D-107 Storm Water Video Inspection Enhancement

Category: **Storm Drainage**
Status: **New**
Department: **Utilities**
Location: **Various locations throughout the City**

Programmed Expenditures

Programmed Expenditures	Appropriated To Date	FY 2015 Budget	FY 2016 Budget	FY 2017 Budget	FY 2018 Budget	FY 2019 Budget	FY 2020 Budget	FY 2021 Budget
2,503,000	-	299,000	614,000	626,000	638,000	326,000	-	-

Description and Scope

This project will video-inspect the most critical 20% of stormwater pipes to assess their condition over a five year period. Pipes to be inspected will be selected based on their likelihood and consequence of failure (risk). The video condition assessment results will be used to help evaluate the overall stormwater pipeline condition so that short- and long-term renewal and replacement needs can be more accurately estimated. The project will also be used to evaluate how much of the stormwater system should be video-inspected each year on an ongoing basis. The project funds four years of contracted services, plus start up time in the first year. It will video-inspect 10-15 miles in 2015, 25 miles each in 2016, 2017, and 2018, and 10-15 miles in the first half of 2019.

Rationale

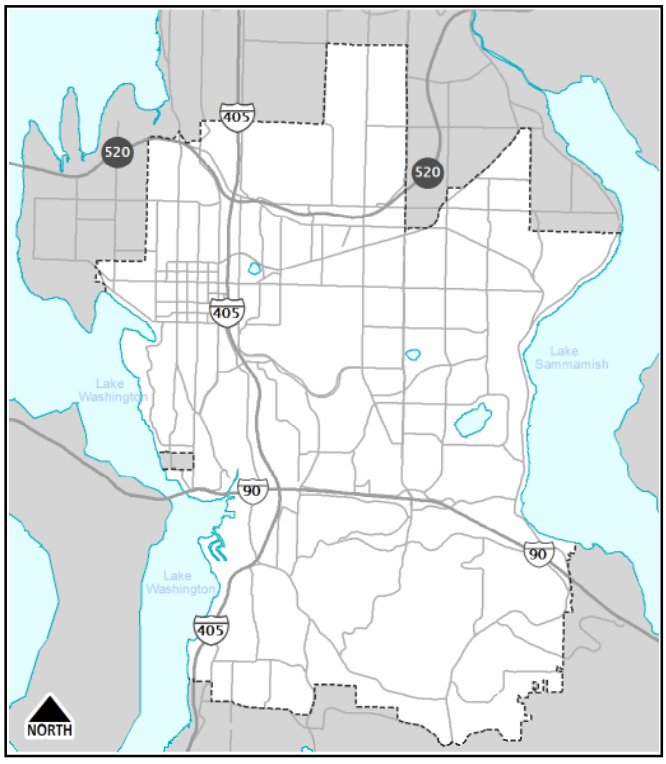
Bellevue's public storm system has 410 miles of pipes and culverts, made of many different materials and installed over several decades. Less than 15% of the system has ever been video-inspected; consequently, the overall condition of the stormwater system is unknown. Historically, only 1-2% of the system was inspected each year. This video inspection enhancement will afford a better understanding of the overall system condition, so that long term replacement resources and timing as well as maintenance requirements can be estimated; it will identify pipeline defects that are likely to lead to failure (repaired via D-64); and it will help determine the appropriate stormwater pipe video inspection rate consistent with maintaining an understanding of overall system condition and preventing pipe failures that would reduce system performance below acceptable service levels.

Environmental Impacts

The video inspection program has minimal environmental impact. Standard industry practices to clean the pipes prior to inspection will manage appropriately any water and debris.

Operating Budget Impacts

Project Map



Schedule of Activities

Project Activities	From - To	Amount
Project Costs	2015 - 2019	2,503,000
Total Budgetary Cost Estimate:		2,503,000

Means of Financing

Funding Source	Amount
Utility Rates/Fees	2,503,000
Total Programmed Funding:	2,503,000
Future Funding Requirements:	

Comments