 50' of clay sewer main with 6" 3034 PVC at 391 Commercial St.
- Repaired sewer main and reinforced bank at 48 W. Lexington Ave.
- Replaced 36.5' of 8" clay main with 8" 3034 PVC at 508 Kensington Ave.
- Cleared roots and rodded 8" sanitary sewer at 8th & Nehalem Ave.
- Investigated sewer odor near Astor Elementary School using TV inspection
- Removed slide gate at Smith Point Storage Facility for repairs

Stormwater:

- Relocated CSO #25 to new manhole
- Removed beaver dam at inlet #15 on Williamsport Rd.
- Cleaned storm inlets in Zone 5 at 38th & Irving Avenue ("Baker's Box") and 35th & Irving Ave.; excavated creek for 25', installed two check dams, and added new field inlet with grate
- Cleared brush around flumes at 38th & Irving Ave.
- Removed roots and rodded 30" storm drain at 20th & Duane St.
- CSO monitors maintenance and data analysis

Transportation:

- Repaired manhole on 8th St. between Franklin and Grand Avenues (new riser rings, grout, ultra-crete)
- Investigated and repaired sinkhole at 9th & Astor Streets; completed urgent pothole repair on Madison Ave.
- Staged and removed traffic control signs for Astoria Regatta Parade
- Installed eleven parking bumpers in City parking lot at 173 Columbia Ave.
- Performed 347 hours of machine mowing
- Installed thermoplastic crosswalks at:
 - 37th & Leif Erikson Dr.
 - 13th Street at Duane and Exchange St.
 - 14th & Exchange St.
 - 15th & Commercial St.

- 15th & Marine Dr.
- 16th Street at Grand and Irving Ave.
- Installed thermoplastic stop bars at multiple intersections, including 37th & Leif Erikson, 8th–11th & Irving, Franklin (12th–15th), and Irving (9th–12th)
- Installed thermoplastic parking markers along Marine Dr. (north side, 9th–11th St.)
- Assisted Columbia County with city street striping and performed follow-up street cleaning
- Completed 100 hours of sweeping in July; 84 hours in September following repairs to street sweeper #798 (temporarily out of service in August)
- Responded to Engineering and resident requests for foliage and debris removal
- Replaced or repaired signs at 14th & Marine Dr., Bay St., and Hyten Court; replaced damaged “Stop” signs at 16th & Jerome Ave. and 7th & Astor St.
- Disposed of nine deer and two harbor seals carcasses
- Responded to recurring malfunctions of school crosswalk lights at 7th & Klaskanine Ave.

Shop and Yard:

- Contractor Repaired overhead doors and roller bracket in lower barn
- Repaired scissor lift #768
- Completed additional 19.5 hours of repairs on street sweeper #798 after return from Owen Equipment; unit later sent back for further service
- Logged 304.25 hours of interdepartmental vehicle maintenance (AFD, APD, Parks, and Building Department)
- Completed full stores inventory

Miscellaneous:

- Responded to several calls for garbage cleanup at 17th St. Dock garbage facility
- Adjusted APD employee entrance door at Public Safety Building
- Repaired City Hall emergency exit sign and door, replaced malfunctioning light and back-up battery, and serviced water coolers
- Replaced missing or removed locks at 17th St. Dock
- Installed new lock cores at renovated Astoria Public Library
- Repaired chain-link fencing at 1169 Marine Dr. to restrict access to chairwall
- Completed monthly chairwall inspection and maintenance at Heritage Square
- Conducted quarterly safety inspections at all sites
- Eric Bufkin, Levi Greer, and Jeff Harrington attended Operations Conference in Seaside, OR

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 SHORT 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 consists 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.

AWAITING FUNDING OPPORTUNITY City of Astoria Wastewater Treatment Plant Headworks Improvement Project – Seeking \$4,534,232 to cover a current cost overrun, which is presently proposed to be financed through a loan

In April 2022, the City accepted a grant from the Oregon Coronavirus State Fiscal Recovery Fund in the amount of \$4,860,000 for the Wastewater Treatment Plant Headworks Improvement Project. The estimated project cost was pre-pandemic and after bidding the project the actual cost was realized to be \$9,869,232. This significant

increase in project cost was not anticipated and has been attributed to the existing volatile construction bid environment and continued increase in materials costs. In order to continue with the project and meet our permit requirements into the future, the City applied for and received a loan from Oregon Infrastructure Finance Authority in the amount of \$4,959,232 comprised of \$425,000 in grant funds and \$4,534,232 in loan funds.

AWAITING FUNDING OPPORTUNITY City of Astoria Little Bear Creek Waterline Replacement Project - \$3,400,000

This funding would allow the City to replace approximately 3,200 feet of our only drinking water transmission main providing water to the City of Astoria and multiple outlying water districts. This waterline was built in 1963 and is a 21-inch reinforced concrete cylinder pipe. The alignment of the water transmission main traverses through undeveloped forest land and crosses multiple landslides along the way. At this location the waterline crosses a creek where it has become exposed and is vulnerable to damage. The water transmission main has experienced failure caused by land movement at this location.

AWAITING FUNDING OPPORTUNITY City of Astoria 16th & Jerome to 18th & Irving Waterline Resilience Project - \$1,000,000

This funding would allow the City to replace approximately 1,100 feet of our drinking water distribution main providing increased water volume to the central part of town and providing backup (resilience) for the 21-inch waterline from Reservoir 3 to Reservoir 2.

AWAITING FUNDING OPPORTUNITY City of Astoria Wastewater Collection System Assessment & Master Plan - \$1,500,000

This funding would allow the City to complete a much needed assessment of our wastewater collection system and complete a Collections System Master Plan which the City has never had. The City sewer system is a combined sewer/storm system much of which is between 50-100+ years old. This work would allow the City to plan and implement repairs much more efficiently and focus on system repairs that will support future housing.

GRAND TOTAL: \$41,394,232