



Sonoma Water

Clean. Reliable. Essential. Every Day.

Water Transmission System Projects

Kent Gylfe

Director of Engineering

kent.gylfe@scwa.ca.gov



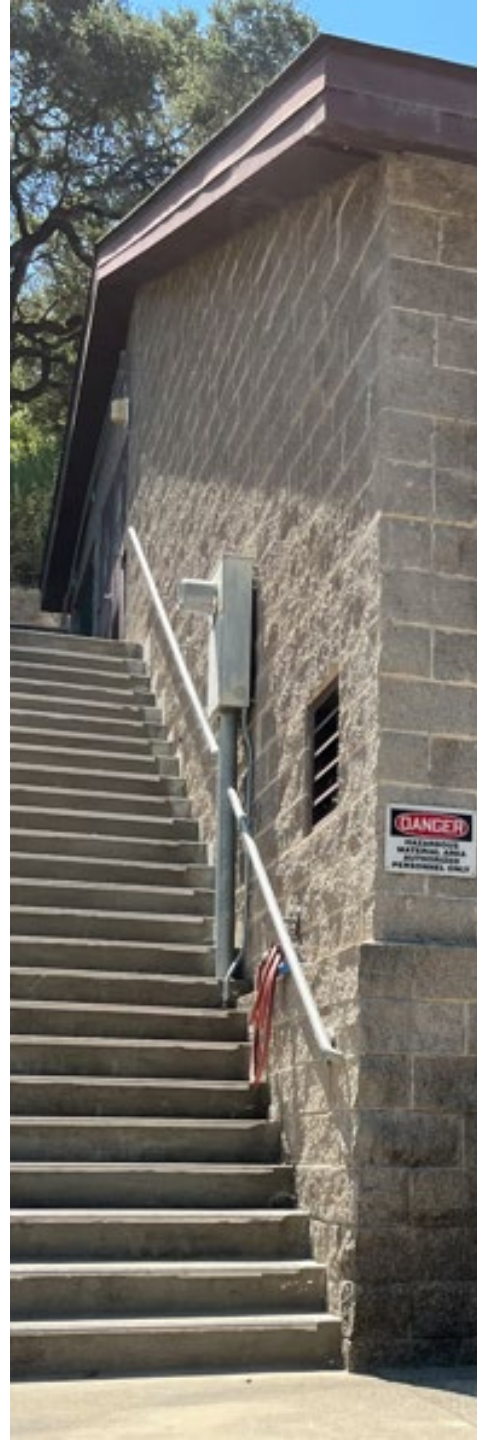
[sonomawater.org](https://www.sonomawater.org)



Capital Improvement Projects

O&M Projects

Planning Efforts



Occidental Rd Well #3 Drilling and Activation

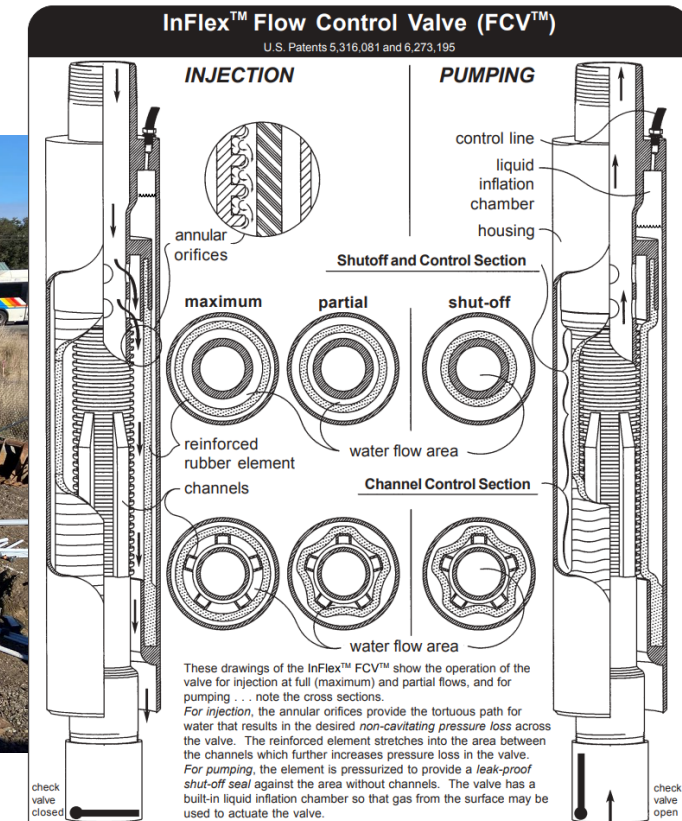
- Drilling project completed in April 2024
- Topside design delayed due to well development – advertising December 2024
- Substantial completion in October 2025
- Plan, permit, test and implement recharge components internally (2026)

*Santa Rosa Plain Wells Drought Resiliency
Project awarded \$6.9M State Drought
Relief Grant*



Sebastopol Rd Well Activation

- Design completed and project advertised in Nov 2023
- Underground work to be completed in coming weeks
- Well conditioning and cycling through Spring 2025
- ASR pilot study through Oct 2025



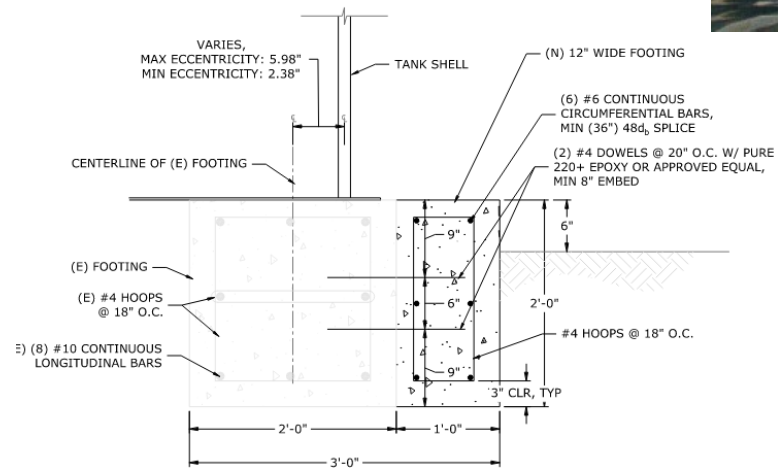
Kastania Tank Recoat

- Project Goals
 - Recoat interior/exterior of tank
 - Replace cathodic protection
 - Seismic analysis/retrofits
 - Modifications to tank appurtenances
- Completed and back in service September 2024
- Fun fact – Kastania tank required roughly 6,850 gallons of paint to recoat – enough to paint an average 1500 ft² home 250 times



Cotati #3 Recoat and Seismic Project

- 18MG tank – largest in system
- Bids received October 2024
 - Recoat interior/exterior of tank
 - Cathodic protection
 - Seismic retrofit of foundation
 - Modifications to tank appurtenances
- Construction anticipated Feb 2025 – Jan 2026



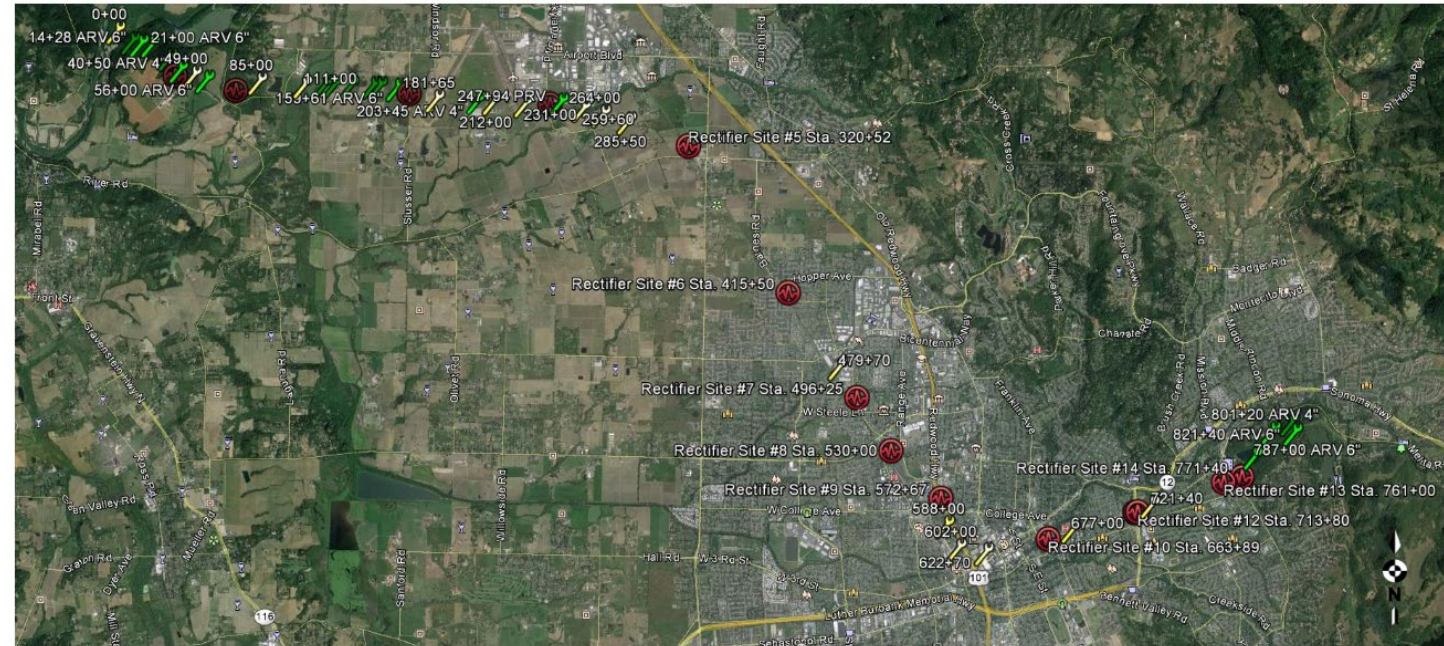
TYPICAL FOOTING EXPANSION DETAIL
 A S2 1-1/2" = 1'-0"



Santa Rosa/Cotati Aqueduct Cathodic Protection

- Project split in 2 phases based on ease of R/W and permitting
 - Phase 1
 - 11 total rectifier/anode well sites
 - 11 CP stations
 - Phase 2 –
 - 20 total rectifier/anode well sites
 - 39 CP stations
- Significant coordination with PG&E
- Phase 1 design progressing with target advertise Feb 2025
- Phase 2 design to follow with target advertise Jan 2026

SANTA ROSA AQUEDUCT



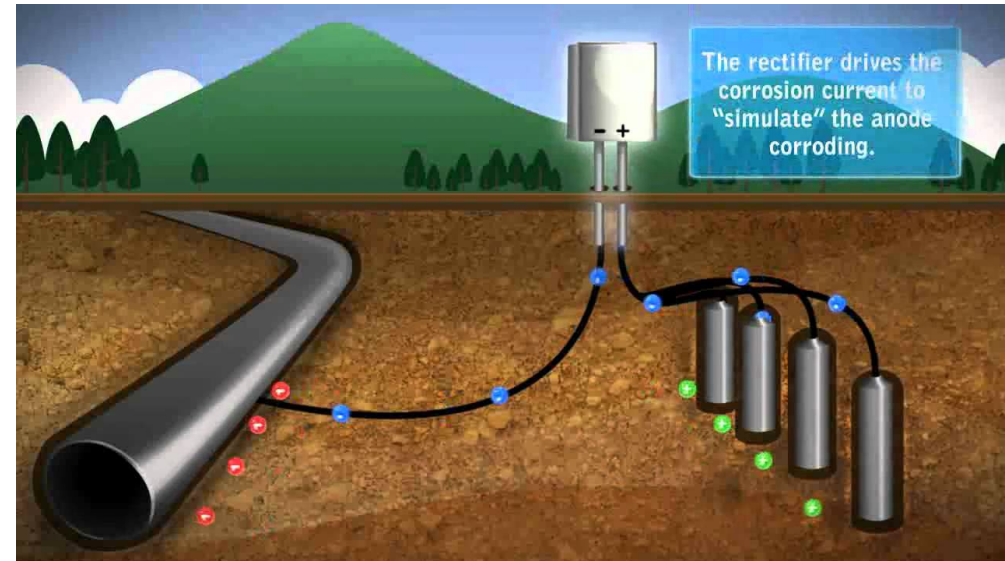
Proposed Rectifier



Proposed CTS – Excavation Required

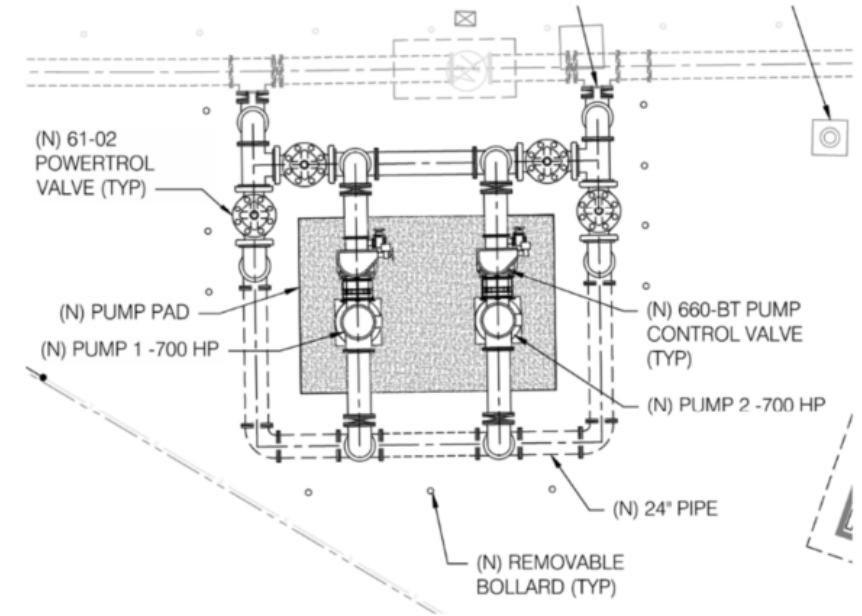


Proposed CTS – No Excavation Required



Wilfred Booster Electrical Upgrade

- Project includes
 - Replace electrical switchgear building and components
 - Add 2nd pump set and piping for reliability/resiliency
 - Capable of pumping north and south
- Electrical switchgear prepurchase in June 2024
- Advertise scheduled for May 2025

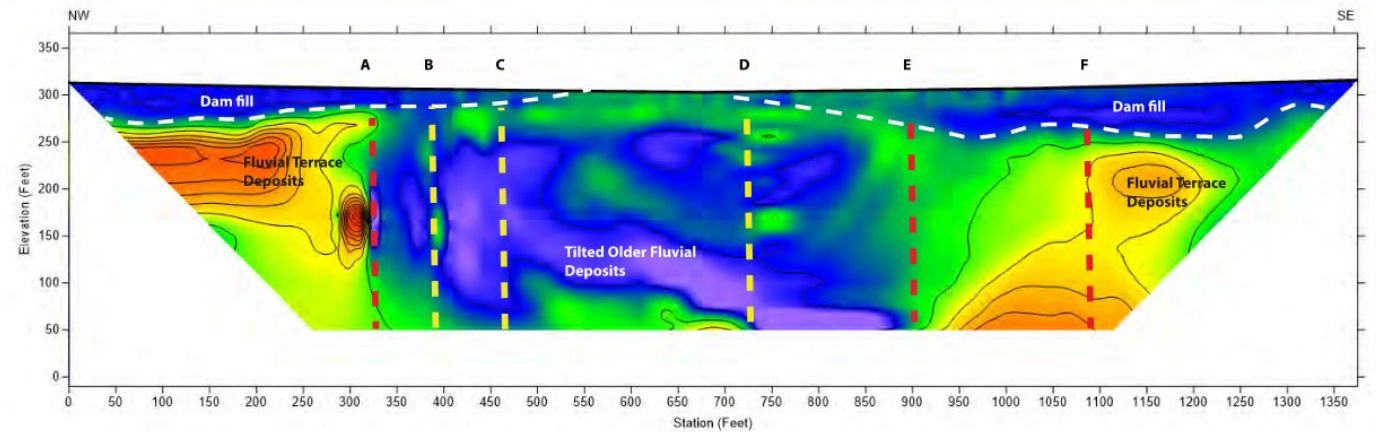


Designs in Progress

- Bennett Valley Fault Crossing
 - Seismic resiliency pipeline project
 - 30% design complete with target advertise Summer 2025
- Treatment Modernization Upgrades
 - Preliminary feasibility completed Oct 2024
 - Multi-phase, multi-year project with Phase 1 design kicking off
- Wohler Demuth
 - Emergency storage facility
 - Design kicked off with target advertise Summer 2026
- Kawana-Ralphine-SBS Pipeline - Ph 1
 - In process of finalizing scope with consultant for phase 1 design, environmental, and right-of-way
 - Next phase will utilize recent easement acquisition through Southeast Greenway



Red = Primary fault trace Yellow = Secondary fault trace



Tank Washout Inspections, Visual Inspections, and Condition Assessments

- Washout Inspections
 - Ralphine 1, 2, 3 & 4
 - Eldridge 1
 - Sonoma 1&2
 - Annadel 1 & 2
 - Kawana 1 (in progress)
 - Cotati 2 (FY 24/25)
 - Kawana 2 (FY 25/26)
 - Eldridge 2 (FY 25/26)



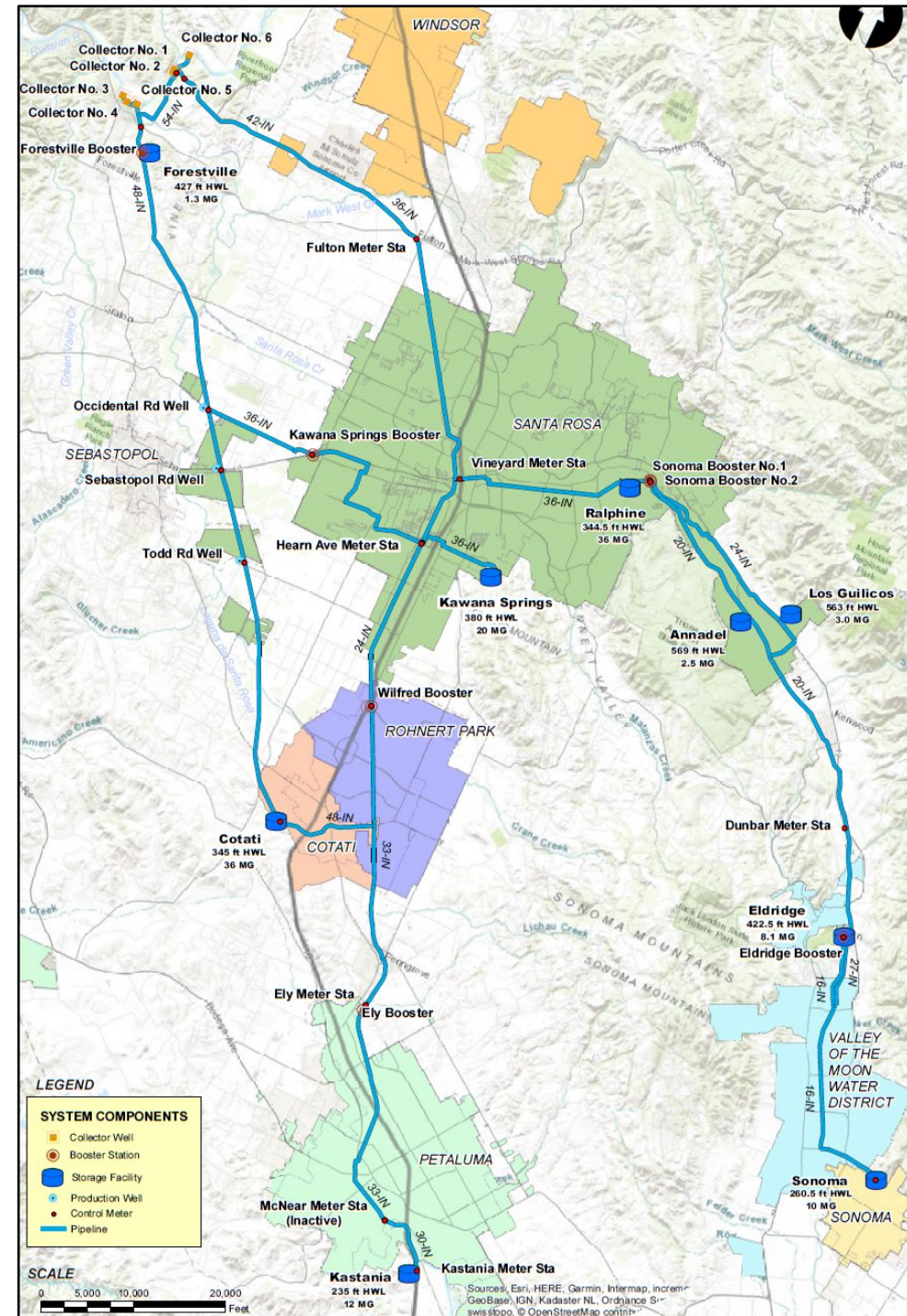
10 - Year Water Storage Tank Maintenance Agreement

	FY 22/23	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28	FY 28/29 ⁽²⁾
Tanks Inspected ⁽³⁾	15	13	17	16	15	18	16
Tanks Drained & Cleaned	5	4	2	2	0	5	5
Coating Repairs (Internal & External)	3	6	2	2	0	0	0
Minor Structural Repairs	3	6	2	1	0	0	0
Cathodic Protection Upgrades	2	11	1	2	0	0	0
Regulatory & Safety Upgrades	3	6	2	2	0	0	0
Cost =	\$1,146,900	\$1,598,150	\$1,429,457	\$1,400,548	\$340,348	\$695,680	\$515,681



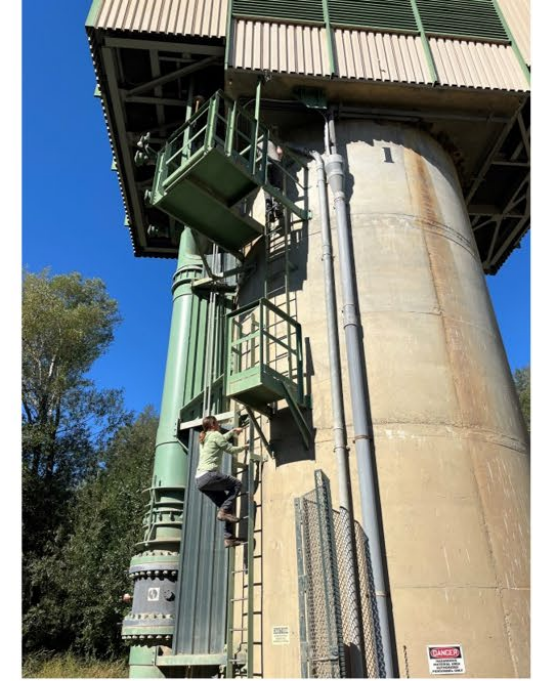
Comprehensive Master Plan

- Task 1 complete:
 - Water System Baseline
- FY24/25:
 - Task 2 – Water Demand Forecasting
 - Task 3 – Basis of Cost Information
 - Task 4 – Methodology for Project Prioritization
- FY25/26:
 - Task 5 – Generate Project Groupings
- FY26/27:
 - Task 6 – Compile Water System Master Plan



DDW Sanitary Survey Inspection

- Comprehensive Sanitary Survey Inspection conducted on September 24th & 25th
- Attended by 10 DDW Staff members
- Staff inspected Sonoma Water Operations Room, SCADA System, all six collector wells, disinfection and corrosion control facilities, all 18 storage tanks, Todd Road Well and two booster pump stations.
- Deficiency findings: replace chlorine solution rotometer in Collector 6, minor rust and graffiti on five tanks, increase security on tank sites
- No findings on: pumps, system management and operation, monitoring and reporting, operator compliance with state requirements





**Sonoma
Water**

Questions?