

W-16: Water Main Replacement

Category: High Quality Built & Natural Environment

Status: Ongoing

Department: Utilities

Location: Citywide

Programmed Expenditures

<u>Programmed Expenditures</u>	<u>Appropriated To Date</u>	<u>FY 2023 Budget</u>	<u>FY 2024 Budget</u>	<u>FY 2025 Budget</u>	<u>FY 2026 Budget</u>	<u>FY 2027 Budget</u>	<u>FY 2028 Budget</u>	<u>FY 2029 Budget</u>
239,066,885	127,536,885	11,954,000	12,525,000	19,447,000	16,158,000	17,351,000	16,329,000	17,766,000

Description and Scope

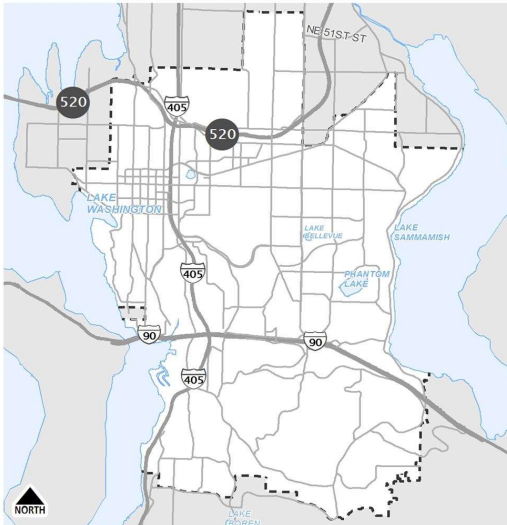
This program focuses primarily on replacing small diameter asbestos cement (AC) pipe that has reached its useful life. A secondary benefit is increasing the emergency fireflow available to neighborhoods. This investment will ramp up water pipeline replacement to 5 miles/year by 2018, and then be adjusted with inflation to maintain the 5 miles per year replacement rate. At that rate, water pipe will need to last on average 100-125 years. Pipes are selected for replacement based on risk of failure (likelihood and consequence), failure history, and coordination with other construction, such as planned street overlays (which reduce restoration costs). Project costs include a 2.8 percent cost increase reflecting actual bid experience for pipe replacement.

Rationale

In the short term, this program reduces the likelihood of catastrophic system failures, unplanned service interruptions, damage claims to the city, and sharp rate increases to react to system failures rather than proactively managing the system. In the long term, timely replacement or repair of water system assets keeps customer rates as low as practical by managing the system at the least life-cycle cost while maintaining target service levels and meeting regulatory requirements.

Environmental Impacts**Operating Budget Impacts**

This program will have no significant impact on operating revenues and/or expenditures.

Project Map**Schedule of Activities**

Project Activities	From - To	Amount
Project Costs	Ongoing	239,066,885

Total Budgetary Cost Estimate: 239,066,885

Means of Financing

Funding Source	Amount
Beginning Fund Balance	99,554,722
Transfers from Other City Funds	139,512,163
Total Programmed Funding:	239,066,885
Future Funding Requirements:	-

FY2023-2029

Comments