



2022 Collection System Rehabilitation Project (CIP 21701)



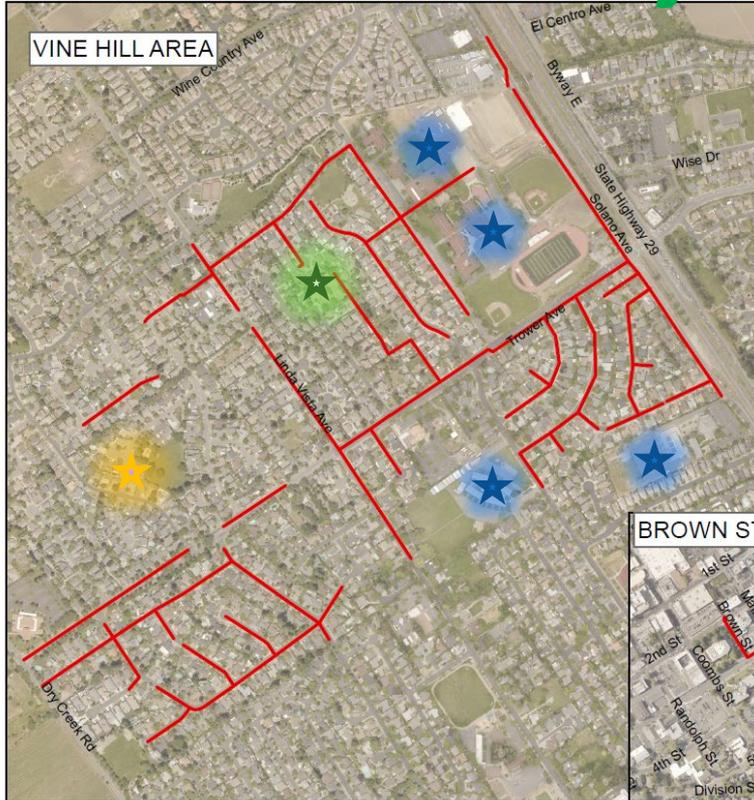
Napa Sanitation District Board of Directors Meeting
November 3, 2021



Background

- Collection System Master Plan (CSMP) 2021
 - Identified this project as a high priority based on inflow & infiltration (I&I)
 - Recommends completion of this project prior to other recommended projects
- 11 major rehabilitation projects completed so far

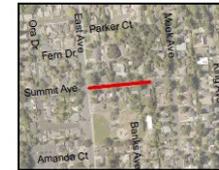
Project Area



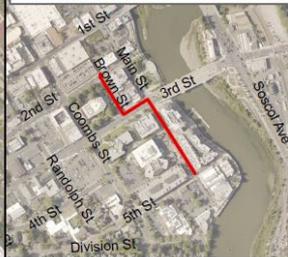
CLAREMONT WAY



SUMMIT AVE



BROWN ST AND MAIN ST



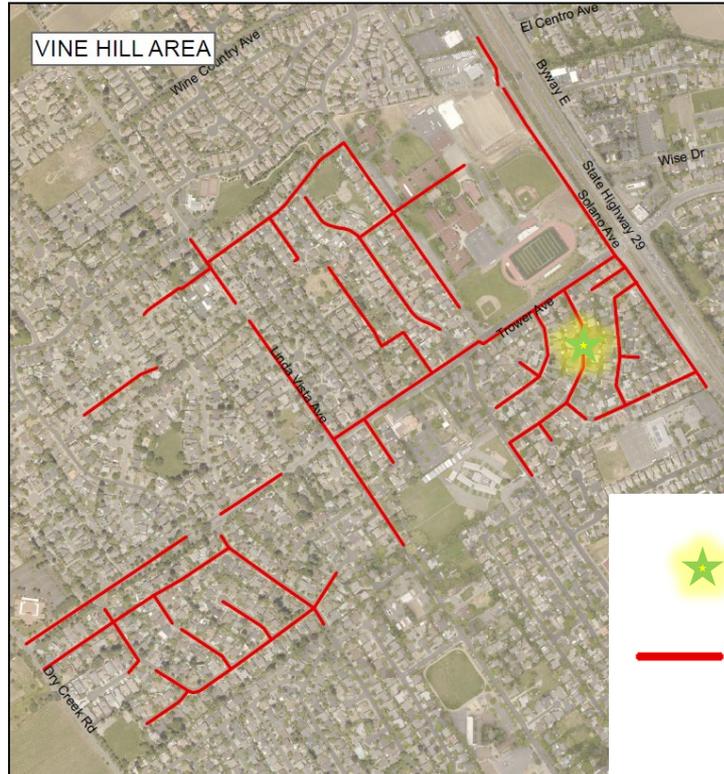
CABOT WAY



CIPP Rehabilitation

- School
- City Project
- Development Project

Project Area



-  Raleigh St Overflow Location
-  CIPP Rehabilitation

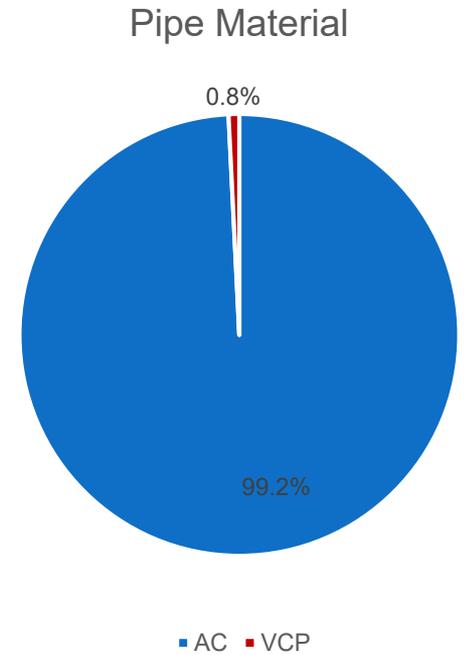
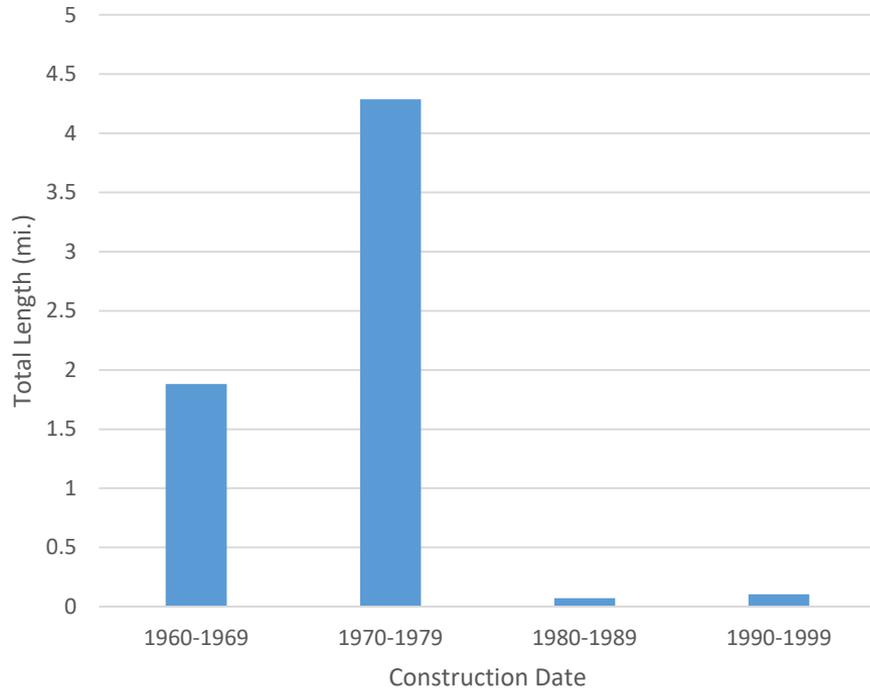


Project Area Selection

- High I&I and peaking factor
- Very old, deteriorated pipes
- Upstream Contributor to Raleigh St Overflow Location



Pipeline Age and Condition Within Project Area



Pipeline Age and Condition Within Project Area



Hole in pipe adjacent to lateral connection



Heavy root intrusion through cracked pipe

Rehabilitation Methods



Cured-in-place pipe (CIPP)

Rehabilitation Methods



CIPP lateral liner



Lateral connection "Top Hats"

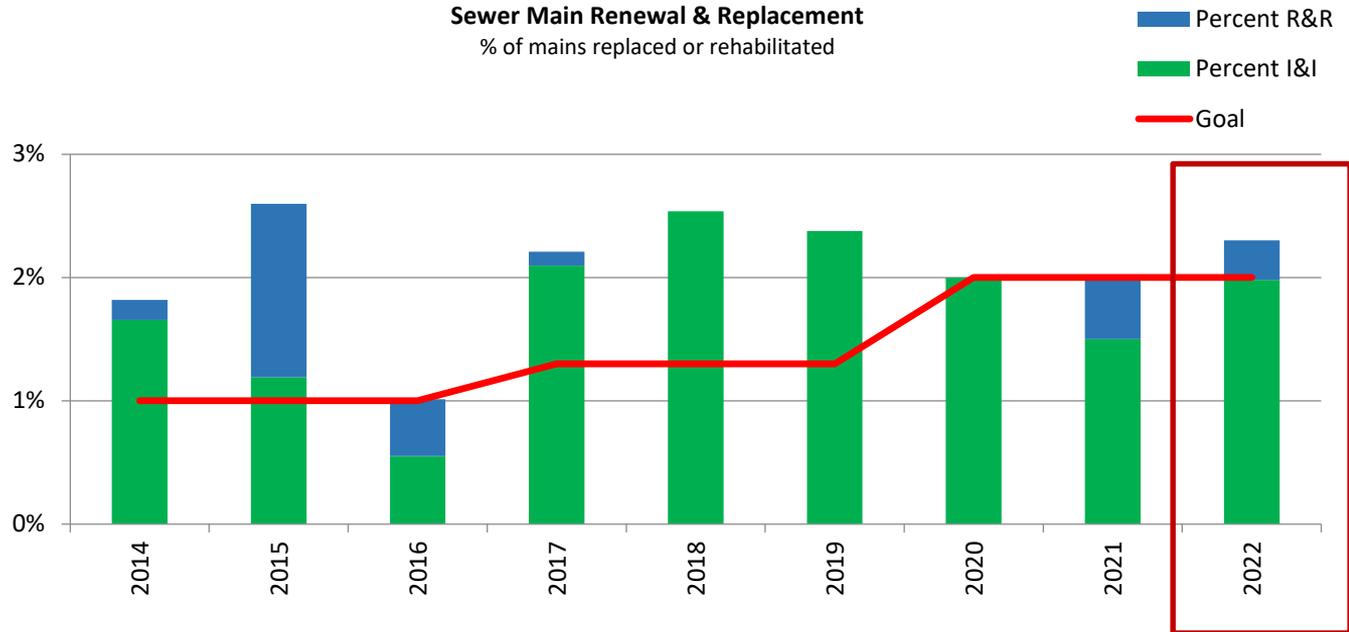


Project Overview

Item	Base Bid	Bid Alternate A	<u>Total</u>
Sewer main	32,800 LF (6.2 miles) 2.3% of system	0 LF (0 miles) 0% of system	32,800 LF (6.2 miles) 2.3% of system
Structures	5	0	5
Laterals	662	66	728
Engineer's Estimate	\$5,672,000	\$300,000	\$5,972,000



Sewer Main Renewal & Replacement Goals





Anticipated Schedule

Milestone	Date
Notice Inviting Bids	Mid November, 2021
Bid Opening	Mid December 2021
Award Construction	December 15, 2021
Notice to Proceed	January 2022
Project Completion	October 2022



Recommendation

Approve the Project, Concur with Staff's determination that the project is categorically exempt, and Authorize the General Manager to Issue Notice Inviting Bids for the 2022 Collection System Rehabilitation Project (CIP 21701)