AMERICAN RIVER COMMON FEATURES, WATER RESOURCES DEVELOPMENT ACT OF 2016

Public Meeting for
Sacramento River Erosion Contract 4
Draft Supplemental Environmental Assessment and
Supplemental Environmental Impact Report

Sacramento District,
US Army Corps of Engineers

March 22, 2023

AGENDA

- American River Watershed Common Features (ARCF) 2016 Project Overview
  - Partners
  - Sacramento/American River Systems
  - The Authorized Project
  - 2016 ARCF Final Environmental Impact Statement / Environmental Impact Report (FEIS/FEIR)
- Sacramento River Erosion Contract 4
  - 2023 Draft Supplemental Environmental Assessment and Supplemental Environmental Impact Report (Supplemental EA/EIR)
- How to provide comments
  - In writing through mail or email

PROJECT PARTNERS

NEPA Lead Agency: USACE
CEQA Lead Agency: CVFPB

Federal Government

US Army Corps of Engineers®

Local Government

SAFCA
Sacramento Area Flood Control Agency

State Government

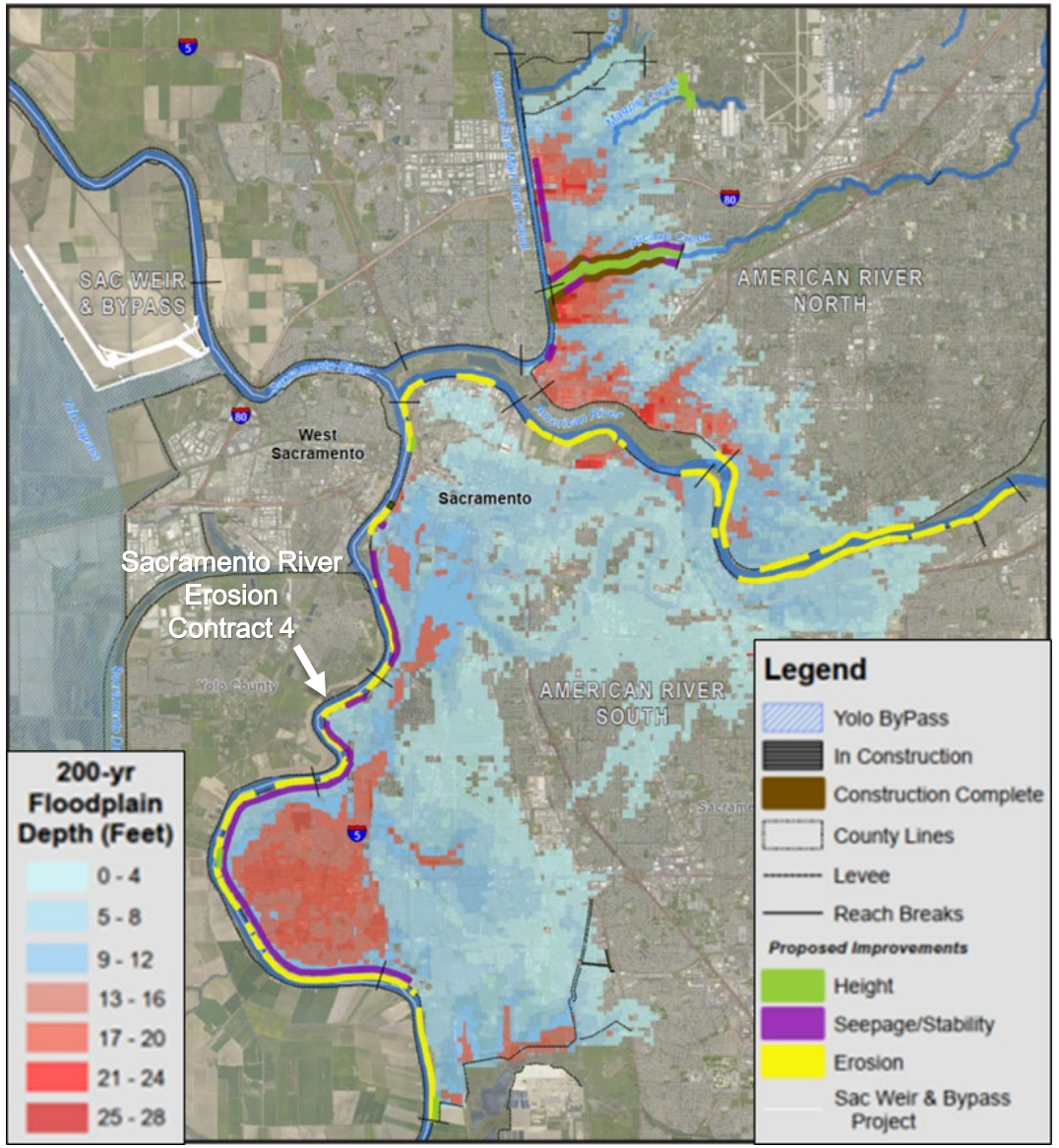
Central Valley Flood Protection Board

Department of Water Resources

AMERICAN RIVER WATERSHED COMMON FEATURES 2016 PROJECT OVERVIEW

Authorization:
Water Resources Development Act of 2016 and
Emergency Supplemental Appropriations in the Bipartisan Budget Act of 2018

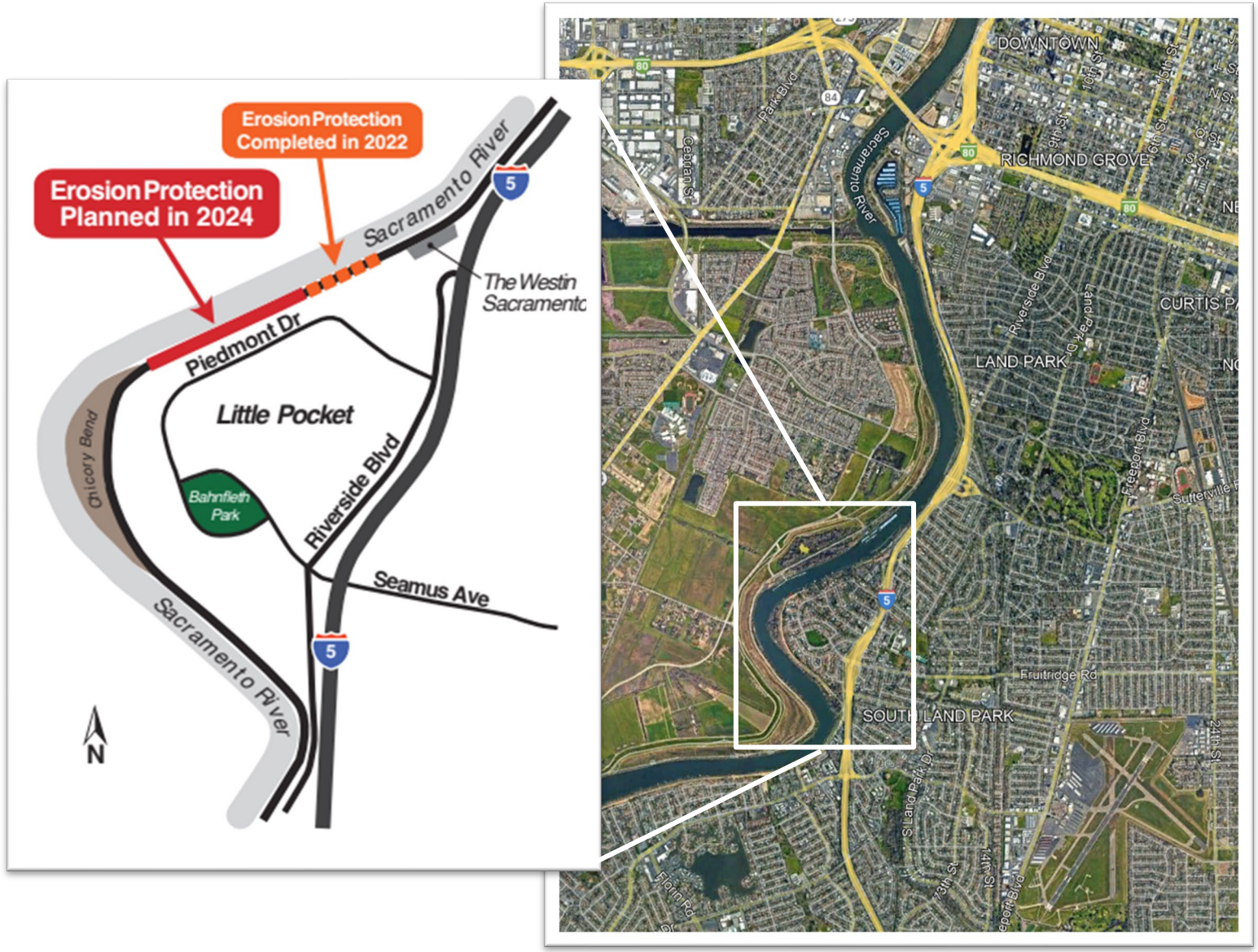
Authorized Plan	
Features	
North Area Streams Seepage	4 miles
Sacramento River Seepage	9 miles
American River Erosion	11 miles
Sacramento River Erosion	10 miles
Levee Stabilization	5 miles
Levee raises	5 miles
Widen Sacramento Weir and Bypass	1500 feet
Reduces Risk	500,000 people
	125,000 structures
	$62 billion protection



200-year flood risk map and proposed/active levee improvements under the ARCF 2016 project.

SACRAMENTO RIVER EROSION CONTRACT 4 LOCATION

Contract 4 (red):
A 1700 ft section of the Sacramento River, located downstream of Contract 1 (orange, completed in 2022)



PROPOSED CONSTRUCTION SCHEDULE

- Tree Removal: 1NOV23 – 15FEB24
- Construction: 1JUL24 – 31OCT24
- Revegetation: Post Construction

BASIS FOR EROSION PROTECTION DESIGN

- Riprap placed in 1939
- Concrete rubble at other places
- Shallow riprap under water level
- Erosion at lower bank has progressed upstream

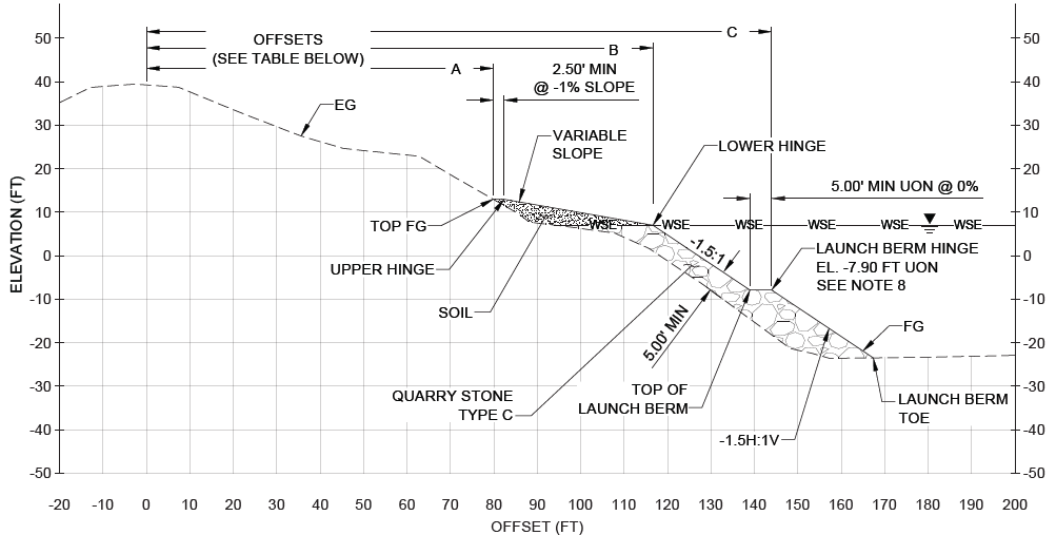
Survey on October 19, 2022
Old riprap present along bank

Survey on October 19, 2022
Photo taken looking up the bank slope.
Concrete rubble placed at toe of bank. Willows growing above concrete.

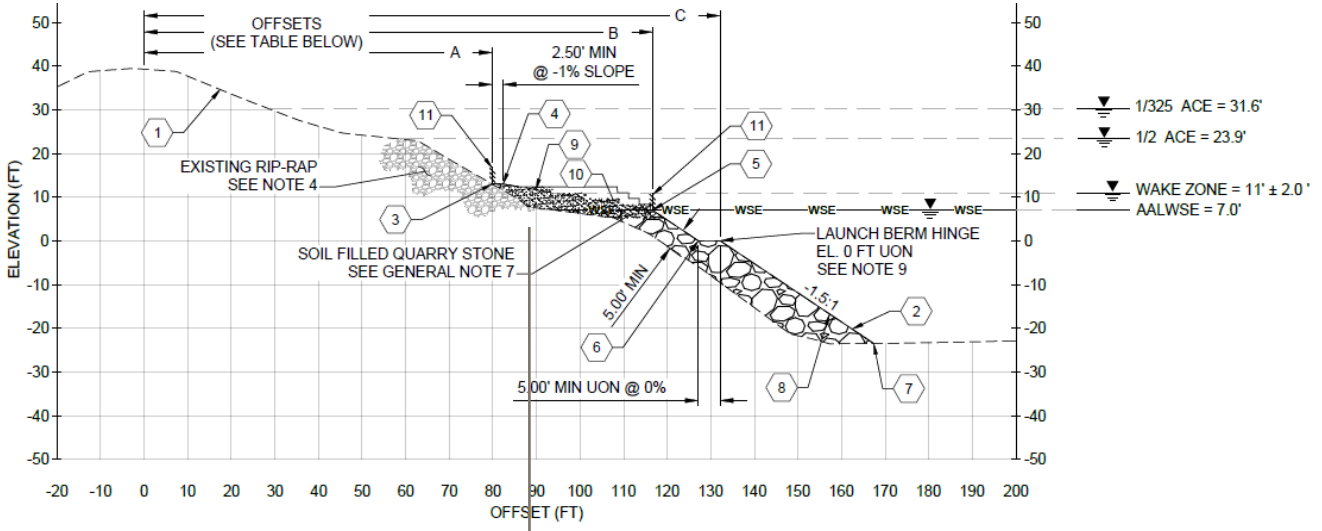
Survey on October 19, 2022
Photo taken looking upstream.
Concrete placed along bank.
Undercut below bank toe

BASIS FOR EROSION PROTECTION DESIGN

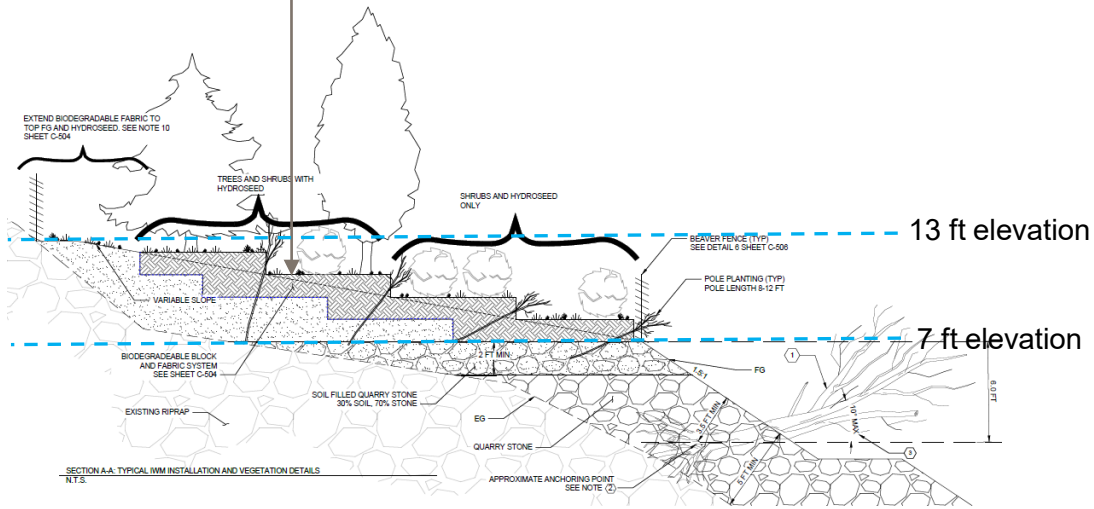
Rock revetment



Soil Bioengineering revetment



- Toe scour protection
- Bank protection below water level (7 ft)
- Bank protection above water level up to wake zone (13 ft)
- 6 rock tie-backs
- Length of project: approximately 1,700’



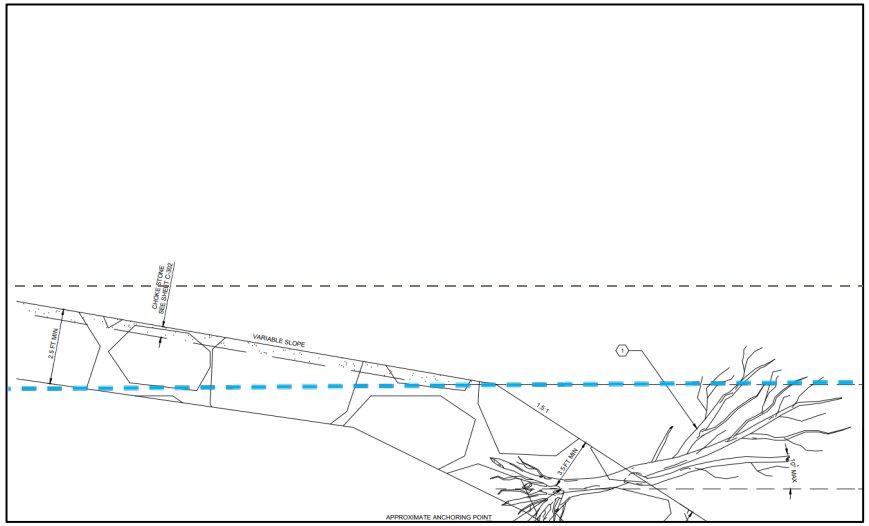
DIFFERENCES BETWEEN CONVENTIONAL AND BIOTECHNICAL DESIGN

Conventional Rock Design

- Riprap above the summer water level
- Requires tree removal (approximately 31 trees)

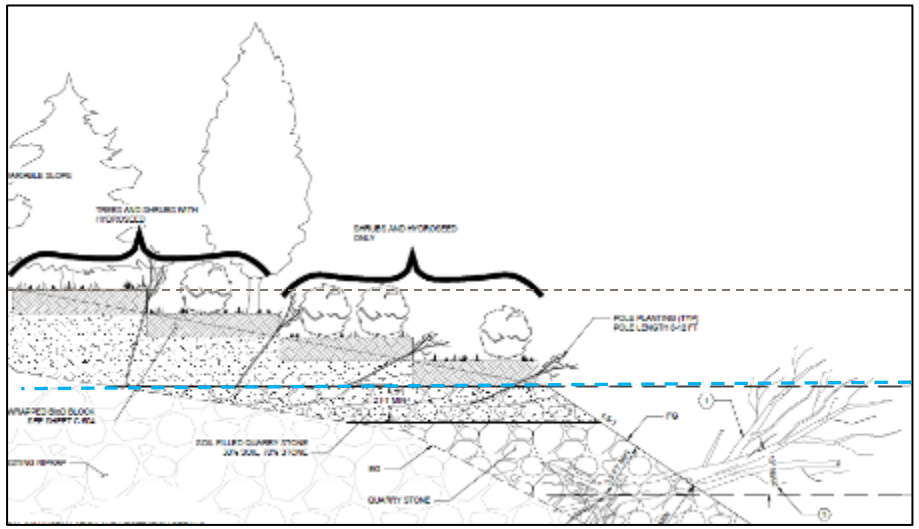
Biotechnical Design

- Shrub and tree plantings above summer water level, instead of riprap
- Existing trees would remain
- Creates riparian habitat through on-site shrub and tree plantings



13 ft elevation

Summer water level, 7 ft elevation



INSTREAM WOODY MATERIAL (IWM)

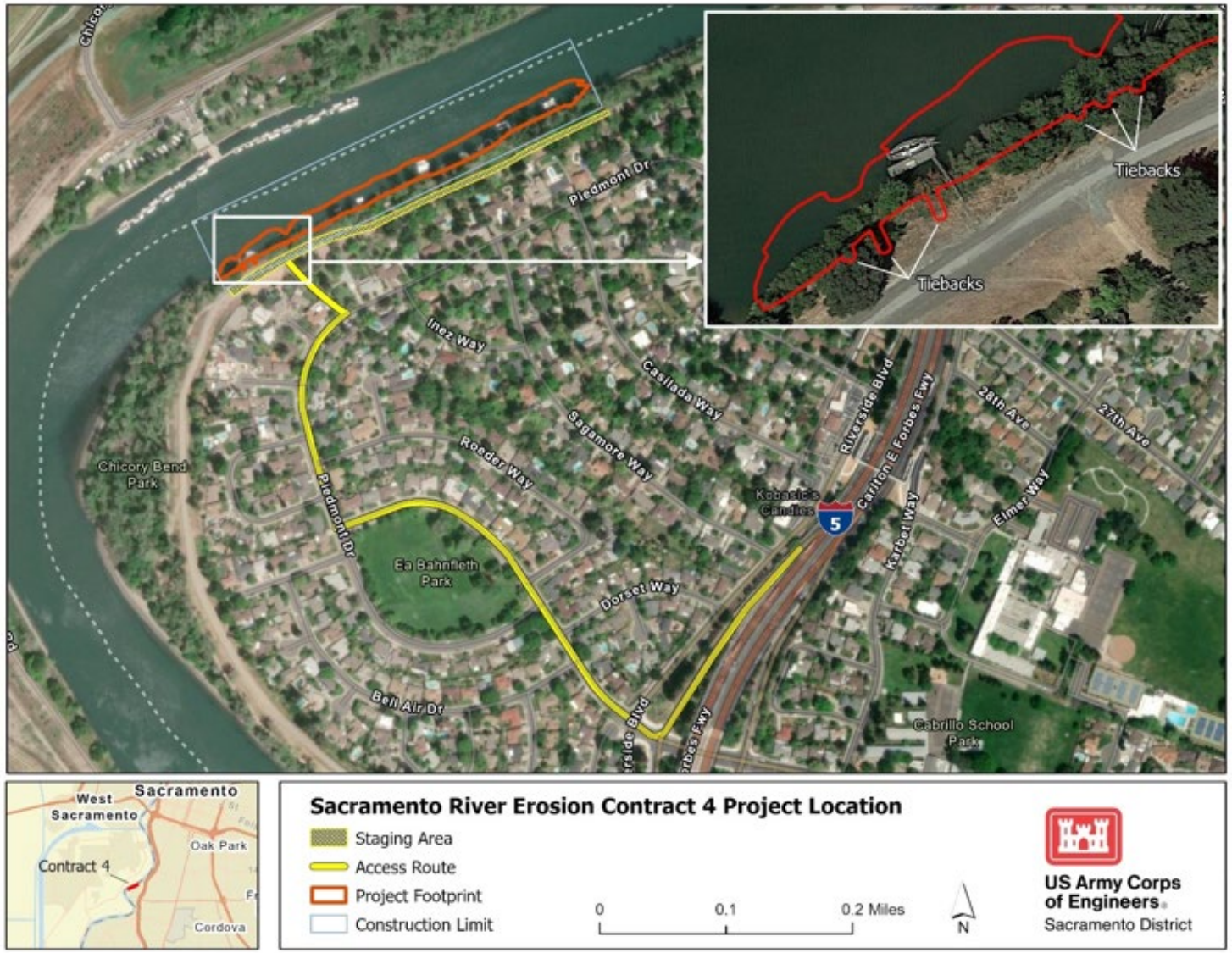
- IWM embedded into rock protection
- Provides shade and refuge for fish
- Per our Biological Opinions from USFWS and NMFS
- 50 ft buffer around boat dock pilings

SACRAMENTO RIVER EROSION CONTRACT 4

Construction personnel access in yellow

Levee top is the staging area
- construction offices
- personal vehicle parking
- tree removal and revegetation trucks

Temporary closure of levee top extending down to river during construction



CONSTRUCTION

- Tree removal (if any) to occur from the levee top
- Equipment will not drive off the levee top
- Underwater rock placement to occur from a barge
- Shoreline rock (or bioengineering) placement to occur from equipment leaving the barge
- Revegetation – after construction, from levee top

SUPPLEMENTAL EA/EIR

The Supplemental EA/EIR focuses on design refinements made since the 2016 ARCF Environmental Impact Statement / Environmental Impact Report

- Water Quality
- Vegetation and Wildlife
- Fisheries
- Special Status Species
- Cultural Resources
- Air Quality
- Climate Change
- Noise
- Recreation
- Aesthetics and Visual Resources
- Hazardous Wastes and Materials
- Geological Resources

AVOIDANCE, MINIMIZATION, AND MITIGATION MEASURES

Noise

- Will comply with city noise ordinance exemption for construction
  Mon-Sat 7 am – 7 pm, Sun 9 am – 6 pm
- Majority of work will be from water side

Air Quality

- Work with air quality district (SMAQMD)
- Implement emission control practices

Water Quality

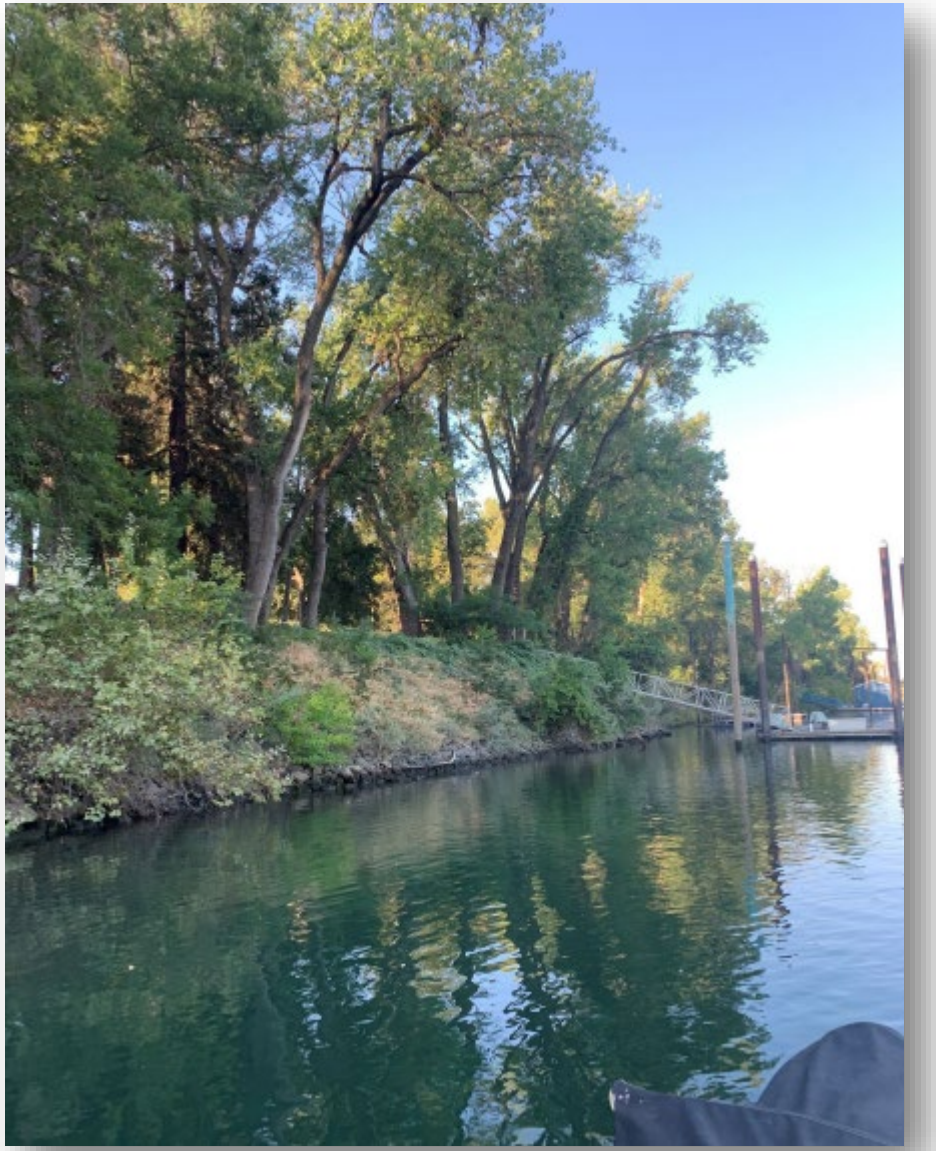
- Clean Water Act Section 401 Water Quality permit
- Implement stormwater pollution prevention plan
- Erosion control measures
- Water quality testing

IMPACTS TO WILDLIFE AND HABITAT

- Endangered Species Act Listed Species
  - Sacramento River Winter run Chinook Salmon
  - Central Valley Spring run Chinook Salmon
  - Central Valley Steelhead
  - Green Sturgeon
  - Delta Smelt
  - Western Yellow-billed Cuckoo

- State Listed Species
  - Swainson's Hawk
  - White-tailed Kite
  - Purple Martin
  - Western Pond Turtle
  - Variety of bat species

- Habitats affected:
  - In-water, benthic
  - Riparian forest, riparian shrub-scrub



AVOIDANCE, MINIMIZATION, AND MITIGATION FOR WILDLIFE AND HABITAT

Preconstruction surveys

- Nesting birds
- Bat surveys
- Western Pond Turtle
- Rare plants

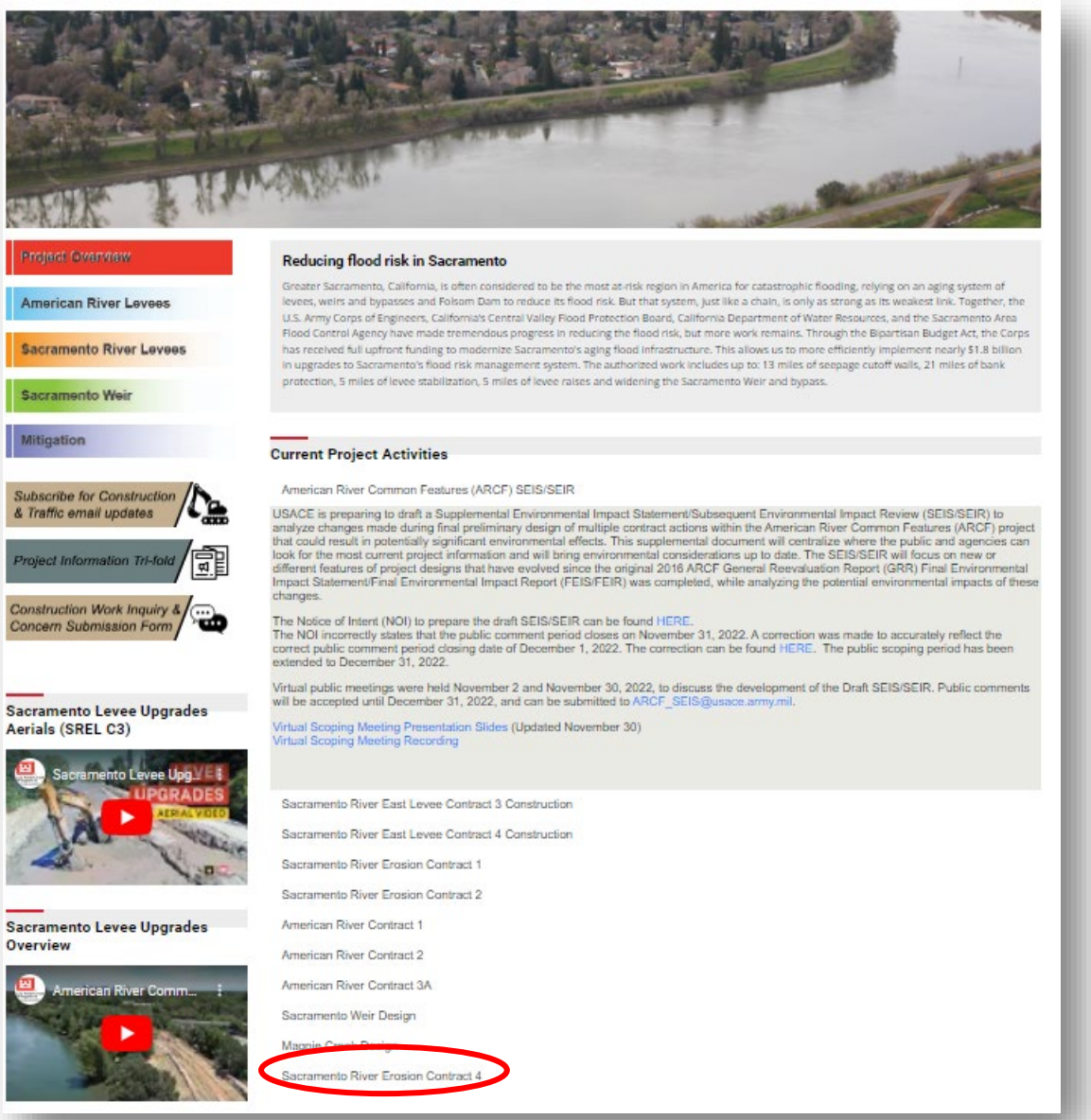
July – October work window

Waterside construction

Will follow environmental commitments listed in

- Biological Opinions (NMFS, USFWS)
- 2016 ARCF EIS/EIR
- Supplemental EA/EIR
- Water Quality Certification (Water Board)

WHERE TO ACCESS DRAFT SUPPLEMENTAL EA AND SUPPLEMENTAL EIR



Draft Supplemental EA and Supplemental EIR are available at:

www.sacleveeupgrades.com
www.cvfpb.ca.gov/public-notices
Sacramento Central Library

Public Comment Period (45 days):
March 1 – April 14, 2023

Final Document: September 2023

HOW TO PROVIDE COMMENTS

1. Write to

Flood Projects Branch
Department of Water Resources
3464 El Camino Ave, Room 150
Sacramento CA 95821

OR

Public Affairs Office
U.S. Army Corps of Engineers
1325 J Street, Room 1513
Sacramento CA 95814

2. Email

PublicCommentARCF16@water.ca.gov

ARCF_SREroC4@usace.army.mil

Please use “SR Erosion Contract 4 SEA/EIR” in the subject line

THANK YOU!