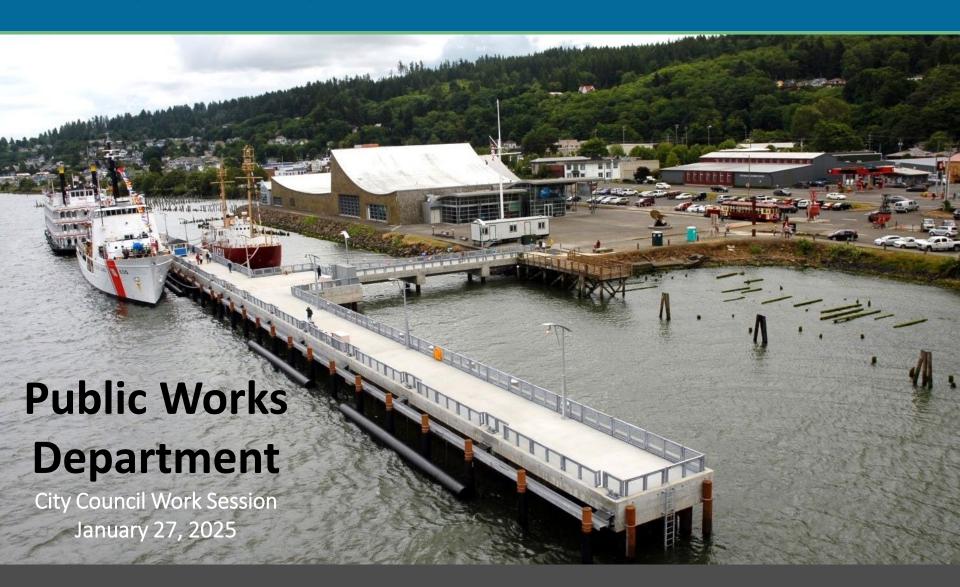


Capital Improvements Plan (CIP)





What is a Capital Improvement Plan?

- A Capital Improvement Plan (CIP) is a long-term strategy that outlines and prioritizes major projects or investments, typically related to infrastructure or facilities, over a period of 5-10 years.
- It helps organizations or municipalities plan, schedule, and allocate funding for these projects to meet future needs and improve assets.
- Capital Improvement <u>Plan</u> vs. Capital Improvement <u>Program</u>
 - A Capital Improvement Plan is a broad long-term strategy that outlines and prioritizes future capital projects over several years.
 - A Capital Improvement Program is a specific, shorter-term set of approved projects within the broader Capital Improvement Plan. It includes detailed information on funding, schedules, and execution for the near-term projects ready to be implemented.



City Council Work Plan - Anticipated Benchmarks

2023	2024	2025 and beyond
 City Council holds multiple Work Session(s) on System Development Charges Program (Q3) City Council formally adopts System Development Charges Program (Q4) 	 Seek out State Loans to replace Astoria's three lift stations (Q1 or Q2) Finalize Draft of Capital Improvement Plan or Project list for critical Water, Sewer, and Stormwater Infrastructure (Q1) Adoption by City Council of the Final Capital Improvement Plan or Project list for critical Water, Sewer, and Stormwater infrastructure to ensure the City's grant eligibility (Q1) Work with State and Federal Delegations to seek assistance with utility Infrastructure (Q2) 	 Evaluate rate structure for targeted reinvestment in Astoria utility (Q1 or Q2) Work with State and Federal Delegations to seek assistance with utility Infrastructure (on-going)



Overview

- Background Information
- Infrastructure Funding Strategy
- Capital Improvements Project List





- Community Vision established through City Council Work Plan (2023-2028)
- Work Plan identified the development of a plan to reinvest in critical infrastructure
- Goals of the Capital Improvement Plan
 - Maintain infrastructure in a safe, reliable, sustainable service, and prepare for growth
 - Consider system needs identified from different sources and balance priorities with available/anticipated financial resources over a 5-year period
 - Overall Capital Improvement Plan needed to pursue grant/loan funding
- Why our plan is different from a typical Capital Improvement Plan
 - Existing financial gap between needs and resources
 - Project list dictated by available grants and our most critical needs
 - If we can achieve a sustainable funding level and have dedicated capital improvement funding, then our process for reviewing priorities can change



- Existing Capital Improvement Plans (in other documents)
 - Water System Master Plan (WSMP)
 - Transportation System Plan (TSP)
 - CSO Master Plan
 - WWTP Facilities Plan
- Key Purposes
 - Prioritization
 - Budgeting
 - Strategic Planning
 - Transparency
 - Risk Management
- Dynamic Document
 - Based on priorities and financial constraints at a specific moment in time
 - Affected by regulatory requirements, changing system demands, updated information about conditions and priorities, and unforeseen funding opportunities



Most cities have these:

- Water System
- Sanitary Sewer System
- Storm Water System
- Streets

Some cities have these:

- Reservoirs
- Water Treatment Plant
- Watershed Forest
- Timber Harvest Program
- Hydro Power
- Utility Tunnels
- Wastewater Treatment Plant
- Pump Stations
- Street Light Maintenance

- CSO Facilities
- River Outfalls
- Docks
- Deteriorated Street System
- Brick & Concrete Streets
- Vaulted Sidewalks
- Landslides
- Shoreline Maintenance
- Sanitation Landfill
- Old Active Trolley System
- Bridges
- Timber Trestles
- Old Navy Base
- Coast Guard Facilities
- Brownfield Sites

Astoria is responsible for <u>all</u> these items



- City Population
 - 10,000 for over 100 years flat growth
 - Minimal new customers
 - Disadvantaged community per Justice 40 (link in plan document)
- Age of Infrastructure
 - 50-125 years old
 - Outdated materials and technology in many cases
 - Much of the infrastructure in geologically unstable areas
- Water Infrastructure
 - Estimated value of \$440 million
 - Originally built in 1895
 - Many 1895 waterlines are still in service (about 5 percent)
 - 680 million gallons treated and distributed annually
 - 80 miles of waterline
 - 2021 WSMP identifies nearly \$80 million in needed improvements



- Wastewater Infrastructure
 - Estimated value of \$182 million
 - WWTP, interceptor system & sewage lift stations built in 1974
 - Collection system age varies significantly, with most of it being quite old, dating back to the early 1900s
 - 1-20 million gallons of sewage is treated daily, with fluctuations largely dependent on precipitation levels
 - 72 miles of sewage collection piping
- Stormwater infrastructure
 - Estimated value of \$182 million (including CSO facilities)
 - 35 miles of storm collection piping
 - 651 storm manholes
 - 1,838 catch basins



Combined Sewer Overflow Program

- \$50 million program started with a CSO Facilities Plan completed in 1998
- First construction project started in 2004
- 4 of 5 Phases complete
- Approximately \$32 million spent on the program to date with an anticipated \$18+ remaining
- Current debt service is about \$18 million
- CSO surcharge rate is currently 97 percent of the sewer bill

Transportation Infrastructure

- Estimated value of \$397 million
- 8 of 9 bridges replaced to date with ODOT Bridge STIP funds
- Irving Bridge at 33rd needs replacement at an estimated cost of \$14.2 million
- 55 miles of roads in the City
- Currently paving approximately \$500,000 every 2 years using a 3% local fuel tax
- Rate of paving is approx. 8% of the recommended rate per pavement management software
- 2013 TSP identified \$49.2 million in projects, some completed



- Natural Hazard Mitigation
 - Our 2021 Clatsop County Multi-Jurisdictional Natural Hazards Mitigation Plan identifies the following mitigation actions pertinent to public works infrastructure:
 - Replace Irving Avenue at 33rd Street Bridge
 - Evaluate the vulnerabilities of the water system (transmission main, water pipes and dam) – partially complete
 - Mitigate the vulnerabilities of the water system to ensure disaster resiliency
 - Relocate Public Works Facility
 - Conduct a Risk & Resilience Assessment (RRA) and Emergency Response Plan (ERP) of Astoria's drinking water system – complete
 - Improve drainage in forested areas at higher elevations above City to reduce the potential for landslides
 - Staff has identified 6 north slope areas that need drainage improvements:
 - Irving Avenue from 20th Street to 22nd Street done
 - 1st & Commercial Streets done
 - East of 38th Street and Irving Avenue
 - Irving Avenue from 33rd Street to 38th Street
 - Irving Avenue from 29th Street to 33rd Street
 - Irving Avenue & 19th Street North of Bridge



Current Utility Rates

- Overall utility bill averages \$168 per month (includes water, sewer and CSO Surcharge)
- Current rates only support operations and maintenance. Capital Improvement Projects are currently dependent on grants and loans

Levels of Funding

- Operations and maintenance (O&M) only current level of funding
- 2) O&M and Capital Improvements currently, all capital improvement is dependent on grants or loans with accompanying increased debt service
- 3) O&M, Capital Improvements and Resilience Projects (pro-active)

Funding Sources

- Water & Sewer Rates and Fuel Tax primary
- Debt Financing/Low-Interest Loan Programs
- System Development Charges (SDC) recent funding source for City
- Bonds and LID not used
- Urban Renewal District Funding not available
- Room Tax (Promote Astoria) not available



- Rate History
 - Pattern of low water rate increases since CSO program implementation
 - We currently have among the lowest water and sewer rates in our region but a higher overall utility bill due to CSO Surcharge
 - Bi-monthly billing gives perception of higher bill
- Level of Infrastructure Reinvestment
 - Not meeting any standard practice
 - Water example:
 - \$440,000,000/50 years x 50% needing replacement = \$4,400,000/year
 - Following the React & Repair Strategy



- WSMP and TSP Plan Rate Recommendations
 - Water 27.7% in 2022 and 2-3% each year for priority projects only and 100% and 4-5% each year (in addition to inflationary increase) for all projects (Plan was adopted in May 2021 acknowledging that this was not acceptable)
 - TSP \$49.2 million in projects recommended a Transportation Utility Fee, increasing our local fuel tax, System Development Charges, Lodging Tax or General Fund revenue
- Existing Financial Summary
 - CSO surcharge is impacting our ability to adjust water and sewer rates to address:
 - Lack of funding to adequately replace aging infrastructure
 - Lack of funding to hire additional public works staff to operate and maintain current infrastructure
 - Astoria has a competitive disadvantage to cities in the Portland Metro Area when recruiting, maintaining, and compensating skilled public works staff to operate our utilities. Public works invest a lot of time and money into developing well-trained and educated staff who must possess and maintain licenses and certifications required by law. Losing staff is a tremendous financial loss to our community.
 - Staff capacity limits Public Works' ability to invest more time in training, proactive maintenance and emergency preparedness.



WATER

- Pipeline Road Waterline Resilience Project (funded) \$2,930,000
- 16th St. Distribution Waterline Replacement Project (funded) \$2,790,000
- Irving Ave. (20th 28th St.) Waterline Resiliency Project (funded) -\$1,894,662
- Spur 14 Intake (unfunded) \$600,000
- Install 1.1 Million Gallon Clearwell Tank & Laboratory at the Water Treatment Plant (unfunded) \$6,000,000
- Little Bear Creek Waterline (unfunded) \$3,400,000
- 16th St & Jerome to 18th & Irving Waterline Resilience Project (unfunded) \$1,000,000
- Bear Creek Dam Emergency Spillway Project (unfunded) \$3,878,000



WASTEWATER

- Wastewater Treatment Plant Headworks Improvements Project (funded) - \$9,869,232
- Sewage Lift Stations Rehabilitation Project (funded)
 \$3,670,000
- Collection System Assessment & Master Plan (unfunded) - \$1,500,000
- Sanitary Sewer Pipe Interceptor Comprehensive Evaluation (including cleaning) and Replacement or Rehabilitation Project (unfunded) - \$10,000,000



STORM

- Pre-disaster Landslide Storm Drainage Project (FEMA project) (funded) \$901,875
- 11th Street Tunnel Repair Project (unfunded) \$500,000
- West Craig Creek rehab, replace or reroute (unfunded)
 \$2,000,000
- Replace Street End Corrugated Steel Outfall Pipes (unfunded) \$1,500,000
- 7th & Clatsop Stormline Extension (unfunded) -\$300,000
- Irving & 38th Storm Inlet & Stormline Relocation Project (unfunded) \$1,000,000



TRANSPORTATION

- Paving Project;
 every 2 years
 (funded) \$500,000
- Irving at 33rd Street
 Bridge Replacement
 (unfunded) \$14,200,000



Waterfront Bridges Replacement Project



Infrastructure Funding Strategy

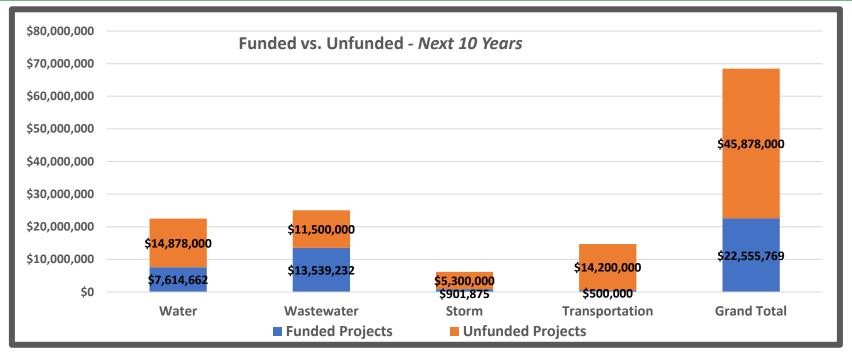
- Formally Adopt CIP
 - CIP Project List Priorities for the next 10 years with a focus on the next 5 years
 - Asset Inventory Value of our Infrastructure – \$1.1 Billion
- Complete currently funded projects
- Focus on new grant opportunities with low or no-match requirements
- Recommend minimum 3% rate increases necessary to keep up with current level of service – 40-year inflation
- Request CSO program time extensions to relieve CSO surcharge rate and allow some existing debt to be paid off and seek grant opportunities – Integrated Plan
- Establish a reserve fund strategy



23rd Street & Marine Drive Rectangular Rapid Flashing Beacon Project



Capital Improvement Project Funding



System	Funded Projects	Unfunded Projects	Total
Water	\$7,614,662	\$92,168,000	\$99,782,662
Wastewater	\$13,539,232	\$59,525,000	\$73,064,232
Storm	\$901,875	\$10,550,000	\$11,451,875
Transportation	\$500,000	\$67,640,400	\$68,140,400
Grand Total	\$22,555,769	\$229,883,400	\$252,439,169



How we have been funding Capital Improvement Projects

PROJECT NAME	FUNDING AGENCY	GRANT AMOUNT
11th Street CSO Separation	ODOT	\$100,000
11th Street CSO Separation	IFA	\$600,000
16th Street CSO Project (Ph 4)	IFA	\$525,000
17th Street Dock Reconstruction	ODOT	¢2.004.000
Connect OR III	ODOT	\$3,804,800
	OSMB	
17th Street Floating Dock	Oregon State	ć=2 220
Repair/Replacement	Marine Board	\$52,329
33rd St & Lief Erikson Street Lights	ODOT	\$17,256
37th & Lief Erikson Pedestrian Improvements Sidewalk/Crosswalk		4004 500
Construction	ODOT	\$284,500
AHS Sidewalk & Culvert Improvements (ODOT/Hwy 202)	ODOT	\$100,000
Bear Creek Dam HYDROELECTRIC PROJECT	IFA	\$399,600
Bear Creek Dam Seismic Study Phase 1	OWRD	\$50,000
Bear Creek Dam Seismic Study Phase 2	OWRD	\$104,000
Bear Creek Dam Waterline		
Relocate/Replace Waterline on Main Dam	IFA	\$0
Bond Street Waterline Replacement	FEMA	\$450,038
Crosswalk & Signs Project	ODOT	\$48,000
CSO Modeling Support	IFA	\$20,000
Denver CSO Storage	ARRA	\$2,000,000
Denver CSO Storage	DEQ	\$0
Franklin Street Bridge Replacement		
	ODOT	\$3,069,663
Geological Mapping Update Grant	DLCD	\$5,000
HVAC Upgrades Energy Efficiency & Conservation	ODOE	\$182,000
Irving Ave Bridge @ 19th Replacement	ODOT	\$5,486,990
Landfill Closure & Redevelopment	IFA	\$0
Landfill Closure Study	DEQ	\$100,000
Old Hwy 30 and Maritime Road Ownership and Access Rights	IFA	\$51,000
Overlay Various Streets	ODOT	\$215,779
Pipeline Road Relocation	FEMA	\$159,141
Pipeline Road Relocation Geological Study	FEMA	\$30,000

	FUNDING	GRANT
PROJECT NAME	AGENCY	AMOUNT
Pipeline Road Resiliency Study	IFA	\$15,500
Pump Station No. 1 Upgrades	Energy Trust	\$72,940
Reservoir Covers PHASE II		
Cover Reservoirs #2 & #3	IFA	\$250,000
Water System Master Plan Update	IFA	\$20,000
Windstorm Damage 2015	OEM	\$187,500
Windstorm Damage 2015	IFA	\$62,500
WWTP Effluent Treatment Upgrades	IFA	\$500,000
WWTP Headworks Concept Design	IFA	\$20,000
Industrial Pre-treatment / Financial Feasibility Study	IFA	\$20,000
Lift Station 3 VFDs	Energy Trust	\$12,882
OR 202 Waterline Replacement	ARPA	\$1,000,000
Street End Structures	ODOT	\$8,200,000
Waterfront Bridges	ODOT	\$1,455,561
Waterfront Bridges	IFA	\$28,333
	ARPA Discretionary	
OR202 Waterline Replacement Project	Funds	\$1,700,000
16th Street Distribution Waterline Replacement	IFA	\$2,790,000
23rd St. & Marine Dr. Rectangular Rapid Flashing Beacon	ODOT	\$390,245
OR 202 Sidewalk Project	ODOT	\$3,743,450
Pipeline Road Waterline Project	IFA	\$2,930,000
Pre-Disaster Landslide Storm Drainage Project	IFA	\$225,468
Pre-Disaster Landslide Storm Drainage Project	OEM	\$676,875
WWTP Headworks Improvement Project	IFA	\$4,860,000
WWTP Headworks Improvement Project	IFA	\$425,000
	Congressionally	
Irving Ave (20th-28th) Waterline Rehabilitation Project	Directed Spending	\$1,895,000
Sewer Lift Stations Rehabilitation Project	DEQ	\$59,960
Sewer Lift Stations Rehabilitation Project	DEQ	\$185,880
Sewer Lift Stations Rehabilitation Project	DEQ	\$150,000



Next Steps

- Staff Recommends
 - Council review draft for 30 days
 - Post plan on website and notices on Facebook for 30 days
- Receive feedback from Council and public
- Make final edits
- City Council adoption in March
- Follow the Plan and update as necessary



Discussion/Questions?

