

**Meeting of the Central Valley Flood Protection Board
July 22, 2016**

Staff Report – Encroachment Permit

**Department of Water Resources
Wallace Weir Fish Barrier Project, Yolo County**

1.0 – ITEM

Consider approval of Permit No. 19101 BD (Attachment B)

2.0 – APPLICANT

Department of Water Resources (DWR)

3.0 – LOCATION

The project is located at the confluence of the Yolo Bypass and Knights Landing Ridge cut, at the existing Wallace Weir, near the town of Woodland in Yolo County. (Attachment A)

4.0 – PROJECT DESCRIPTION

The applicant proposes to install a positive fish barrier at the confluence of the Knights Landing Ridge Cut and the Yolo Bypass. Work will include the reconstruction of an existing earthen weir (Wallace Weir) with all related structures, to include the installation of rock slope protection, installation of two new waterside levee access ramps, installation of a weir and gate control building on the crown of the levee, in-channel grading, reconstruction of a private levee on the east side of the weir, and the installation of six PG&E power poles within the Yolo Bypass.

5.0 – AUTHORITY OF THE BOARD

California Water Code § 8534, 8590 – 8610.5, and 8700 – 8710

California Code of Regulations (CCR), Title 23 (Title 23):

- § 6, Need for a Permit
- § 13, Evidentiary Hearings
- § 112, Streams Regulated and Nonpermissible Work Periods
- § 119, Dams and Related Structures
- § 120, Levees
- § 123, Pipelines, Conduits, and Utility Lines

6.0 – PROJECT ANALYSIS

DWR is proposing to construct the Wallace Weir Fish Barrier Project in accordance with the 2009 Biological Opinion completed by the National Marine Fisheries Service on the Long-term Operation of the Central Valley and State Water Projects. The proposed project will improve the efficiency and safety of the Wallace Weir operations while preventing federally listed anadromous fish from entering the Colusa Basin Drain (CBD). The existing 450-foot long earthen berm and 28-foot long water control structure, known as Wallace Weir, is a known location for federally listed anadromous fish straying. This was a temporary berm that would have a portion removed by the landowner or get washed out by winter flows to allow for the passage of water every winter. The proposed Wallace Weir Project will provide a permanent earthen weir that will be rocked to withstand being submerged by high winter flows. A new permanent fish collection facility at the weir will capture fish that attempt to enter the CBD. Captured fish will be transported to the Sacramento River for release. In addition to preventing fish from entering the CBD the proposed weir will also be designed to maintain appropriate irrigation water surface elevations without impeding outflows during the flood season.

The responsible agency for the weir and all appurtenant structures will be DWR. The fish rescue portion of the facility, will be operated by the California Department of Fish and Wildlife. The local reclamation district, RD108, has agreed to act as the lead agency for purposes of compliance with the California Environmental Quality Act (CEQA) for the project.

The new weir will be approximately 3 feet higher than the existing weir to allow for over 95% of the Knights Landing Ridge Cut flow stages to remain below the crest of the weir. The existing embankment on the east side of the weir will also be raised approximately

3 feet to match the weir elevation. The higher bank will lower the potential for fish to be able to pass through the barrier during high flows. An access ramp will be built on the waterside of the project levee, on the west side of the weir. The ramp will provide access between the right and left banks for the Knights Landing Ridge cut. A 20-foot wide road will be constructed on top of the berm to provide access to the fish facility. An access gate will be installed at the western end of the access road to restrict entry in the facility.

Fill for the project will come from an onsite borrow area downstream of the weir and from imported sources. With this fill, the ramps, roads, and an existing agricultural road will be raised along the left bank of the Knights Landing Ridge Cut. The raising of this bank will help to reduce the potential for fish to be able to bypass the fish barrier during high flow events. This bank is not a levee, but it will still help prevent overtopping.

PG&E will provide electrical services for the project by installing a new electric line from their nearby infrastructure. Six new poles will be placed adjacent to the agricultural road that runs along the east side of the Knights Landing Ridge Cut/Yolo Bypass. These poles were reviewed as part of the project as a whole, but will ultimately be operated and maintained by PG&E. For this reason, PG&E will be submitting a separate application for the poles (19101-1) which will transfer operation and maintenance responsibility of the poles from DWR to PG&E.

A 20-foot by 20-foot flow control structure will be constructed on a concrete pad at the top of the project levee for the weir operations. Three remotely operated inflatable bladders will be installed on the upstream side of the control structure. These bladders will raise and lower the steel gates that will control the flow through the structure, and provide safe conditions during fish collections. The fish collection facility will be constructed on the east side of the flow control structure. A culvert through the west end of the weir will supply water to an existing irrigation ditch that flows along the western edge of the Yolo Bypass (Attachment D). All project components are in compliance with CCR Title 23 standards.

6.1 – Hydraulic Analysis

A one-dimensional (1D) hydraulic model of Knights Landing Ridge Cut was developed using the USACE Hydrologic Engineering Center's River Analysis System (HEC-RAS). The model was used to analyze the hydraulic impacts for existing and post project conditions. (Attachment C). A USACE design flow of 20,000 cfs was used for the Knights Landing Ridge Cut and 343,000 cfs was used for the Yolo Bypass between the Fremont Weir and Knights Landing Ridge Cut.

The results of the hydraulic analysis show there will be no rise in water surface elevation greater than 0.10 feet due to the proposed project. Board staff concurs with the results of the hydraulic analysis that the proposed project is expected to result in no significant adverse hydraulic impacts to the Knights Landing Ridge cut or the Yolo Bypass.

6.2 – Geotechnical Analysis

Proposed work that will occur on the west (project) levee of the Knights Landing Ridge Cut includes a control building, access ramps, one PG&E power pole, and fill material. The ramp fill will be placed in one construction sequence. All fill for the levee will consist of imported material that meets Title 23 standards. The imported fill is not expected to cause appreciable settlement of the existing levee. The control building and PG&E pole will be on shallow footings.

Board staff has reviewed the geotechnical report provided by DWR and has determined that the proposed project is expected to cause no adverse geotechnical impacts to the Knights Landing Ridge Cut channel or west Project levee.

7.0 – AGENCY COMMENTS AND ENDORSEMENTS

The comments and endorsements associated with this project, from all pertinent agencies are shown below:

- The U.S. Army Corps of Engineers 33 USC 408 decision letter has not yet been received for this application. Staff anticipates receipt of a letter indicating that the USACE District Engineer approves the request to alter the Federal flood risk reduction project, subject to condition. Upon receipt of the letter, board staff will review to ensure its conformity with the permit language and incorporate it into the permit as Exhibit A.

8.0 – CEQA ANALYSIS

Board staff has prepared the following CEQA determination:

The Board, as a Responsible Agency under CEQA, has reviewed the Initial Study, Mitigated Negative Declaration (IS/MND) (SCH No. 2015062004, April 2016) and Mitigation Monitoring and Reporting Program (MMRP) for the Wallace Weir Fish Rescue Facility Project prepared by the lead agency, RD 108. These documents,

including project design and the Mitigation Monitoring and Reporting Program, may be viewed or downloaded from the Central Valley Flood Protection Board website at <http://www.cvfpb.ca.gov/meetings/2016/07-22-2015.cfm> under a link for this agenda item. The documents are also available for review in hard copy at the Board and RD 108 offices.

RD 108 determined that the project would not have a significant effect on the environment and adopted Resolution 16-08 on May 19, 2016 and subsequently filed a Notice of Determination on May 20, 2016 with the State Clearinghouse. Board staff finds the proposed project will not have a potentially significant effect on the environment because RD 108, as lead agency, has required mandatory mitigation measures that will mitigate all potentially significant impacts to less than significant. These mandatory mitigation measures have been incorporated into the project plans to avoid identified impacts or to mitigate such impacts to a point where no significant impacts will occur. These mitigation measures are included in the project proponent's MMRP and address impacts biological resources, cultural resources, geology and soils, hazards and hazardous materials, hydrology and water quality. The description of the mitigation measures are further described in the adopted MMRP.

The documents and other materials which constitute the record of the Central Valley Flood Board's proceedings in this matter are in the custody of the Executive Officer, Central Valley Flood Protection Board, 3310 El Camino Ave., Suite 170, Sacramento, California 95821.

9.0 – CALIFORNIA WATER CODE SECTION 8610.5 CONSIDERATIONS

1. Evidence that the Board admits into its record from any party, State or local public agency, or nongovernmental organization with expertise in flood or flood plain management:

The Board will make its decision based on the evidence in the permit application and attachments, this staff report, and any other evidence presented by any individual or group.

2. The best available science that related to the scientific issues presented by the executive officer, legal counsel, the Department or other parties that raise credible scientific issues.

The accepted industry standards for the work proposed under this permit as regulated by Title 23 have been applied to the review of this permit. On the issue of

hydraulic impacts, a HEC-RAS one-dimension flow model was used. This model is considered to be the best available scientific tool for the purpose of modeling hydraulics in the region.

3. Effects of the decision on facilities of the State Plan of Flood Control (SPFC), and consistency of the proposed project with the Central Valley Flood Protection Plan(CVFPP) as adopted by Board Resolution 2012-25 on June 29, 2012:

Hydraulic and geotechnical analyses of the proposed project indicates that there will be no significant increase in water surface elevation, no substantial increase in channel velocities, and no adverse geotechnical impacts to the Knights Landing Ridge Cut or Yolo Bypass. Therefore it is expected that there will be no adverse effects to facilities of the SPFC.

4. Effects of reasonable projected future events, including, but not limited to, changes in hydrology, climate, and development within the applicable watershed:

There are no foreseeable projected future events that would impact this project since the project is a betterment of an existing structure. The proposed project would not interfere with the potential Yolo Bypass setback levee. The weir is designed to overtop if there is a future raise in flood flows.

10.0 – STAFF RECOMMENDATION

Staff recommends that the Board:

Adopt:

- The CEQA findings;

Approve:

- Draft Encroachment Permit No. 19101 in substantially the form provided; and

Direct:

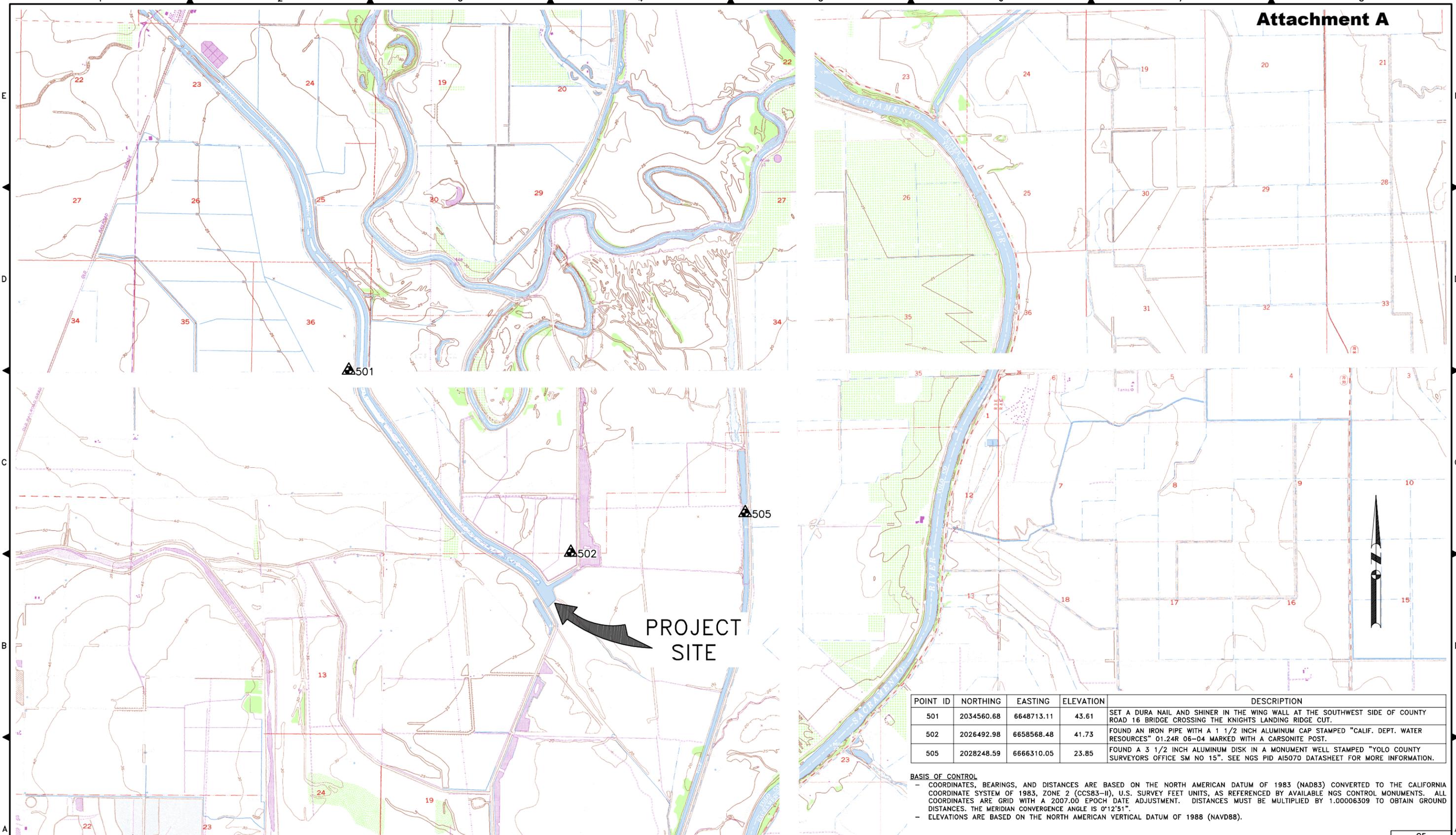
- The Executive Officer to take the necessary actions to execute the permit and file a Notice of Determination pursuant to CEQA with the State Clearinghouse.

11.0 – LIST OF ATTACHMENTS

- A. Location Maps
- B. Draft Permit No. 19101 BD

- C. Hydraulic report
- D. Plans

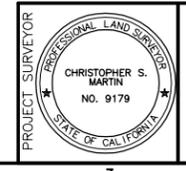
Design Review:	Remy Gill
Environmental Review:	Andrea Buckley, Acting Environmental Branch Chief
Document Review:	Gary Lemon, PE, Permitting Section Chief Mitra Emami, PE, Acting Chief Engineer
Legal Review:	Kanwarjit Dua, Board Counsel



POINT ID	NORTHING	EASTING	ELEVATION	DESCRIPTION
501	2034560.68	6648713.11	43.61	SET A DURA NAIL AND SHINER IN THE WING WALL AT THE SOUTHWEST SIDE OF COUNTY ROAD 16 BRIDGE CROSSING THE KNIGHTS LANDING RIDGE CUT.
502	2026492.98	6658568.48	41.73	FOUND AN IRON PIPE WITH A 1 1/2 INCH ALUMINUM CAP STAMPED "CALIF. DEPT. WATER RESOURCES" 01.24R 06-04 MARKED WITH A CARSONITE POST.
505	2028248.59	6666310.05	23.85	FOUND A 3 1/2 INCH ALUMINUM DISK IN A MONUMENT WELL STAMPED "YOLO COUNTY SURVEYORS OFFICE SM NO 15". SEE NGS PID AI5070 DATASHEET FOR MORE INFORMATION.

BASIS OF CONTROL
 - COORDINATES, BEARINGS, AND DISTANCES ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83) CONVERTED TO THE CALIFORNIA COORDINATE SYSTEM OF 1983, ZONE 2 (CCS83-II), U.S. SURVEY FEET UNITS, AS REFERENCED BY AVAILABLE NGS CONTROL MONUMENTS. ALL COORDINATES ARE GRID WITH A 2007.00 EPOCH DATE ADJUSTMENT. DISTANCES MUST BE MULTIPLIED BY 1.0006309 TO OBTAIN GROUND DISTANCES. THE MERIDIAN CONVERGENCE ANGLE IS 0°12'51".
 - ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

FILE SPEC: P:\2267_Reclamation_District_108\0020_Wallace_Weir\08_Civil\400_Plans\020_CAD\Sheets\100% Submittal\Sht_Control_Sheet.dwg
 PLOT DATE: Jun 12, 2016 - 9:40am

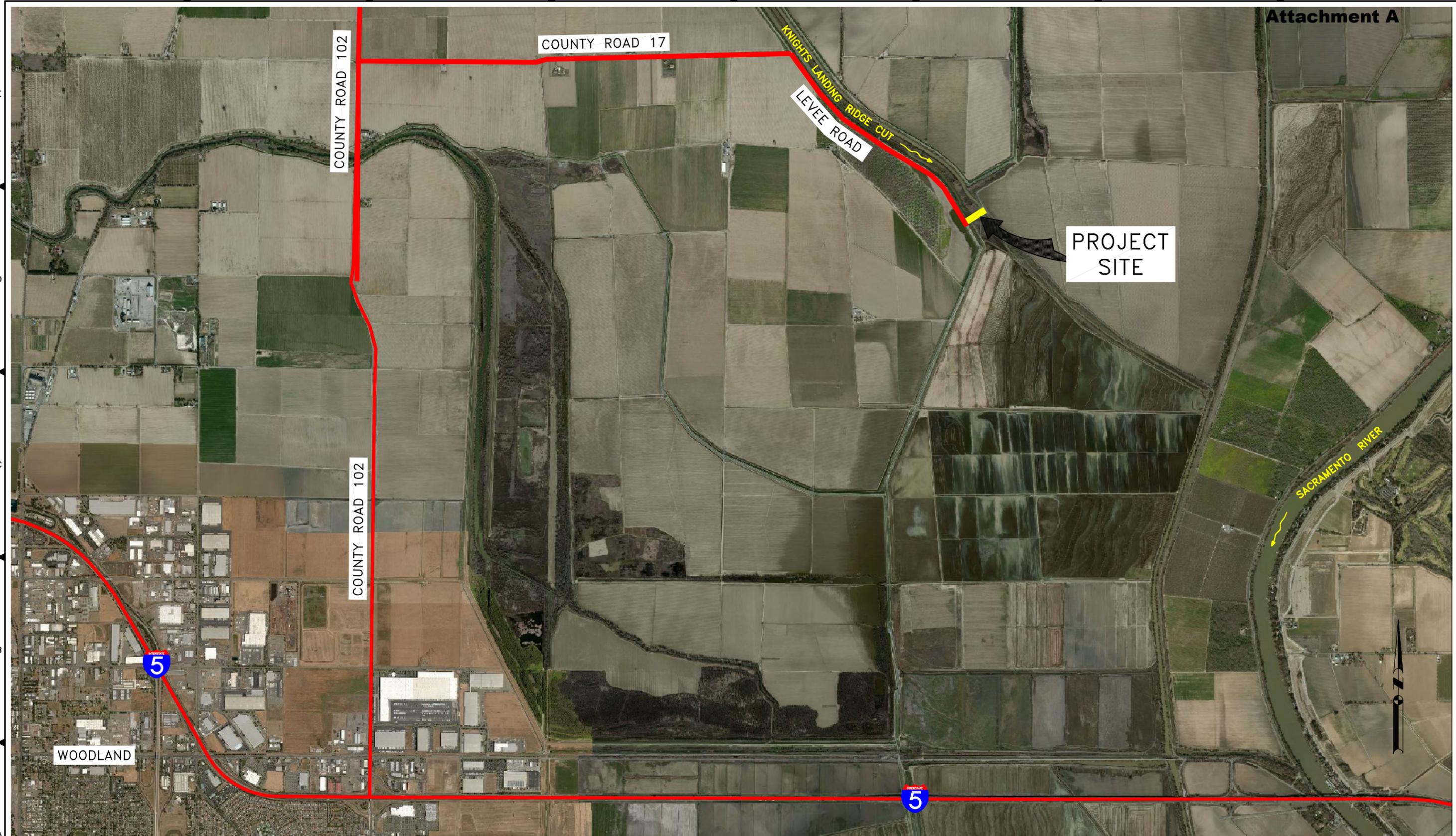


K S INC.
KJELDEN SINNOCK NEUDECK
 Civil Engineers and Land Surveyors
 711 N Pershing Avenue
 Stockton, CA 95203
 209-946-0268
 1355 Halyard Drive, Suite 100
 West Sacramento, CA 95691
 916-403-5900
 www.ksninc.com

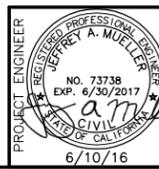
WALLACE WEIR RECLAMATION DISTRICT NO. 108 YOLO BYPASS
FISH RESCUE FACILITY SURVEY CONTROL SHEET

Revisions				
No.	Description	Date	By	App'd. By

Design CSM	Scale 1" = 2000'	Date JUNE 2016
Drawn LGB	Original Drawing Scale 0 1/2" = 1"	Sheet Number 5 Of 59
Check BOR		Project File No. 2267-0020



FILE SPEC: P:\2267_Reclamation_District_108\0020_Wallace_Weir\08_Civil\400_Plans\020_CAD_Sheets\100% Submittal\Sht_Base_Maps.dwg
 PLOT DATE: Jun 10, 2016 - 4:59pm



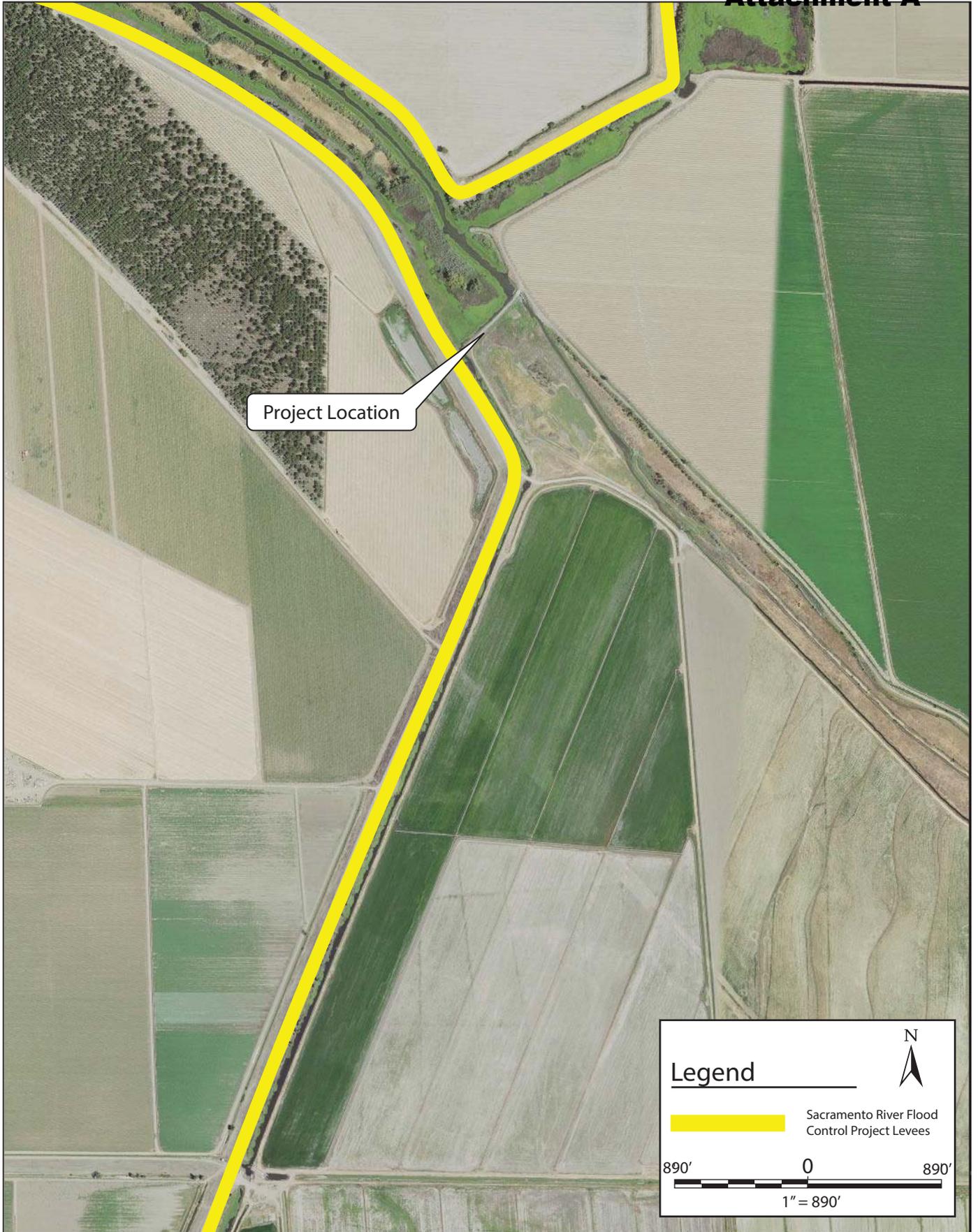
KSN INC.
KJELDSSEN SINNOCK NEUDECK
 Civil Engineers and Land Surveyors
 711 N Pershing Avenue
 Stockton, CA 95203
 209-946-0268
 1355 Halyard Drive, Suite 100
 West Sacramento, CA 95691
 916-403-5900
 www.ksninc.com

WALLACE WEIR RECLAMATION DISTRICT NO. 108 YOLO BYPASS

FISH RESCUE FACILITY BASE MAP
 PROJECT HAUL ROUTES - SOUTH

Revisions				
No.	Description	Date	By	Appr'd. By

Design JAM	Scale NOT TO SCALE	Date JUNE 2016
Drawn JAM	Original Drawing Scale 0 1/4" 1"	Sheet Number 2 Of 59
Check BOR		Project File No. 2267-0020



p0972.15 (4/6/2016) IR

Figure 1-2
Sacramento River Flood Control Levees

STATE OF CALIFORNIA
THE RESOURCES AGENCY
THE CENTRAL VALLEY FLOOD PROTECTION BOARD

PERMIT NO. 19101 BD

This Permit is issued to:

Department of Water Resources
3500 Industrial Blvd.
West Sacramento, California 95691

To install a positive fish barrier at the confluence of the Knights Landing Ridge Cut and the Yolo Bypass. Work will include the reconstruction of an existing earthen weir (Wallace Weir) with all related structures, to include the installation of rock slope protection, installation of two new waterside levee access ramps, installation of a weir and gate control building on the crown of the levee, in-channel grading, reconstruction of a private levee on the east side of the weir, and the installation of six PG&E power poles within the Yolo Bypass.

The project is located at the south end of Knights Landing Ridge Cut, at the Wallace Weir, in Yolo County. , at 38.72218°N -121.66389°W, Knights Landing Ridge Cut, Yolo County, CA.

NOTE: Special Conditions have been incorporated herein which may place limitations on and/or require modification of your proposed project as described above.

(SEAL)

Dated: _____

Executive Officer

GENERAL CONDITIONS:

ONE: This permit is issued under the provisions of Sections 8700 – 8723 of the Water Code.

TWO: Only work described in the subject application is authorized hereby.

THREE: This permit does not grant a right to use or construct works on land owned by the Sacramento and San Joaquin Drainage District or on any other land.

Attachment B

FOUR: The approved work shall be accomplished under the direction and supervision of the State Department of Water Resources, and the permittee shall conform to all requirements of the Department and The Central Valley Flood Protection Board.

FIVE: Unless the work herein contemplated shall have been commenced within one year after issuance of this permit, the Board reserves the right to change any conditions in this permit as may be consistent with current flood control standards and policies of The Central Valley Flood Protection Board.

SIX: This permit shall remain in effect until revoked. In the event any conditions in this permit are not complied with, it may be revoked on 15 days' notice.

SEVEN: It is understood and agreed to by the permittee that the start of any work under this permit shall constitute an acceptance of the conditions in this permit and an agreement to perform work in accordance therewith.

EIGHT: This permit does not establish any precedent with respect to any other application received by The Central Valley Flood Protection Board.

NINE: The permittee shall, when required by law, secure the written order or consent from all other public agencies having jurisdiction.

TEN: The permittee is responsible for all personal liability and property damage which may arise out of failure on the permittee's part to perform the obligations under this permit. If any claim of liability is made against the State of California, or any departments thereof, the United States of America, a local district or other maintaining agencies and the officers, agents or employees thereof, the permittee shall defend and shall hold each of them harmless from each claim.

ELEVEN: The permittee shall exercise reasonable care to operate and maintain any work authorized herein to preclude injury to or damage to any works necessary to any plan of flood control adopted by the Board or the Legislature, or interfere with the successful execution, functioning or operation of any plan of flood control adopted by the Board or the Legislature.

TWELVE: Should any of the work not conform to the conditions of this permit, the permittee, upon order of The Central Valley Flood Protection Board, shall in the manner prescribed by the Board be responsible for the cost and expense to remove, alter, relocate, or reconstruct all or any part of the work herein approved.

SPECIAL CONDITIONS FOR PERMIT NO. 19101 BD

LIABILITY AND INDEMNIFICATION

THIRTEEN: The permittee is responsible for all liability and shall defend, indemnify, and hold the Board and the State of California; including its agencies, departments, boards, commissions, and their respective officers, agents, employees, successors and assigns (collectively, the "State"), safe and harmless, of and from all claims and damages arising from the project undertaken pursuant to this permit, all to the extent allowed by law. The State expressly reserves the right to supplement or take over its defense, in its sole discretion.

FOURTEEN: The permittee shall defend, indemnify, and hold the Central Valley Flood Protection Board (Board) and the State of California, including its agencies, departments, boards, commissions, and their respective officers, agents, employees, successors and assigns (collectively, the "State"), safe and harmless, of and from all claims and damages related to the Board's approval of this permit, including but not limited to claims filed pursuant to the California Environmental Quality Act. The State expressly reserves the right to supplement or take over its defense, in its sole discretion.

FIFTEEN: The Board and Department of Water Resources shall not be held liable for any damages to the permitted encroachment(s) resulting from releases of water from reservoirs, flood fight, operation, maintenance, inspection, or emergency repair.

Attachment B

AGENCY CONDITIONS

SIXTEEN: All work approved by this permit shall be in accordance with the submitted drawings and specifications except as modified by special permit conditions herein. No further work, other than that approved by this permit, shall be done in the area without prior approval of the Board.

SEVENTEEN: Permittee shall pay to the Board, an inspection fee(s) to cover inspection cost(s), including staff and/or consultant time and expenses, for any inspections before, during, post-construction, and regularly thereafter as deemed necessary by the Board.

EIGHTEEN: No construction work of any kind shall be done during the flood season from November 1 to April 15 without prior approval of the Board.

NINETEEN: The permittee shall be responsible for the repair of any damages to the project levee, channel, banks, floodway, or other flood control facilities due to construction, operation, or maintenance of the proposed project.

TWENTY: The permittee shall comply with all conditions set forth in the letter from the Department of the Army (U.S. Army Corps of Engineers, Sacramento District) dated _____, which is attached to this permit as Exhibit A and is incorporated by reference.

TWENTY-ONE: Within 30-days from the issuance of this permit the permittee shall submit an application on behalf of PG&E for the six power poles that are features of the approved project.

PRE-CONSTRUCTION

TWENTY-TWO: Upon receipt of a signed copy of the issued permit the permittee shall contact the Board by telephone at (916) 574-0609, and submit the enclosed postcard, to schedule a preconstruction conference with the inspector that is assigned to your project. Failure to do so at least 10 working days prior to start of work may result in a delay of the project.

CONSTRUCTION

TWENTY-THREE: No material stockpiles, temporary buildings, or equipment shall remain in the floodway during the flood season from November 1 to April 15, and shall be removed after completion of the project.

TWENTY-FOUR: All debris generated by this project shall be disposed of outside of the Yolo Bypass.

TWENTY-FIVE: The permittee shall be responsible for all damages due to any construction-induced activities.

TWENTY-SIX: The proposed access ramp shall be graded to direct all surface drainage away from the levee section.

Attachment B

VEGETATION / ENVIRONMENTAL MITIGATION

TWENTY-SEVEN: Trees, brush, sediment, and other debris shall be cleared from the site and disposed of outside the floodway to maintain the design flow capacity and flowage area.

POST-CONSTRUCTION

TWENTY-EIGHT: The work area shall be restored to the condition that existed prior to start of work.

TWENTY-NINE: Within 120 days of completion of the project, the permittee shall submit to the Board and DWR as-built drawings, a facilities operations and maintenance manual for the fish screen structure, and a certification report, stamped and signed by a licensed civil engineer registered in the State of California, certifying the work was performed and inspected in accordance with the Board permit conditions and submitted drawings and specifications.

THIRTY: The mitigation measures approved by the CEQA lead agency /permittee are found in its Mitigation and Monitoring Reporting Program (MMRP) adopted by the CEQA lead agency. The permittee shall implement all such mitigation measures.

OPERATIONS AND MAINTENANCE

THIRTY-ONE: In the event that levee or bank erosion injurious to the adopted plan of flood control occurs at or adjacent to the permitted encroachment(s), the permittee shall repair the eroded area and propose measures, to be approved by the Board, to prevent further erosion.

THIRTY-TWO: The permittee shall maintain the permitted project within the utilized area in accordance with applicable current or future local, State, and federal standards in the manner required as requested by an authorized representative of the Board, DWR, or any other agency responsible for maintenance.

THIRTY-THREE: The permitted encroachment(s) shall not interfere with operation and maintenance of the flood control project. If the permitted encroachment(s) are determined by any agency responsible for operation or maintenance of the flood control project to interfere, the permittee shall be required, at permittee's cost and expense, to modify or remove the permitted encroachment(s) under direction of the Board or Department of Water Resources. If the permittee does not comply, the Board may modify or remove the encroachment(s) at the permittee's expense.

PROJECT ABANDONMENT, CHANGE IN PLAN OF FLOOD CONTROL

THIRTY-FOUR: If the project, or any portion thereof, is significantly damaged or is to be abandoned in the future, the permittee shall abandon or repair the project under direction of the Board at the permittee's cost and expense.

THIRTY-FIVE: The permittee may be required, at permittee's cost and expense, to remove, alter, relocate, or reconstruct all or any part of the permitted project if removal, alteration, relocation, or

Attachment B

reconstruction is necessary as part of or in conjunction with implementation of the Central Valley Flood Protection Plan or other future flood control plan or project, or if damaged by any cause. If the permittee does not comply, the Board may perform this work at the permittee's expense.

END OF CONDITIONS

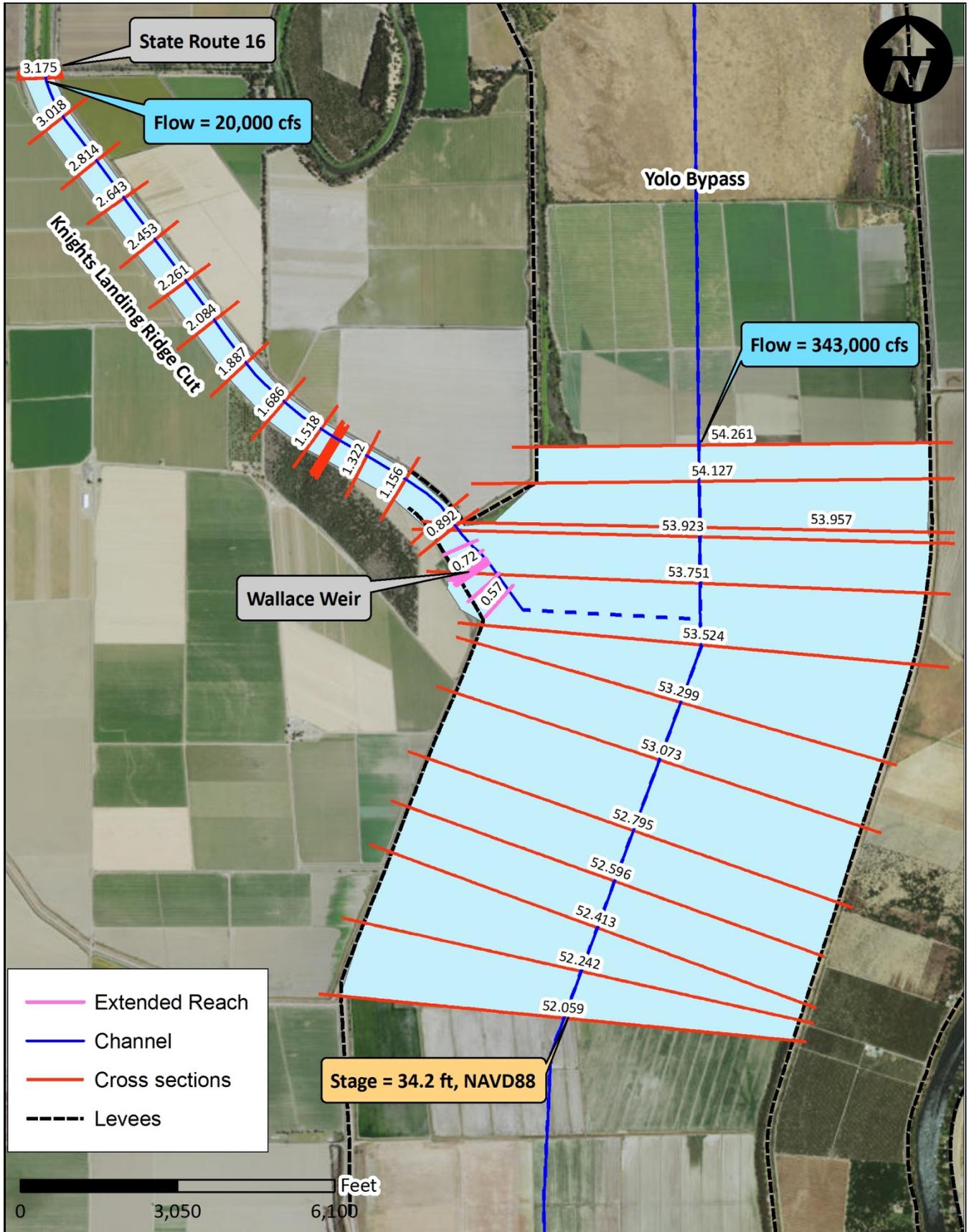
Attachment C

Wallace Weir Improvements
DRAFT Flood Impact Assessment

Table 1. Results of the Proposed Wallace Weir Fish Rescue Facility Flood Impact Assessment

Location	Existing WSE (existing gates open)	Project WSE (with all gates open)	Project WSE (with all gates closed)
Upstream end of KLRC (Station 3.199)	37.85	37.85	37.85
Station 0.892	35.50	35.50	35.50
Station 0.810	35.50	35.51	35.51
Station 0.753	35.51	35.53	35.53
Station 0.726	35.53	35.56	35.56
Upstream of Wallace Weir (Station 0.720)	35.54	35.57	35.58
Downstream of Wallace Weir (Station 0.646)	35.50	35.49	35.49
KLRC confluence with Yolo Bypass (Station 0.570)	35.43	35.43	35.43

Attachment C



Notes: Source data:
CVFED model, cbec
prepared cross sections
and DWR NRO survey

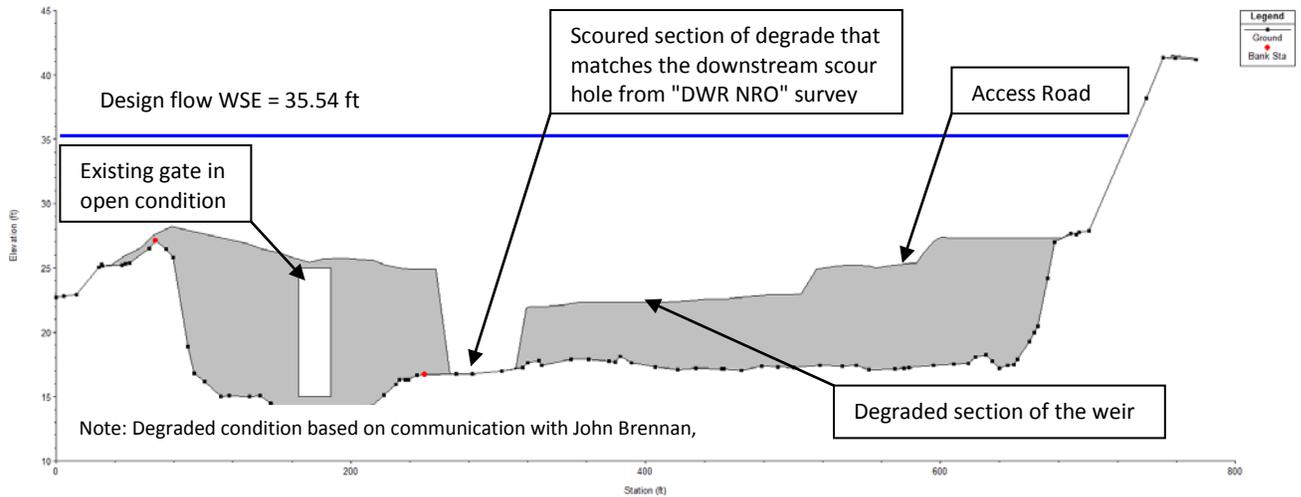


Wallace Weir Fish Rescue Facility
Model extents

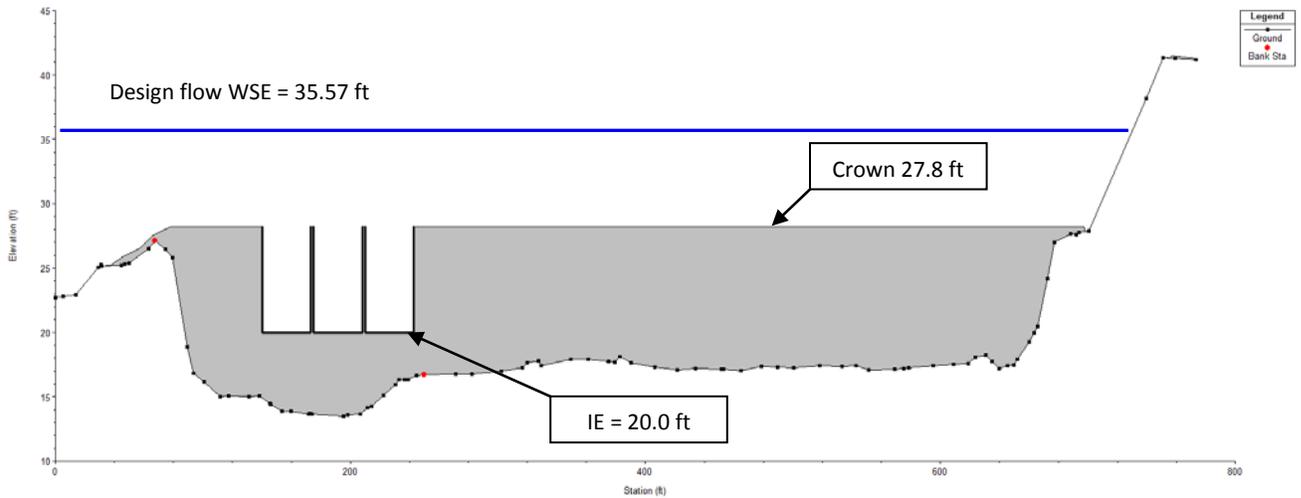
Project No. 16-1002 Created By: SP

Figure 1

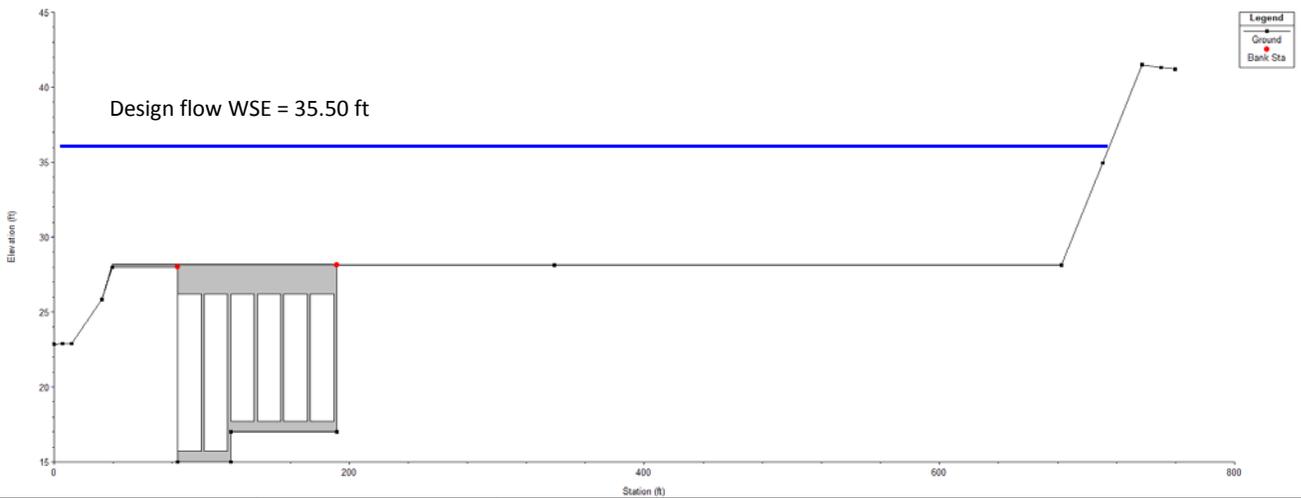
(a) Existing Wallace Weir (Inline Structure 0.712)



**(b) Proposed Wallace Weir Gates (Inline Structure 0.712)
Upstream Face at Obermeyer Weirs**



**(c) Proposed Fish Barrier Structure (Inline Structure 0.707)
Downstream Face at Fish Barrier Pickets**



Notes: Left to Right
looking downstream



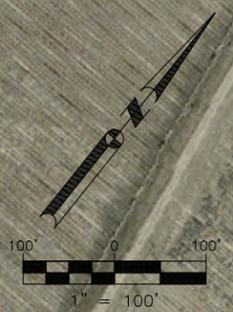
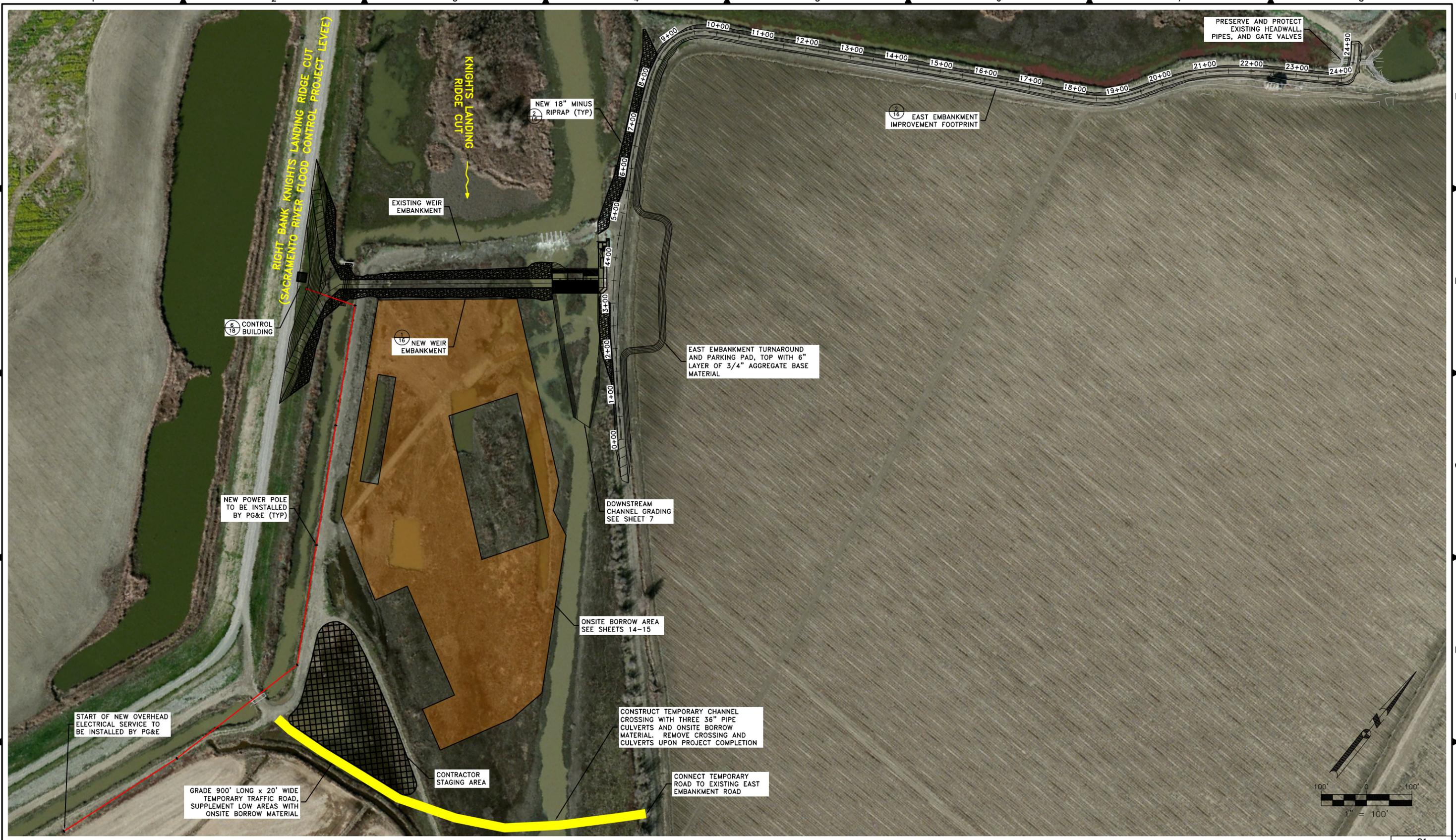
Wallace Weir Fish Rescue Facility

Modeled Wallace Weir Configurations

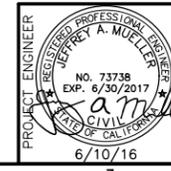
Project No. 16-1002

Created By: SP

Figure 2



FILE SPEC: P:\2267_Reclamation_District_108\0020_Wallace_Weir\08_Civil\400_Plans\020_CAD\Sheets\100% Submittal\Site_Maps.dwg
PLOT DATE: Jun 11, 2016 - 2:46pm



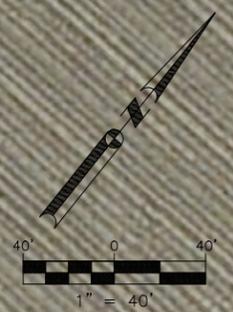
KSN
KJELDSSEN SINNOCK NEUDECK
 Civil Engineers and Land Surveyors
 711 N Pershing Avenue
 Stockton, CA 95203
 209-946-0268
 1355 Halyard Drive, Suite 100
 West Sacramento, CA 95691
 916-403-5900
 www.ksninc.com

**WALLACE WEIR
 RECLAMATION DISTRICT NO. 108
 YOLO BYPASS**
**FISH RESCUE FACILITY
 SITE MAP
 OVERALL PROJECT SITE**

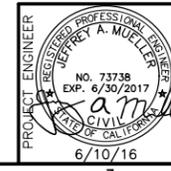
Revisions				
No.	Description	Date	By	App'd. By

Design JAM	Scale 1" = 100' Original Drawing Scale 0 1/2" 1"	Date JUNE 2016
Drawn JAM		Sheet Number 6 Of 59
Check BOR		Project File No. 2267-0020

C1



FILE SPEC: P:\2267_Reclamation_District_108\0020_Wallace_Weir\08_Civil\400_Plans\020_CAD_Sheets\100% Submittal\Site_Maps.dwg
 PLOT DATE: Jun 11, 2016 - 2:47pm



KSN
KJELDSSEN SINNOCK NEUDECK
 Civil Engineers and Land Surveyors
 711 N Pershing Avenue
 Stockton, CA 95203
 209-946-0268
 1355 Halyard Drive, Suite 100
 West Sacramento, CA 95691
 916-403-5900
 www.ksninc.com

WALLACE WEIR
RECLAMATION DISTRICT NO. 108
YOLO BYPASS
FISH RESCUE FACILITY
SITE MAP
NEW WEIR EMBANKMENT

Revisions				
No.	Description	Date	By	App'd. By

Design JAM	Scale 1" = 40'	Date JUNE 2016
Drawn JAM	Original Drawing Scale 0 1/2" 1"	Sheet Number 7 Of 59
Check BOR		Project File No. 2267-0020

C2