

2020 Sewer System Rehabilitation Project (CIP 19703)



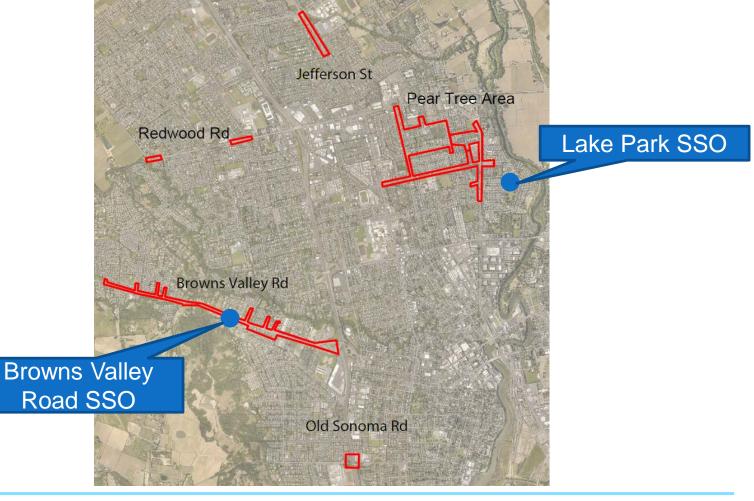


Napa Sanitation District Board of Directors Meeting
October 2, 2019



- Collection System Master Plan (CSMP) 2007
 - Identified capacity expansion projects
 - Recommendation of an inflow & infiltration (I&I) reduction program
- 9 major rehabilitation projects completed so far
 - I&I reduction
 - Rehabilitation/replacement







Pear Tree Area

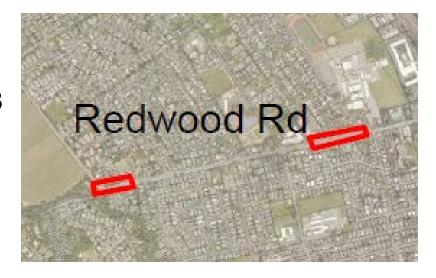
- High peaking factor (19.3)
- Phase 1 completed in 2018
- Downstream SSO history (Lake Park)
- Upcoming paving projects (City Local Streets program)





Redwood Rd

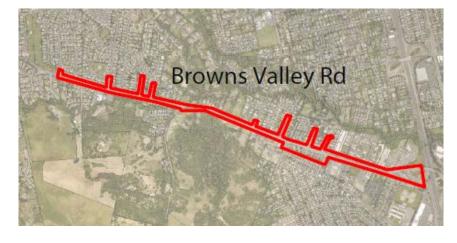
- High peaking factor
- Phase 1 completed in 2018
- Upcoming paving projects (City Measure T)





Browns Valley Rd

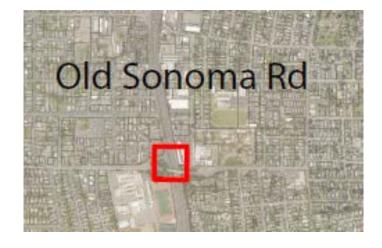
- High peaking factor
- Coordination with Browns Valley Trunk
- Upcoming paving projects (City Measure T)





Old Sonoma Rd Highway Crossing

- 10" VCP installed in the 1950's
- High consequence of failure
- Poor condition (hole in pipe)





Jefferson St

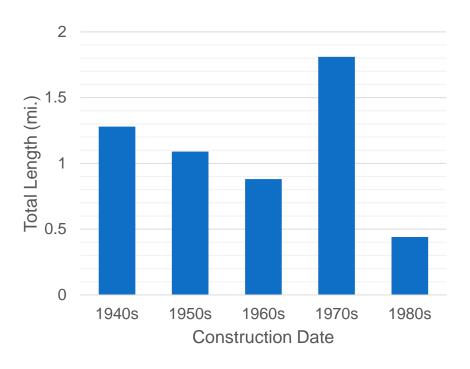
- 6" and 8" ACP in poor condition
- Upcoming paving projects (City Measure T)

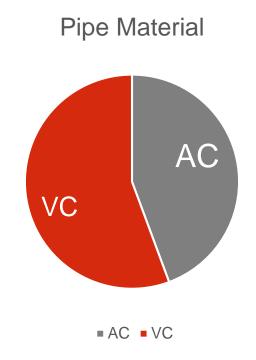




Pipeline Age and Condition

Within Project Areas







Pipeline Age and Condition

Within Project Areas



VCP with cracks/fractures



ACP with surface flaking



Rehabilitation Methods



Pipe bursting



Cured-in-place pipe (CIPP)



Rehabilitation Methods



Manhole rehabilitation / replacement



Lateral connection "Top Hats"



Project Overview

Engineer's Estimate: \$5,800,000

Item	Quantity
Sewer main rehabilitation	29,700 LF (5.6 miles) - 2.1% of system
Structures	76
Laterals	340



Anticipated Schedule

Milestone	Date
Notice Inviting Bids	Mid October, 2019
Bid Opening	Mid November 2019
Award Construction	December 4, 2019
Notice to Proceed	January 2020
Project Completion	October 2020



Recommendation

Approve the Project, Concur with CEQA Determination, and Authorize the General Manager to Issue Notice Inviting Bids for the 2020 Sewer System Rehabilitation Project (CIP 19703)