

Engineering CIP Highlights 2025 Update

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Water System CIP Accomplishments

Category	Projects	Benefits
Water Supply	<ul style="list-style-type: none">Well Rehabs:<ul style="list-style-type: none">BayviewElks ClubBakersfieldAl TahoeArrowhead Well Arsenic Media Replacement2025 Test Well ProgramAl Tahoe/Bayview Emergency Power (under construction)Paloma Emergency Generator	Reliable water supply, emergency preparedness, and regulatory compliance
Storage & Distribution	<ul style="list-style-type: none">Keller-Heavenly Phase 3Gardner Mtn Tanks RecoatingBijou 1 WaterlinePioneer Trail Waterline (Larch to Ski Run)Washoan-Acoma PRV	Fire flow and pressure improvements, system redundancy and reliability



Wastewater System CIP Accomplishments

Category	Projects	Benefits
Pump Stations & Facilities	<ul style="list-style-type: none">Upper Truckee Sewer PS RehabilitationStanford Camp Electrical Building	Replaced aging mechanical & electrical equipment, maintain system reliability
Treatment	<ul style="list-style-type: none">Filters 3 & 4 RehabilitationWWTP Solar Facility	Energy savings & treatment reliability
Export System	<ul style="list-style-type: none">A&B Line Corrosion Protection SurveysC-Line Condition Assessment (underway)	Asset protection and proactive, data-driven R&R planning
Water Reuse/DVR	<ul style="list-style-type: none">HPR Outlet Structure RehabHPR Aeration System Replacement	Asset protection & environmental compliance



Innovation & Efficiency Improvements

Category	Initiatives	Impact
Asset & Data Management	<ul style="list-style-type: none">• NexGen EAM Rollout• Valve Exercising GIS-support• LSL Tracking Field Application• Condition-based CCTV w/AI analytics• DVR GIS Dataset• Dead-end Flushing GIS-support	Centralized asset inventory, CMMS upgrades, asset performance evaluation, data-driven decision-making, operational efficiency
Project Delivery	<ul style="list-style-type: none">• Procore CM Software• CM & Field Inspection Workflows• Integrated Contractor Invoicing & Change Orders	Standardized project delivery for capital construction
Sewer System Model Upgrades	<ul style="list-style-type: none">• Inflow/Infiltration Analysis• Model Calibration• Software Evaluations	Strategic planning and system evaluations



Cross-Agency & Community Coordination

Key Collaborations

- City SLT Recreation Center
- Tahoe Valley Greenbelt & Stormwater Projects
- Pioneer Trail (Larch to Ski Run)
- County Pedestrian Improvements – Apache Ave
- County Pioneer Trail Roundabout
- CTC/USFS Fuels Reduction Program (SPTUD, TCPUD, NTPUD partnership)

Value

Shared infrastructure investments, reduced disruptions to community, environmental compliance and stewardship



CIP Projects in Planning & Design

Water System

- Water System Master Plan (2026)
- Pioneer Trail Transmission Main (2026)
- AMI Meter Installations (2026)
- Park Ave Waterline (2027)
- Glenwood-Rancho Waterline (2027)
- Wildwood 3/5 Waterline (2028)
- Gardner Mtn 2/4 Waterline (2028)
- Meyers Supply Treatment Feasibility Study
- Tanglewood Well (2027)
- Sunset Well Rehab (2027)
- South Upper Truckee Well Rehab (2027)

Wastewater & Export System

- Tahoe Keys CIPP (2026)
- Forcemain ARV Rehab (2026)
- Montgomery Estates CIPP (2026)
- Ballast Ponds Rehab (2027)
- Bijou Sewer PS Rehab (2027)
- RAS PS Rehab (2027)
- Baldwin Beach Sewer & PS Rehab (2028)
- Blower System Improvements (2029)
- C-Line Rehabilitation (2030)

Looking Ahead

Upcoming Priorities

- Fill Current Vacancies in Engineering Department
- CIP Rebuild & Staff Capacity Analysis
- Continue Waterline Replacement Program (~4 miles/yr)
- Well and Tank Asset Management Program
- Well and Pump Station Monitoring
- Sewer Collection System I/I Mitigation
- AMI Meter Replacements (program support)
- Continued NexGen & Procore Optimization and SOP/Workflows
- Standard Details Development
- Engineering Processes & Procedures Improvements

Recognition & Appreciation

Thank you to our Board of Directors for your leadership, guidance, and commitment to investing in reliable, sustainable utility infrastructure.

We also recognize the hard work and collaboration of Engineering and District staff in delivering essential infrastructure improvements for our community.

Engineering Team

- Trevor, Brent, Mark, Brendan, Jim, Laura, Taylor, Sarah, Thea, Garth, Joe, & Star

Cross-District Collaborative Partners

- Field & Plant Operations
- Finance, Accounting, & Purchasing
- Information Technology
- Laboratory
- Customer Service
- Public & Legislative Affairs
- Executive Leadership