

# AMERICAN RIVER WATERSHED COMMON FEATURES WATER RESOURCES DEVELOPMENT ACT OF 2016

## AMERICAN RIVER EROSION PROTECTION

### SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT / SUPPLEMENTAL ENVIRONMENTAL IMPACT REPORT

PUBLIC SCOPING MEETING

August 17, 2020



**SAFCA**  
Sacramento Area Flood Control Agency





# HOW TO PROVIDE COMMENTS

## During the Meeting:

- Questions or comments may be typed into the WebEx “chat” function
- Time-permitting, we will address comments in Q&A after the presentation
- Please participate in the poll for this meeting

## Comment Period is open until August 31<sup>st</sup>, 2020.

Mail: U.S. Army Corps of Engineers,  
Sacramento District  
1325 J Street, Room 1513  
Sacramento, CA 95814

Email: [spk-pao@usace.army.mil](mailto:spk-pao@usace.army.mil)

Use “American River Contract 2 - Supplemental EIS” in the subject line



# PUBLIC SCOPING MEETING OUTLINE

- 1) Overarching Project and Environmental Analysis:  
**American River Watershed Common Features 2016**  
**Environmental Impact Statement / Environmental Impact Report**
  
- 2) Current Project and Environmental Analysis:  
**American River Contract 2**  
**Supplemental EIS / Supplemental EIR**
  - Project Background
  - Project Design and Construction
  - Environmental Analysis
  
- 3) Opportunity for Questions & Comments



# ARCF 2016 PROJECT NEED



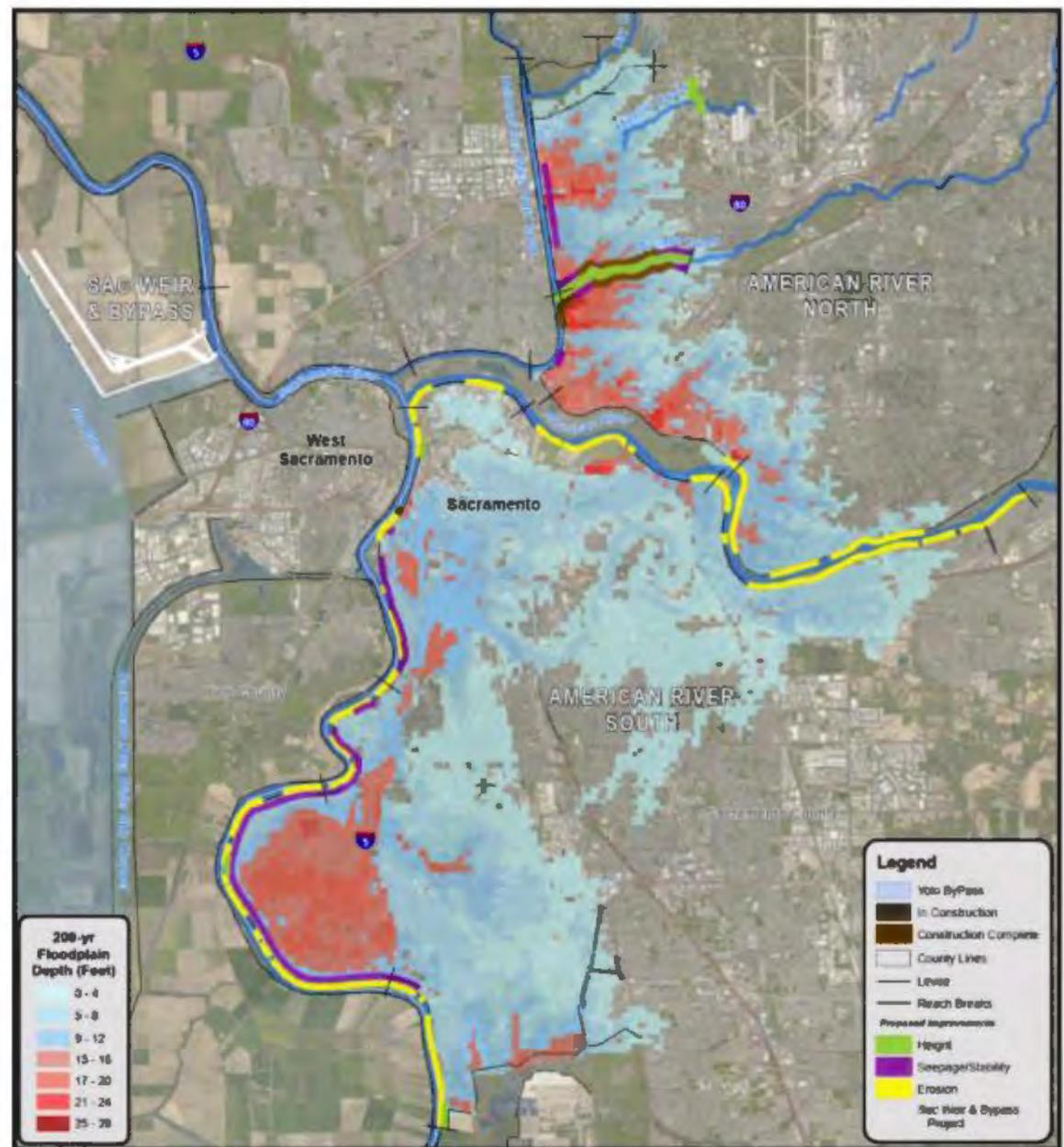


# ARCF 2016 PROJECT AREA AND FLOOD RISK

Authorized under:  
Water Resources  
Development Act  
(WRDA) of 2016

Funded under:  
Bipartisan Budget  
Act of 2018  
(Emergency  
Supplemental  
Appropriation)

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





# ARCF 16 PROJECT PARTNERS

NEPA Lead Agency: USACE  
CEQA Lead Agency: CVFPB

Federal Government



**US Army Corps  
of Engineers®**

State Government



Local Government



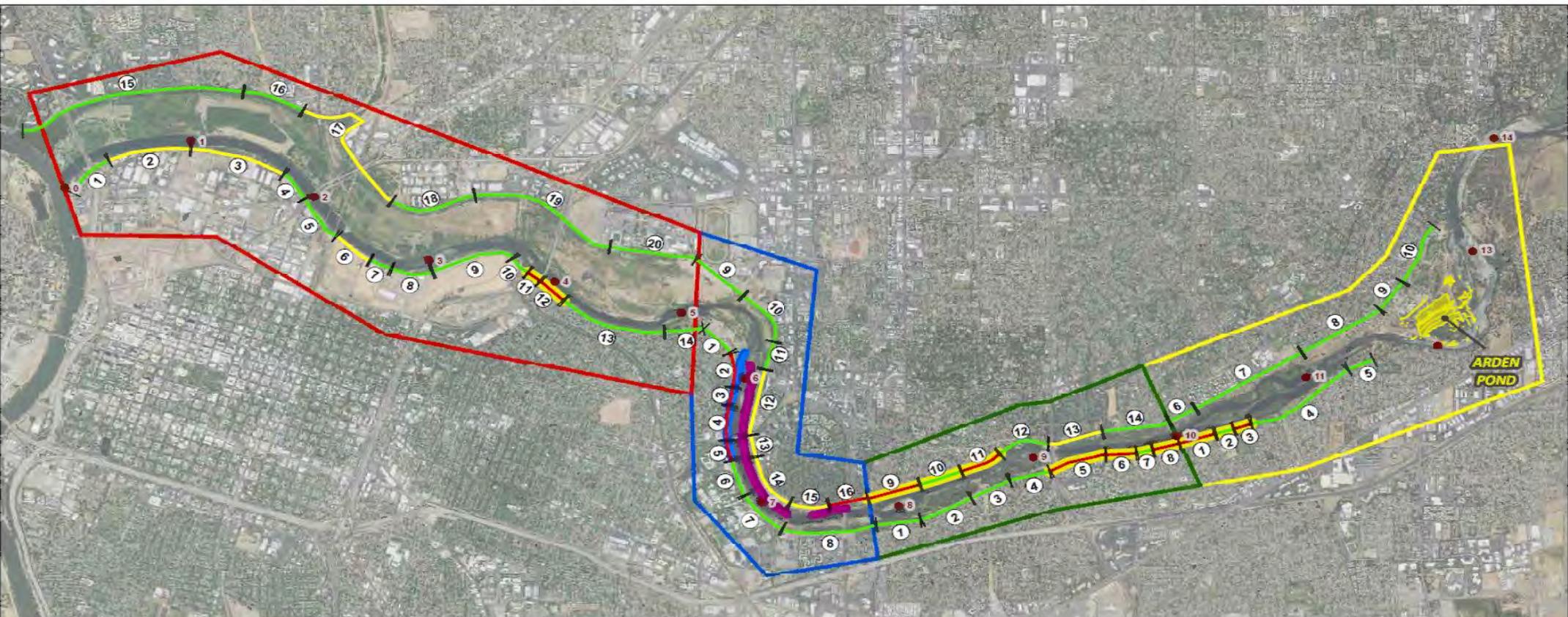
**SAFCA**  
Sacramento Area Flood Control Agency

Central Valley  
Flood Protection  
Board

Department of  
Water  
Resources



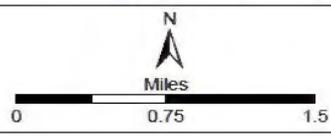
# SITE SETTING-SUBREACH 2



**TIERS**

- 1 - Segments that have the highest risk of erosion and are subject to an immediate threat to the levees during high flows
- 2 - Segments that are not subject to an immediate threat to the levee but are anticipated to reach that condition after one or more high flow events (during the 50-year design life of the project)
- 3 - Remaining segments that are not considered subject to an erosion threat that could lead to levee breach (during the 50-year design life of the project)

Tier	# of Tiers	Length (Miles)
1	14	3.04
2	9	9.71
3	37	11.46



**LAR SEGMENTS, TIERS & CONTRACTS**  
 LOWER AMERICAN RIVER  
 WRDA 2016

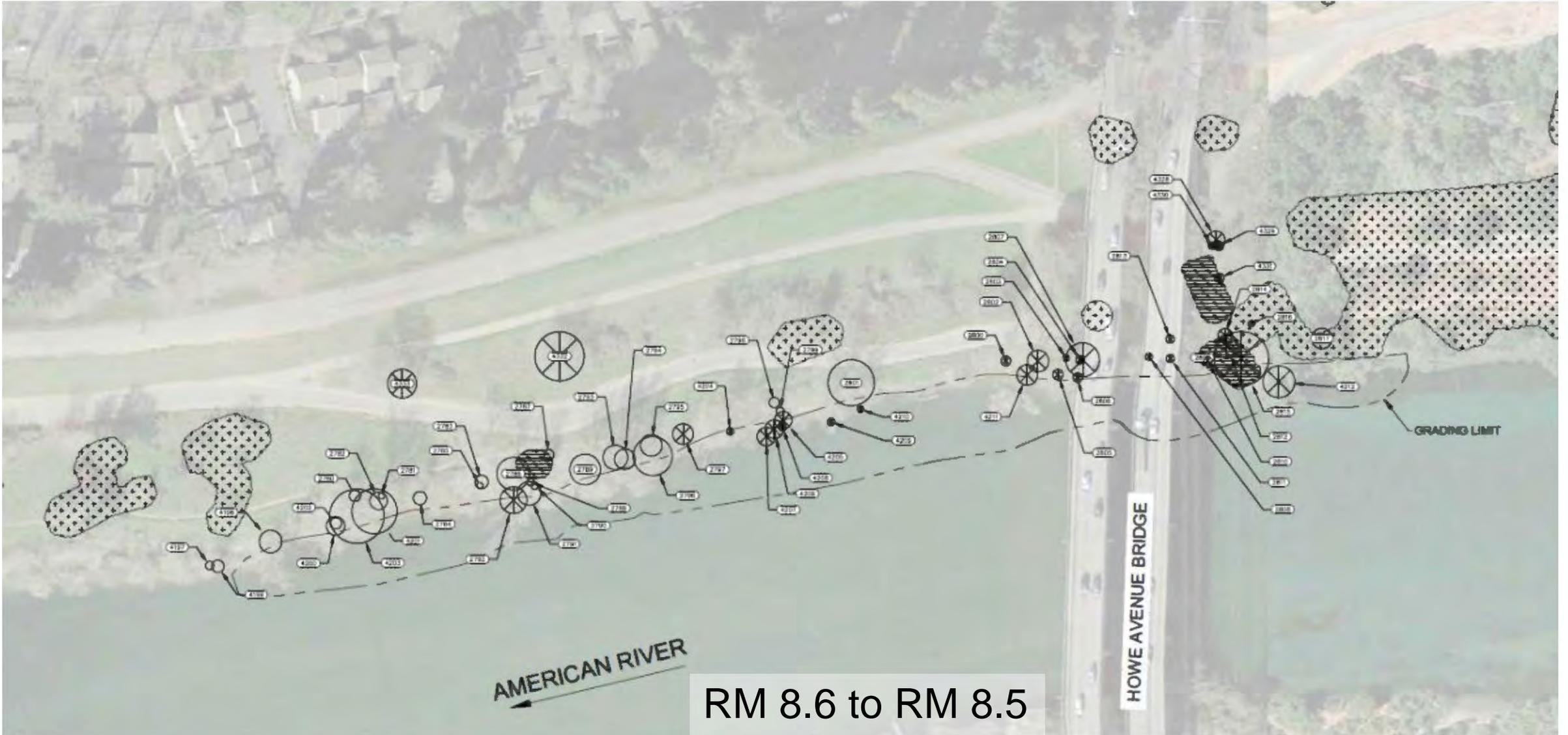


# SITE 2-2 EXISTING CONDITIONS





# EROSION PROTECTION AND HABITAT ENHANCEMENT AT SITE 2-2



RM 8.6 to RM 8.5



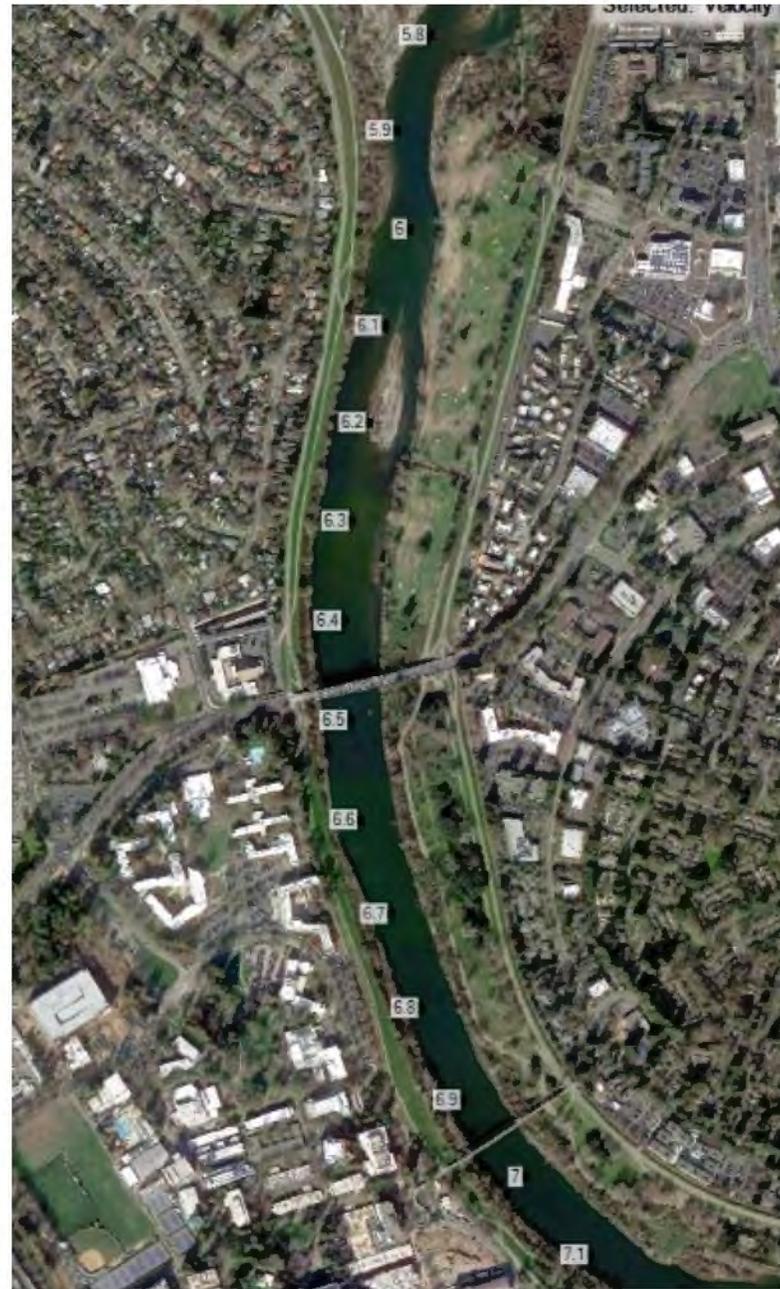
# EXISTING SITE 2-3





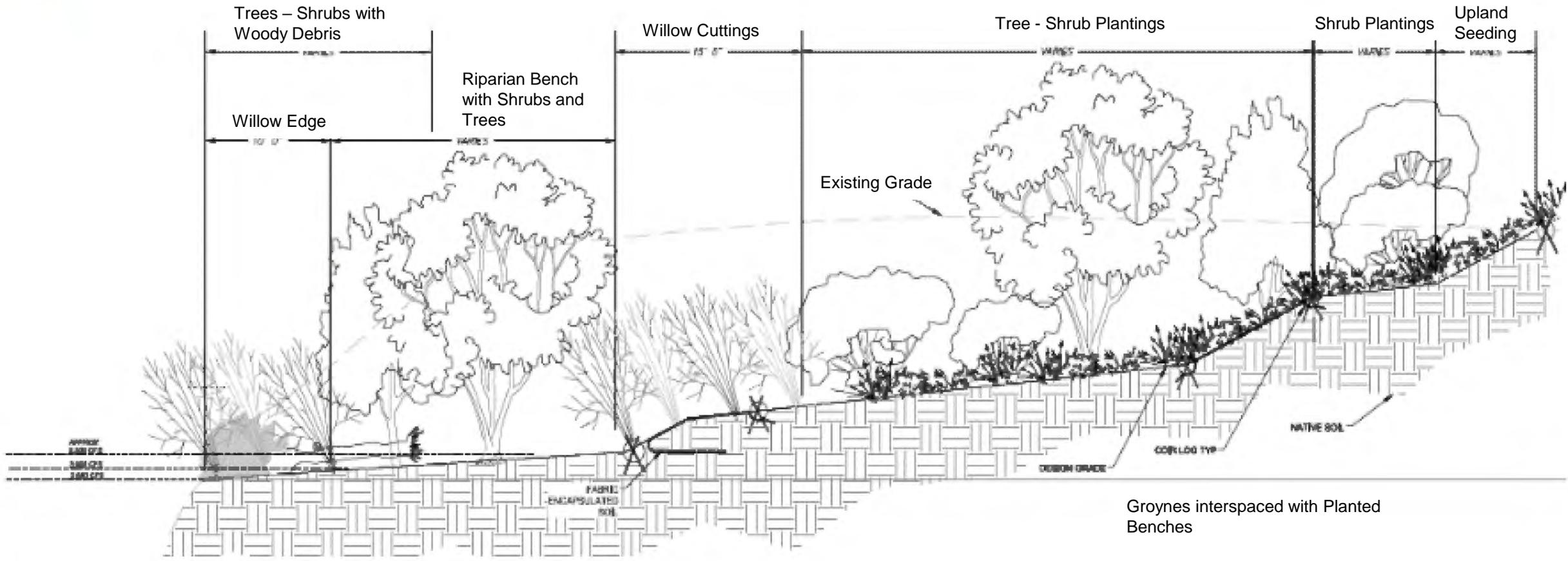
# EROSION PROTECTION & HABITAT ENHANCEMENT AT SITE 2-3

RM 7.2 to RM 5.9 right bank





# EROSION PROTECTION AND HABITAT ENHANCEMENT



Groynes interspaced with Planted Benches

2 TYPICAL PLANTING SECTION WITH LARGE WOOD DEBRIS BETWEEN ROCK GROYNES



# TIE BACKS (SPUR DIKE EXAMPLE)



A spur dike site immediately following construction.



The same spur dike site following re-vegetation.





# TIE BACKS (SPUR DIKE)

Overhead view of  
the same site.



2006 Post-Construction

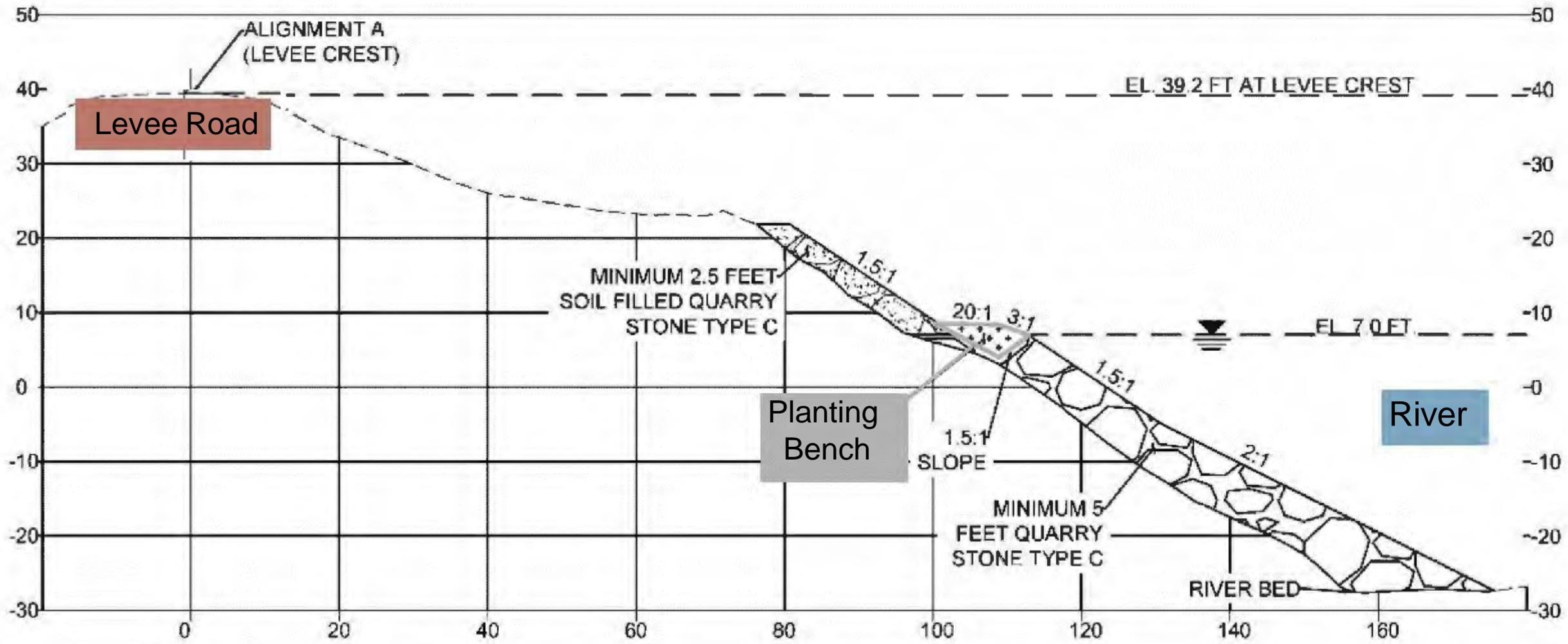


2018





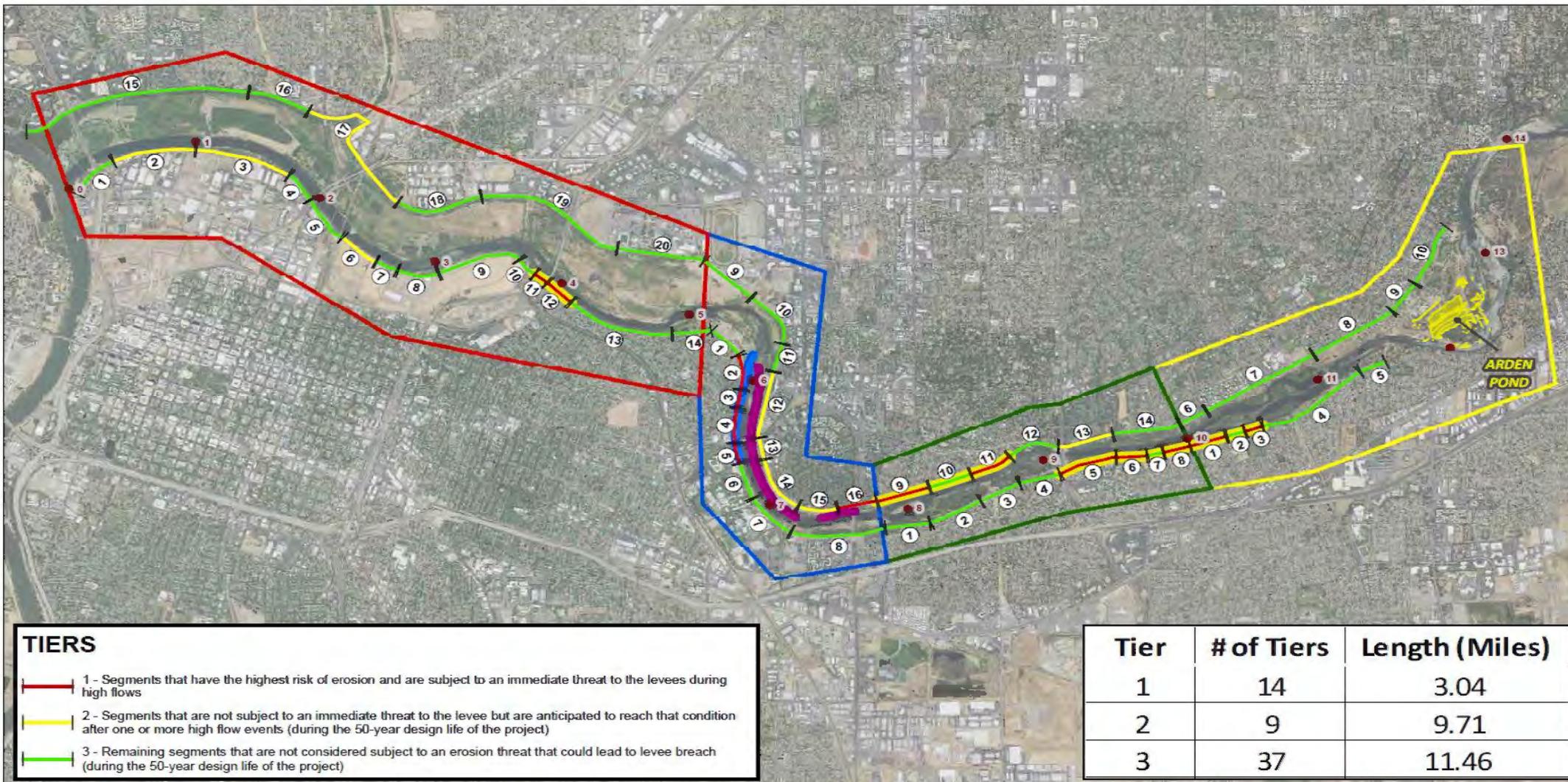
# AMERICAN RIVER PROJECT DESIGN (CONT.)



Typical cross section bank protection and planting bench



# SITE SETTING-SUBREACH 2



**TIERS**

- 1 - Segments that have the highest risk of erosion and are subject to an immediate threat to the levees during high flows
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- 3 - Remaining segments that are not considered subject to an erosion threat that could lead to levee breach (during the 50-year design life of the project)

Tier	# of Tiers	Length (Miles)
1	14	3.04
2	9	9.71
3	37	11.46

US Army Corps of Engineers  
Sacramento District

C1 (Site 2-1) FY21

Subreach 1

Subreach 4

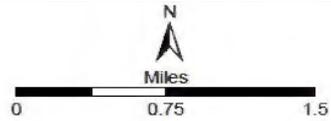
C2 (Sites 2-2, 2-3 & Arden Pond FY22/23)

Subreach 2

Subreach 3

C3 (All Revised Sites in Reaches 1, 3 & 4) FY22/23

River Mile



**LAR SEGMENTS, TIERS & CONTRACTS**  
**LOWER AMERICAN RIVER**  
 WRDA 2016

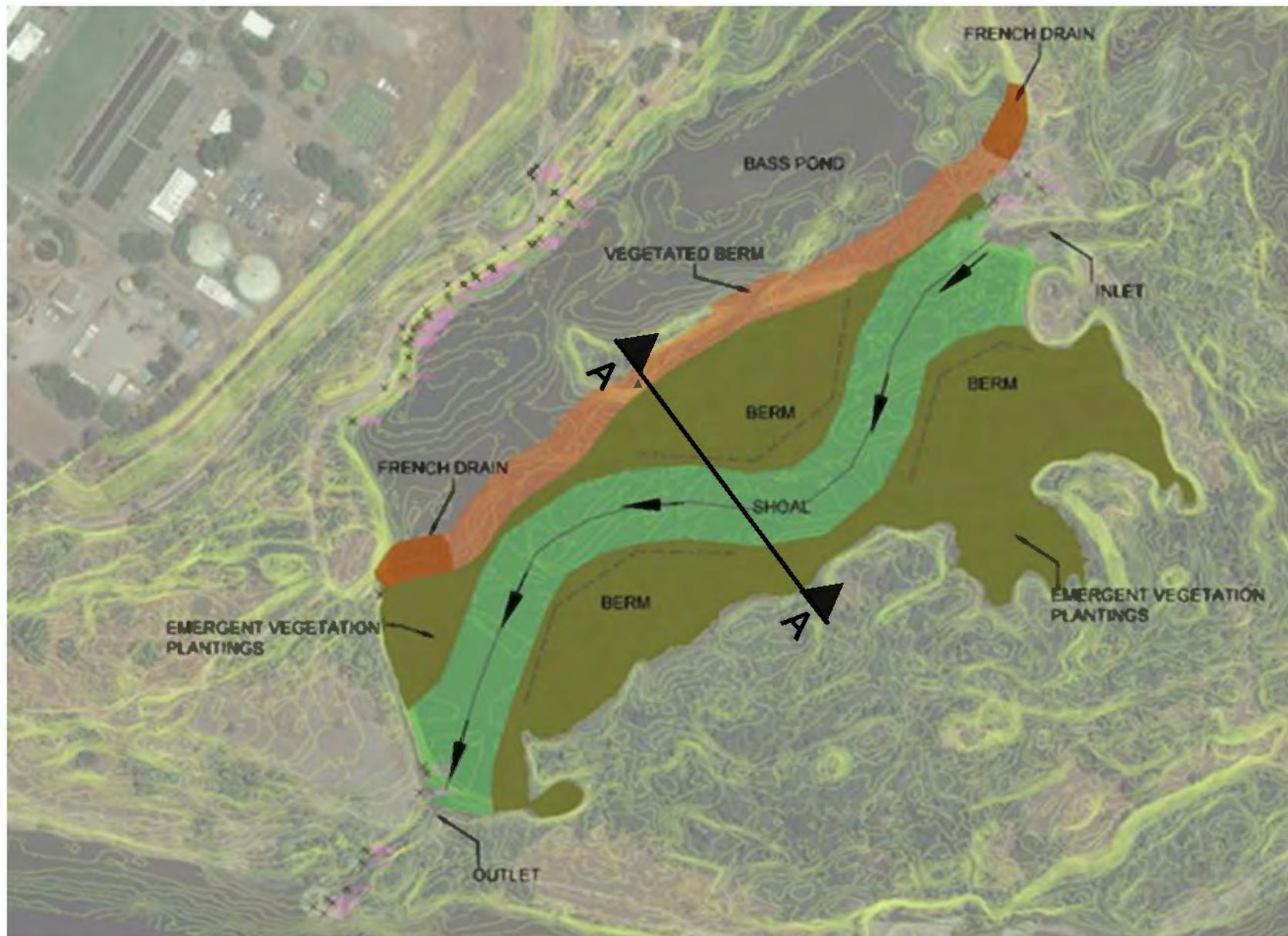


# ARDEN POND MITIGATION SITE



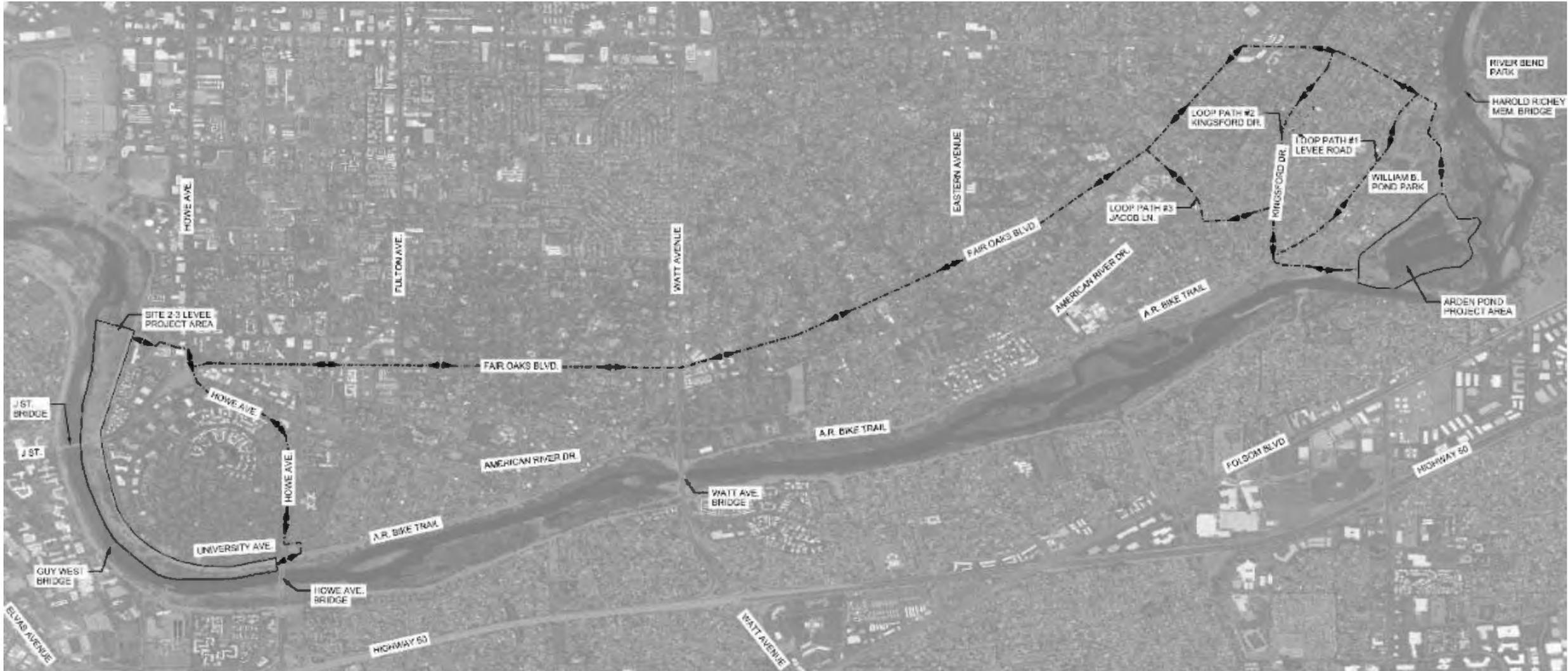


# ARDEN POND MITIGATION SITE



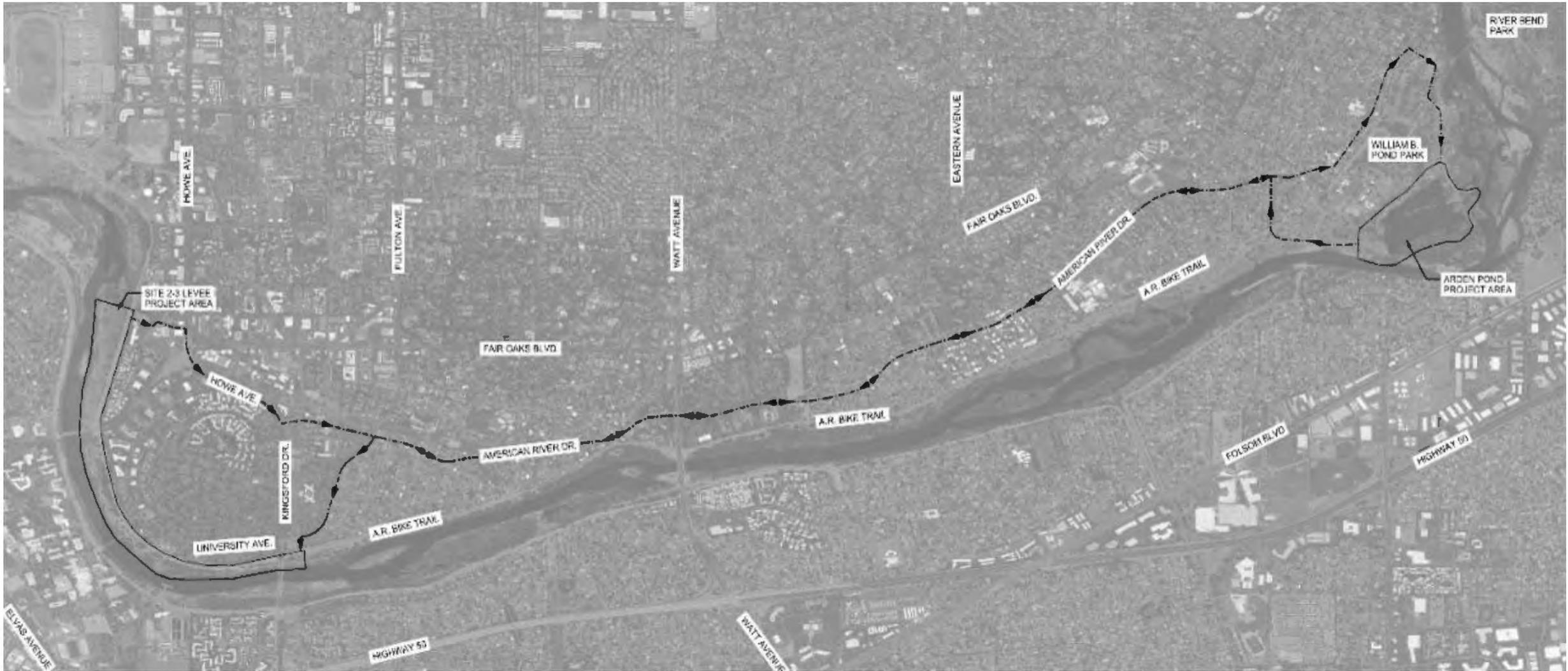


# HAUL ROUTE FROM SITE 2-3 TO ARDEN POND



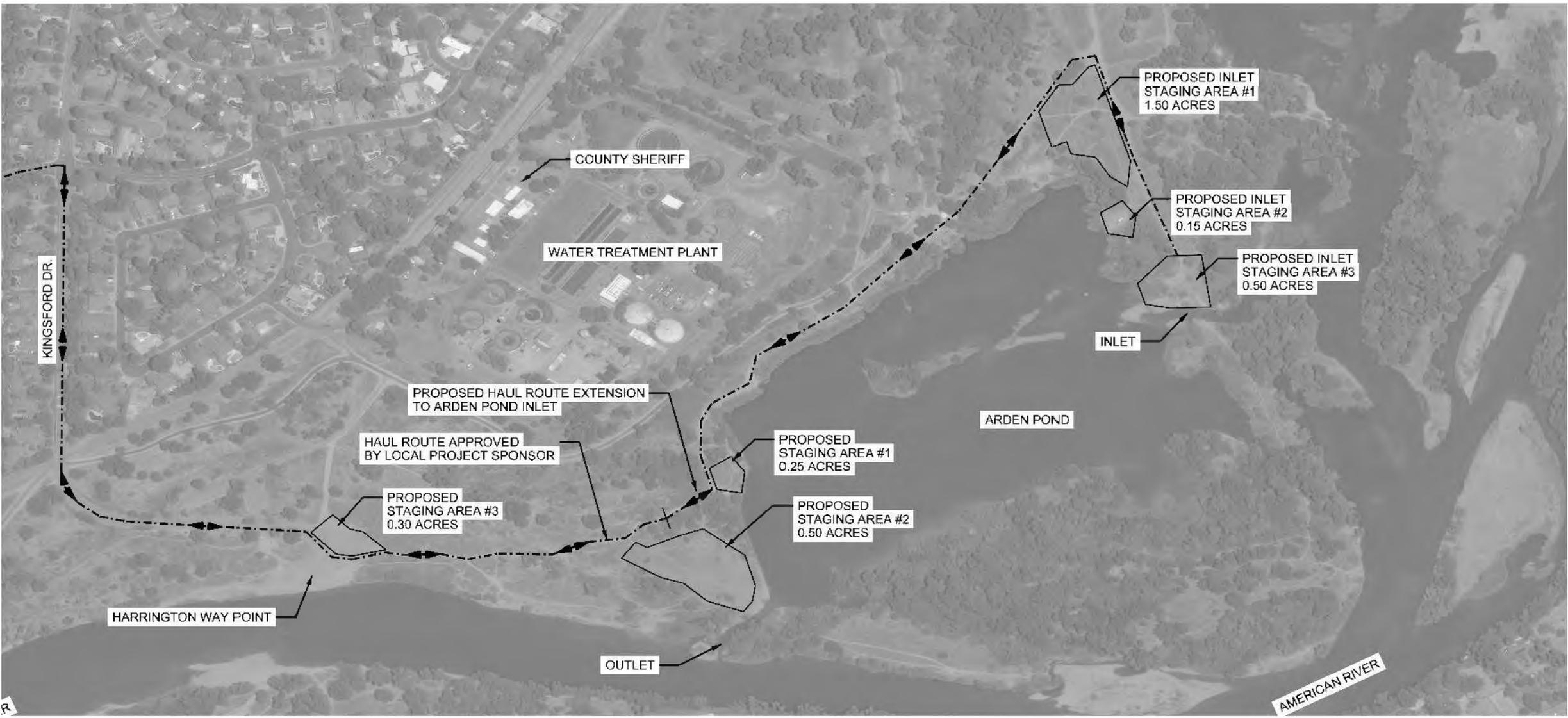


# ALTERNATE HAUL ROUTE FROM SITE 2-3 TO ARDEN POND



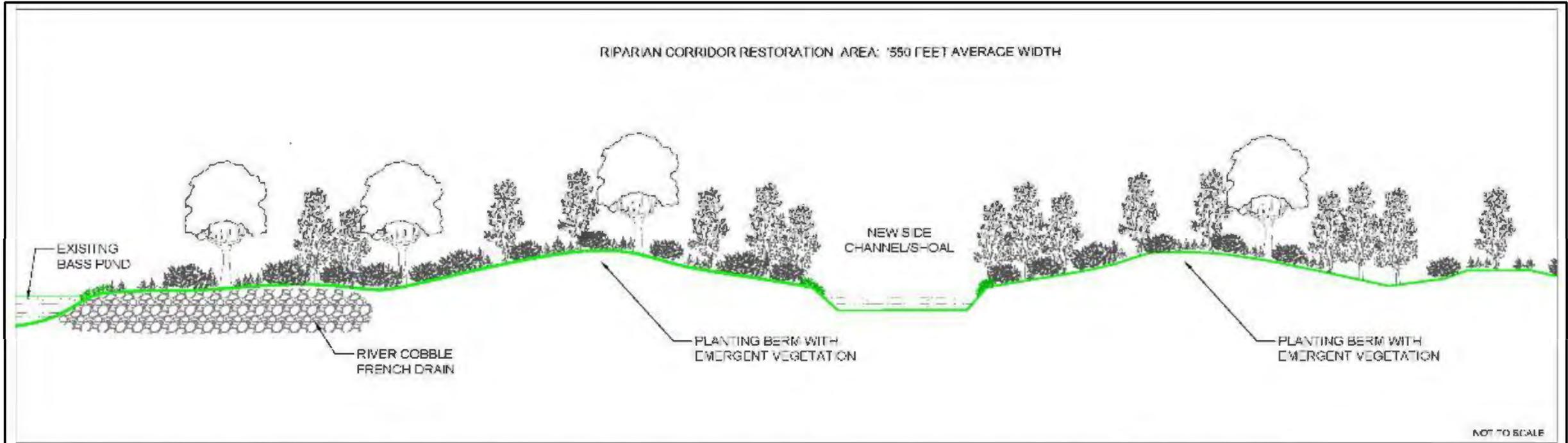


# HAUL ROUTE AND STAGING AREAS AT ARDEN POND





# ARDEN POND MITIGATION SITE



SECTION A-A: ARDEN POND SIDE CHANNEL SHOAL RE-VEGETATION CONCEPT

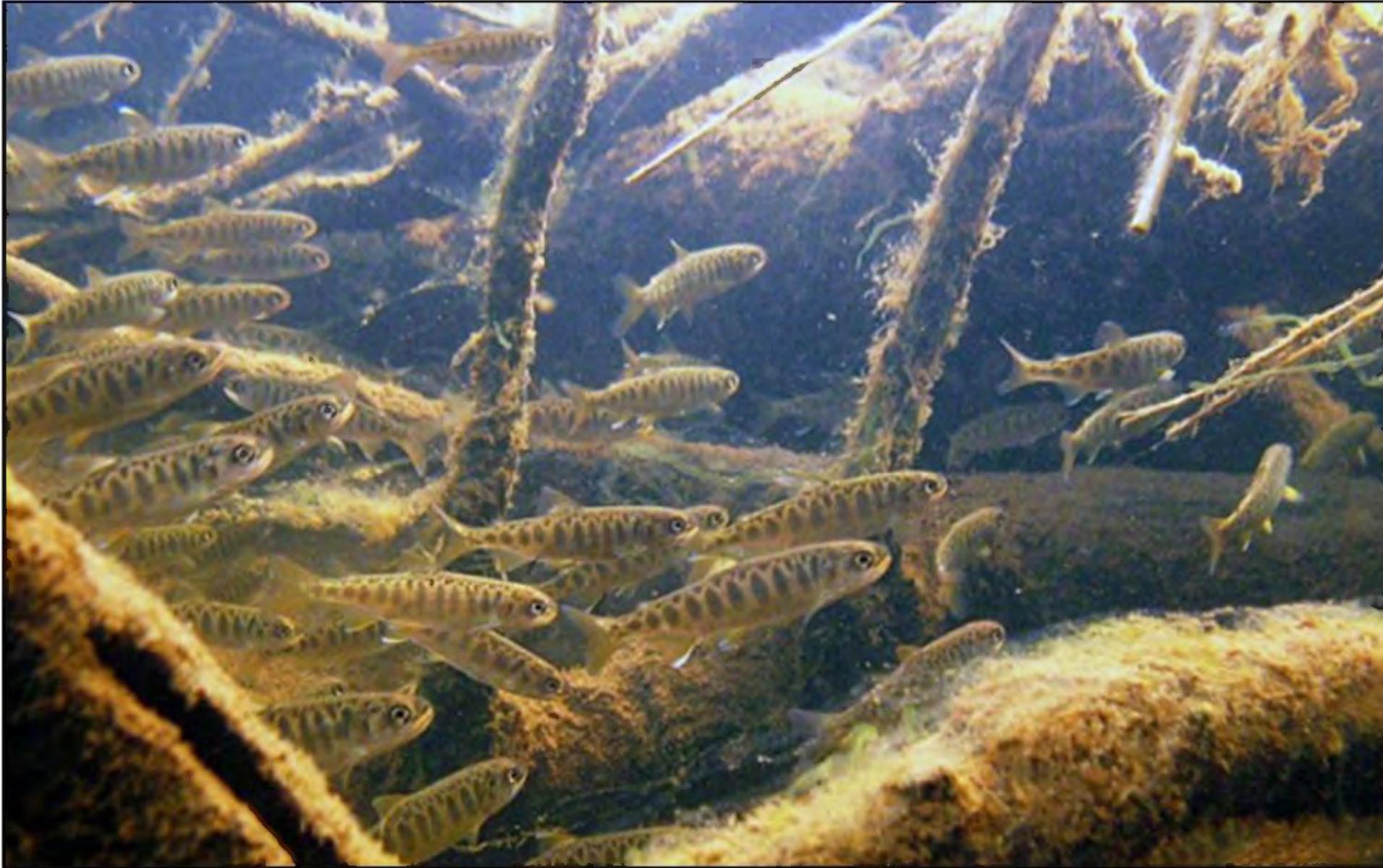


# ARDEN POND MITIGATION SITE





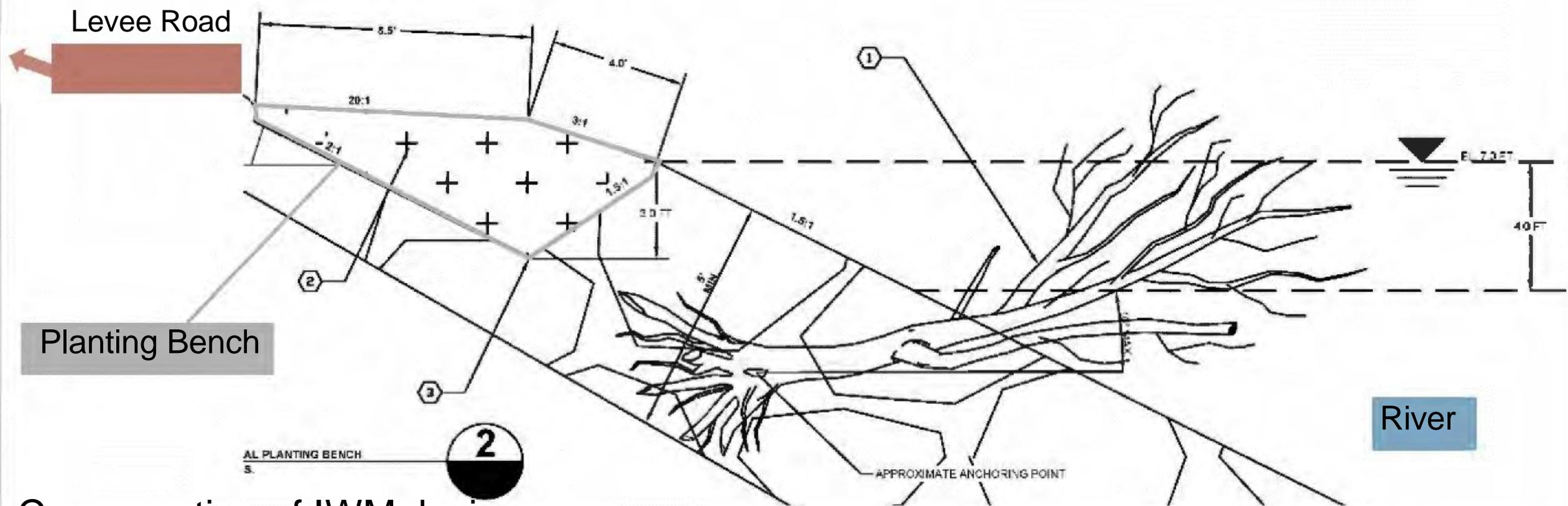
# IWM: HABITAT FOR JUVENILE SALMON, STEELHEAD, AND GREEN STURGEON





# IN-STREAM WOODY MATERIAL (CONT)

In-stream wood is designed to have the majority of the tree under the average low flow water surface elevation with some sticking out of the water for boater safety.



Cross section of IWM design



# ENVIRONMENTAL COMMITMENTS AND CONSISTENCY DETERMINATIONS

Environmental commitments from the following documents would be followed:

- 2016 ARCF EIS/EIR
- Biological Opinions (NMFS, USFWS)
- Section 401, Water Quality Certification  
(Central Valley Regional Water Quality Control Board)



## NEPA/CEQA NEXT STEPS

**American River Contract 2** information will be available at [sacleveeupgrades.com](https://sacleveeupgrades.com)

Public scoping comment period:

July 31<sup>st</sup> through August 31<sup>st</sup> 2020

**Draft Supplemental EIS/EIR for American River Contract 2**  
anticipated to be available: Late 2020 or early 2021



# MORE INFORMATION



## Project Overview

### American River Levees

### Sacramento River Levees

### Sacramento Weir

Subscribe for Construction  
& Traffic email updates



Project Information Tri-fold



## Reducing flood risk in Sacramento

Greater Sacramento, California, is often considered to be the most at-risk region in America for catastrophic flooding, relying on an aging system of levees, weirs and bypasses and Folsom Dam to reduce its flood risk. But that system, just like a chain, is only as strong as its weakest link. Together, the U.S. Army Corps of Engineers, California's Central Valley Flood Protection Board, California Department of Water Resources, and the Sacramento Area Flood Control Agency have made tremendous progress in reducing the flood risk, but more work remains. Through the Bipartisan Budget Act, the Corps has received full upfront funding to modernize Sacramento's aging flood infrastructure. This allows us to more efficiently implement nearly \$1.8 billion in upgrades to Sacramento's flood risk management system. The authorized work includes up to: 13 miles of seepage cutoff walls, 21 miles of bank protection, 5 miles of levee stabilization, 5 miles of levee raises and widening the Sacramento Weir and bypass.

## Current Project Activities

Sacramento River East Levee Contract 1 Construction

[sacleveeupgrades.com](http://sacleveeupgrades.com)



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in the subject line**



**THANK YOU!**





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