



## CITY OF ASTORIA

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### MEMORANDUM • PUBLIC WORKS DEPARTMENT

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**DATE:** JULY 21, 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.
- 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**

- Engineering staff prepared project documents for the Slow Sand Filter Re-sanding Project is currently being advertised for bid.
- This project serves to replenish the filter media in the City's slow sand filters to provide continued high-quality water treatment.
- We anticipate selecting a Contractor for the work in August 2025.



### **16<sup>th</sup> 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 16<sup>th</sup> & Jerome, franchise utility relocation, pre-construction subsurface investigation, and temporary pedestrian facilities.
- Replacement of the 16th Street tunnel waterline is underway and expected to be completed by November 2025.
- The following roads and parking are closed from July-November 2025:
  - 16<sup>th</sup> St. from Jerome Ave. to Lexington Ave.
  - 16<sup>th</sup> St. from Niagara Ave. to James St.
  - Jerome Ave. from 16<sup>th</sup> St. to 17<sup>th</sup> St.
  - Parking area at James St. gate

### **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 the Site A segment of waterline was completed in late June.



- Construction of the Site B segment of waterline is nearly complete with a planned connection date of July 16<sup>th</sup>.
- It is anticipated that the project will be completed by early August 2025.



### **Irving Ave from 20<sup>th</sup> St to 28<sup>th</sup> 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 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**

- The Department of Labor will not be proceeding with landslide mitigation work along their 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 recently have been able to establish 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:
  - 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 7<sup>th</sup> Council Meeting) which outlines the specific corrective actions and schedule for implementation.





*Bear Creek Dam Spillway*

### **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.



**Wastewater Treatment Plant Improvements Project Construction**

### **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.
- City staff are working with DEQ on the funding for the construction phase through the CWSRF program. It is anticipated that a funding amendment will be presented to City Council in the next couple of months.
- Construction is anticipated in Summer 2026.

## **COMBINED SEWER OVERFLOW (CSO) SYSTEM**

### **CSO Program**

- Staff presented a Draft Integrated Plan at the January 27<sup>th</sup> City Council work session. The plan was then sent to DEQ for review. Staff have received comments and are working on finalizing the document.
- Staff will schedule a City Council approval once the document is finalized. We are anticipating a late July or August completion.
- 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.

## **TRANSPORTATION SYSTEM**

### **6<sup>th</sup> Street Waterfront Bridge Cathodic Protection Repair Project**

- Norton Corrosion is under contract to replace the cathodic protection system on the 6<sup>th</sup> Street bridge that was damaged beyond repair over a year ago.
- Repair and replacement work is anticipated to start at the end of July 2025 and should be completed by early August 2025.

### **Trolley Trestle Repair Project 2025**

- DOWL, structural consulting engineers completed the structural inspection in early July 2025. We will be reviewing the results and plan to move forward with a repair project.
- City staff will work on a contract with DOWL for design and construction management services once we have determined an appropriate scope of 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 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 16th Street rail crossing to address both rail and roadway deficiencies.

## **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 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 are working on 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**

#### **27<sup>TH</sup> 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.
- We are currently working with property owners to secure the easements needed for the relocation work.

### **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 development 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. We have also made user experience improvements 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 30 flights have been conducted this calendar year.
- GIS staff has 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 are planned, extending the beneficial uses of the system by additional operational field staff.

### **PUBLIC WORKS OPERATIONS**

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

#### **Personnel and Training:**

- Anthony Ramirez hired 4/1/25 for vacant Equipment Servicer position
- Tim Ryan and Wolfgang Pecota hired 4/1/25 for vacant Utility I positions
- Jason Schmeling hired 4/9/25 for vacant Utility I/Machine Mower position
- Jason Miles engaged in dam safety training
- Aaron Bladen obtained backflow assembly tester certification on 6/27/25 in Portland, OR



- Bret Stevens, Kyle Bryan, Tim Ryan, Wolfgang Pecota, and Anthony Ramirez attended OSHA 10-hour training at City Hall
- Levi Greer and Ed Karl attended the 2025 APWA Public Works Developing Leaders Conference in Sunriver, OR
- Aaron Bladen attended drive and PLC course hosted by Rockwell Automation in Tri-Cities, WA, 5/5–5/8/25
- Brianna Downer and Loren Depping attended EPA “Basic Waterworks Workshop” hosted online by the City of Everett, WA
- Staff engaged in GIS mapping update with GIS Administrator Brian Shepard at Public Works Shops on 6/27/25
- Safety and operation training review provided for utility staff in use of chop saws and vactor equipment
- Interviews for vacant Stores Supervisor position held 6/17–6/18/25; candidate recommendation forwarded to HR the following week
- Wolfgang Pecota and Jason Schmeling obtained CDL permits

#### **Water:**

- Contracted with Layfield Group to repair Reservoir 2 cover following issues identified during cleaning and inspection
- Major water leak repaired on 6” cast iron main at 1307 5th St.
- Installed new 2” water line with 1” tie-in at 20th and Franklin Ave. (177.5 worker hours)
- Installed new pump to feed Reservoir #2 CL-17 and sampling point
- Responded to low-pressure report from Port of Astoria; cause likely high flows at working canneries
- Repaired after-hours leak on 2” cast iron main at 9th and Madison Ave.
- Repaired leak on 1” PVC main at 15th and Coxcomb Dr.; installed new 1” service box
- Installed 6’ × 4’ vault, 12” flow meter, and conduit at 16th and James St. with flaggers (78 worker hours)
- Installed PR at 16th and Jerome Ave.
- Installed new 2” service and meter at 2845 Marine Dr.
- Installed 2” compound meter in vault for Yakima Valley Farm Workers Clinic on Commercial St.
- Repaired leak on 2” meter in chairwall at 1263 Commercial St.; replaced wheel gate valve and flange
- Repaired leak on 2” cast iron main at 10th and Lexington Ave.
- At Headworks, re-grouted and anchored 36” pipes behind filters into concrete
- Investigated low pressure at 490 W. Marine Dr.; 2” copper service found in good condition; installed 1.5” AMR meter and cast iron flange

- Flushed city fire hydrants #399–462, completing 2025 hydrant flushing
- Initiated new AMR tracking system using GPS and GIS mapping
- Began conduit installation for telemetry at East Astoria tanks

#### **Sewer:**

- SCUBA diver cleared pipe feeding Pond 2 and installed inflatable plug
- Cleaned chlorine contact chamber at WWTP
- Removed and cleaned pump at Pump Station #1; five-gallon bucket found in volute
- Cleaned and reinstalled pump at Ash Street pump station
- Performed wet well cleaning and maintenance at 52nd St. pump station
- Maintained flanges on Pump One in 52nd St. wet well to properly reseal pump
- Repaired collapsed 6" sewer main at 865 Jerome Ave. over three months; mini-cam revealed partial collapse 6' west of repair
- Removed 200' of temporary 6" 3034 sewer main from hillside between Alameda Ave. and Floral St.
- Excavated and repaired manhole at 7th and Olney Ave.
- Rerouted 6" storm line across 16th St. from James St. to Niagara Ave. and tapped into 10" sewer main; installed new telemetry conduit across road
- Attempted TV and mini-cam inspections at 391 Commercial St.; backup found, rodding unsuccessful, repairs scheduled
- Repaired sewer lateral at 112 Commercial St.

#### **Stormwater:**

- Found overflowing storm manhole at 327 W. Marine Dr. plugged; ODOT notified as part of their system
- Flushed plugged catch basin at 4th and Exchange St. from lateral to manhole
- Inspected and cleaned major storm inlets in all zones

#### **Transportation:**

- Excavated and repaired significant sinkhole on 11th St.
- Repaired potholes at 11th and Commercial St., foot of 14th St., and 16th St. at railroad tracks; repaired sinkhole at 1795 18th St.
- Replaced eight marked signs at 9th and Exchange St. parking lot with tow-away and rule signs
- Installed two "No Parking Between Signs" signs behind restrooms at 13th and Exchange St.
- Replaced damaged signs at 15th and Franklin, 15th and Jerome, 16th and Marine, Agate and Alameda, and Alameda and Columbia
- Mower Operator Jason Schmeling performed 144 hours (+2 overtime hours) of machine mowing
- City street sweeper (#798) in Portland for extended repair



- Installed 24 linear ft. of 4"-wide yellow thermoplastic at 1169 Marine Dr. to mark driveway below vaulted sidewalk
- Installed thermoplastic "L" and "T" parking markers on 12th St. between Commercial and Marine Dr.
- Disposed of three deer carcasses, one coyote carcass, and assisted with two dead sea lions near Mill Pond Village

### **Shop and Yard:**

- Contractor completed truck barn repairs at PW Shops
- Nathan Barber installed overhead doors, curbs, lighting, and repaired heat sensors in truck barn
- Completed annual fire extinguisher inspections and maintenance
- Poured concrete and completed additional work on yard retaining wall
- Took possession of 2024 30-gallon tar pot/melter (trailer-mounted) and 2025 slab saw/concrete cutter
- Performed 242 hours of interdepartmental vehicle maintenance (AFD, APD, Parks, Building Dept.)

### **Miscellaneous:**

- Bret Stevens responded on-call for emergency road closures following a collision and pedestrian fatality at multiple intersections; later retrieved traffic control devices
- Aaron Bladen, Tim Johnson, and Caleb Laws inspected 17th St. Dock throughout April, both by land and water
- Removed trash from site near trash compactor at 17th St. Dock
- Repaired loose bollards and gate at 17th St. Dock
- Repaired shelving units in Building and Planning Depts. at City Hall
- Maintained lights and AC breaker at City Hall
- Repaired structural supports at Heritage Square
- Concluded Strategic Management Planning subcommittee meetings
- Completed quarterly safety inspections at all sites
- Celebrated National Public Works Week with a coloring contest, a Public Works Vehicle and Equipment Parade for Astor Elementary students, community outreach and education activities, and a staff appreciation BBQ



*Astor Elementary Equipment Parade*

**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 16<sup>th</sup> 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 16<sup>th</sup> 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 23<sup>rd</sup> 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 16<sup>th</sup>, 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**