

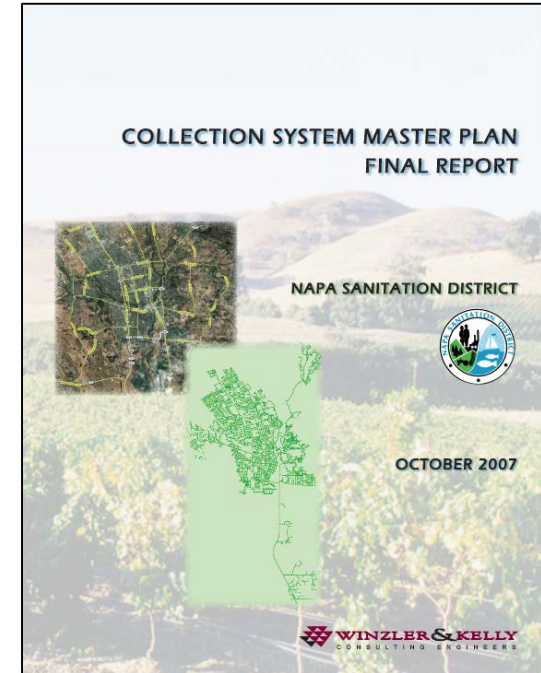
Collection System Master Plan (CSMP) Update



NapaSan Board of Directors Meeting
February 19, 2020

2007 CSMP

- 2007 report is outdated
 - Sewer flows
 - Hydraulic model
 - Growth projections
- Capacity Improvements
- I/I program



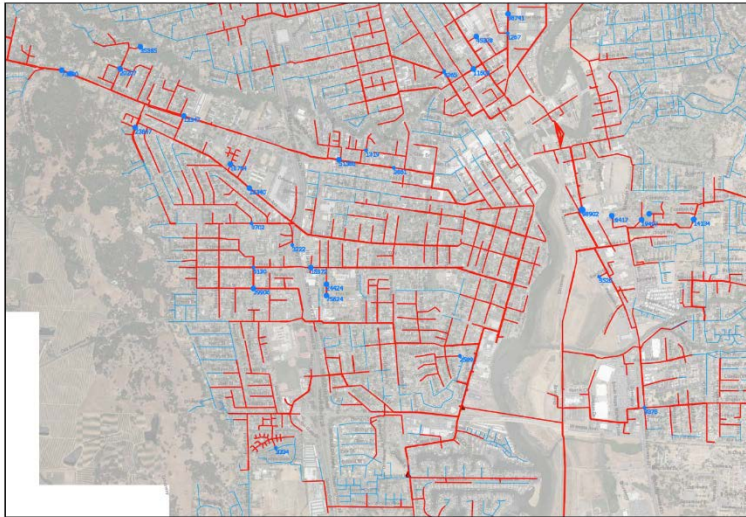
2020 CSMP – Phase 1

- August 2018 – May 2019
 - Flow monitoring during winter 18/19
 - All-pipes hydraulic model
 - Evaluation of 66" trunk main capacity

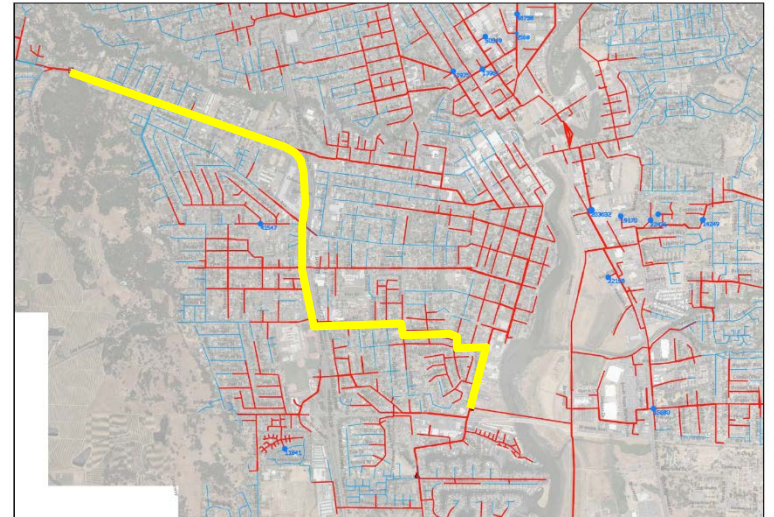


2020 CSMP – Phase 2

- Design review for BVT project



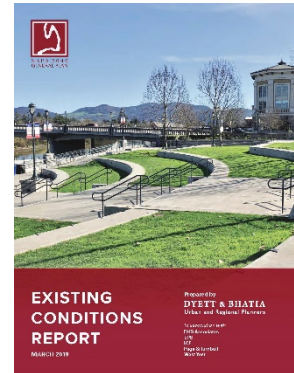
Pre-Project



Post-Project

2020 CSMP – Phase 2

- Analysis of projected development
 - City 2040 General Plan is in progress
 - Meeting with City staff (June 2019)
 - Admin Draft of City Land Use Plan expected in February 2020
- CIP Development



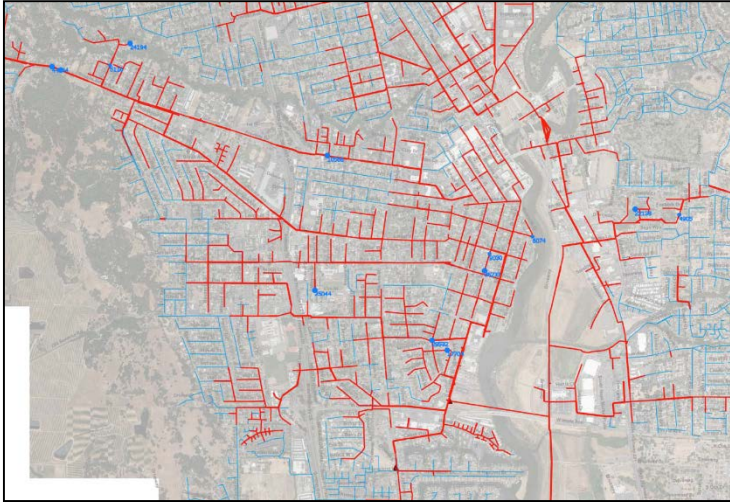
Project Prioritization (Discussion Topic)

- I/I reduction vs. capacity improvements
 - I/I reduction is the preferred alternative
 - Construct capacity improvements when I/I reduction cannot eliminate SSOs

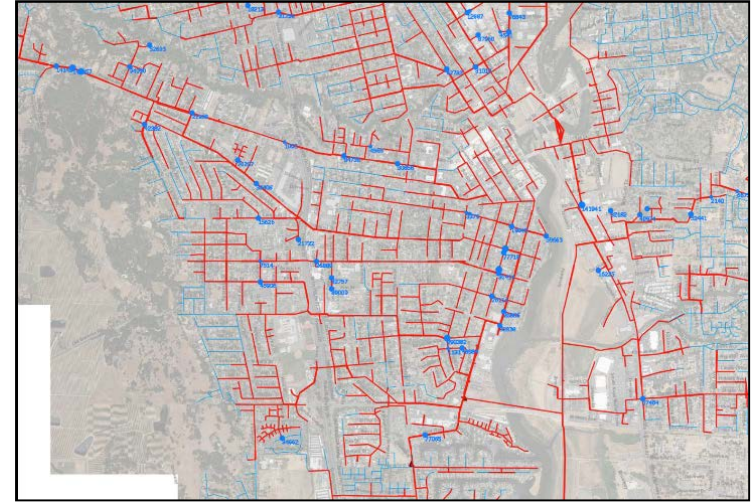


Project Prioritization (Discussion Topic)

- Prioritize projects in areas where SSOs occur more frequently



3-year storm event



10-year storm event



CIP Development (Discussion Topic)

- CIP recommendations will be based on the 2% rehabilitation program
 - 65% of the system is at least 40 years old
 - CSMP can analyze other rehab rates

Annual Rehab Percentage	Years to rehab 65% of system
2%	33
2.5%	26
3%	22



Schedule

Milestone	Date
Hydraulic analysis & CIP development	Ongoing
Draft chapter submittals	Weekly from 2/14 to 4/10
Complete draft report	4/15/20
Board Presentation (update as necessary)	April
Board approval of Master Plan	May/June

Questions/Discussion

