



**SAN JOAQUIN**  
— COUNTY —  
*Greatness grows here.*




# San Joaquin County Advisory Water Committee

Proposed Flood Risk  
Reduction Initiatives  
April 15, 2026

Chris Boyer, P.E. - Sr. Water Resources  
Engineer

Worked with Channel Maintenance, Road Maintenance and consultants to prioritize known problem locations in the County



Separated project list into two categories:

Capital Improvement Projects

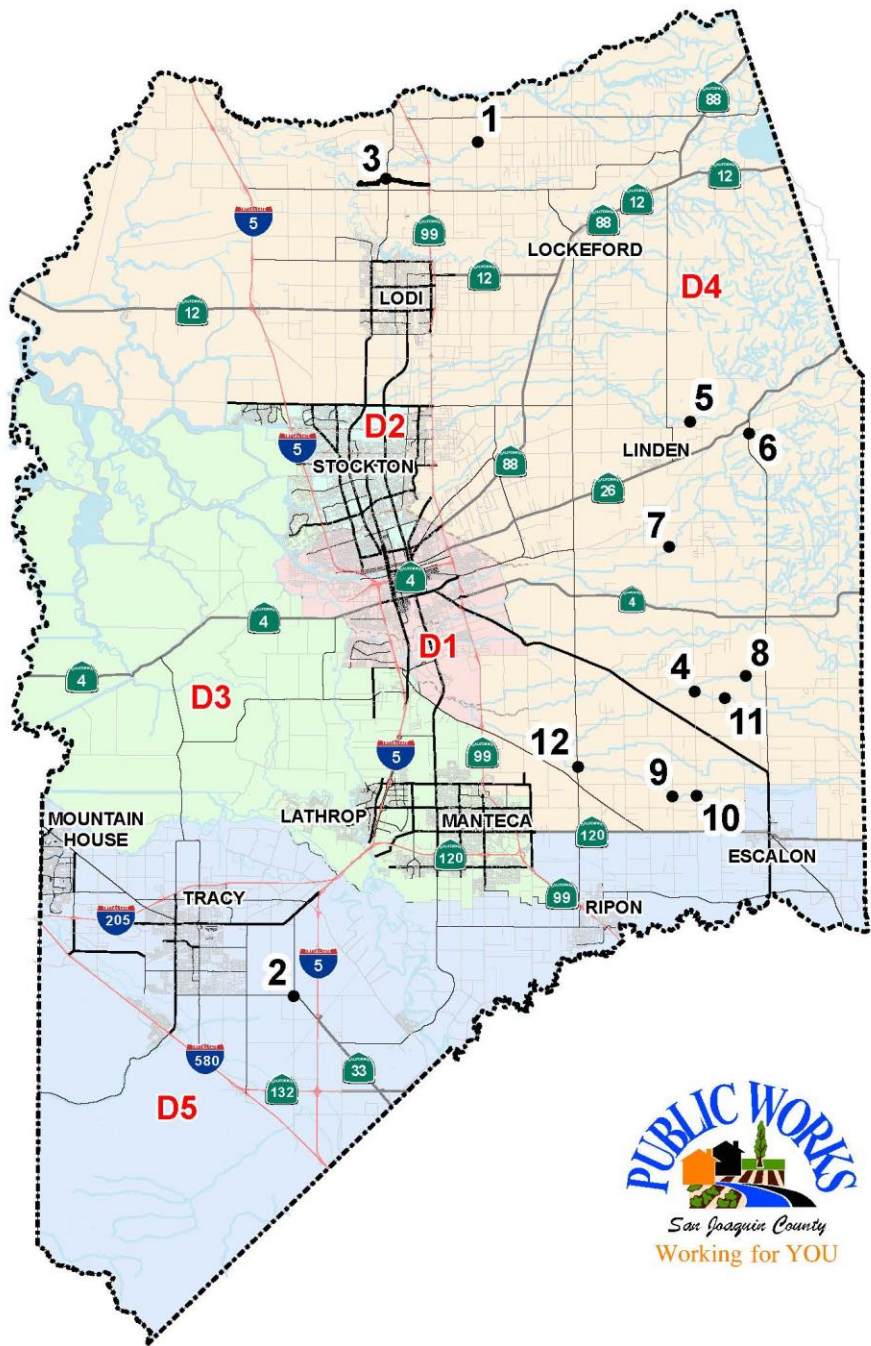
Flood Map Modernization Projects



Narrowed list down to highest priority projects over 5-year period

# Proposed Capital Improvement Projects (5-Year Plan)

# Capital Improvement Project 5-Year Plan (Proposed FY 26/27 Projects Shown in Red)



1. Remnant Creek at Dustin Road Culvert Replacement Project
2. Linne Rd at Bird Rd Drainage Improvement Project
3. Gill Creek Area Drainage Master Study and Plan
4. Temple Creek & Van Allen Rd
5. Calaveras River & DeMartini Ln
6. Potter Creek & Escalon-Bellota Rd
7. Copperopolis Rd Between Duncan Rd & Dietrich Rd
8. Littlejohns Creek Distributary & Gawne Rd
9. Lone Tree Creek & Carrolton Rd
10. Lone Tree Creek & Van Allen Rd
11. Temple Creek & Biederman Wy
12. Lone Tree Creek & Jack Tone Rd

# Recommended CIP Projects Starting in Year 1 (FY 2026/2027)

Project No. 1  
Remnant Creek at  
Dustin Rd Culvert  
Replacement Project

Description: Road elevation,  
culvert replacements, &  
channel regrading

Est. Project Cost: \$950,000

Fiscal Year Start: FY 26/27

Est. Duration: 2 years



# Project No. 2 Linne Rd at Bird Rd Drainage Improvement Project

Description: Remove sediment,  
regrade channel, & extend  
channel

Est. Project Cost: \$350,000

Fiscal Year Start: FY 26/27

Est. Duration: 1 year



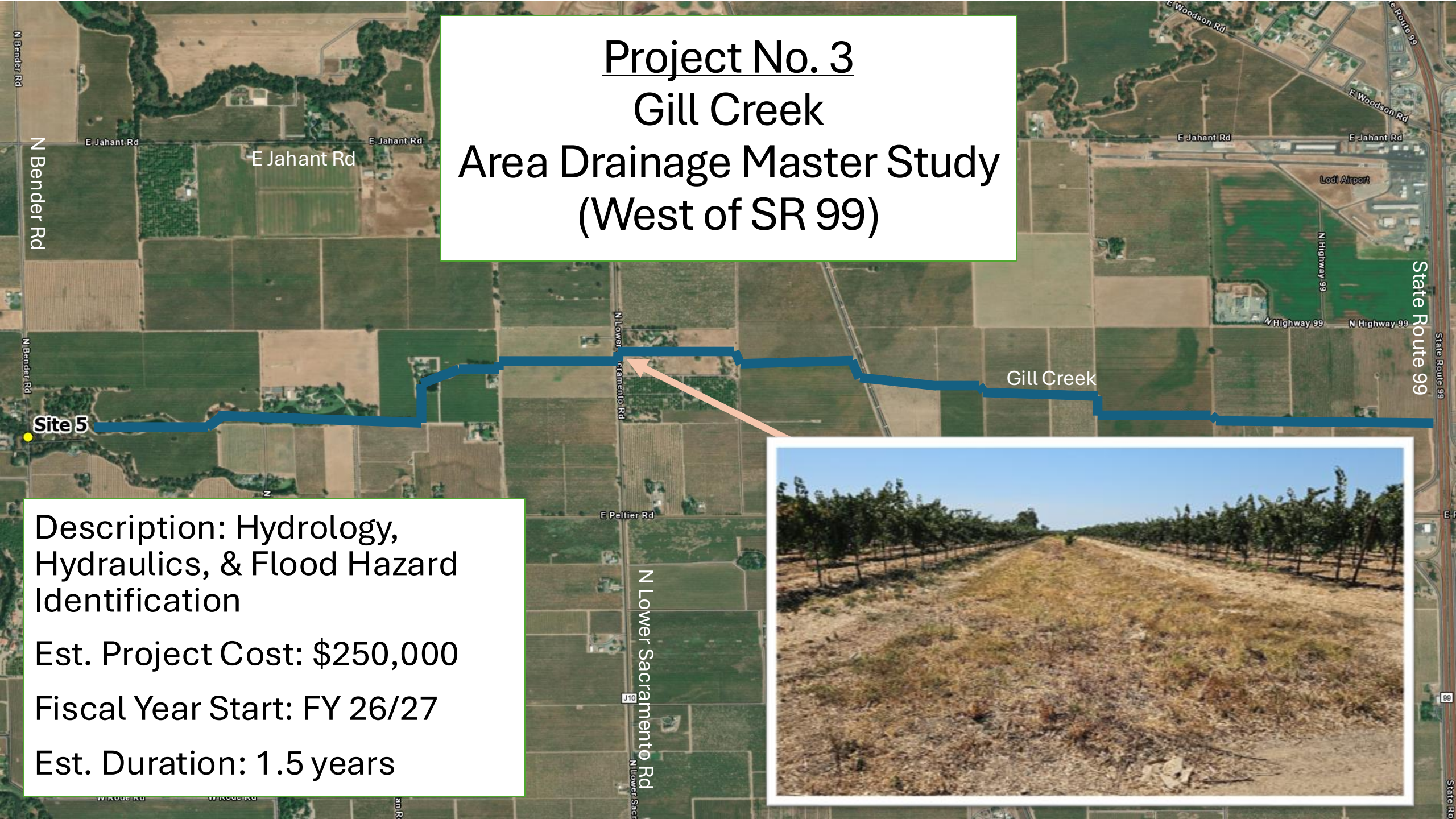
# Project No. 3 Gill Creek Area Drainage Master Study (West of SR 99)

Description: Hydrology,  
Hydraulics, & Flood Hazard  
Identification

Est. Project Cost: \$250,000

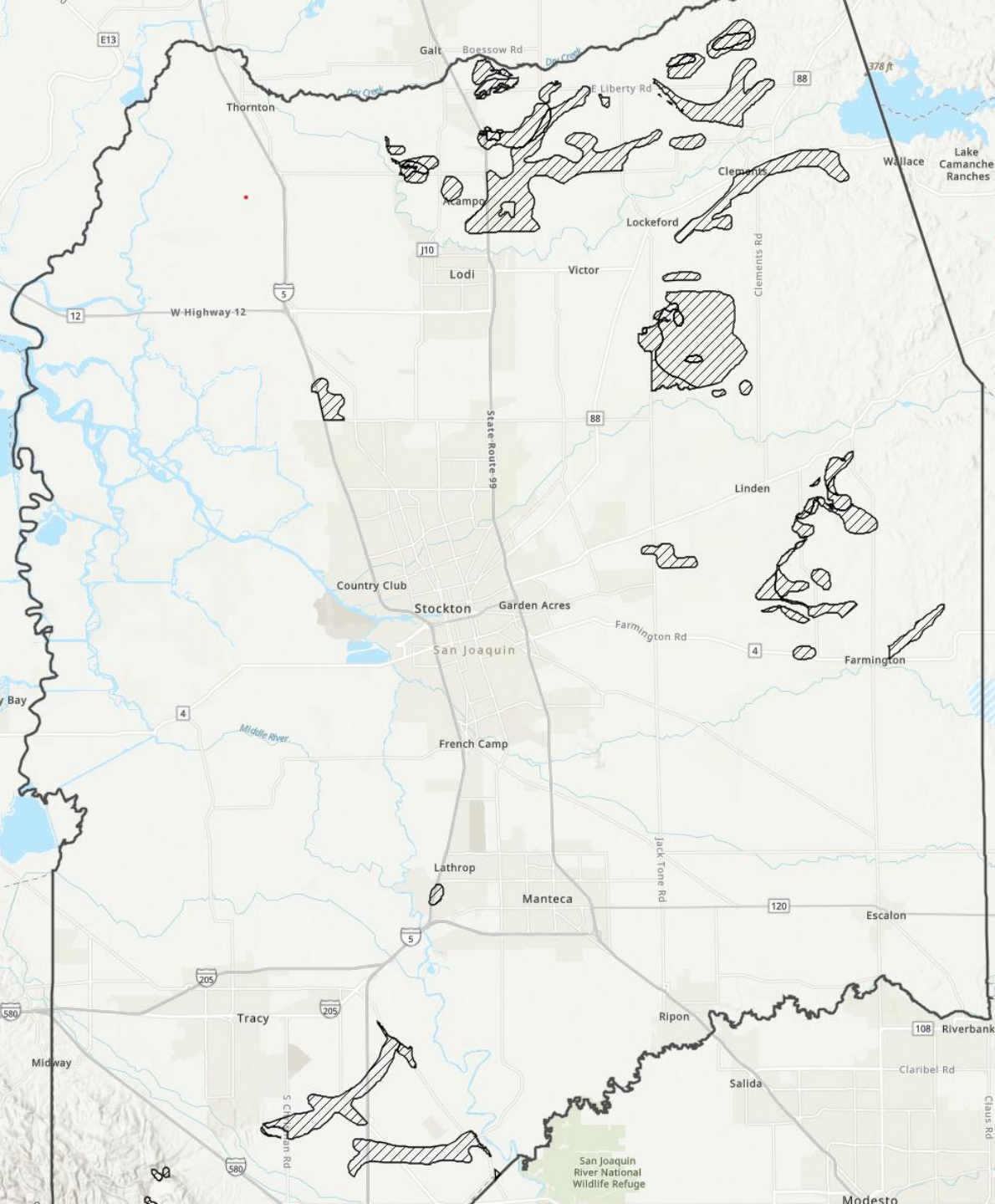
Fiscal Year Start: FY 26/27

Est. Duration: 1.5 years



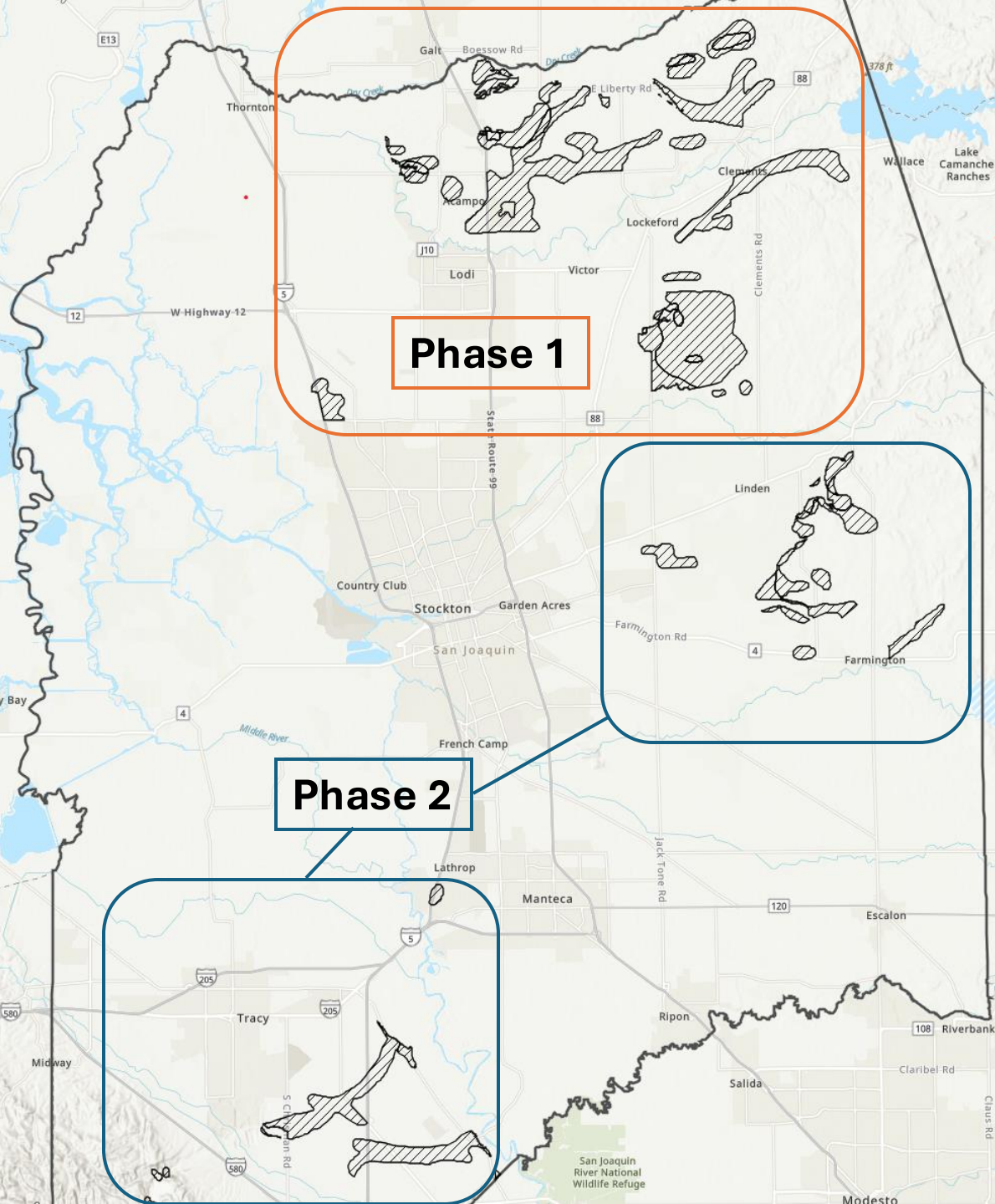
# Local Floodplain Delineation Project

(Will Replace Historical Floodplains as Regulatory Floodplains outside FEMA Special Flood Hazard Areas)



# Historical Flood Zones

- Historically known flooding areas outside FEMA Special Flood Hazard Areas (SFHAs)
- Based on areas that flooded in 1955, 1958, or both
- County regulates these areas similar to SFHAs
- Many changes have occurred since 1950s
  - Dams constructed in Sierra foothills in 1960s along Mokelumne, Calaveras, and Stanislaus Rivers
  - Irrigation channels constructed
  - Land-leveling activities by growers
- Maps need to be updated



**Phase 1**

**Phase 2**

# Local Floodplain Mapping

- Plan is to modernize flood maps by:
  - Performing new hydrology
  - Performing new hydraulics
  - Delineating new 100-year floodplains outside FEMA SFHAs, replacing our historic flood zones with local floodplains as a regulatory tool

# Project No. 4

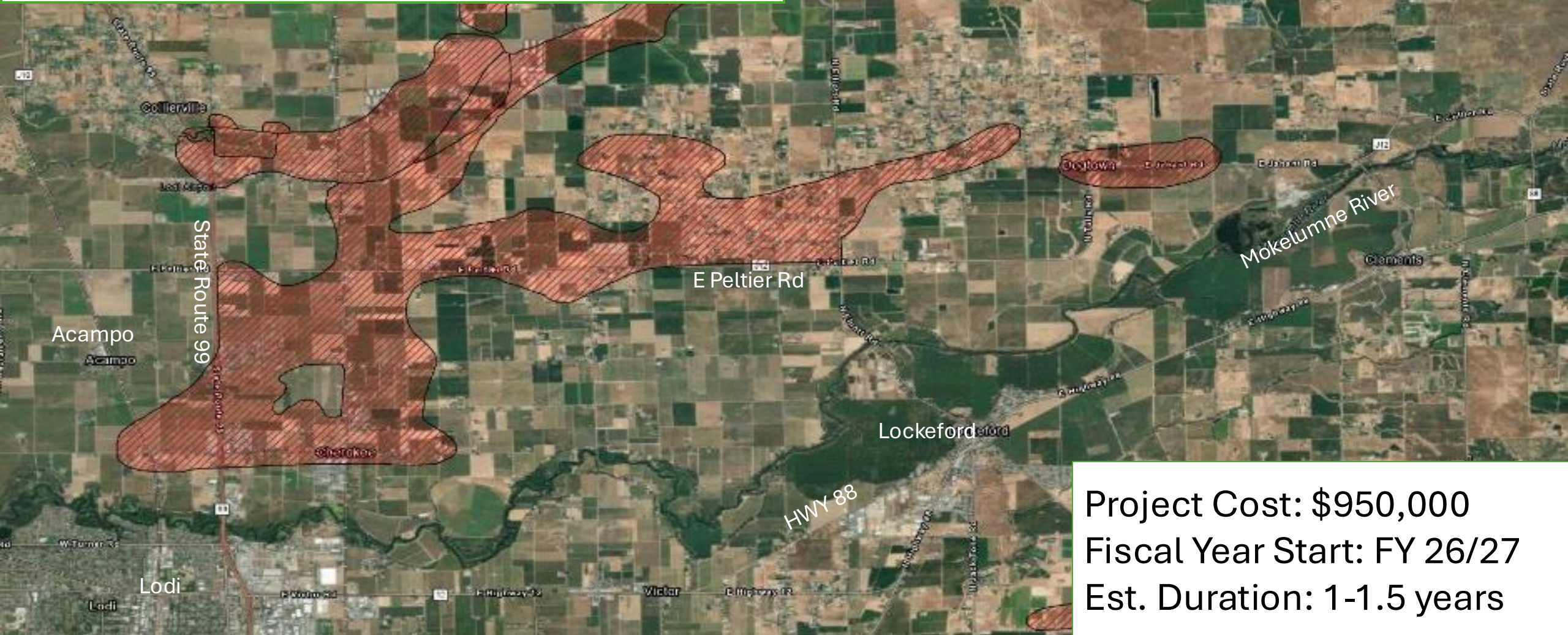
## Local Floodplain Delineation – Phase 1 (North County)



Project Cost: \$950,000  
Fiscal Year Start: FY 26/27  
Est. Duration: 1-1.5 years

# Project No. 4 (continued)

## Local Floodplain Delineation – Phase 1 (North County)



Project Cost: \$950,000  
Fiscal Year Start: FY 26/27  
Est. Duration: 1-1.5 years

# Project No. 4 (continued)

## Local Floodplain Delineation – Phase 1 (North County)



Project Cost: \$950,000  
Fiscal Year Start: FY 26/27  
Est. Duration: 1-1.5 years

# Questions

## Staff Recommendation

That the Advisory Water Commission recommend Board of Supervisors approval of the FY 26/27 budget which includes expenditures of \$2.5M for the following four projects:

1. Remnant Creek at Dustin Rd Culvert Replacement Project (\$950k)
2. Linne Rd at Bird Rd Drainage Improvement Project (\$350k)
3. Gill Creek Area Drainage Master Study (\$250k)
4. Local Floodplain Delineation Project – Phase 1 (\$950k)