



Carmel River Reroute & San Clemente Dam Removal Project

Cachagua Community Outreach Meeting

July 11, 2012



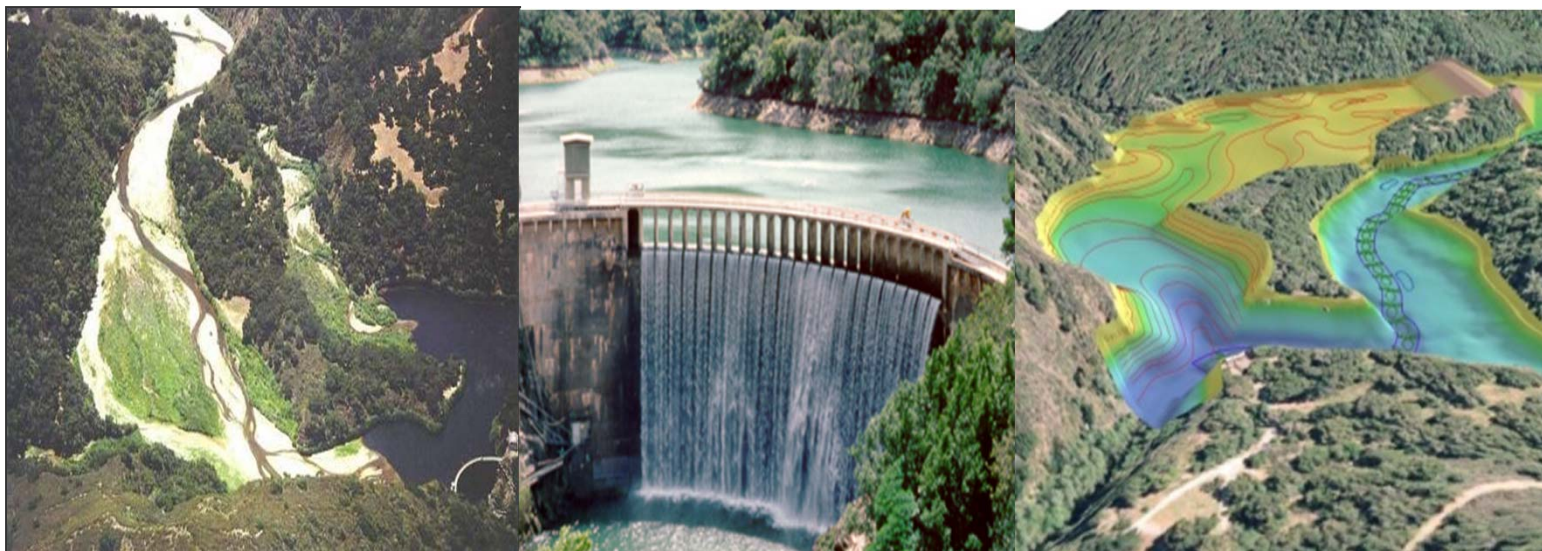
Agenda

- 
1. Background
 2. Project Overview
 3. Construction Access
 - a) Access Route Maps
 - b) Access Route Traffic Use
 - c) Material Hauling
 - d) Traffic Safety
 4. Construction Traffic Estimates
 5. Questions

PROJECT DESIGN AND ENGINEERING



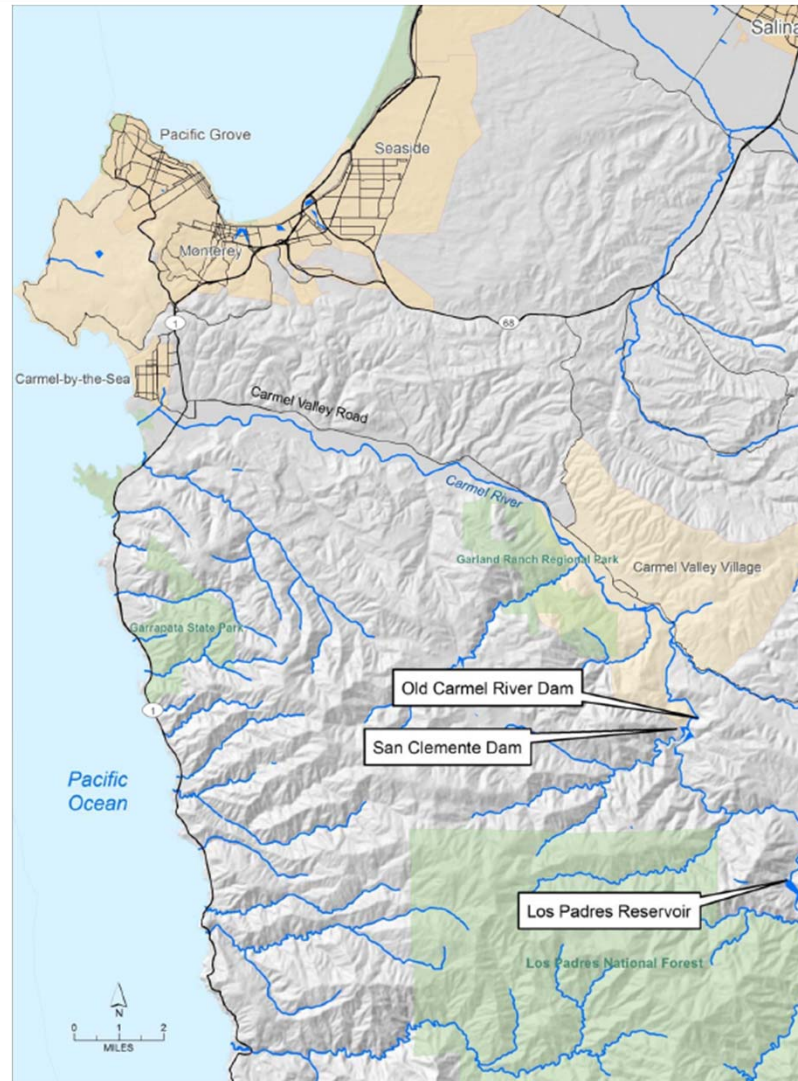
Background



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Background Vicinity Map



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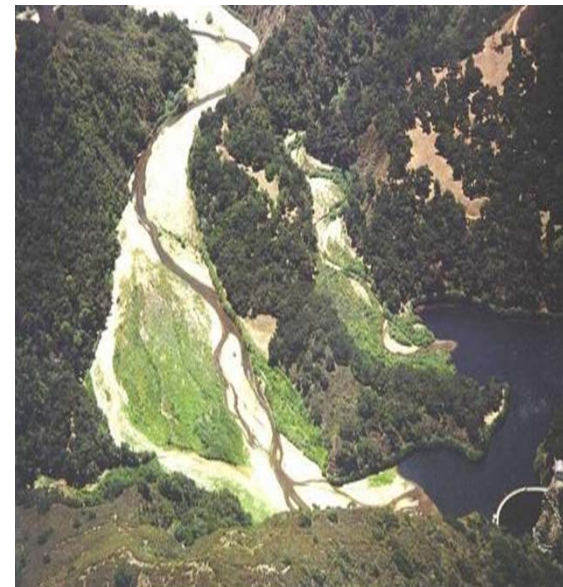
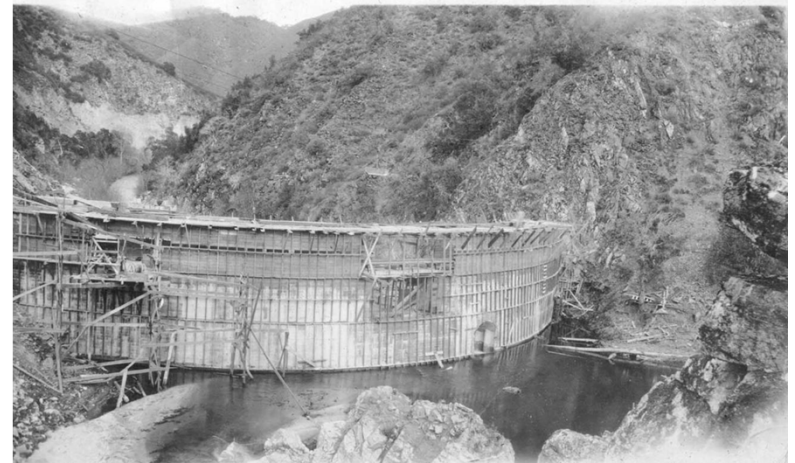


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Background Site Conditions

1. SC Dam built in 1921,
 - a. 106 feet tall concrete arch dam
 - b. 18.5 miles upstream of the river mouth
 - c. Confluence with San Clemente Creek directly upstream of dam
 - d. Reservoir storage of approximately 1,425 acre-feet
2. Under current conditions,
 - a. Reservoir filled with approx. 2.5 million CY of sediment
 - b. Capacity reduced to approx. 70 acre-feet

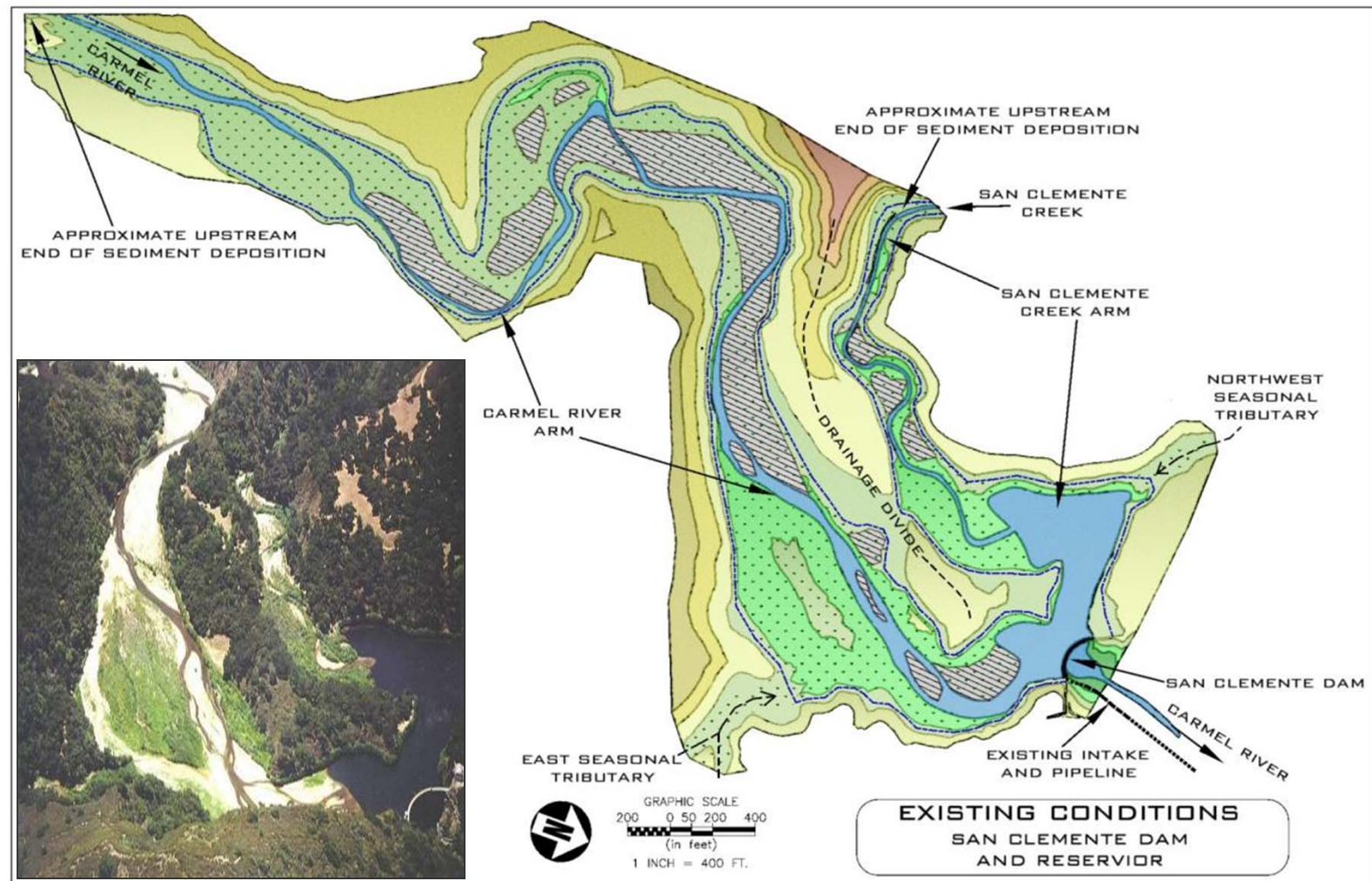


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Background

Existing Conditions



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Background

Milestone Summary

1. DSOD issues a dam safety order in early 1990s
2. DWR released DEIS/R with Dam Removal & River Reroute Alternative in 2006
3. Final EIS/R certified in 2007
4. Currently, design & permitting is moving forward with cooperative agreement between CAW, SCC and NMFS
5. SCC and NMFS will secure up to \$35 million in additional funding.
6. Design-Build procurement was selected
7. CAW will donate 925 acres to BLM

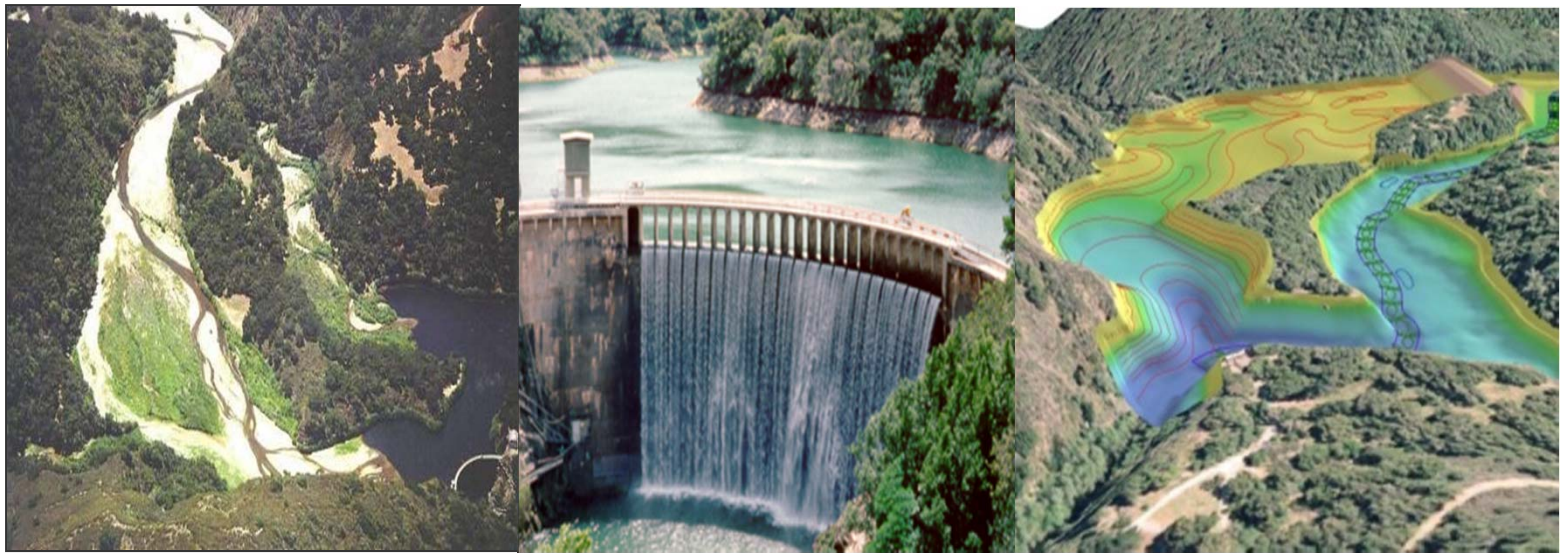
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Project Overview



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Design Overview

Goals & Objectives

1. Primary Goals

- a. Provide a long-term solution to dam safety issue
- b. Improve fish passage conditions and provide rearing habitat
- c. Diminish potential for excessive erosion, undermining or slope failure leading to sediment mobilization
- d. Avoid exacerbating downstream flooding

2. Secondary Goals

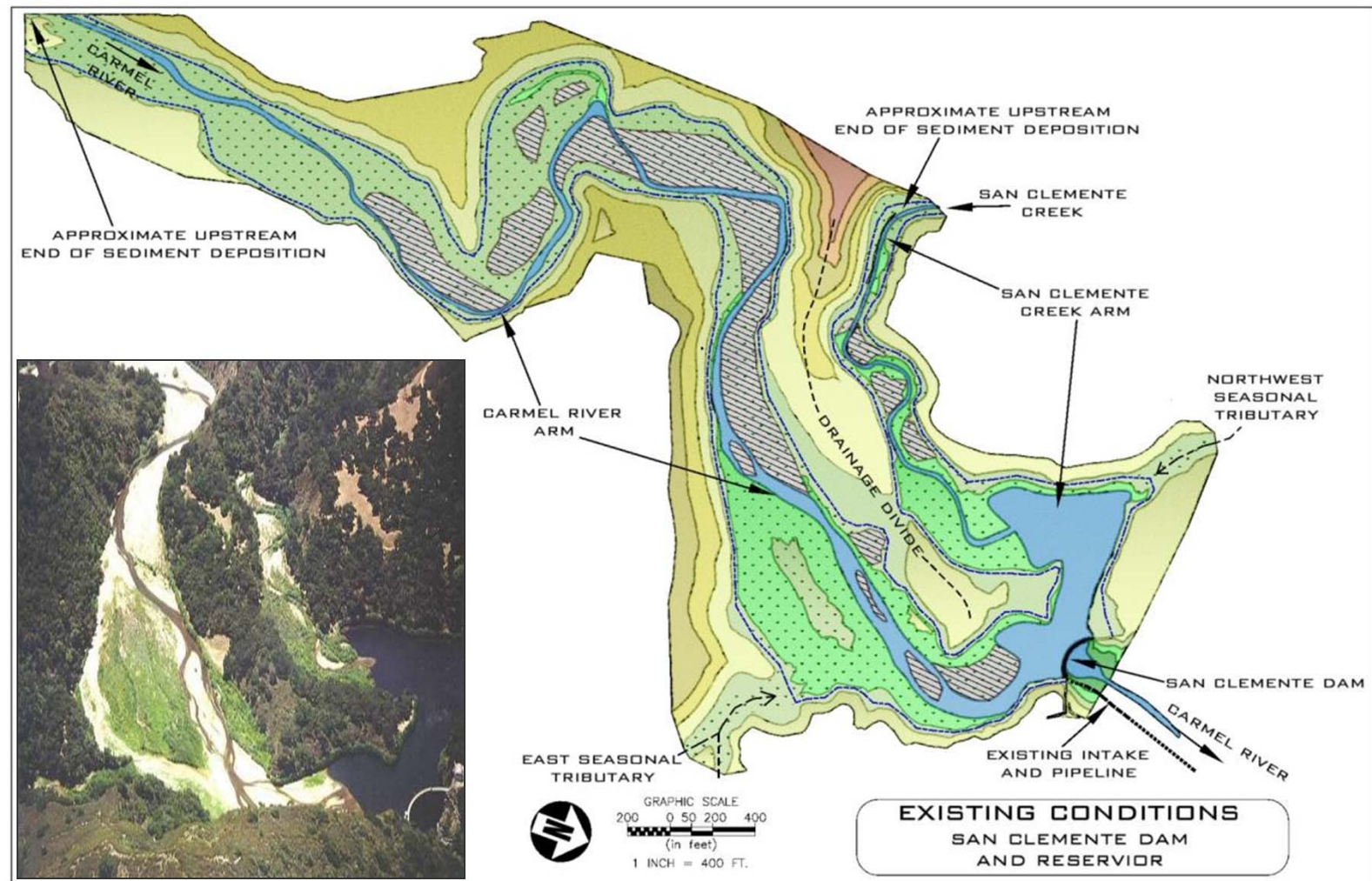
- a. Restoration of natural character and function of valley bottom
- b. Shaping project components to be as natural as feasible
- c. Provide long-term sustainable habitat
- d. Promote re-establishment of a more natural sediment transport regime

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Project Overview

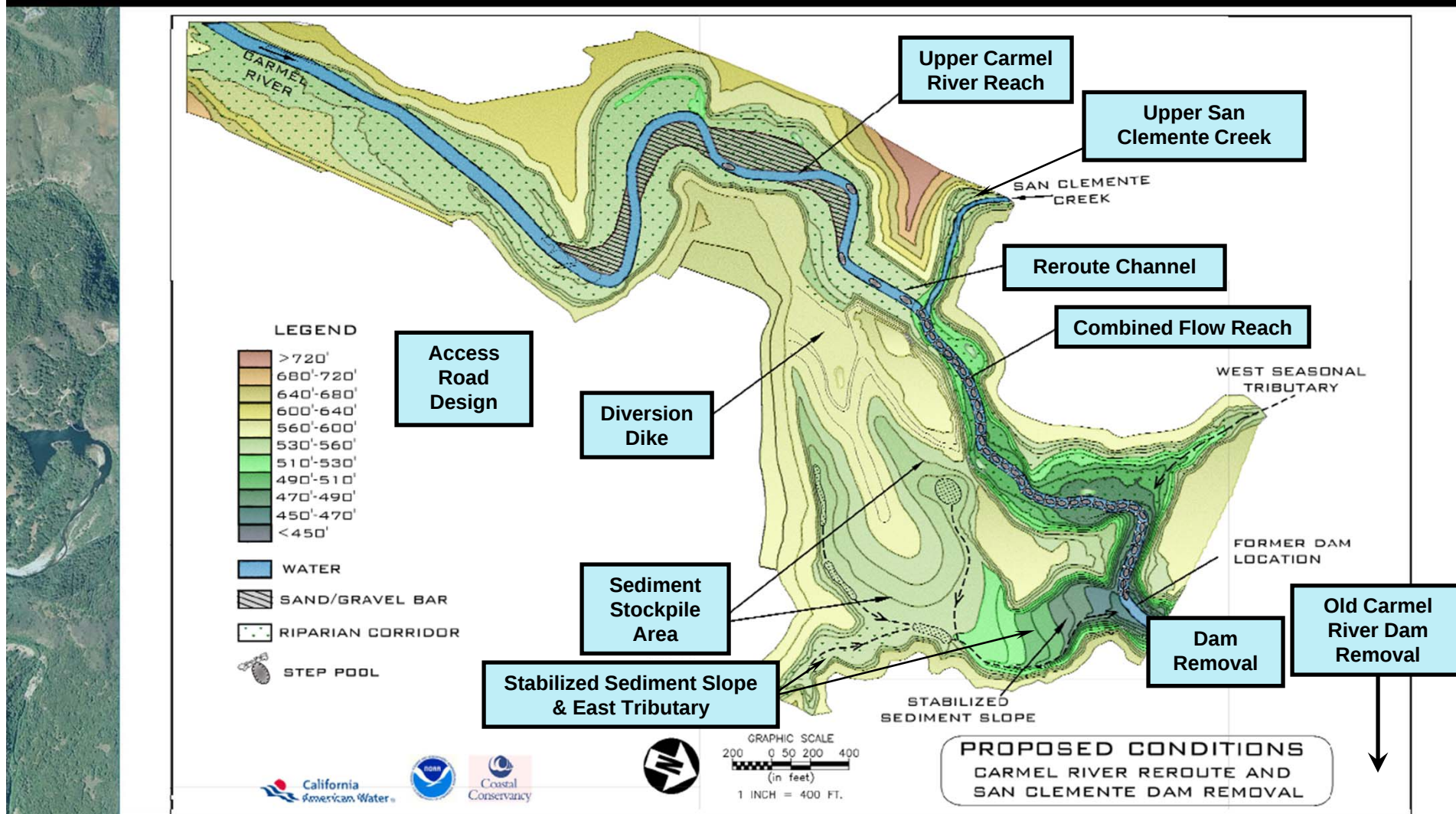
Existing Conditions



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Project Overview

Proposed Features



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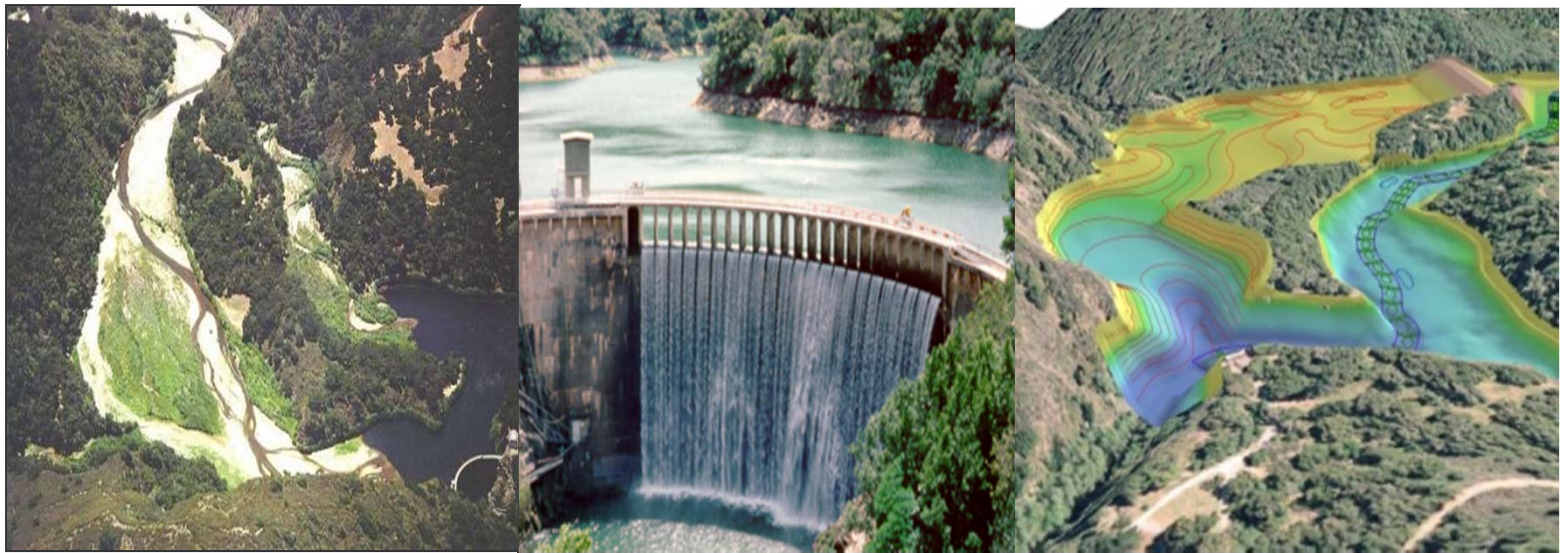
Project Overview

Timeline

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1. June 2012 - RFP out to shortlisted D-B Teams
 2. September 2012 – D-B Proposals due
 3. September 2012 – Begin Access Road Construction
 4. December 2012 - D-B Team selection
 5. March 2013 - Execute D-B Agreement
 6. March 2013 – D-B begins Diversion Design
 7. May 2013 – D-B begins Diversion Construction, Geotechnical Investigations, and Site Design
 8. 2013 to 2015 – Majority of Site Construction
 9. 2015 to 2020 – D-B Post Construction Phase

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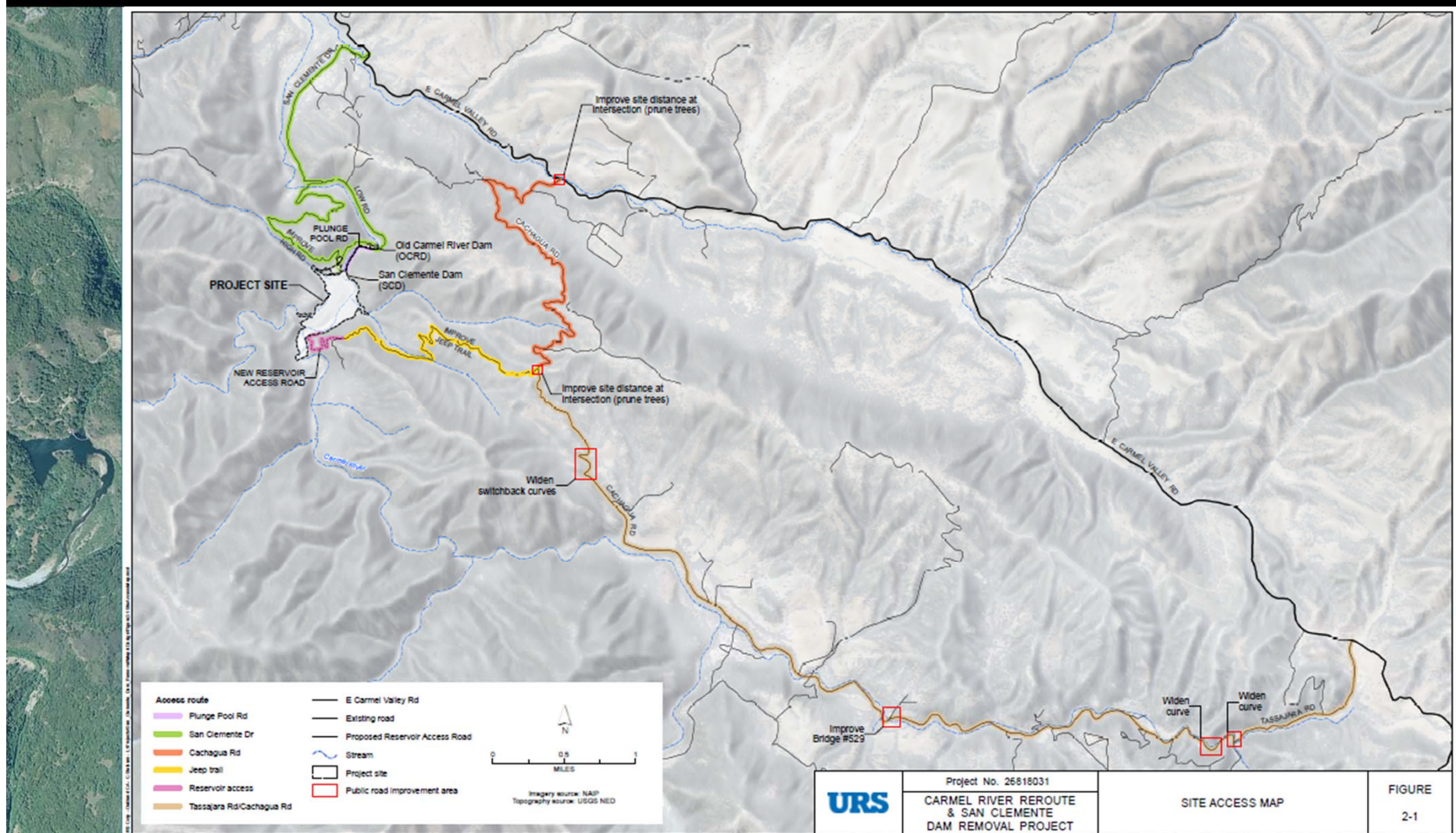
Construction Access



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Construction Access Access Route Map

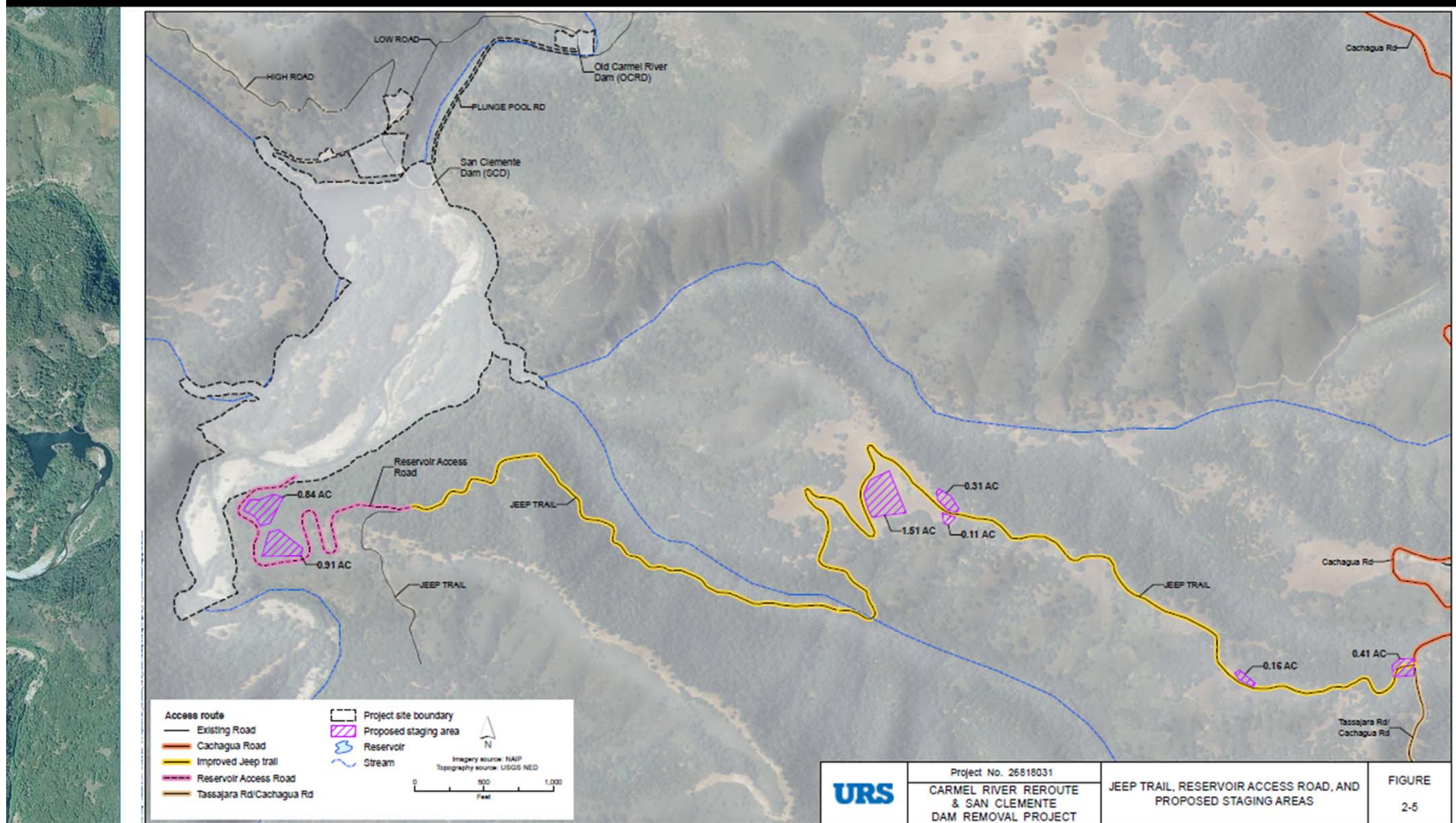


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Construction Access

Jeep Trail/Reservoir Access Road



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Construction Access

Access Route Traffic Use

- 
1. Cachagua Road/Jeep Trail
 - a. Buses from Park and Ride (Location TBD) for most workers
 - b. Some personal vehicles
 - c. Construction material in single unit haulers
 2. Tassajara Road/Cachagua Road/Jeep Trail
 - a. Construction equipment mobilization
 - b. Any construction material that would not be able negotiate Cachagua Road
 3. San Clemente Drive
 - a. Limited personal vehicles
 - b. Limited trucks (1 to 2 ton)

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Construction Access

Material Hauling

1. Construction Materials Imported to Site
 - a. Pipe, valves, etc. for diversion
 - b. Aggregate base for access roads
 - c. Imported aggregates for filter materials
 - d. Cement for soil improvement using deep soil mixing (DSM)
2. Construction Materials Removed from Site
 - a. Demolition debris (metal, wood, sheetrock, pipe, etc.); concrete will be buried on site

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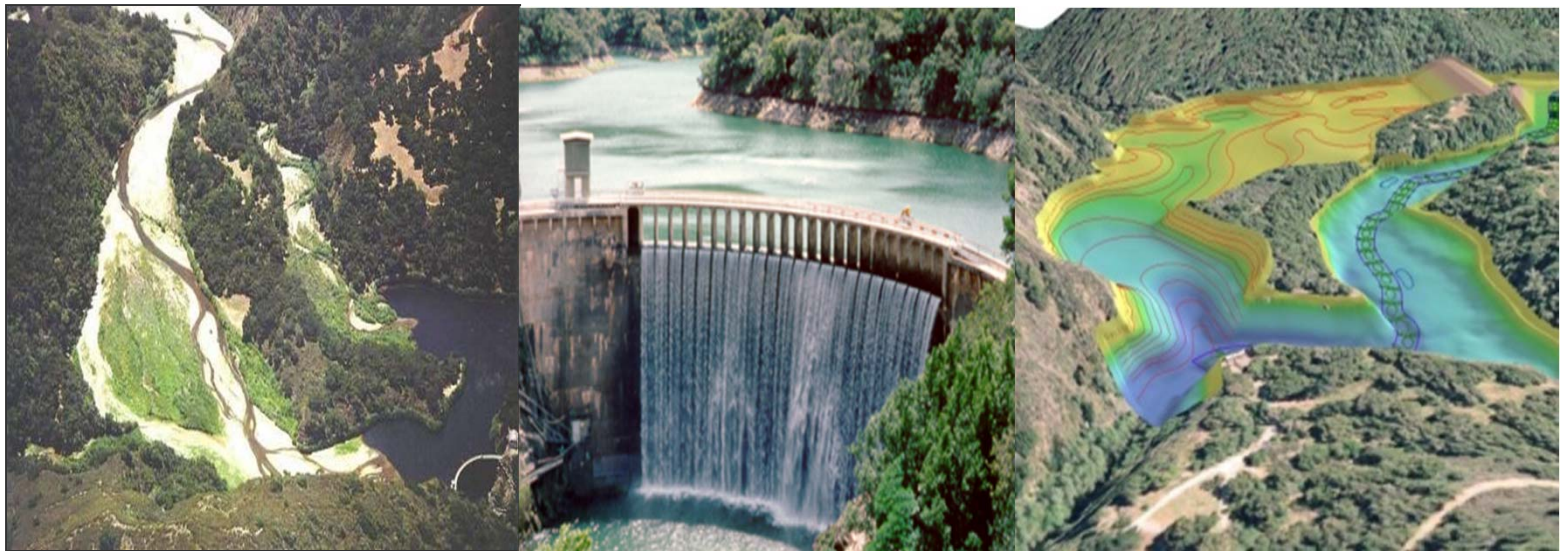
Construction Access

Traffic Safety

1. Traffic Control Plan by Contractor; Approved by County
2. Coordinate with Cachagua Fire District
 - a. 24-hour contact name and number
 - b. Copy of approved Traffic Control Plan
 - c. Updates to traffic estimates (monthly breakdown)
3. Pilot Cars will be required for
 - a. Construction equipment mobilization
 - b. Construction material hauling
4. Flagman required public road construction
5. Signage
6. Adherence to speed limits on all public roads will be emphasized
7. Material hauling will be restricted to:
 - a. 9 am to 3 pm Monday through Friday
 - b. No hauling when school buses are scheduled to run

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Construction Traffic Estimates



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Construction Traffic Estimate

Equipment Mobilization

1. Heavy Equipment Mobilization

- a. Extended flatbed to bring in large equipment or crane; Mobile material processing plant.
- b. Route: Tassajara Road to Cachagua Road to Jeep Trail ONLY

2. Equipment Mobilization Estimates:

- a. Typically would involve 0-5 round trips per month
- b. Monthly round trip peaks as follows:
 - i. 1st year of site construction – 25 at start of season, 20 at end of season
 - ii. 2nd year of site construction – 40 at start of season, 45 at end of season
 - iii. 3rd year of site construction – 30 at start of season, 15 at end of season



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Construction Traffic Estimate

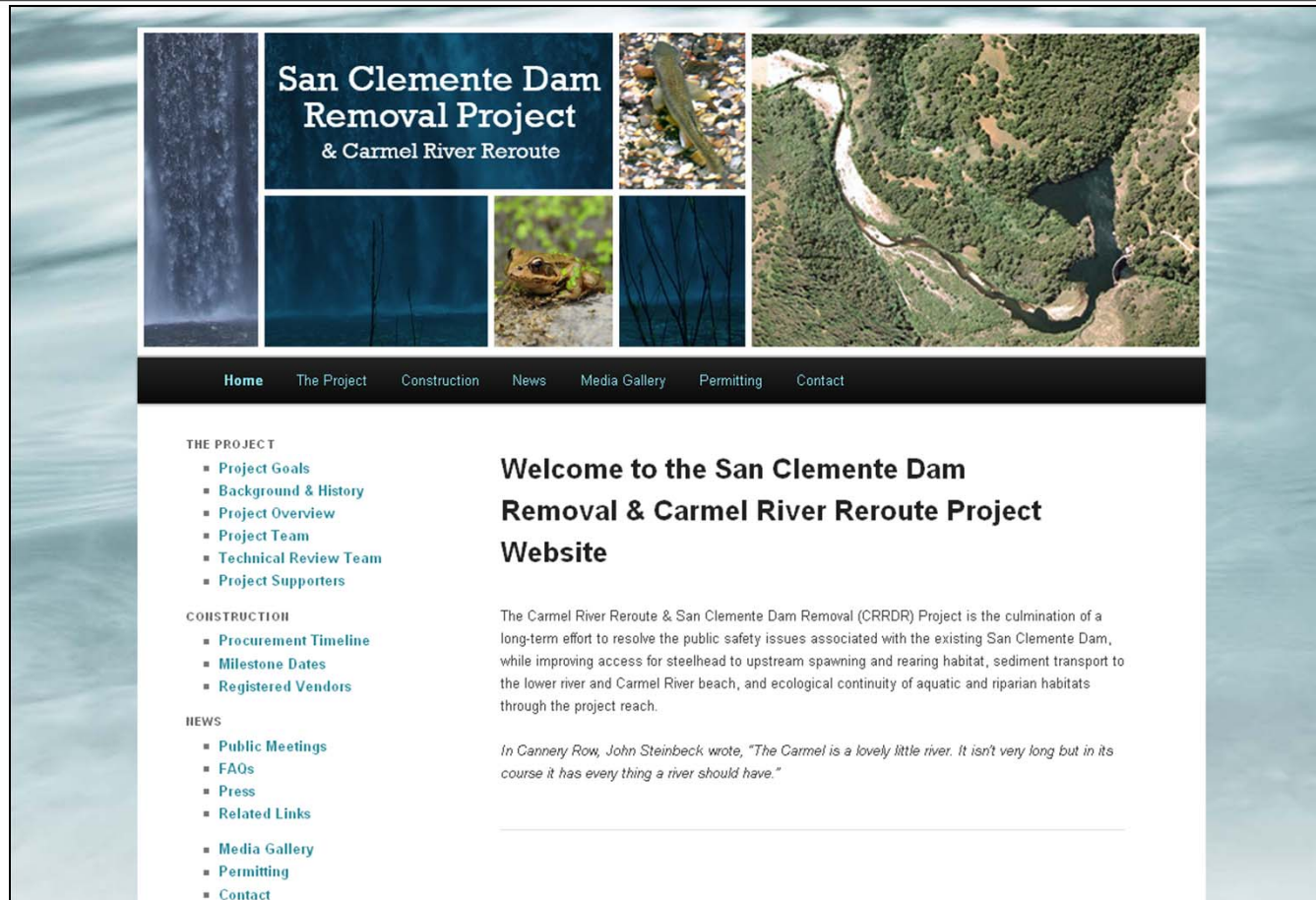
Daily Average Trips

Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2012												
Personnel Onsite	-	-	-	-	-	-	-	30	40	30	30	40
Personnel Trips ¹	-	-	-	-	-	-	-	10	10	10	10	10
Material Trips												
Single Unit ²								1	1	9	9	1
Trailer ³	-	-	-	-	-	-	-	1	1	1	1	1
2013												
Personnel Onsite	20	5	5	20	90	80	60	70	70	70	5	5
Personnel Trips ¹	5	1	1	10	20	15	15	15	20	20	1	1
Material Trips												
Single Unit ²	1	0	0	1	1	1	1	1	1	1	0	0
Trailer ³	1	0	0	1	1	1	2	1	1	1	0	0
2014												
Personnel Onsite	5	5	5	20	50	80	80	80	80	90	30	5
Personnel Trips ¹	1	1	1	10	15	20	20	20	20	20	10	1
Material Trips												
Single Unit ²	0	0	0	1	1	12	12	1	1	1	1	0
Trailer ³	0	0	0	1	1	1	1	1	1	1	1	0
2015												
Personnel Onsite	5	5	5	20	40	80	70	80	70	60	50	40
Personnel Trips ¹	1	1	1	10	15	20	20	20	20	15	15	15
Material Trips												
Single Unit ²	0	0	0	1	1	1	4	4	1	1	1	1
Trailer ³	0	0	0	1	1	1	1	1	1	1	1	1
2016												
Personnel Onsite	-	-	-	-	-	-	30	30	-	-	-	-
Personnel Trips ¹	-	-	-	-	-	-	10	10	-	-	-	-
Material Trips												
Single Unit ²	-	-	-	-	-	-	1	1	-	-	-	-
Trailer ³	-	-	-	-	-	-	1	1	-	-	-	-

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Questions?



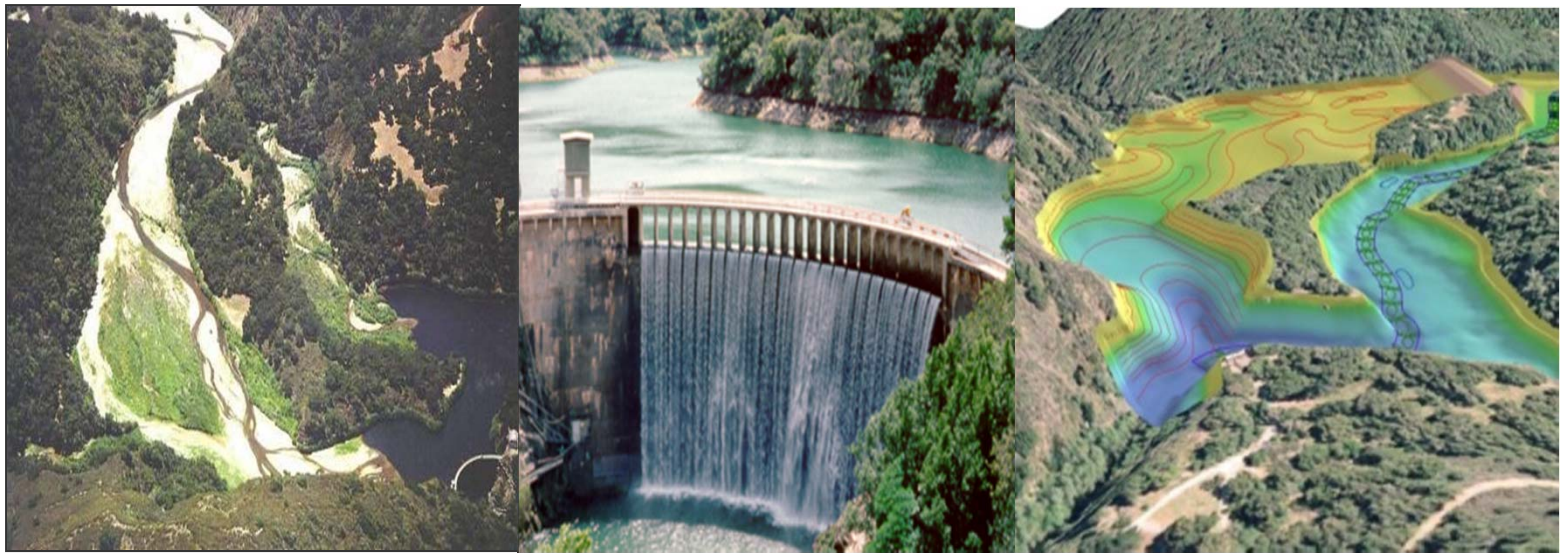
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Pocket Slides

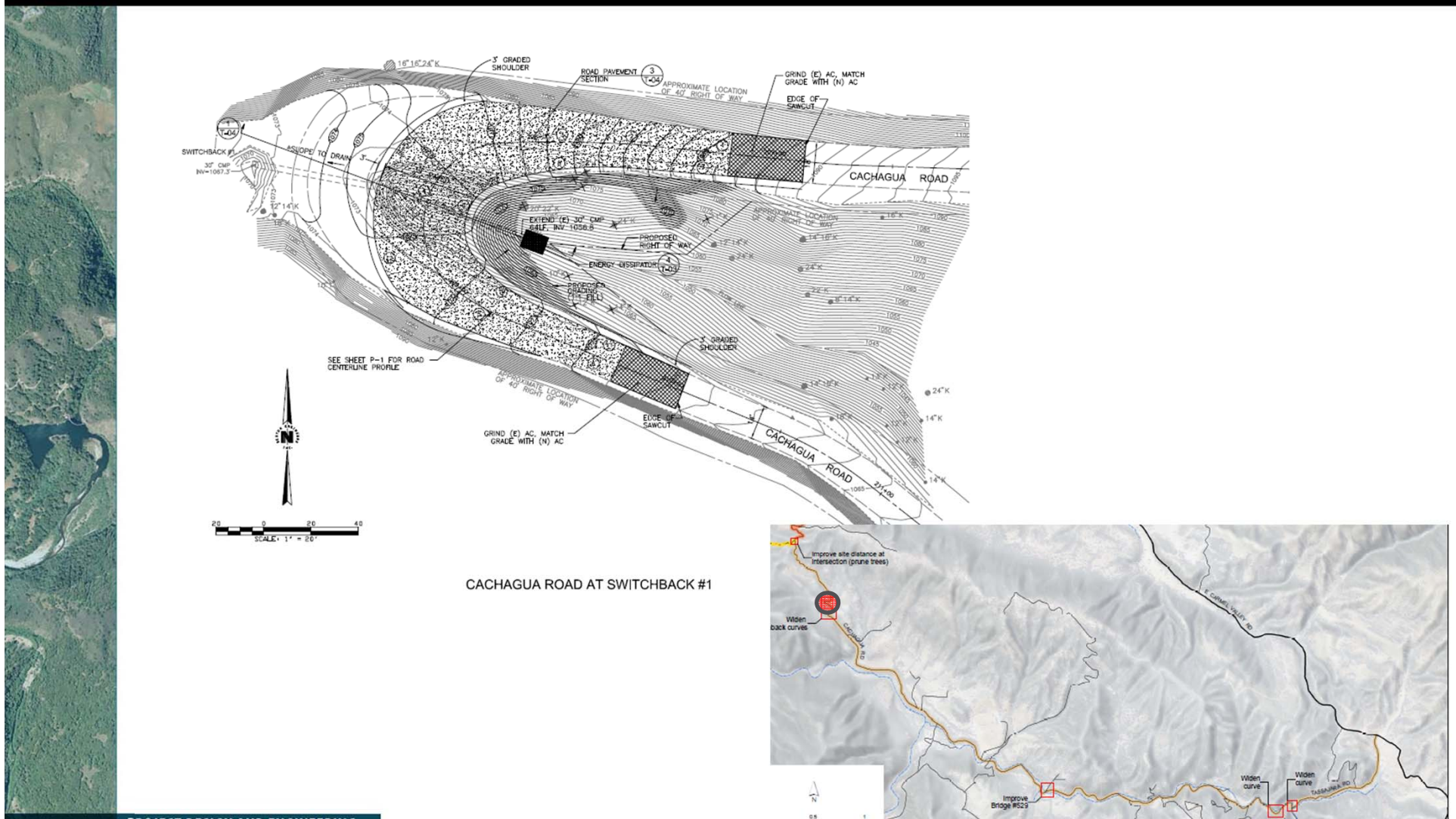


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Public Road Improvements

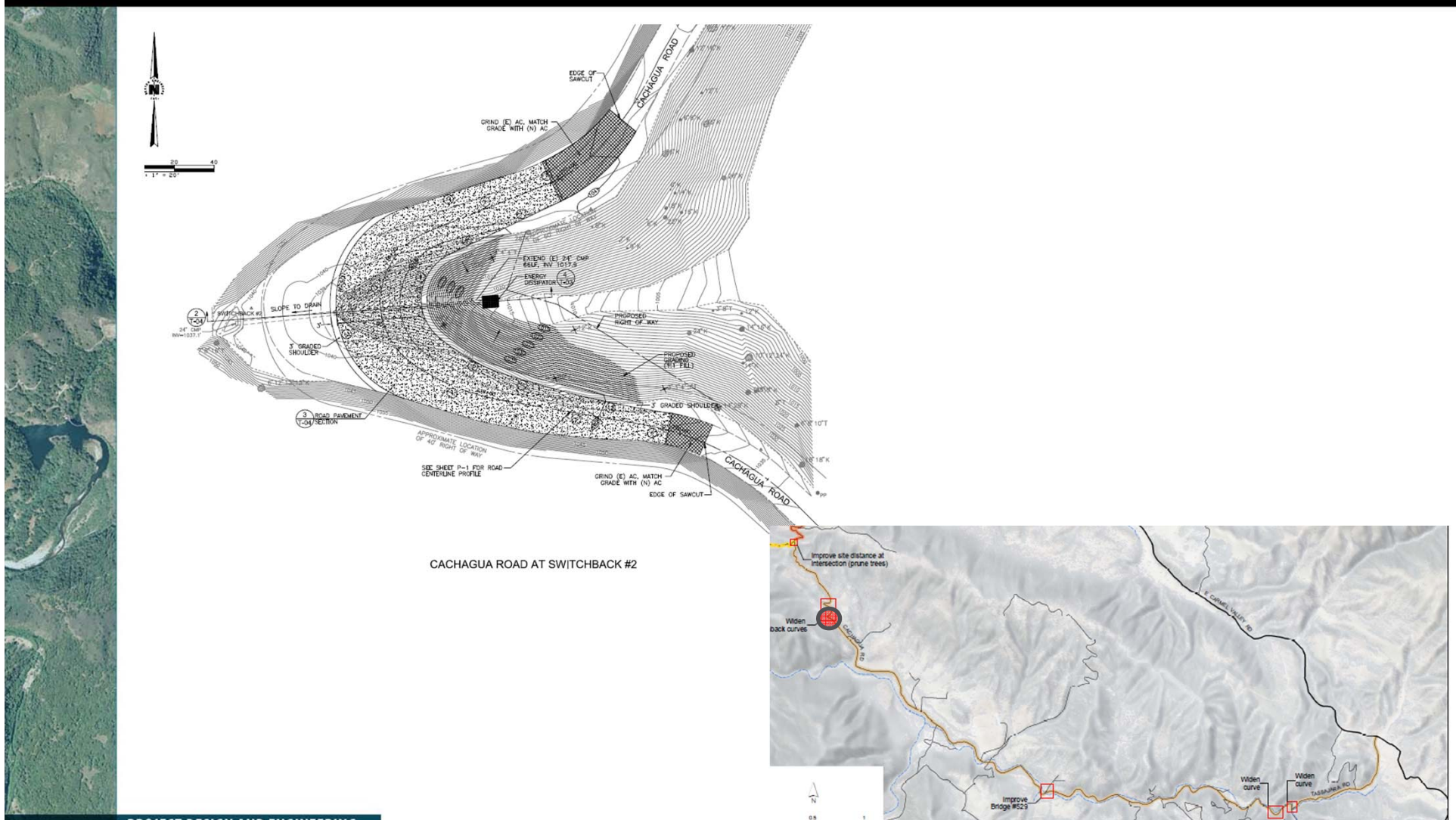
Cachagua Road at Switchback #1



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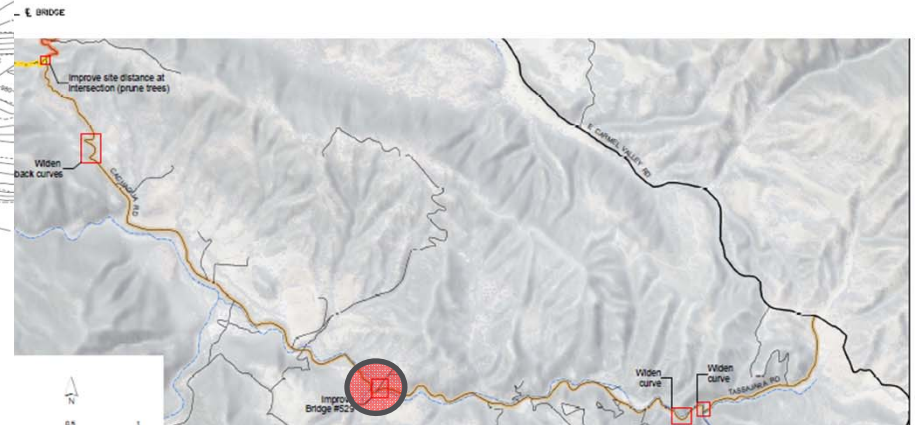
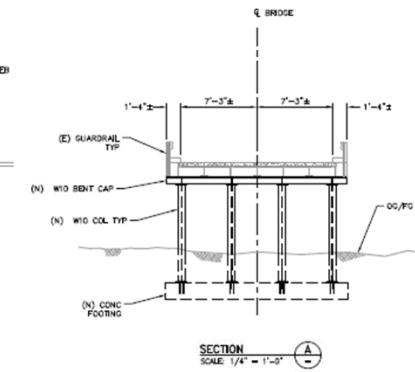
Public Road Improvements

Cachagua Road at Switchback #2



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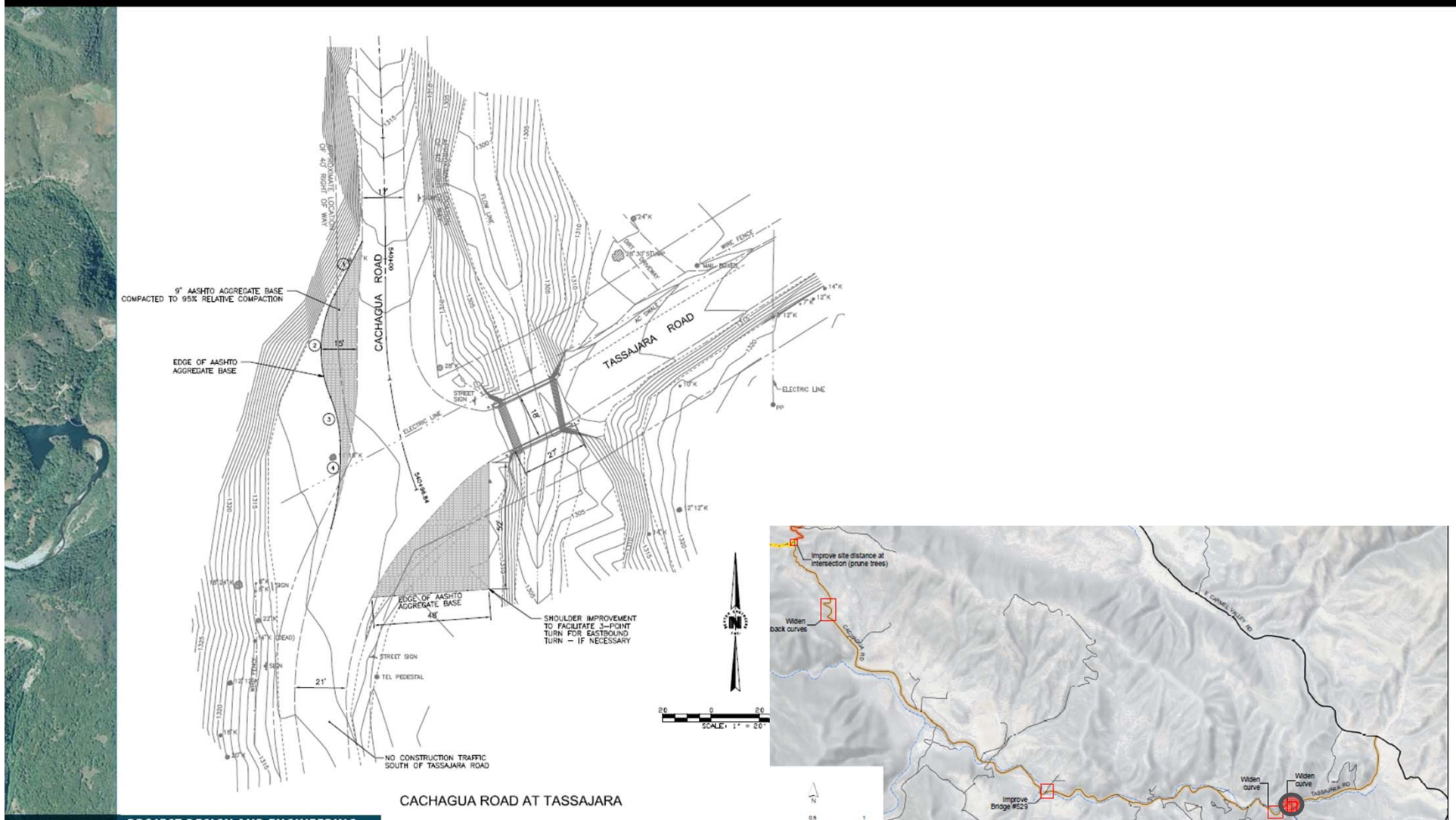
Coastal
Conservancy



CALIFORNIA
AMERICAN WATER

URS

Public Road Improvements Cachagua Road



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