



Our
Water,
Our
Future



Engineering and Distribution Main Replacement Projects

Current Status: Ongoing program

Project Need

The water system includes 272 miles of treated water main infrastructure that continues to age and deteriorate. Ongoing maintenance replacement is needed to mitigate the risk of catastrophic failures and excessive break rates.

Background

This project is part of the recurring program to replace distribution system water mains identified and prioritized based on data driven models by the Department to maintain water system reliability, deliver adequate fire flows, improve circulation and water quality, and reduce maintenance and emergency repair costs. Main Replacement Planning to define and prioritize specific projects was completed in December 2020 and is updated on an ongoing basis. Priority projects (Listed on Table 1) are identified using a combination of characteristics such as age, material, and leak history, which influence a pipe's likelihood of failure, as well as a combination of circumstances such as poor soils,

heavy traffic, and customer outages, which influence a pipe’s consequence of failure.

Project Description

In alignment with the Main Replacement Planning work and prioritization, this project includes recurring annual funding for:

- *Rehabilitation and replacement* of water transmission mains. Pipes 10” or larger are typically installed by contractors according to bid plans and specifications.
- *Replacement* of deteriorated or undersized water mains, as identified and prioritized by the Department and implemented by the Distribution Section.
- *Relocation* of water mains, service lines, and appurtenances as necessitated by City, County or other Agency improvements such as road improvement, storm drain improvement projects, and/or other projects that conflict with existing water infrastructure.
- *Re-imbursement* of main replacements needed to accommodate customer-requested service connections to inadequate mains. (Funds, to the extent of the appropriation, are disbursed to customers on a first-come, first-served basis.)

Project Benefits

Benefits of this project include:

- Maintaining water system reliability,
- Delivering adequate fire flows,
- Improving circulation and water quality, and
- Reducing maintenance costs

Escalated Estimate

Construction Per project
(Engineering Projects) \$2,090,000
Per year on average

* Other costs may include design, engineering services during construction, construction management, construction contingency, environmental, permitting, legal, land transaction, city administration, and program management costs.

Project Contact Email

dvalby@santacruzca.gov

Current Schedule Start-Finish Dates

Planning	Design	Construction	Post Construction
COMPLETED DEC 2020	Ongoing: Budgeted & Funded Annually each FY		

Table 1: Priority Project List

Project #	Street	Cross Street	Cross Street	Length (ft)	Year of Const.
1	Ocean St. Ext	Crossing St	North end	2540	Complete
2	Winkle & Parker	Benson	Sequoia	1210	Complete
3	Majors	Laurent	Allegro	1052	2023
	Allegro	Majors	Moore		
4	Spring St	Kalkar	Laurent	2440	2023
5	Laurent	Mission	California	975	2024
6	Van Ness	Mission	Escalona	2092	2024
7	Prospect	East Cliff Dr.	14th Ave	2000	2024
	13th Ave	Prospect St	East Cliff Dr.		
8	Murray St. Bridge	Lake Ave.	Fairview Pl.	1160	2024-2025
9	East Cliff Dr.	Ocean St.	Ocean View Park	780	2025
10	Mission Drive	Hwy 1	Franky	5965	2024-2025
	Paul Sweet	Soquel	Chaminade		
	Commercial Way	Paul Sweet	Commercial Crossing		
11	Lower Harbor	East Side		6816	2025
	Upper Harbor	West Side			
	Upper Harbor	East Side			
12	Manor Dr.	West Cliff Dr.	Lighthouse	1220	2026
13	National	Pelton	Nevada	540	2026
14	West Cliff Dr.	David	Woodrow	892	2026
	David	West Cliff Dr.	Oxford		
15	Wanzer	Swift	Fair	2185	2026
	Getchel	Wanzer	West Cliff		
	John	Wanzer	West Cliff		
16	Highview Dr.	Highview Ct.	to end	700	2027
17	Trevathan	Prospect Hts.	Morrissey	962	2027
18	Marnell	Prospect Hts.	Allerton	490	2027
19	Belvedere	Branciforte	end	850	2027

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