



Courtright System Improvements Project

Operations Committee

July 15, 2022



Marin Water System Tanks

- 131 Tanks in System
 - 6 Redwood
 - 8 Concrete
 - 117 Steel



Courtright Tank

- 50,000-gallon Redwood tank
- Built in 1973 (49-Year Old)
- Provides service to 108 customers



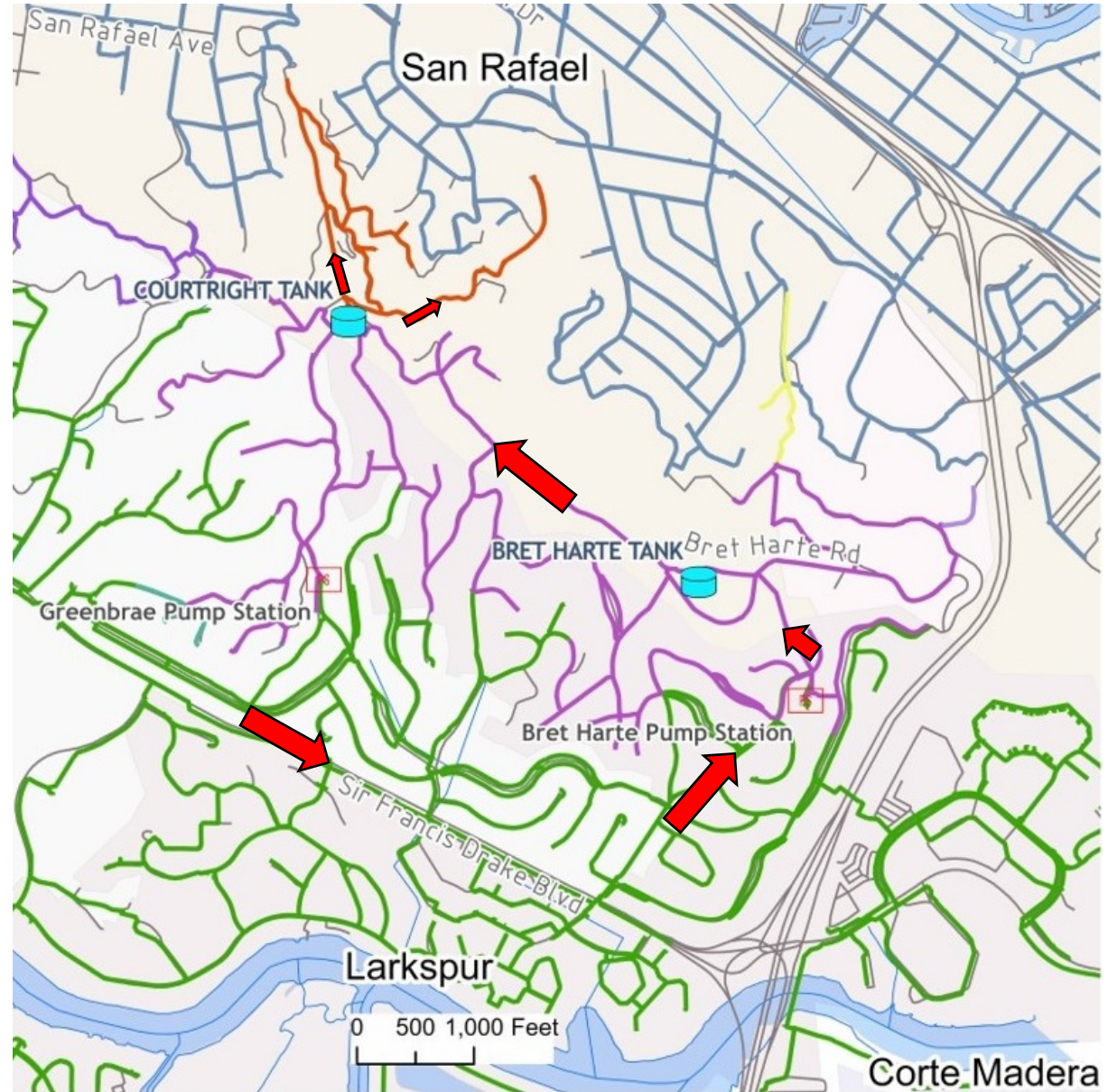
Courtright Tank

- 31 redwood tanks removed in last 10 years
- 6 remaining redwood tanks
- Schedule moved up
- District staff have reduced leaks by approximately 75%
- Addressed ponding issues



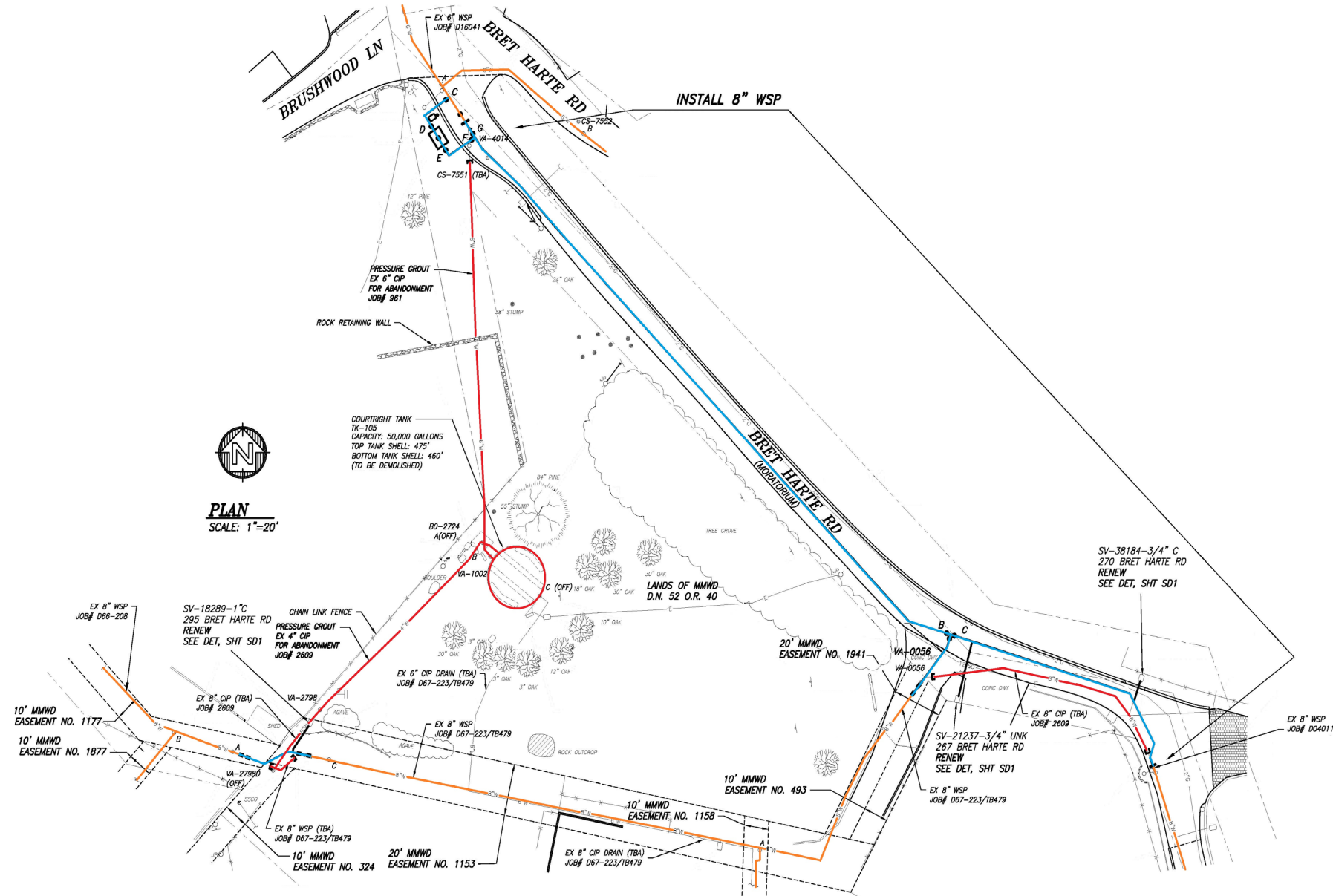
System Map

- Water from Ross Reservoir
- Bret Harte Pump Station
- Bret Harte Tank
- Bret Harte Tank to Courtright Tank by gravity
- Courtright Tank to the Courtright pressure zone



Design

- System hydraulic modeling showed tank could be removed
- New 8-inch pipeline on Bret Harte
- New Regulator at Bret Harte Rd and Brushwood Lane
- Remove Courtright Tank
- Abandon tank system piping
- Project Advertised: July 14
- Project Award: August 16
- Construction Complete: November 5, 2022



Project

Courtright System Improvements

- Engineers Estimate: \$255,000
- Install 520 feet of 8-inch pipe
- Install pressure regulator
- Remove Courtright Tank
- Abandon tank yard piping

Tank Replacement Cost

- Est. Replacement Cost: \$700,000
- New 50,000 gallon welded tank
- New concrete foundation
- New tank yard system piping

Project Benefits

- ✓ Combining pressures zones simplifies distribution system;
- ✓ Removing Courtright Tank reduces ongoing maintenance and cost associated with tanks;

Staff recommends to review and refer the item to a future regularly scheduled Board meeting for contract award.