

# Capital Improvement Plan

~ DRAFT ~



City of Astoria  
Public Works Department

*Updated: October 2024*

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## Introduction/Summary

The Astoria community worked collaboratively with City Council and staff to establish our community vision. Our vision is solidified through the adoption of City Council Goals by Council. Each year, the City reviews their goals and periodically adopts new goals to provide targeted guidance towards achieving that vision. Among other important measures, the goals identify the need to maintain infrastructure in a condition to provide safe, reliable, sustainable service, and also to prepare for growth. The Capital Improvement Plan (CIP) document represents the next step in the planning process for capital projects by considering system needs identified from various sources and balances priorities with available/anticipated financial resources over a five-year period.

Limited financial resources represent a significant challenge for meeting all of the City's infrastructure needs. There is an existing gap between needs and resources of the department and capital improvements, in general, with almost all infrastructure improvement projects being funded through debt service and grants. Fortunately for the City, grants have been readily available, and interest rates have been relatively low. City public works staff have done a great job of keeping our infrastructure serviceable despite most of it being well past its intended service life. Staff has also been very successful at obtaining grant funding. Continuous investments need to be made in City infrastructure to assure delivery of vital services and to maintain compliance with the ever-increasing complex regulatory requirements. Our goal is to eventually get to a sustainable funding level, but at this time the gap is too great. As a result, the City can only identify critical infrastructure needs and continue to look for alternative funding resources.

## Purpose & Review Process

The CIP is a financial planning document that identifies capital projects anticipated to be initiated over the next five fiscal years, largely based on previously adopted master plans such as the Water System Master Plan (2021) and the Transportation System Plan (2013). More importantly, the CIP is the central document to communicate critical infrastructure requirements for the City of Astoria, and to access state and federal funding opportunities. The first year of the CIP will be the basis for developing the capital portion of the upcoming budget for Fiscal Year 2025-2026.

The CIP serves several key purposes:

- 1) **Prioritization:** It enables the City to prioritize projects based on need, urgency, and available funding. This ensures that the most critical projects are addressed first.
- 2) **Budgeting:** The CIP assists in budgeting and financial planning by estimating costs and identifying funding sources, making it easier to allocate resources effectively.
- 3) **Strategic Planning:** It aligns projects with the City's long-term goals and strategic vision, ensuring that investments support broader objectives.
- 4) **Transparency:** It provides transparency to stakeholders, including the public, governing bodies, and staff by outlining planned improvements and their anticipated impacts.

- 5) Risk Management: The CIP assesses the condition of existing infrastructure and identifies potential risks, facilitating proactive planning for necessary upgrades and maintenance.

The CIP is a dynamic planning document based on priorities and financial constraints at a specific moment in time. Therefore, especially in the last four years of the CIP, the community should anticipate changes in proposed projects as we consider new regulatory requirements, changing system demands, or updated information about existing conditions and priorities. Additionally, unforeseen funding opportunities can also impact the CIP.

## Background

### City Population

- Just over 10,000 with a flat growth trajectory (i.e., around 10,000 people for past 100 plus years)
- Minimal new utility customers
- Astoria is a disadvantaged community per <https://ejscreen.epa.gov/mapper/>

### Age of Infrastructure

- 50 – 125 years old
- Outdated materials and technology in many cases
- Much of infrastructure is within geologically unstable areas subject to damage from ground movement

### Water Infrastructure

- Original water system built in 1895
- Many 1895 waterlines are still in service
- 680 million gallons of water treated and distributed annually
- 80 miles of waterlines
- 2021 Water Master Plan identifies nearly \$80 million in overall needed improvements, with \$21 million classified as high, medium and low priority projects

### Wastewater Infrastructure

- Wastewater treatment plant, interceptor system and sewer lift stations built in 1974
- Collection system's age is highly variable with much of the piping built in early 1900's
- City has significant number of common sewers that are privately maintained
- 1 – 20 million gallons of sewage treated daily, with fluctuations largely dependent on precipitation levels
- 72 miles of sewage collection piping

## Stormwater Infrastructure

- 35 miles of storm collection piping
- 651 Storm manholes
- 1,838 catch basins

## Combined Sewer Overflow (CSO) Program

- \$50 million program started with a CSO Facilities Plan completed in 1998 and the first construction project started in 2004
- Four of five phases are complete. Current program construction completion date is 2028
- Approximately \$32 million spent on the CSO Program to date with an anticipated \$18 million remaining - last 3 large capital projects are not yet scheduled
- Current debt service of approximately \$18 million plus interest
- CSO surcharge rate is currently 97% of sewer bill

## Transportation Infrastructure

- Eight of nine city owned bridges have been replaced using Local Bridge Program STIP funding. The single remaining bridge is the Irving Bridge with an estimated replacement cost of \$14.2 million
- 55 center-line road miles within the City of Astoria
- Currently paving approximately \$500,000 every two years using local fuel tax of 3%
- Rate of paving is approximately 8% of the rate recommended by our Pavement Management System
- No funding source for other projects such as pedestrian sidewalks or trails
- 2013 Transportation System Plan (TSP) identifies \$49.2 million in driving, walking, biking, shared-use path and transit projects

## 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 33<sup>rd</sup> 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 in higher elevations above City to reduce the potential of landslides

- Staff has identified 6 north slope areas that need drainage improvements:
  - Irving Avenue from 20<sup>th</sup> Street to 22<sup>nd</sup> Street – done
  - 1st & Commercial Streets – done
  - East of 38<sup>th</sup> Street and Irving Avenue
  - Irving Avenue from 33<sup>rd</sup> Street to 38<sup>th</sup> Street
  - Irving Avenue from 29<sup>th</sup> Street to 33<sup>rd</sup> Street
  - Irving Avenue & 19<sup>th</sup> Street – North of Bridge

The total cost to construct storm drainage in all six areas is estimated at \$5.5 million.

The City has addressed two of these areas at a cost of \$902,500. This project was fully funded with 75% grant funding through the 2022 Congressional Directed Spending process. The 25% match has been awarded as a grant through the Business Oregon Infrastructure Finance Authority (IFA) Program.

### Current Utility Rates

- Overall utility bill averages \$168 per month (includes water, sewer and CSO Surcharge), based on a residential customer using 7,500 gallons of water per month.
- Current rates only support operations and maintenance. Astoria’s utilities are dependent upon either loans or grants to pay for needed capital improvements.

### Levels of Funding

- 1) Operations and Maintenance Only – Current level of funding
- 2) Maintenance & Capital Improvement – Currently, all capital improvement is dependent on grants or loans with accompanying increased debt service
- 3) Maintenance, Capital Improvement and Resilience (Aspirational) – Goal of sustainable funding

### Funding Sources

- 1) Water & Sewer Rates and Fuel Tax – primary funding mechanisms for maintenance of utilities.
- 2) System Development Charges (SDC) – new funding source as of December 1, 2023. Capital improvement projects that are eligible for SDC funding are noted in the Appendix A: CIP Projects List. SDC funds may only be spent on projects (or portions of) that increase the capacity of the system. Replacement or repair projects of existing utility system do not qualify.
- 3) Bonds and LID
- 4) URD Funding – limited availability
- 5) Room Tax (Promote Astoria Funds) – limited availability to Public Works at this time

## Rate History

While reviewing water and sewer ordinances (1973-2019) as a part of the research for the industrial pretreatment program, it was observed that during the last 47-year period the City of Astoria has a systemic pattern of rejecting water and sewer rate increases. Rates have rarely increased more than a few percent annually over the years, which has not kept pace with inflation, unfunded regulatory requirements, or deferred maintenance of our infrastructure. After taking on the added responsibility of maintaining a new wastewater treatment plant and sewer interceptor system with multiple large pumping stations, the rates were only increased minimally for 2 years (1975) before succumbing to a poor economic condition that ceased all increases until 1982 when a small increase was finally approved. Between 2001 and 2010, the average water rate increase was 7.63 percent and then as the CSO surcharge was introduced and progressively increased, the average rate between 2011 and 2020 was a low 1.9 percent. Increases since 2020 have averaged 3.8 percent. This puts us well behind the curve on generating adequate revenue for our high level of deferred maintenance.

## Level of Infrastructure Reinvestment

Astoria's investment in its public infrastructure is underfunded based on standard practices for municipal infrastructure. For example, Astoria's water system is worth approximately \$400 million. Currently, \$500,000 is budgeted annually for maintenance and repair with minimal capital improvements taking place. Assuming an average design life of 50 years, and assuming that about 50% of utility infrastructure needs complete replacement in a design life period, we should be spending \$4 million annually on water infrastructure alone, not considering deferred maintenance.

*Formula:  $\$400,000,000/50 \text{ years} \times 50\% = \$4,000,000 \text{ per year}$*

Unfortunately, Astoria is operating under what is referred to in the industry as a react-and-repair strategy.

## Existing Financial Summary

The City of Astoria has an aging infrastructure and significant budgetary constraints within the Public Works Department. The City needs to develop infrastructure resiliency and be as prepared as possible for a natural disaster or catastrophic seismic event. Added resiliency will help to minimize the loss of life, personal injury, minimize property damage and reduce recovery time. Astoria has some of the oldest infrastructure in the state, with much of our infrastructure at an age of 50 to 125 years old. Typical design life of infrastructure is 20 to 50 years. In addition, the majority of this infrastructure resides within geologically unstable areas that either currently move or will significantly move during a seismic event.

The City of Astoria is in a slow growth pattern with a population of over 10,000. This peak population has remained relatively stable for over 100 years with future growth projected anticipated to be a tenth of a percent with limited open space to grow. This lack of growth

makes generating infrastructure revenue a hardship on our small population. Larger populations can spread out the cost over a larger population base and benefit from lower maintenance infrastructure development through economies of scale.

Due to Astoria’s location, it is subject to windstorm damage, landslide movement, shoreline erosion, earthquake and tsunami damage, flooding and potential drought. Astoria is further burdened by an unfunded mandate - Combined Sewer Overflow (CSO) Program. The CSO program will cost approximately \$50 million and has required the City to acquire significant debt service. This debt service is paid through a CSO utility bill surcharge to ratepayers. In addition to a financial hardship on ratepayers living in a disadvantaged economy, the CSO surcharge has impacted our ability to adjust water and sewer rates limiting our ability to address the following:

- 1) Lack of funding to adequately replace aging infrastructure.
- 2) Lack of funding to hire additional public works staff to operate and maintain current infrastructure. This does not address an increasing regulatory framework to include environmental regulations and changing standards for drinking water quality, wastewater effluent quality and stormwater quality.
- 3) 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 invests 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.
- 4) Staff capacity limits Public Works ability to invest more time in proactive maintenance and critical emergency preparedness projects.

Reduction and eventual elimination of the debt service resulting from the unfunded mandated CSO program and the subsequent ability to increase water and sewer rates would allow the City the chance to: 1) address infrastructure system deficiencies; 2) address staffing deficiencies; and 3) make headway towards a more resilient and reliable infrastructure system.

The table below illustrates and summarizes the financial requirements and the impact on utility rates for every \$1 million borrowed.

Item	Amount
FY 24 Water & Sewer Revenue	\$6,840,986
Assumed Loan Interest Rate	2.02%
Debt Amount	\$1,000,000
Loan Term in Years	25
Annual Payment ( <i>Principal Only</i> )	\$40,000
Annual Payment with Interest	\$40,808
Required Revenue	\$6,881,794
<b>Required Utility Rate Increase for Debt Service Repayment</b>	<b>0.60%</b>



## Infrastructure Funding Strategy

In order to work towards obtaining a goal of sustainable infrastructure funding we have identified the following approach for the next 10-year period with a focus on the first 5 years:

- 1) Complete currently funded projects
- 2) Focus on new grant opportunities with low or no match requirements
- 3) Minimum 3% rate increases necessary to keep up with current level of service
- 4) Request time extensions for the CSO program to reduce the CSO surcharge rate, facilitate the repayment of existing debt, and explore grant opportunities
- 5) Establish a reserve fund strategy

## Summary of Capital Improvement Project Funding

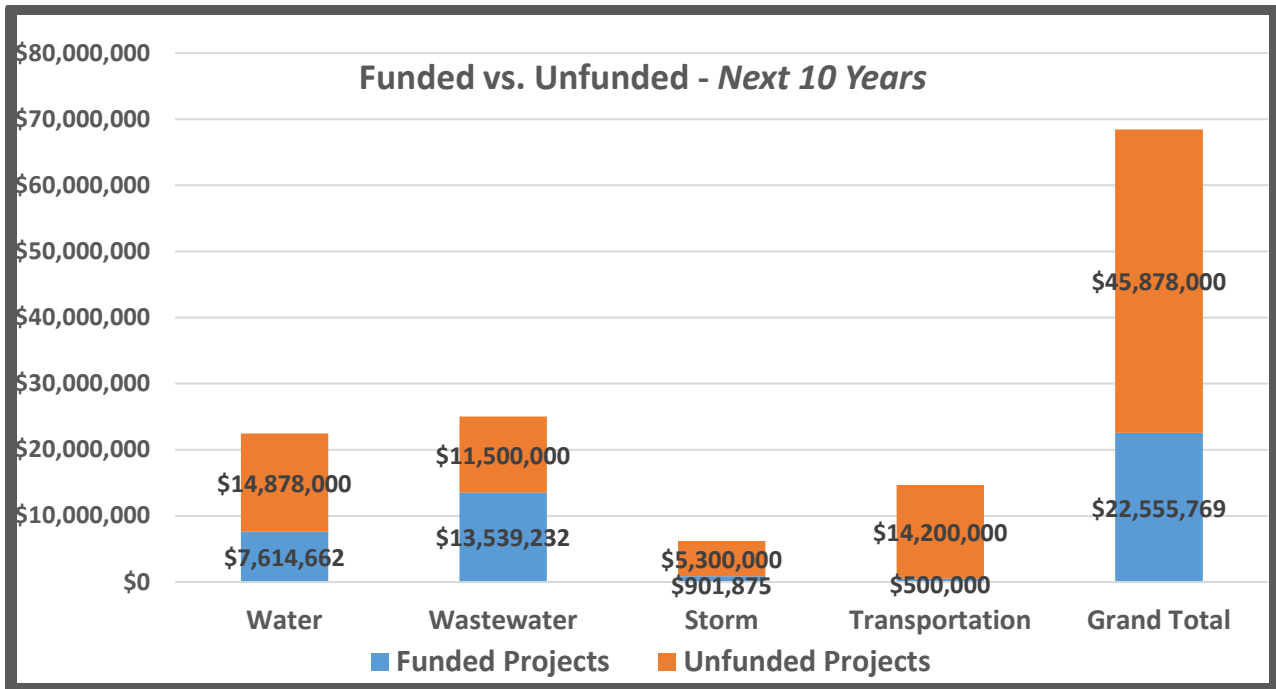
System	Funded Projects	Unfunded Projects	Total
Water	\$7,614,662	\$92,168,000	\$99,782,662
Wastewater	\$13,539,232	\$59,525,000	\$73,064,232
Storm	\$901,875	\$10,550,000	\$11,451,875
Transportation	\$500,000	\$67,640,400	\$68,140,400
<b>Grand Total</b>	<b>\$22,555,769</b>	<b>\$229,883,400</b>	<b>\$252,439,169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

*\*Projects are grouped by infrastructure class and listed in no particular order. A more detailed list of CIP projects and infrastructure can be found in the attached appendices.*

## Highest Priority Projects – Next 10 Years

Capital Improvement Project	Class	Total Project Cost	Funded Yes/No
Pipeline Road Waterline Resilience Project	Water	\$2,930,000	Yes
16th St Distribution Waterline Replacement Project	Water	\$2,790,000	Yes
Irving Ave. (20th - 28th St.) Waterline Resiliency Project	Water	\$1,894,662	Yes
Spur 14 Intake	Water	\$600,000	No
Clearwell and Laboratory at the Water Treatment Plant	Water	\$6,000,000	No
Little Bear Creek Waterline Resilience Project	Water	\$3,400,000	No
16th & Jerome to 18th & Irving Waterline Resilience Project	Water	\$1,000,000	No
Bear Creek Dam Emergency Spillway Project	Water	\$3,878,000	No
WWTP Headworks Improvements Project	Wastewater	\$9,869,232	Yes
Sewage Lift Stations Rehabilitation Project	Wastewater	\$3,670,000	Yes
Wastewater Collection System Assessment & Master Plan	Wastewater	\$1,500,000	No
Sanitary Sewer Pipe Interceptor Comprehensive Evaluation (including cleaning)and Replacement/Rehabilitation Project	Wastewater	\$10,000,000	No
Pre-disaster Landslide Storm Drainage Project (FEMA project)	Storm	\$901,875	Yes
11th Street Tunnel Repair Project	Storm	\$500,000	No
West Craig Creek - rehab, replace or reroute	Storm	\$2,000,000	No
Replace Street End Corrugated Steel Outfall Pipes	Storm	\$1,500,000	No
7th & Clatsop Stormline Extension	Storm	\$300,000	No
Irving & 38th Storm Inlet & Stormline Relocation Project	Storm	\$1,000,000	No
Paving Project (every 2 years)	Transportation	\$500,000	Yes
Irving at 33rd Street Bridge Replacement	Transportation	\$14,200,000	No

*Note: All cost estimates are subject to increase due to inflation and the time that has passed since they were prepared.*



## Appendices

**Appendix A:** CIP Projects List: Outlines projects identified in the City’s Water System Master Plan (WSMP) from 2021 and the Astoria Transportation System Plan (TSP) from 2013, along with other critical projects identified by Staff. This extensive list reflects approximately \$248 million in infrastructure needs across water, sanitary sewer, stormwater, and transportation. Actual costs are expected to be higher due to inflation. While updating all project estimates would be a significant undertaking, they will be revised individually as funding becomes available. This approach will help prioritize critical infrastructure projects and facilitate the identification and pursuit of new grant opportunities. While few of these projects are currently funded, some are eligible for a small portion of System Development Charge reimbursement. This 10-year schedule prioritizes the most urgent projects for the coming decade, but please note that schedules may change as needs evolve over time.

**Appendix B:** Asset Inventory: Details the City’s critical infrastructure, including the age and value of each asset. Staff estimates that the City maintains over \$1 billion in infrastructure assets. Costs for each asset are derived from multiple master plan capital project lists of varying ages, with the understanding that costs are subject to change due to inflation, more detailed estimating in the future, and project scope refinement and development.



## Conclusion

In conclusion, the CIP represents a crucial framework for the City of Astoria to address its aging infrastructure and the financial constraints that limit its ability to provide essential services. This plan and the master plans previously developed represent a collaborative effort between the community, City Council, and staff emphasizing a shared commitment to long-term infrastructure resilience, even in the face of limited growth and resources. The plan looks at the next 10 years with a focus on the next 5 years.

The substantial gap between identified infrastructure needs and available funding highlights the urgency for strategic action. By focusing on critical projects and seeking out new funding sources, the City can take significant steps toward bridging this gap. While ongoing reliance on grants and low-interest loans is crucial for Astoria, it is not a sustainable long-term solution as the city addresses its financial circumstance and prioritizes essential upgrades and repairs.

Additionally, developing a comprehensive funding strategy and increasing community awareness of the infrastructure challenges will be vital in ensuring the City can effectively manage its resources and support future growth. Through these efforts, our goal is to not only to meet immediate infrastructure needs but also to create a resilient foundation for generations to come, ultimately enhancing the quality of life for all residents.

As we look ahead, it will be essential to stay alert to funding opportunities, infrastructure conditions, and community needs. By working towards a proactive approach, Astoria can strive to achieve its vision of a thriving, well-maintained community ready to tackle future challenges.

APPENDIX A: CIP Projects List

Plan Project No.	Capital Improvement Project	Class	Priority	Total Project Cost	Funded Yes/No	SDC Eligibility	Fiscal Year	FY 2024 & Prior	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034
	Paving Project (every 2 years)	Transportation	High	\$500,000	Yes	0.00%	Biennial	\$0	\$500,000	\$0	\$500,000	\$0	\$500,000	\$0	\$500,000	\$0	\$500,000	\$0
	Pipeline Road Waterline Resilience Project	Water	High	\$2,930,000	Yes	9.63%	2023 - 2026	\$550,171	\$1,255,805	\$1,124,024	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	16th St Distribution Waterline Replacement Project	Water	High	\$2,790,000	Yes	0.00%	2023 - 2026	\$546,792	\$2,220,531	\$22,677	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	WWTP Headworks Improvements Project	Wastewater	High	\$9,869,232	Yes	11.20%	2023 - 2026	\$588,314	\$4,746,686	\$4,534,232	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Pre-disaster Landslide Storm Drainage Project (FEMA project)	Storm	High	\$901,875	Yes	0.00%	2025	\$0	\$901,875	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Sewage Lift Stations Rehabilitation Project	Wastewater	High	\$3,670,000	Yes	0.00%	2025 - 2026	\$0	\$1,835,000	\$1,835,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W12	Irving Ave. (20th - 28th St.) Waterline Resiliency Project	Water	High	\$1,894,662	Yes	0.00%	2026 - 2027	\$0	\$0	\$947,000	\$947,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	11th Street Tunnel Repair Project	Storm	High	\$500,000	No	12.69%	2026	\$0	\$0	\$500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Spur 14 Intake	Water	High	\$600,000	No	0.00%	2027	\$0	\$0	\$0	\$600,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W13	Clearwell and Laboratory at the Water Treatment Plant	Water	High	\$6,000,000	No	100.00%	2028	\$0	\$0	\$0	\$0	\$6,000,000	\$0	\$0	\$0	\$0	\$0	\$0
	Wastewater Collection System Assessment & Master Plan	Wastewater	Medium	\$1,500,000	No	0.00%	2028	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$0	\$0	\$0	\$0	\$0
	West Craig Creek - rehab, replace or reroute	Storm	High	\$2,000,000	No	12.69%	2028	\$0	\$0	\$0	\$0	\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$0
	Little Bear Creek Waterline Resilience Project	Water	Medium	\$3,400,000	No	9.63%	2030	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000,000	\$0	\$0	\$0	\$0
	Replace Street End Corrugated Steel Outfall Pipes	Storm	High	\$1,500,000	No	12.69%	2030	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$0	\$0	\$0
	Irving at 33rd Street Bridge Replacement	Transportation	High	\$14,200,000	No	0.00%	2030	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,200,000	\$0	\$0	\$0
	Sanitary Sewer Pipe Interceptor Comprehensive Evaluation (including cleaning)and Replacement/Rehabilitation Project	Wastewater	Medium	\$10,000,000	No	0.00%	2030 - 2034	\$0	\$0	\$0	\$0	\$0	\$0	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
W9	16th & Jerome to 18th & Irving Waterline Resilience Project	Water	High	\$1,000,000	No	0.00%	2031	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$460,000	\$0	\$0	\$0
	7th & Clatsop Stormline Extension	Storm	High	\$300,000	No	12.69%	2032	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000	\$0	\$0
	Bear Creek Dam Emergency Spillway Project	Water	Medium	\$3,878,000	No	9.63%	2034	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,878,000
	Irving & 38th Storm Inlet & Stormline Relocation Project	Storm	Medium	\$1,000,000	No	12.69%	2034	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000
W1	Install 10,350 LF 12" main to complete waterfront looped backbone	Water	High	\$4,310,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W10	Replace existing water meters with AMR system	Water	High	\$1,500,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W11	Install 430 LF 8" main to 2nd St/Franklin Ave, 2,500 LF 12" main from 1st St/Kensington Ave to 6th St/Grand Ave, 1,200 LF 12" main from 6th St/Grand Ave to 3rd St/Franklin Ave	Water	High	\$1,680,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W2	Install 900 LF 12" main from Portway St/Industry St to Hamburg St/Industry St	Water	High	\$370,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W3	Install 2,500 LF 12" main from the Port to W Marine View/Denver St	Water	High	\$1,040,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W4	Install 1,100 LF 14", 1400 LF 18" transmission main from Reservoir 2 to Low Pressure Zone	Water	High	\$1,280,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W5	Install 2,600 LF 8" main from 8th St/Irving Ave to 1st St/W Grand Ave	Water	High	\$850,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W6	Project to improve fire flow at Skyline	Water	High	\$580,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W7	Install fire pump at East Astoria Tanks	Water	High	\$350,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W8	a. Upgrade existing main from 35th St/Irving Ave to 36th St/Grand Ave (1,200 LF) b. Install new main from East Astoria pipeline (Emerald Heights) to 43rd St/Franklin Ave (2,500 LF)"	Water	High	\$1,430,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W19	Install 800 LF 12" main from 11th St/James Ave to 11th St /Kensington Ave	Water	Low	\$330,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W20	Install 900 LF 8" main from 9th St/Klaskanine Ave to 9th St/McClure Ave	Water	Low	\$290,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W21	Install 370 LF 8" main from Franklin Ave to Grand Ave (along 26th St or 27th St)	Water	Low	\$120,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W22	Install 350 LF 6" main from 51st St/Cedar St to 51st St/Lief Erikson Dr, 50 LF 2" main to extend dead-end service on Lief Erikson Dr	Water	Low	\$110,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W23	Install 2,750 LF 12" main from 6th St/Kensington Ave to 15th St/Lexington Ave	Water	Low	\$1,140,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W24	Replace Navy Hospital Swamp Line	Water	Low	\$500,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W25	Replace 21" meters (2) for Reservoir No. 3	Water	Low	\$100,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W26	Replace 10" meter and 12" meter for Reservoir No. 2	Water	Low	\$100,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W27	Replace Cedar Creek culvert with bridge	Water	Low	\$350,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W28	Install new slide gates on Bear Creek and Cedar Creek diversion structures	Water	Low	\$100,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W14	In downtown area: loop existing 4" dead-ends to existing 10" and 12" mains where possible or relocate services to existing 10" and 12" mains where possible.	Water	Medium	\$100,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

APPENDIX A: CIP Projects List

Plan Project No.	Capital Improvement Project	Class	Priority	Total Project Cost	Funded Yes/No	SDC Eligibility	Fiscal Year	FY 2024 & Prior	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034
W15	Install 2,100 LF 10" main from 2nd St/Franklin Ave to Lincoln St/W Grand Ave, 2,430 LF 10" main from Lincoln St/W Grand Ave to W Lexington St/W Grand Ave	Water	Medium	\$1,680,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W16	Install 900 LF 8" main from Wall St and SE 2nd St to Howard St	Water	Medium	\$290,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W17	Install 300 LF 8" main on Washington St from W Bond St to Alameda Ave	Water	Medium	\$100,000	No	9.63%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W18	Replace gas chlorination system with liquid hypochlorite system	Water	Medium	\$260,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W29	Replace or retrofit in-town reservoirs	Water	Low - Aspirational	\$15,000,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
W30	Install 12 miles 24" transmission main	Water	Low - Aspirational	\$43,330,000	No	9.63%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	7th St and Olney Sanitary Sewer Repair (Fultano's)	Wastewater	High	\$400,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	32nd St & Franklin Collapsed Sanitary Sewer	Wastewater	High	\$150,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Combined Sewer Overflow (CSO) Phase 5	Wastewater	High	\$18,000,000	No	0.49%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	PS#6 Rehabilitation Project	Wastewater	Medium	\$100,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Replace existing concrete sewer pipe on Cedar Street from 47th to 50th	Wastewater	Medium	\$600,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Remove power line in sewer pipe at 33rd St & Lief Erikson Drive	Wastewater	Medium	\$25,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Remove plugged diversion manholes and replace with straight pipe	Wastewater	Medium	\$200,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Senior Center 8-inch Sewer Line Repair	Wastewater	Medium	\$500,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	36th & Lief Erikson Drive Sewer	Wastewater	Medium	\$250,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Replace 8" concrete sewer pipe north of Marine between Hamburg & Hull (behind Dutch Bros)	Wastewater	Medium	\$400,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Replace sewer pipe on Alameda between Melbourne & Columbia	Wastewater	Low	\$400,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	On-site Chlorine Generation Project	Wastewater	Low	\$2,000,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Sanitary Sewer Pipe Replacement/Rehabilitation Project (Downtown)	Wastewater	Low - Aspirational	\$15,000,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Sanitary Sewer Pipe Replacement Project (City-wide Critical Areas)	Wastewater	Low - Aspirational	\$10,000,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Pre-Disaster Landslide Storm Drainage Project (Remaining areas)	Storm	Medium	\$5,000,000	No	12.69%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Large Diameter Stormwater Outfall Pipe Flushing & Repair Project	Storm	Medium	\$250,000	No	12.69%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	OR202 Sidewalk Project - Phase 2	Transportation	High	\$4,000,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Denver & Alameda Sidewalk Project	Transportation	Medium	\$960,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Shared Roadway Enhancements - Various Locations (TSP Projects # B1, B2, B3, B5, B6, B7, B8, B9, B10, B11, B12, B14, B15, B16, B17, B18, B20, B21, B22, B23, B33, B34, B35, B36, B37, B38, B39, B40, B43, B44, B47, B49, B52, B53, B55)	Transportation	Short-Term Likely Funded Plan	\$334,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$334,000	\$0	\$0	\$0	\$0	\$0
B50	Marine Drive/W Marine Drive Bike Lanes – Bay St. to 6 <sup>th</sup> St. (This project was partially completed with the Marine Drive road reconfiguration project from Hume Ave. to 8 <sup>th</sup> St.)	Transportation	Short-term Likely Funded Plan	\$32,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CR-06	OR202 and 4th St Crossing Enhancements - OR202 and 4th Street	Transportation	Short-term Likely Funded Plan	\$34,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CR-08	US 30 and 6 <sup>th</sup> St. Crossing Enhancements (included with Marine Drive-Columbia to 9th Circulation Option)	Transportation	Short-term Likely Funded Plan	\$75,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CR-09	US 30 and 8th Street Crossing Enhancements (included with Marine Drive-Columbia to 9th Circulation Option)	Transportation	Short-term Likely Funded Plan	\$75,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CR-10	Commercial and 8 <sup>th</sup> Street Crossing Enhancements (included with Marine Drive- Columbia to 9th Circulation Option)	Transportation	Short-term Likely Funded Plan	\$75,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CR-13	US 30 and 16th Street Crossing Enhancements	Transportation	Short-term Likely Funded Plan	\$21,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D1	7th Street Road Diet - Niagara Avenue to OR 202	Transportation	Short-Term Likely Funded Plan	\$103,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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Plan Project No.	Capital Improvement Project	Class	Priority	Total Project Cost	Funded Yes/No	SDC Eligibility	Fiscal Year	FY 2024 & Prior	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034
D14	Niagara Avenue Road Diet - 7th Street to 15th Street; 3rd Street to 7th Street Optional.	Transportation	Short-term Likely Funded Plan	\$275,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D21	Marine Drive – Columbia to 9 <sup>th</sup> Circulation Option (This project has been partially completed with a road reconfiguration from Columbia Ave. to 8th Street. ODOT completed this in 2023. It did not include relocation of the traffic signal from 9th to 10th Street)	Transportation	Short-Term Likely Funded Plan	\$446,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P5	8th Street (South) Sidewalk Infill - Kensington Avenue to Madison Avenue	Transportation	Short-Term Likely Funded Plan	\$99,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B41	OR 202/W Marine Drive Bike Lanes - High School to Williamsport Road	Transportation	Medium-term Likely Funded Plan	\$44,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B42	US 30 Bike Lanes - From the eastern extent of the existing bike lane between 39th and 43rd to the eastern City Limits (near Old Hwy 30)	Transportation	Medium-term Likely Funded Plan	\$89,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B48	Leif Erikson Drive Bike Lanes - 33rd Street to 39th Street	Transportation	Medium-term Likely Funded Plan	\$22,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CR-11	Exchange and 13 <sup>th</sup> Street Crossing Enhancements	Transportation	Medium-term Likely Funded Plan	\$34,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D2	US 101-US 30 Coordinated Signal Timing Plans - US 101-US 30 from Portway Street to Columbia Avenue-Bond Street	Transportation	Medium-term Likely Funded Plan	\$75,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D3	Marine Drive Coordinated Signal Timing Plans - Marine Drive from 30 <sup>th</sup> Street to 33rd Street	Transportation	Medium-term Likely Funded Plan	\$50,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D39	Downtown Circulation Feasibility Study	Transportation	Medium-term Likely Funded Plan	\$100,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P1	15th Street Sidewalk Infill - Jerome Avenue to Niagara Avenue	Transportation	Medium-term Likely Funded Plan	\$204,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P20	Oregon Street Sidewalk Infill - Florence Avenue to Alameda Avenue	Transportation	Medium-term Likely Funded Plan	\$75,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P23	Vista Drive Sidewalk Infill - Alameda Avenue to W Marine Drive	Transportation	Medium-term Likely Funded Plan	\$133,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P28	W Niagara Avenue Sidewalk Infill - Glasgow Avenue to East of Alameda Avenue	Transportation	Medium-term Likely Funded Plan	\$126,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P31	Alameda Avenue Sidewalk Infill - Existing shared use path to Bridgeview Court	Transportation	Medium-term Likely Funded Plan	\$392,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P8	Florence Avenue Sidewalk Infill - Rivington Street to Oregon Street	Transportation	Medium-term Likely Funded Plan	\$168,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P9	Franklin Avenue Sidewalk Infill - 7th Street to 8th Street	Transportation	Medium-term Likely Funded Plan	\$46,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
T1	Bus Stop Amenity Enhancement	Transportation	Medium-term Likely Funded Plan	\$100,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B54	Niagara Avenue Bike Lanes - 17th Street to 15th Street	Transportation	Long term Likely Funded Plan	\$23,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
S1	Middle School Connector Bicycle and Pedestrian Trail - James Street to Middle School	Transportation	Long term Likely Funded Plan	\$139,000	No	100.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
S2	Commercial Connection Bicycle and Pedestrian Trail - Commercial Street western terminus to Alameda Avenue	Transportation	Long term Likely Funded Plan	\$79,000	No	100.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B13	8th Street Bike Lane / Shared Roadway Enhancements - Niagara Avenue to Irving Avenue	Transportation	Long-Term Phase 1 Likely Funded Plan	\$13,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
B4	7th Street Bike Lane / Shared Roadway Enhancements - Niagara Avenue to OR 202	Transportation	Long-Term Phase 1 Likely Funded Plan	\$29,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CR-02	US 30 and 45th Street Crossing Enhancements - US 30 and 45th Street	Transportation	Long-Term Phase 1 Likely Funded Plan	\$26,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CR-03	US 30 and 37th Street Crossing Enhancements - US 30 and 37th Street	Transportation	Long-Term Phase 1 Likely Funded Plan	\$26,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CR-04	OR202 and 7th Street Intersection Enhancements - OR202 and 7th Street	Transportation	Long-Term Phase 1 Likely Funded Plan	\$1,200	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CR-05	Niagara between 8th and 9th Crossing Enhancements - Niagara between 8th and 9 <sup>th</sup>	Transportation	Long-Term Phase 1 Likely Funded Plan	\$34,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CR-07	OR202 just east of Hannover Street Crossing Enhancements	Transportation	Long-Term Phase 1 Likely Funded Plan	\$34,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CR-14	US 30 and 18th Street Crossing Enhancements	Transportation	Long-Term Phase 1 Likely Funded Plan	\$17,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CR-16	Commercial at 10th, 11th and 12th Crossing Enhancements	Transportation	Long-Term Phase 1 Likely Funded Plan	\$100,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CR-17	Roundabout Enhancements - Provide additional signage at roundabout to clarify expected behavior for bicyclists or consider alternate route using Taylor Avenue	Transportation	Long-Term Phase 1 Likely Funded Plan	\$1,200	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CR-18	Niagara and 15th Street Enhance existing crosswalk with high visibility zebra striping and adequate lighting.	Transportation	Long-Term Phase 1 Likely Funded Plan	\$17,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D12	OR 202/7th Street Safety Enhancement	Transportation	Long-Term Phase 1 Likely Funded Plan	\$160,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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Plan Project No.	Capital Improvement Project	Class	Priority	Total Project Cost	Funded Yes/No	SDC Eligibility	Fiscal Year	FY 2024 & Prior	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034
D22	OR 202/Denver Street Capacity Enhancement	Transportation	Long-Term Phase 1 Likely Funded Plan	\$1,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D25	Bay Street Extension - North of US 30 to Industry Street Extension	Transportation	Long-Term Phase 1 Likely Funded Plan	\$293,000	No	100.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P7	Bond Street Sidewalk Infill – Hume Ave. to West of 2 <sup>nd</sup> St. (This project has been completed for the north side of Bond St., however it cannot be completed on the south side due impacts from the 1st and Commercial slide.)	Transportation	Long-Term Phase 1 Likely Funded Plan	\$195,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D24	Industry Street Extension - Basin Street to Bay Street Extension	Transportation	Long-Term Phase 1 Likely Funded Plan	\$1,057,000	No	100.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D10	US 30/Liberty Lane Safety Enhancement	Transportation	Long-Term Phase 2 Aspirational Plan	\$362,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D26	Williamsport Road/ James Street Realignment	Transportation	Long-Term Phase 2 Aspirational Plan	\$270,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D29	Maritime Road Extension - Old US Highway 30 to Railroad	Transportation	Long-Term Phase 2 Aspirational Plan	\$876,000	No	100.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D32	OR 202 Safety Enhancement - OR 202 from 8th Street to SE 2nd Street	Transportation	Long-Term Phase 2 Aspirational Plan	\$592,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D36	Tongue Point Road Upgrade - Old US Highway 30 to Pier Street	Transportation	Long-Term Phase 2 Aspirational Plan	\$1,119,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D37	54th Street-Old US Highway 30 Upgrade - US 30 to Tongue Point Road	Transportation	Long-Term Phase 2 Aspirational Plan	\$2,328,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D38	Maritime Road-Old US Highway 30 Upgrade - Tongue Point Road to US 30	Transportation	Long-Term Phase 2 Aspirational Plan	\$893,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D5	Downtown Traffic Signal Upgrade (This project was partially completed with the addition of new signal backplates, enforcement lights, and countdown pedestrian signals. I don't believe it included communication upgrades.)	Transportation	Long-Term Phase 2 Aspirational Plan	\$1,492,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D8	US 30/54th Street Safety Enhancement	Transportation	Long-Term Phase 2 Aspirational Plan	\$297,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D9	US 30/Nimitz-Maritime Road Safety Enhancement	Transportation	Long-Term Phase 2 Aspirational Plan	\$242,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P21	S Denver Street Community Based Solution - Clatsop Avenue to Glasgow Avenue	Transportation	Long-Term Phase 2 Aspirational Plan	\$49,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P27a	W Marine Drive Sidewalk Infill – Florence Ave. to 4 <sup>th</sup> St. – Complete Sidewalk gaps on N. side of street. (This project is currently funded by ODOT and in the final design stage prior to bidding. Construction is anticipated to be completed by Fall 2024.)	Transportation	Long-Term Phase 2 Aspirational Plan	\$3,700,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P29	W Niagara Avenue Community Based Solution - W Clatsop Avenue to Sonora Avenue	Transportation	Long-Term Phase 2 Aspirational Plan	\$191,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D11	OR 202/US 101 Business Safety Enhancement	Transportation	Long-Term Phase 3 Aspirational Plan	\$5,291,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D19	US 101/Hamburg Avenue Capacity Enhancement	Transportation	Long-Term Phase 3 Aspirational Plan	\$26,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D20	US 30/16th Street Capacity Enhancement	Transportation	Long-Term Phase 3 Aspirational Plan	\$319,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D27	Log Bronc Way Extension - 30th Street to 32nd Street	Transportation	Long-Term Phase 3 Aspirational Plan	\$977,000	No	100.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D28	Abbey Lane Extension - 36th Street to 39th Street	Transportation	Long-Term Phase 3 Aspirational Plan	\$974,000	No	100.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D33	US 101 Business Capacity Enhancement – OR 202 south to Miles Crossing	Transportation	Long-Term Phase 3 Aspirational Plan	\$5,470,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D34	Portway Street Capacity Enhancement - Portway Street from US 101 to Industry Street	Transportation	Long-Term Phase 3 Aspirational Plan	\$424,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D35	Bay Street Upgrade - US 30 to northern terminus	Transportation	Long-Term Phase 3 Aspirational Plan	\$68,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D7	US 30/45th Street Safety Enhancement	Transportation	Long-Term Phase 3 Aspirational Plan	\$323,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P19	Olney Avenue Sidewalk Infill - 4th Street to 7th Street	Transportation	Long-Term Phase 3 Aspirational Plan	\$2,315,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P2	16th Street Sidewalk Infill - Niagara Avenue to Williamsport Road	Transportation	Long-Term Phase 3 Aspirational Plan	\$130,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P22	Sonora Avenue Community Based Solution - W Lexington Avenue to W Niagara Avenue	Transportation	Long-Term Phase 3 Aspirational Plan	\$25,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
T2	OR 202/US 101 Business Transit Pullout	Transportation	Long-Term Phase 3 Aspirational Plan	\$75,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D13	OR 202/Williamsport Road Safety Enhancement	Transportation	Long-Term Phase 4 Aspirational Plan	\$117,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



**APPENDIX A: CIP Projects List**

Plan Project No.	Capital Improvement Project	Class	Priority	Total Project Cost	Funded Yes/No	SDC Eligibility	Fiscal Year	FY 2024 & Prior	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034
D16	Niagara Avenue/7 <sup>th</sup> Street Safety Enhancement	Transportation	Long-Term Phase 4 Aspirational Plan	\$238,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D17	Niagara Avenue/8 <sup>th</sup> Street Safety Enhancement	Transportation	Long-Term Phase 4 Aspirational Plan	\$238,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D30	Irving Avenue Extension - 38th Street to Nimitz Drive- Spruance Road	Transportation	Long-Term Phase 4 Aspirational Plan	\$6,941,000	No	100.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D31	US 30 Safety Enhancement - US 30 from 27th Street to Franklin Avenue	Transportation	Long-Term Phase 4 Aspirational Plan	\$267,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D4	US 30 Speed Warning System - US 30 east of 50th Street	Transportation	Long-Term Phase 4 Aspirational Plan	\$25,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
D6	US 30/Exchange Street/23rd Street Safety Enhancement	Transportation	Long-Term Phase 4 Aspirational Plan	\$1,547,000	No	12.10%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P10	Grand Avenue Sidewalk Infill - W Lexington Avenue to 2nd Street	Transportation	Long-Term Phase 4 Aspirational Plan	\$44,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P12	Irving Avenue Community Based Solution - 13th Street to 35th Street	Transportation	Long-Term Phase 4 Aspirational Plan	\$829,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P13	Leif Erickson Drive (West) Sidewalk Infill - 38th Street to 500' west of 43rd Street	Transportation	Long-Term Phase 4 Aspirational Plan	\$265,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P14	Leif Erickson Drive (East) Sidewalk Infill - 46th Street to 54th Street	Transportation	Long-Term Phase 4 Aspirational Plan	\$488,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P24	W Grand Avenue Community Based Solution - W Lexington Avenue to 2 <sup>nd</sup> Street	Transportation	Long-Term Phase 4 Aspirational Plan	\$136,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P25	W Lexington Avenue Community Based Solution - Alameda Avenue to 2 <sup>nd</sup> Street	Transportation	Long-Term Phase 4 Aspirational Plan	\$195,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P27b	W Marine Drive Sidewalk Infill - Florence Avenue to 4 <sup>th</sup> Street – Complete sidewalks on S side of street	Transportation	Long-Term Phase 4 Aspirational Plan	\$1,000,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P3	1st Street Sidewalk Infill - W Lexington Avenue to 2 <sup>nd</sup> Street	Transportation	Long-Term Phase 4 Aspirational Plan	\$54,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P30	Williamsport Road Sidewalk Infill - 16th Street to SE Front Street	Transportation	Long-Term Phase 4 Aspirational Plan	\$1,724,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P4	2nd Street Sidewalk Infill - Grand Avenue to Franklin Avenue	Transportation	Long-Term Phase 4 Aspirational Plan	\$49,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
P6	Alameda Avenue Community Based Solution - West of Melbourne Avenue to Grand Avenue	Transportation	Long-Term Phase 4 Aspirational Plan	\$23,000	No	0.00%	Not Scheduled	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

	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
<b>Grand Total</b>	<b>\$22,555,769</b>	<b>\$229,883,400</b>	<b>\$252,439,169</b>

City of Astoria Public Works Department  
Asset Inventory

Category	Sub-category	Asset	Sub-asset	Features	Unit	Quantity	Unit Cost	Value	Year Built	Age	Annual Maint.	Notes
Water	Watershed	Property			Acres	3,700	\$1,500	\$5,550,000				Property Value from County Assessor Estimate
Water	Watershed	Roads			Miles	27	\$100,000	\$2,720,000	varies	varies	\$40,000.00	
Water	Watershed	Timber			Acres	3,700	\$10,811	\$40,000,001		varies		\$20-30 million in 1999 OSU Watershed Evaluation (\$33-49 in 2021) Used average of \$40 million
Water	Watershed	Security System			LS	1	\$10,000	\$50,000				
Water	Watershed	Reservoirs (Raw Water)	Main Lake	Water Rights								
Water	Watershed	Reservoirs (Raw Water)	Bear Creek	Water Rights								
Water	Watershed	Reservoirs (Raw Water)	Cedar Creek	Water Rights								
Water	Watershed	Reservoirs (Raw Water)	Youngs River	Water Rights								
Water	Watershed	Reservoirs (Raw Water)	Big Creek	Water Rights								
Water	Watershed	Diversions Structures			Each	3	\$500,000	\$1,500,000				
Water	Watershed	Reservoirs (Raw Water)	Wickiup Lake		Each	1	\$10,000,000	\$10,000,000	1928	96		100 MG
Water	Watershed	Reservoirs (Raw Water)	Wickiup Lake	Outlet Structure	Each	1	\$100,000	\$100,000				
Water	Watershed	Reservoirs (Raw Water)	Middle Lake		Each	1	\$15,000,000	\$15,000,000	1928	96		
Water	Watershed	Reservoirs (Raw Water)	Middle Lake	Intake & Piping	LS	1	\$100,000	\$100,000				
Water	Watershed	Reservoirs (Raw Water)	Middle Lake	12-inch pipe	LF	10,000	\$160	\$1,600,000				
Water	Watershed	Reservoirs (Raw Water)	Middle Lake	Spur 14 Conveyance	LS	1	\$350,000	\$350,000				
Water	Watershed	Reservoirs (Raw Water)	Middle Lake	Valving	LS	1	\$150,000	\$150,000				
Water	Watershed	Reservoirs (Raw Water)	Middle Lake	Meters	Each	3	\$3,500	\$10,500				
Water	Watershed	Reservoirs (Raw Water)	Middle Lake	PRV	Each	3	\$200,000	\$600,000				
Water	Watershed	Reservoirs (Raw Water)	Middle Lake	Solar Bee	Each	1	\$20,000	\$20,000				52 MG
Water	Watershed	Reservoirs (Raw Water)	Main lake		Each	1	\$30,000,000	\$30,000,000				200 MG
Water	Watershed	Reservoirs (Raw Water)	Main lake	Concrete Dam	Each	1	\$50,000,000	\$50,000,000	1911	113		WRD - EAP & Annual Power Claim Statement \$50/yr & Insp Fee
Water	Watershed	Reservoirs (Raw Water)	Main lake	Barrel Gate	Each	1	\$50,000	\$50,000				Need O&M Plan
Water	Watershed	Reservoirs (Raw Water)	Main lake	Valving	LS	1	\$300,000	\$300,000				
Water	Watershed	Reservoirs (Raw Water)	Main lake	Spillway Apron	Each	1	\$50,000	\$50,000				
Water	Watershed	Reservoirs (Raw Water)	Main lake	Pumps	Each	2	\$50,000	\$100,000				
Water	Watershed	Slow Sand Filter System	SSF #1		Each	1	\$3,000,000	\$3,000,000	1993	31		Resanding at 5-6 year interval
Water	Watershed	Slow Sand Filter System	SSF #2		Each	1	\$3,000,000	\$3,000,000	1993	31		Resanding at 5-6 year interval
Water	Watershed	Slow Sand Filter System	SSF #3		Each	1	\$3,000,000	\$3,000,000	1993	31		Resanding at 5-6 year interval
Water	Watershed	Slow Sand Filter System	SSF #4		Each	1	\$4,000,000	\$4,000,000	1996	28		Resanding at 5-6 year interval
Water	Watershed	Slow Sand Filter System	Cleaning Equip		Each	1	\$750,000	\$750,000				
Water	Watershed	Residence			LS	1	\$300,000	\$300,000				
Water	Watershed	Building	Lab and Shop		LS	1	\$750,000	\$750,000				State Reporting of hazardous substance per ERP
Water	Watershed	Generators			Each	2	\$50,000	\$100,000				80 kW and 35 kW
Water	Watershed	Instrumentation			LS	1	\$200,000	\$200,000				
Water	Watershed	Hydropower System			LS	1	\$400,000	\$400,000				30 kW
Water	Watershed	CT Structure			LS	1	\$200,000	\$200,000				
Water	Transmission Main	Pipeline			Feet	63,360	\$650	\$41,184,000				
Water	Transmission Main	Air Vacs			Each	41	\$5,000	\$205,000				
Water	Transmission Main	Gate Valves			Each	11	\$10,000	\$110,000				
Water	Transmission Main	Blow Off			Each	9	\$4,000	\$36,000				
Water	Reservoir #3	Reservoir			Each	1	\$40,000,000	\$40,000,000	1917	107		20 MG (\$1 per gal estimated cost)
Water	Reservoir #3	Residence			Each	1	\$300,000	\$300,000				
Water	Reservoir #3	Building			LS	1	\$900,000	\$900,000	1919	105		
Water	Reservoir #3	Chain Link Fence			Feet	1,600	\$15	\$24,000				
Water	Reservoir #3	Cover & Liner			Each	1	\$2,000,000	\$2,000,000				
Water	Reservoir #3	Pumps			Each	8	\$20,000	\$160,000				
Water	Reservoir #3	Generators			Each	2	\$30,000	\$60,000				7 kW
Water	Reservoir #3	Meter	21-inch		Each	2	\$50,000	\$100,000				
Water	Reservoir #3	Meter	18-inch		Each	1	\$40,000	\$40,000				
Water	Reservoir #3	Meter	10-inch		Each	2	\$12,000	\$24,000				
Water	Reservoir #3	Well			Each	1	\$1,000,000	\$1,000,000				63,000 gallons
Water	Reservoir #2	Reservoir			LS	1	\$11,000,000	\$11,000,000	1895	129		5.5 MG (\$2 per gallon estimated cost)
Water	Reservoir #2	Building			Each	1	\$1,200,000	\$1,200,000	1895	129		
Water	Reservoir #2	Chain Link Fence			Feet	1,025	\$15	\$15,375				
Water	Reservoir #2	Cover & Liner			Each	1	\$2,000,000	\$2,000,000	2012	12		
Water	Reservoir #2	Pumps			Each	4	\$2,000	\$8,000				
Water	Reservoir #2	Generator			Each	1	\$30,000	\$30,000				15 kW
Water	Reservoir #2	Meter	18-inch		Each	1	\$50,000	\$50,000				
Water	Reservoir #2	Meter	12-inch		Each	1	\$20,000	\$20,000				
Water	Reservoir #2	Meter	8-inch		Each	1	\$10,000	\$10,000				
Water	Reservoir #2	Well			LS	1	\$500,000	\$500,000				6,000 gallons
Water	Reservoir #2	Instrumentation			LS	1	\$50,000	\$50,000				
Water	East Astoria Tanks	Tanks			Each	2	\$1,000,000	\$2,000,000	1999	25		150,000 gallons each
Water	East Astoria Tanks	Valving			LS	1	\$20,000	\$20,000	1999	25		
Water	East Astoria Tanks	Instrumentation			LS	1	\$50,000	\$50,000	1999	25		

City of Astoria Public Works Department  
Asset Inventory

Category	Sub-category	Asset	Sub-asset	Features	Unit	Quantity	Unit Cost	Value	Year Built	Age	Annual Maint.	Notes
Water	Skyline Tank	Tank			Each	1	\$2,000,000	\$2,000,000	2006	18		131,000 gallons
Water	Skyline Tank	Building			Each	1	\$200,000	\$200,000	2006	18		
Water	Skyline Tank	Generator			Each	1	\$20,000	\$20,000	2006	18		20 kW
Water	Skyline Tank	Pumps			Each	3	\$30,000	\$90,000	2006	18		
Water	Skyline Tank	Instrumentation			LS	1	\$20,000	\$20,000				
Water	Pump Station	11th & Niagara PS		1.5 HP PUMPS	LS	1	\$100,000	\$100,000				
Water	Pump Station	14th & Madison PS		5 HP PUMPS	LS	1	\$100,000	\$100,000				
Water	Pump Station	Column PS		2 HP PUMPS	LS	1	\$100,000	\$100,000				
Water	Distribution System	Res 2 Tunnel	18-inch		LS	1	\$20,000,000	\$20,000,000	Various			
Water	Distribution System	Res 3 Tunnel	18-inch		LS	1	\$30,000,000	\$30,000,000	Various			
Water	Distribution System	Water Main	24-inch		LF	143	\$370	\$52,910	Various			
Water	Distribution System	Water Main	22-inch		LF	90	\$330	\$29,700	Various			
Water	Distribution System	Water Main	21-inch		LF	12,096	\$300	\$3,628,800	Various			
Water	Distribution System	Water Main	18-inch		LF	9,788	\$250	\$2,447,000	Various			
Water	Distribution System	Water Main	16-inch		LF	256	\$240	\$61,440	Various			
Water	Distribution System	Water Main	14-inch		LF	7,170	\$230	\$1,649,100	Various			
Water	Distribution System	Water Main	12-inch		LF	68,765	\$210	\$14,440,650	Various			
Water	Distribution System	Water Main	10-inch		LF	27,419	\$180	\$4,935,420	Various			
Water	Distribution System	Water Main	8-inch		LF	67,191	\$170	\$11,422,470	Various			
Water	Distribution System	Water Main	6-inch		LF	124,098	\$160	\$19,855,680	Various			
Water	Distribution System	Water Main	4-inch		LF	26,985	\$150	\$4,047,750	Various			
Water	Distribution System	Water Main	3-inch		LF	2,010	\$140	\$281,400	Various			
Water	Distribution System	Water Main	2-inch		LF	51,252	\$130	\$6,662,760	Various			
Water	Distribution System	Fire Hydrants			Each	448	\$5,000	\$2,240,000	Various			
Water	Distribution System	Water Meters	5/8 x 3/4 inch		Each	3,597	\$7,000	\$25,179,000	Various			
Water	Distribution System	Water Meters	Sprinkler		Each	17	\$7,000	\$119,000	Various			
Water	Distribution System	Water Meters	1 inch		Each	241	\$7,000	\$1,687,000	Various			
Water	Distribution System	Water Meters	1.5 inch		Each	53	\$10,000	\$530,000	Various			
Water	Distribution System	Water Meters	2 inch		Each	101	\$10,000	\$1,010,000	Various			
Water	Distribution System	Water Meters	3 inch		Each	25	\$15,000	\$375,000	Various			
Water	Distribution System	Water Meters	4 inch		Each	14	\$15,000	\$210,000	Various			
Water	Distribution System	Water Meters	6 inch		Each	10	\$30,000	\$300,000	Various			
Water	Distribution System	Water Meters	8 inch		Each	4	\$30,000	\$120,000	Various			
Water	Distribution System	Water Meters	10 inch		Each	1	\$50,000	\$50,000	Various			
Water	Distribution System	Sample Stations			Each	22	\$2,000	\$44,000	Various			
Water	Distribution System	Gate Valves	18-inch		Each	8	\$8,000	\$64,000	Various			Total gate valves, all sizes: 2,746
Water	Distribution System	Gate Valves	14-inch		Each	6	\$5,600	\$33,600	Various			
Water	Distribution System	Gate Valves	12-inch		Each	218	\$4,600	\$1,002,800	Various			
Water	Distribution System	Gate Valves	10-inch		Each	126	\$4,000	\$504,000	Various			
Water	Distribution System	Gate Valves	8-inch		Each	351	\$2,600	\$912,600	Various			
Water	Distribution System	Gate Valves	6-inch		Each	1,107	\$1,600	\$1,771,200	Various			
Water	Distribution System	Gate Valves	4-inch		Each	217	\$1,400	\$303,800	Various			
Water	Distribution System	Gate Valves	2-inch		Each	456	\$1,200	\$547,200	Various			
Water	Distribution System	PRV	12-inch		Each	2	\$350,000	\$700,000	Various			
Water	Distribution System	PRV	10-inch		Each	4	\$250,000	\$1,000,000	Various			
Water	Distribution System	PRV	8-inch		Each	3	\$250,000	\$750,000	Various			
Water	Distribution System	PRV	6-inch		Each	3	\$150,000	\$450,000	Various			
Water	Distribution System	PRV	4-inch		Each	1	\$50,000	\$50,000	Various			
Water	Distribution System	PRV	3-inch		Each	6	\$50,000	\$300,000	Various			
Water	Distribution System	PRV	2-inch		Each	12	\$25,000	\$300,000	Various			
Water	Distribution System	PRV	1-inch		Each	3	\$25,000	\$75,000	Various			
Water	Distribution System	Back Flow Preventers			Each	75	\$1,500	\$112,500	Various			Average Cost (\$200-\$3,000)
Water	Distribution System	Blow Off			Each	200	\$4,000	\$800,000	Various			
Water	Distribution System	Flushers			Each	5	\$5,500	\$27,500	Various			
								<b>\$440,760,156</b>				
Sewer	WWTP	Lagoon 1		21 MG	Each	1	\$10,000,000	\$10,000,000	1974	50		NPDES Permit for Entire Plant
Sewer	WWTP	Lagoon 2		18 MG	Each	1	\$10,000,000	\$10,000,000	1974	50		
Sewer	WWTP	Lagoon 3		19.2 MG	Each	1	\$10,000,000	\$10,000,000	1974	50		
Sewer	WWTP	Aerators			Each	9	\$200,000	\$1,800,000	2002	22		6 aerators replaced in 2002
Sewer	WWTP	Chlorine contact chamber			Each	1	\$400,000	\$400,000	2013	11		originally built in 1974
Sewer	WWTP	Dechlor Building	Generator		Each	1	\$45,000	\$45,000	2013	11		
Sewer	WWTP	Dechlor Building	Building		Each	1	\$300,000	\$300,000	2013	11		
Sewer	WWTP	Dechlor Building	Instrumentation/Chem Feed		Each	1	\$500,000	\$500,000	2013	11		
Sewer	WWTP	Dechlor Building	Tanks	3150 gallons	Each	2	\$100,000	\$200,000	2013	11		

City of Astoria Public Works Department  
Asset Inventory

Category	Sub-category	Asset	Sub-asset	Features	Unit	Quantity	Unit Cost	Value	Year Built	Age	Annual Maint.	Notes
Sewer	WWTP	Admin/Lab Building	Instrumentation		LS	1	\$50,000	\$50,000				
Sewer	WWTP	Admin/Lab Building	Generator	20 kW	Each	1	\$15,000	\$15,000				
Sewer	WWTP	Admin/Lab Building	Building		Each	1	\$350,000	\$350,000				
Sewer	WWTP	Chlorine 1 ton cylinder			Each	8	\$2,000	\$16,000				
Sewer	WWTP	Chlorinators			Each	2	\$30,000	\$60,000				
Sewer	WWTP	Influent structure			Each	1	\$30,000	\$30,000	1974	50		
Sewer	WWTP	Effluent flow meter			Each	1	\$10,000	\$10,000				
Sewer	WWTP	Fence		chain link	LF	4,550	\$15	\$68,250				
Sewer	WWTP	Conex Storage Building			Each	1	\$15,000	\$15,000				
Sewer	WWTP	Outfall			Each	1	\$10,000,000	\$10,000,000				
Sewer	Pump/Lift Station	PS #1	Building		Each	1	\$2,000,000	\$2,000,000	1974	50		
Sewer	Pump/Lift Station	PS #1	Pumps		Each	3	\$120,000	\$360,000	1974	50		
Sewer	Pump/Lift Station	PS #1	Motors	125 HP	Each	3	\$100,000	\$300,000	2017	7		
Sewer	Pump/Lift Station	PS #1	Instrumentation		LS	1	\$100,000	\$100,000	2017	7		
Sewer	Pump/Lift Station	PS #1	Generator	300 kW	Each	1	\$200,000	\$200,000	2007	17		Need to load test every 3 years
Sewer	Pump/Lift Station	PS #1	Comminutor		Each	1	\$150,000	\$150,000	2009	15		
Sewer	Pump/Lift Station	PS #1	Wet Well		LS	1	\$1,000,000	\$1,000,000	1974	50		
Sewer	Pump/Lift Station	LS #3	Building		Each	1	\$200,000	\$200,000	1974	50		
Sewer	Pump/Lift Station	LS #3	Screw Lift		Each	2	\$175,000	\$350,000	1974	50		
Sewer	Pump/Lift Station	LS #3	Motors	50 HP	Each	2	\$25,000	\$50,000				
Sewer	Pump/Lift Station	LS #3	Instrumentation		LS	1	\$10,000	\$10,000				
Sewer	Pump/Lift Station	LS #3	Generator	125 kW	Each	1	\$100,000	\$100,000	2007	17		Need to load test every 3 years
Sewer	Pump/Lift Station	LS #3	Wet Well		LS	1	\$1,500,000	\$1,500,000				
Sewer	Pump/Lift Station	LS #4	Building		Each	1	\$200,000	\$200,000	1974	50		
Sewer	Pump/Lift Station	LS #4	Screw Lift		Each	2	\$150,000	\$300,000				
Sewer	Pump/Lift Station	LS #4	Motors	20 HP	Each	2	\$25,000	\$50,000				
Sewer	Pump/Lift Station	LS #4	Instrumentation		LS	1	\$10,000	\$10,000				
Sewer	Pump/Lift Station	LS #4	Generator	40 kW	Each	1	\$20,000	\$20,000	2007	17		Need to load test every 3 years
Sewer	Pump/Lift Station	LS #4	Wet Well		LS	1	\$1,000,000	\$1,000,000				
Sewer	Pump/Lift Station	LS #5	Building		Each	1	\$200,000	\$200,000	1974	50		
Sewer	Pump/Lift Station	LS #5	Screw Lift		Each	2	\$150,000	\$300,000				
Sewer	Pump/Lift Station	LS #5	Motors	20 HP	Each	2	\$25,000	\$50,000				
Sewer	Pump/Lift Station	LS #5	Instrumentation		LS	1	\$10,000	\$10,000				
Sewer	Pump/Lift Station	LS #5	Generator	40 kW	Each	1	\$20,000	\$20,000	2007	17		Need to load test every 3 years
Sewer	Pump/Lift Station	LS #5	Wet Well		LS	1	\$1,000,000	\$1,000,000				
Sewer	Pump/Lift Station	PS #6	Pumps		Each	2	\$30,000	\$60,000				
Sewer	Pump/Lift Station	PS #6	Motors	20 HP	Each	2	\$10,000	\$20,000				
Sewer	Pump/Lift Station	PS #6	Instrumentation		LS	1	\$10,000	\$10,000				
Sewer	Pump/Lift Station	PS #6	Generator	60 kW	Each	1	\$50,000	\$50,000	2007	17		Need to load test every 3 years
Sewer	Pump/Lift Station	PS #6	Dry Well		LS	1	\$1,000,000	\$1,000,000				
Sewer	Pump/Lift Station	PS #6	Wet Well		LS	1	\$200,000	\$200,000				
Sewer	Pump/Lift Station	Mill Pond PS	Pumps		Each	2	\$10,000	\$20,000	2002	22		
Sewer	Pump/Lift Station	Mill Pond PS	Motors	5 HP	Each	2	\$5,000	\$10,000	2002	22		
Sewer	Pump/Lift Station	Mill Pond PS	Instrumentation		LS	1	\$10,000	\$10,000	2002	22		
Sewer	Pump/Lift Station	Mill Pond PS	Dry Well		LS	1	\$50,000	\$50,000	2002	22		
Sewer	Pump/Lift Station	Mill Pond PS	Wet Well		LS	1	\$50,000	\$50,000	2002	22		
Sewer	Pump/Lift Station	Ash St PS	Submersible Pumps		Each	2	\$10,000	\$20,000	1991	33		
Sewer	Pump/Lift Station	Ash St PS	Motors	5 HP	Each	2	\$5,000	\$10,000	1991	33		
Sewer	Pump/Lift Station	Ash St PS	Instrumentation		LS	1	\$10,000	\$10,000	1991	33		
Sewer	Pump/Lift Station	Ash St PS	Dry Well		LS	1	\$50,000	\$50,000	1991	33		
Sewer	Pump/Lift Station	Ash St PS	Wet Well		LS	1	\$50,000	\$50,000	1991	33		
Sewer	Pump/Lift Station	Birch & 52nd St PS	Submersible Pumps		Each	2	\$3,500	\$7,000	1991	33		
Sewer	Pump/Lift Station	Birch & 52nd St PS	Motors	2 HP	Each	2	\$1,500	\$3,000	1991	33		
Sewer	Pump/Lift Station	Birch & 52nd St PS	Instrumentation		LS	1	\$5,000	\$5,000	1991	33		
Sewer	Pump/Lift Station	Birch & 52nd St PS	Wet Well		LS	1	\$10,000	\$10,000	1991	33		
Sewer	Pump/Lift Station	Alder St PS	Submersible Pumps		Each	2	\$3,500	\$7,000	1991	33		
Sewer	Pump/Lift Station	Alder St PS	Motors	2 HP	Each	2	\$1,500	\$3,000	1991	33		
Sewer	Pump/Lift Station	Alder St PS	Instrumentation		LS	1	\$5,000	\$5,000	1991	33		
Sewer	Pump/Lift Station	Alder St PS	Wet Well		LS	1	\$10,000	\$10,000	1991	33		
Sewer	Pump/Lift Station	Yacht Club PS	Pumps		Each	2	\$10,000	\$20,000				
Sewer	Pump/Lift Station	Yacht Club PS	Motors	5 HP	Each	2	\$5,000	\$10,000				
Sewer	Pump/Lift Station	Yacht Club PS	Dry Well		LS	1	\$50,000	\$50,000				
Sewer	Pump/Lift Station	Yacht Club PS	Wet Well		LS	1	\$50,000	\$50,000				
Sewer	Collection System	Sewer Pipe	48-inch		LF	52	\$520	\$27,040	Various			
Sewer	Collection System	Sewer Pipe	45-inch		LF	875	\$500	\$437,500	Various			
Sewer	Collection System	Sewer Pipe	42-inch		LF	527	\$480	\$252,960	Various			

City of Astoria Public Works Department  
Asset Inventory

Category	Sub-category	Asset	Sub-asset	Features	Unit	Quantity	Unit Cost	Value	Year Built	Age	Annual Maint.	Notes
Sewer	Collection System	Sewer Pipe	40-inch		LF	90	\$460	\$41,400	Various			
Sewer	Collection System	Sewer Pipe	36-inch		LF	2,579	\$440	\$1,134,760	Various			
Sewer	Collection System	Sewer Pipe	30-inch		LF	5,923	\$420	\$2,487,660	Various			
Sewer	Collection System	Sewer Pipe	22-inch		LF	3,602	\$400	\$1,440,800	Various			
Sewer	Collection System	Sewer Pipe	21-inch		LF	507	\$380	\$192,660	Various			
Sewer	Collection System	Sewer Pipe	20-inch		LF	2,379	\$360	\$856,440	Various			
Sewer	Collection System	Sewer Pipe	19-inch		LF	653	\$340	\$222,020	Various			
Sewer	Collection System	Sewer Pipe	18-inch		LF	78	\$320	\$24,960	Various			
Sewer	Collection System	Sewer Pipe	16-inch		LF	3,640	\$300	\$1,092,000	Various			
Sewer	Collection System	Sewer Pipe	15-inch		LF	8,089	\$280	\$2,264,920	Various			
Sewer	Collection System	Sewer Pipe	14-inch		LF	928	\$260	\$241,280	Various			
Sewer	Collection System	Sewer Pipe	12-inch		LF	38,330	\$240	\$9,199,200	Various			
Sewer	Collection System	Sewer Pipe	10-inch		LF	28,268	\$220	\$6,218,960	Various			
Sewer	Collection System	Sewer Pipe	8-inch		LF	126,362	\$200	\$25,272,400	Various			380,000 LF total sewer pipe (all sizes)
Sewer	Collection System	Sewer Pipe	6-inch		LF	18,116	\$180	\$3,260,880	Various			
Sewer	Collection System	Sewer Pipe	4-inch		LF	2,530	\$140	\$354,200	Various			
Sewer	Collection System	Sewer Pipe	unknown		LF	8,347	\$150	\$1,252,050	Various			
Sewer	Collection System	Interceptor	42-inch		LF	1,650	\$580	\$957,000	Various			
Sewer	Collection System	Interceptor	36-inch		LF	11,795	\$540	\$6,369,300	Various			
Sewer	Collection System	Interceptor	30-inch		LF	6,145	\$520	\$3,195,400	Various			
Sewer	Collection System	Interceptor	24-inch		LF	11,809	\$520	\$6,140,680	Various			
Sewer	Collection System	Interceptor	18-inch		LF	3,519	\$420	\$1,477,980	Various			
Sewer	Collection System	Interceptor	15-inch		LF	1,620	\$380	\$615,600	Various			
Sewer	Collection System	Interceptor	12-inch		LF	512	\$340	\$174,080	Various			
Sewer	Collection System	Interceptor	8-inch		LF	332	\$300	\$99,600	Various			
Sewer	Collection System	Manholes			Each	1,575	\$10,000	\$15,750,000	Various			
Sewer	Collection System	Force Main	30-inch	PS #1	LF	4,415	\$1,000	\$4,415,000	1974	50		
Sewer	Collection System	Force Main	10-inch	PS #6	LF	1,042	\$180	\$187,560				
Sewer	Collection System	Force Main	4-inch	Yacht Club	LF	200	\$150	\$30,000				
Sewer	Collection System	Force Main	4-inch	Mill Pond	LF	488	\$150	\$73,200	2002	22		
Sewer	Collection System	Force Main	3-inch	Ash St	LF	1,475	\$140	\$206,500	1991	33		
Sewer	Collection System	Force Main	3-inch	Alder St	LF	350	\$140	\$49,000	1991	33		
Sewer	Collection System	Diversion Structures			Each	42	\$50,000	\$2,100,000	1974	50		
Sewer	Collection System	Outfalls			Each	38	\$750,000	\$28,500,000				
Sewer	Collection System	Cleanouts			Each	557	\$1,200	\$668,400				
Sewer	Overflow Structures	PS #1	45th and Birch	fish lips	Each	1	\$15,000	\$15,000				
Sewer	Overflow Structures	LS #3	20th St	tide gate	Each	1	\$15,000	\$15,000				
Sewer	Overflow Structures	LS #4	Columbia & W Marine	tide gate	Each	1	\$15,000	\$15,000				
Sewer	Overflow Structures	LS #5	Florence & W Marine	tide gate	Each	1	\$15,000	\$15,000				
								<b>\$182,482,640</b>				
Storm												DEQ Annual Report due 9/1 & 9 Minimum Controls Annual Repot Due 7/1, & ASFO CSO Outfalls
Storm	Storage Facility	Smith Point Storage	Storage pipe	live rats	Each	1	\$3,000,000	\$3,000,000	2003	21		
Storm	Storage Facility	Smith Point Storage	Gates		Each	2	\$0	\$0	2003	21		
Storm	Storage Facility	Smith Point Storage	Instrumentation		LS	1	\$0	\$0				
Storm	Storage Facility	Smith Point Storage	Control structure		LS	1	\$0	\$0				
Storm	Storage Facility	Smith Point Storage	Flush Tank		LS	1	\$0	\$0				
Storm	Storage Facility	Smith Point Storage	Controls		LS	1	\$0	\$0				
Storm	Storage Facility	Denver Storage	Storage tank	1,000,000 G	Each	1	\$3,700,000	\$3,700,000	2011	13		
Storm	Storage Facility	Denver Storage	Odor Control Building		Each	1	\$1,400,000	\$1,400,000	2011	13		
Storm	Storage Facility	Denver Storage	Generator	40 kW	Each	1	\$0	\$0	2011	13		
Storm	Storage Facility	Denver Storage	Control structure		Each	1	\$0	\$0	2011	13		
Storm	Storage Facility	Denver Storage	Instrumentation		LS	1	\$0	\$0				
Storm	Storage Facility	Denver Storage	Flush Tank		LS	1	\$0	\$0				
Storm	Storage Facility	Denver Storage	Controls		LS	1	\$0	\$0				
Storm	Collection System	Storm Pipe	48-inch		LF	856	\$480	\$410,880	Various			
Storm	Collection System	Storm Pipe	45-inch		LF	186	\$460	\$85,560	Various			
Storm	Collection System	Storm Pipe	44-inch		LF	896	\$440	\$394,240	Various			
Storm	Collection System	Storm Pipe	36-inch		LF	2,124	\$420	\$892,080	Various			
Storm	Collection System	Storm Pipe	30-inch		LF	6,563	\$400	\$2,625,200	Various			
Storm	Collection System	Storm Pipe	27-inch		LF	203	\$380	\$77,140	Various			
Storm	Collection System	Storm Pipe	24-inch		LF	4,180	\$360	\$1,504,800	Various			
Storm	Collection System	Storm Pipe	21-inch		LF	2,886	\$340	\$981,240	Various			
Storm	Collection System	Storm Pipe	20-inch		LF	243	\$320	\$77,760	Various			
Storm	Collection System	Storm Pipe	18-inch		LF	14,057	\$300	\$4,217,100	Various			

City of Astoria Public Works Department  
Asset Inventory

Category	Sub-category	Asset	Sub-asset	Features	Unit	Quantity	Unit Cost	Value	Year Built	Age	Annual Maint.	Notes
Storm	Collection System	Storm Pipe	16-inch		LF	1,390	\$280	\$389,200	Various			
Storm	Collection System	Storm Pipe	15-inch		LF	4,424	\$260	\$1,150,240	Various			
Storm	Collection System	Storm Pipe	14-inch		LF	111	\$240	\$26,640	Various			
Storm	Collection System	Storm Pipe	13-inch		LF	257	\$220	\$56,540	Various			
Storm	Collection System	Storm Pipe	12-inch		LF	42,021	\$200	\$8,404,200	Various			
Storm	Collection System	Storm Pipe	10-inch		LF	5,432	\$180	\$977,760	Various			
Storm	Collection System	Storm Pipe	8-inch		LF	19,509	\$160	\$3,121,440	Various			
Storm	Collection System	Storm Pipe	6-inch		LF	8,214	\$150	\$1,232,100	Various			
Storm	Collection System	Storm Pipe	4-inch		LF	1,881	\$140	\$263,340	Various			
Storm	Collection System	Storm Pipe	3-inch		LF	12	\$130	\$1,560	Various			
Storm	Collection System	Storm Pipe	2-inch		LF	40	\$120	\$4,800	Various			
Storm	Collection System	Storm Pipe	unknown		LF	79,326	\$150	\$11,898,900	Various			
Storm	Collection System	Manholes			Each	681	\$7,500	\$5,107,500	Various			
Storm	Collection System	Catch basins			Each	1,935	\$4,000	\$7,740,000	Various			
Storm	Collection System	Tide gates			Each	10	\$7,500	\$75,000	Various			
Storm	Collection System	Inlets			Each	124	\$5,000	\$620,000	Various			Grates/Flumes
Storm	Collection System	Cleanouts			Each	200	\$1,200	\$240,000	Various			
								<b>\$60,675,220</b>				
Transportation	Roadway	Streets & Curbs			SF	9,292,800	\$25	\$232,320,000	Various			ODOT Condition Report, MAP 21 Data Submittal
Transportation	Roadway	Striping and Legends			LS	1	\$5,000,000	\$5,000,000	Various			Paint and thermoplastic
Transportation	Roadway	Signs			Each	4,458	\$750	\$3,343,500	Various			From GIS, not listed as Status "Removed"
Transportation	Roadway	ADA Ramps			LS	1	\$10,000,000	\$10,000,000	Various			
Transportation	Roadway	Street Lights			Each	162	\$10,000	\$1,620,000	Various			
Transportation	Roadway	Guardrail			LF	5,000	\$100	\$500,000	Various			
Transportation	Roadway	Safety Railing			LF	3,000	\$100	\$300,000	Various			
Transportation	Chairwall System	Chairwall			LF	6,500	\$3,000	\$19,500,000	1923	101		
Transportation	Chairwall System	Tunnel			LF	2,500	\$4,000	\$10,000,000	1923	101		
Transportation	Bridges	Franklin Bridge			Each	1	\$9,000,000	\$9,000,000	2011	13		
Transportation	Bridges	Irving at 19th St Bridge			Each	1	\$11,000,000	\$11,000,000	2014	10		
Transportation	Bridges	Irving at 33rd St Bridge			Each	1	\$11,000,000	\$11,000,000	1951	73		
Transportation	Bridges	6th St Waterfront Bridge			Each	1	\$4,000,000	\$4,000,000	2020	4		
Transportation	Bridges	7th St Waterfront Bridge			Each	1	\$4,000,000	\$4,000,000	2020	4		
Transportation	Bridges	8th St Waterfront Bridge			Each	1	\$4,000,000	\$4,000,000	2020	4		
Transportation	Bridges	9th St Waterfront Bridge			Each	1	\$4,000,000	\$4,000,000	2020	4		
Transportation	Bridges	10th St Waterfront Bridge			Each	1	\$4,000,000	\$4,000,000	2020	4		
Transportation	Bridges	11th St Waterfront Bridge			Each	1	\$4,000,000	\$4,000,000	2020	4		
Transportation	Docks/Piers	17th St Dock			Each	1	\$11,000,000	\$11,000,000	2013	11		5 year inspection by Berget ABAM in January 2019
Transportation	Docks/Piers	6th Street Viewing Platform			Each	1	\$4,000,000	\$4,000,000				
Transportation	Trestles				Feet	4,343	\$4,000	\$17,372,000				
Transportation	Trolley Tracks				Miles	5	\$2,500,000	\$11,750,000				3.1 miles measured in GIS from Barn to 39th St., \$1-2 million per mile
Transportation	Shoreline Revetment				LS	1	\$15,000,000	\$15,000,000				
Transportation	Trails				LF	7,182	\$50	\$359,100				Rock, concrete, asphalt, steps, railings (7,182 ft. from GIS - Dispatch GeoComm data)
								<b>\$397,064,600</b>				
Sanitation	Rock Pit				LS	1	\$100,000	\$100,000				
Sanitation	Gas Control System				LS	1	\$1,000,000	\$1,000,000	2014	10		Liner included
Sanitation	Garbage Cans				Each	48	\$2,000	\$96,000	Various			31 Salmon and 17 Green Cans
								<b>\$1,196,000</b>				
Shops	Operation Shops Buildings				LS	1	\$2,000,000	\$2,000,000	1978	46		
Shops	Old Shop & Storage				LS	1	\$1,000,000	\$1,000,000	1940	84		
Shops	Garage D				LS	1	\$600,000	\$600,000	1940	84		
Shops	Garage F				LS	1	\$750,000	\$750,000	1978	46		
Shops	Pipe Barn				LS	1	\$400,000	\$400,000				
Shops	Vactor Barn (Garage E)				LS	1	\$400,000	\$400,000				
Shops	Fleet - Vehicles				LS	1	\$2,092,000	\$2,092,000	Various			Road legal (license plates)
Shops	Equipment				LS	1	\$1,060,000	\$1,060,000	2015	9		
Shops	Fuel Tanks				LS	1	\$1,000,000	\$1,000,000	2015	9		
Shops	Equipment				LS	1	\$2,000,000	\$2,000,000	Various			
								<b>\$11,302,000</b>				
								<b>GRAND TOTAL</b>				<b>\$1,093,480,616</b>