



# Proposed Projects for Addition to the T-Stan IRWMA

| June 15, 2022

# Proposed Projects for Addition to T-S IRWMP

Infrastructure to Address  
Drought Impacts, Fire  
Suppression, Water  
Conservation and Efficient  
Water Management

1. GCSD Drought Resilience Project
2. Downtown Groveland/Big Oak Flat  
Water Distribution Replacement  
Project
3. GCSD Advanced Metering  
Infrastructure (AMI) Deployment  
Project

# GCSD Drought Emergency Relief/Resilience Project

## Project Overview

The Project will install infrastructure to address short and long term drought impacts thus improving the water supply of Groveland, Big Oak Flat and Pine Mountain Lake.

Funded 100% by DWR in Round 2  
Urban and Multi-benefit Drought Relief  
Funding

# Project Components

- 1) Improve the existing water treatment plant intake in Pine Mountain Lake;
- 2) Relocate the existing trailer-mounted water treatment plant (currently located at the Pine Mountain Lake maintenance yard in Par Ct) to a permanent location;
- 3) Add a new 140,000 gallon storage tank next to Tank 5 within the Groveland/Big Oak Flat service area;
- 4) Construct 5,500 linear feet of water transmission main connecting Tank 5 to the Big Oak Flat to allow service through Tank No. 5; and
- 5) Construct a new Groundwater Well and discharge pipeline to supply water to Tank 5 during severe drought conditions. Will be split into components

# Project Cost and Schedule

Completion by June 30, 2024

- Estimated Total Cost = \$8,545,000

# Downtown Groveland/Big Oak Flat Water Distribution Replacement Project

## Project Overview

The project includes the replacement of much of the main 60-80 year old, undersized and leaking water distribution piping in downtown Groveland and Big Oak Flat.

The project CEQA is complete and Design is 90% complete



# Project Components

Groveland

- Construct 4,995 linear feet (LF) of 6" water main on the lots to the north of Highway 120.
- - Construct 160 LF of 6" water main to connect the existing water main to the new water main north of Highway 120.
- - Construct 2,610 LF of 6" water main on the lots to the south of Highway 120 and along Back Street.
- - Construct 1,310 LF of 6" water main along Foote Street and extending to the east.
- - Construct 2 segments of water main, 440 LF and 290 LF respectively, connecting the new water main south of Highway 120 to the new water main along Foote Street.
- - Construct 215 LF of 6" water main along Power House Street connecting the new water main on Back Street to the new water main along Foote Street.
- - Construct 385 LF of 6" water main connecting the new water mains north of Highway 120 to the new water mains south of Highway 120.
- - Construction of new gate valves, pressure reducing valves and fire hydrants along the new water mains, as needed.

# Project Components

Big Oak Flat and White's Gulch

- Replace 2,000 LF of 4" water main with 6" water main along Wards Ferry Road, including two (2) gate valves and three (3) fire hydrants.
- Replace 1,015 LF of 4" water main with 6" water main along Scofield Street including one (1) gate valve and three (3) fire hydrants.
- Replace 1,040 LF of 4" water main with 6" water main along Big Oak Road including one (1) gate valve and one (1) fire hydrant.
- Replace 320 LF of 4" water main with 6" water main along Henderson Street including one (1) gate valve and one (1) fire hydrant.
- Replace 295 LF of 4" water main with 6" water main along Black Road including one (1) gate valve and two (2) fire hydrants.
- Replace 745 LF of 4" water main with 6" water main along Harper Street.
- Replace 5,170 LF of 6" water main along White Gulch Road, near Highway 120.
- Replace 1,200 LF of 4" water main with 6" water main along Old Highway 120.
- Construction of new gate valves, pressure reducing valves and fire hydrants along the new water mains, as needed.

# Project Benefits/IRWM Plan Objectives

- Water Supply Reliability
- Water Conservation
- Add fire hydrants for fire suppression

# Project Cost and Schedule

Completion = Approximately 2 years from funding

- Estimated Total Cost = \$10,500,000

# GCSD Advanced Metering Infrastructure (AMI) Deployment Project

# Project Overview

Replaces existing manual read water meters with automated, remote read meters all customers in the GCSD system

# Project Components

- Replace 3300 water meters with AMI cellular technology
- Replace water meter boxes

# Project Benefits/IRWM Plan Objectives

- Integrates with Wastewater services by providing real-time and historical data to:
  - Better manage wastewater inflow, identify I&I and establish sewer rates and charges
  - Identify impacts of various land uses including multi-family residential, ADU, commercial and Short-Term Rentals
- Conserves up to 70 acre feet annually
- Significant water system and customer water use management capabilities



# Project Cost and Schedule

Completion < 1 Year

- Estimated Total Cost = \$2,753,000
  - Furnish and installation, engineering, administration and construction management