

**Meeting of the Central Valley Flood Protection Board
October 28, 2011**

Staff Report – Encroachment Permit

**Sacramento River Ranch LLC
Irrigation Pipe Removal and Replacement, Yolo County**

1.0 – ITEM

Consider approval of Permit No. 18679. (Attachment B)

2.0 – APPLICANT

Sacramento River Ranch LLC

3.0 – LOCATION

The project is located approximately 1,000 feet northeast of the Fremont Weir on County Road 107, near river mile (RM) 81.6.
(Sacramento River, Yolo County, see Attachment A)

4.0 – DESCRIPTION

The applicant proposes to (1) remove an existing 24 inch steel pipe through the levee and landside levee slope previously permitted in Reclamation Board Permit 3501; (2) replace with a new 24 inch steel pipe; (3) restore the levee crown and landside levee slope, and (4) to authorize an existing electrical conduit serving the existing waterside slope slant pump.

5.0 – PROJECT ANALYSIS

The existing 24-inch diameter irrigation pipe to be removed is approximately 60 years old. The pipe is located in the levee approximately 20-feet below the levee crown. The new 24-inch diameter steel pipe will be routed up and over the levee so the invert of the new pipe will be above the design water surface elevation. Installation of the new pipe will conform to all pertinent standards in Title 23, Section 123.

5.1 – Hydraulic Analysis

The 18-inch diameter steel replacement pipe will be buried in the waterside berm and the pump platform is existing therefore no hydraulic analysis is required.

5.2 – Geotechnical Analysis

The scope of work for this project does not require a geotechnical analysis. A geotechnical engineer will be onsite to observe and ensure backfilling operations are consistent with conditions in Permit 18679.

6.0 – AGENCY COMMENTS AND ENDORSEMENTS

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

- Reclamation District No. 1600 endorsed this project on April 19, 2011 without conditions.
- The U.S. Army Corps of Engineers 208.10 comment letter has not yet been received for this application. Upon receipt of a favorable letter and review by Board staff the letter will be incorporated into the permit as Exhibit A.

7.0 – CEQA ANALYSIS

Board staff has prepared the following CEQA determination:

Yolo County, as lead agency under CEQA, approved the project (Lang Encroachment Permit PW 2011-0083) on April 19, 2011 and determined that the project was categorically exempt under Class 2 (CEQA Guidelines Section 15302(c)) covering replacement or reconstruction of existing utility systems and/or facilities involving negligible or no expansion of capacity.

The Board, acting as a responsible agency under CEQA, has reviewed the Yolo County determination and has independently determined that the project is exempt from CEQA Class 2 (CEQA Guidelines Section 15302(c)) covering replacement or reconstruction of existing utility systems and/or facilities involving negligible or no expansion of capacity.

8.0 – 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.

3. Effects of the decision on the entire State Plan of Flood Control:

The irrigation pipe was present prior to the adoption of the area into the State Plan of Flood Control. Furthermore the new pipe will be buried above the design water surface elevation; therefore there will be no effect on the State Plan of Flood Control.

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

There will be minimal effects to the pipe due to reasonable projected future events. Higher flows could require that the invert of the pipe be raised.

9.0 – STAFF RECOMMENDATION

Staff recommends that the Board determine the project to be exempt from CEQA, approve Permit No. 18657 conditioned upon receipt of a USACE 208.10 letter of determination confirming that the Corps has no objection to the project, and direct the Executive Officer to take necessary actions to execute the permit.

10.0 – LIST OF ATTACHMENTS

- A. Location Maps and Photos
- B. Draft Permit No. 18667
- C. Design Drawings
- D. District Endorsement

Design Review:	Gary W. Lemon P.E.
Environmental Review:	James Herota / Andrea Mauro
Document Review:	Mitra Emami P.E., Len Marino P.E.

DRAFT

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

PERMIT NO. 18679 BD

This Permit is issued to:

Sacramento River Ranch LLC
12074 County Road 117
West Sacramento, California 95691

To (1) remove an existing, previously permitted 24 inch steel pipe through the levee crown and landside levee slope (Permit 3501); (2) replace with a new 24 inch steel pipe; (3) restore the levee crown and landside levee slope, and (4) to authorize an existing electrical conduit serving the existing waterside slope slant pump. Located approximately 1,000 feet northeast of the Fremont Weir on County Road 107, near river mile (RM) 81.6 (Section 27, T11N, R3E, MDB&M, Reclamation District 1600, Sacramento River, Yolo County).

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.

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. 18679 BD

THIRTEEN: 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 written approval of the Central Valley Flood Protection Board.

FOURTEEN: The permittee is responsible for all liability associated with construction, operation, and maintenance of the permitted facilities and shall defend, indemnify, and hold the Central Valley Flood Protection 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.

FIFTEEN: The permittee shall defend, indemnify, and hold the Central Valley Flood Protection 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 Central Valley Flood Protection 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.

SIXTEEN: The permittee should contact the U.S. Army Corps of Engineers, Sacramento District, Regulatory Branch, 1325 J Street, Sacramento, California 95814, telephone (916) 557-5250, as compliance with Section 10 of the Rivers and Harbors Act and/or Section 404 of the Clean Water Act may be required.

SEVENTEEN: The permittee shall contact the Department of Water Resources by telephone, (916) 574-0609, and submit the enclosed postcard to schedule a preconstruction conference. Failure to do so at least 10 working days prior to start of work may result in delay of the project.

EIGHTEEN: A temporary bench mark, set to a known datum, shall be placed at the project site during construction.

NINETEEN: No construction work of any kind shall be done during the flood season from November 1st to April 15th without prior written approval of the Central Valley Flood Protection Board.

TWENTY: Cleared trees and/or brush shall be completely burned or removed from the flood control project works, and downed trees or brush shall not remain in the project works during the flood season from November 1st to April 15th.

TWENTY-ONE: No construction equipment and/or material(s) shall remain in the Sacramento River flood control project works during the flood season from November 1st to April 15th.

TWENTY-TWO: At any time during the execution of this permit that the levee crown roadway is impassable due to construction activities, a posted detour for motor vehicles shall be provided around the work site.

TWENTY-THREE: No excavation shall be made or remain in the levee section during the flood season from November 1st to April 15th.

TWENTY-FOUR: All pipe joints within the levee section shall be butt welded.

TWENTY-FIVE: The pipeline shall be tested and confirmed free of leaks by X-ray, pressure tests, or other approved methods during construction or anytime after construction upon request by the Central Valley Flood Protection Board.

TWENTY-SIX: Pipe installed in the levee section and within 10 feet of the levee toes shall be new steel and at least seven gauge. Steel pipe shall be corrosion-proofed externally with a coating of coal-tar enamel; asphalt-saturated felt wrap; cement mortar; or PVC or polyethylene tape wrapped to a thickness of 30 mils. Steel pipe shall be corrosion-proofed internally with a continuous lining of cement mortar or asphalt.

TWENTY-SEVEN: The new pipe shall be installed through the levee section at a right angle to the centerline of the levee.

TWENTY-EIGHT: The new pipe shall be placed in an open cut with side slopes of 1 horizontal to 1 vertical or flatter.

TWENTY-NINE: The new pipe shall be placed in the center of an open trench 2 feet wider than the diameter of said new pipe or 2 times the diameter, whichever is greater.

THIRTY: The invert of the new pipe through the levee section shall be above the design flood plane elevation of 38.2 feet, NGV Datum.

THIRTY-ONE: The pipe shall be buried at least 12 inches below the levee slopes and 24 inches below the levee crown.

THIRTY-TWO: Backfill of excavations made in the levee section or within 10 feet of the levee toes shall be in 4- to 6-inch layers with impervious material with 20 percent or more passing the No. 200 sieve, a plasticity index of 8 or more, and a liquid limit of less than 50 and free of lumps or stones exceeding 3 inches in greatest dimension, vegetative matter, or other unsatisfactory material. Backfill material shall be compacted in 4- to 6-inch layers to a minimum of 90 percent relative compaction as measured by ASTM Method D1557-91.

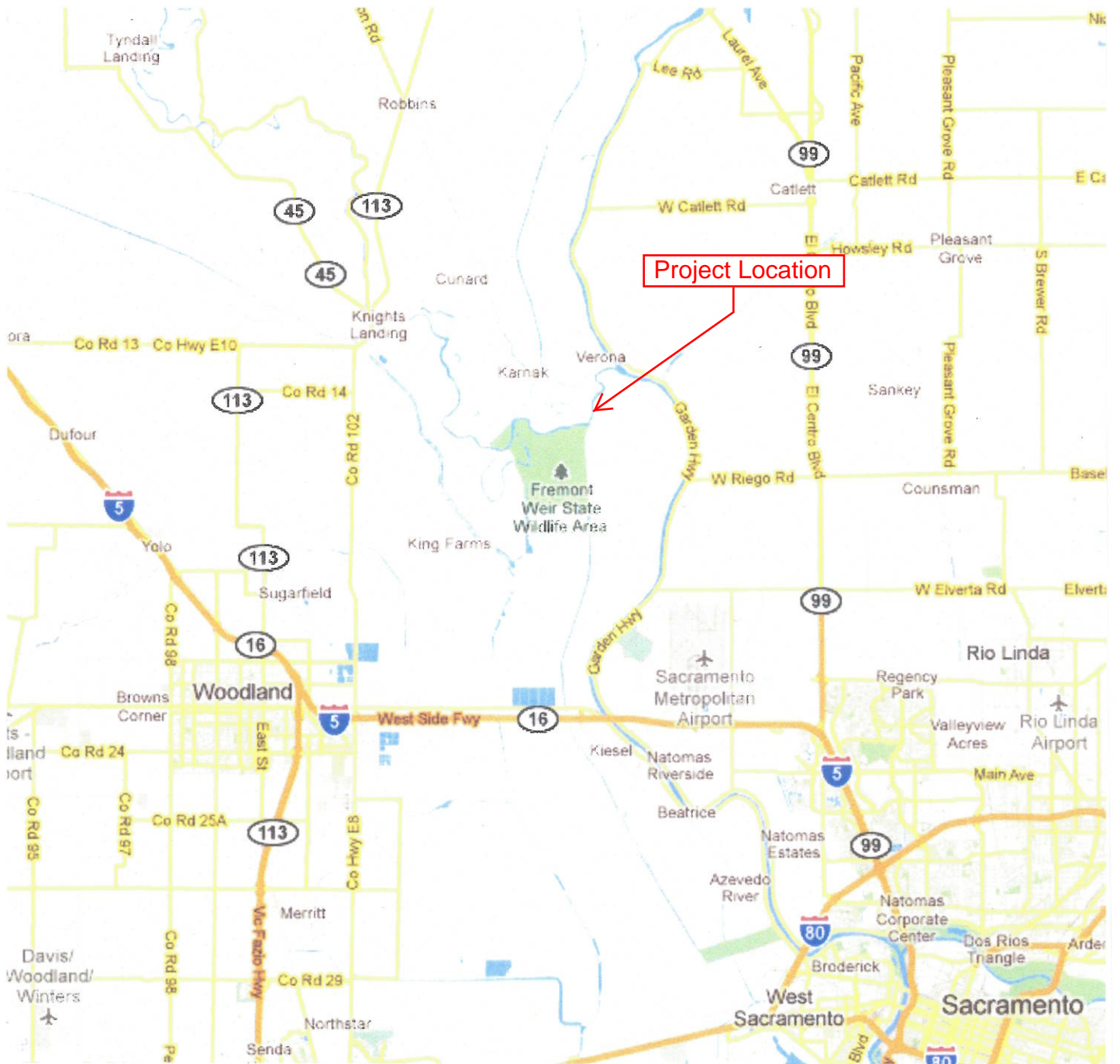
THIRTY-THREE: Compaction tests by a certified soils laboratory will be required to verify compaction of backfill within the levee section or within 10 feet of the levee toe.

THIRTY-FOUR: All debris generated by this project shall be disposed of outside the flood control project works.

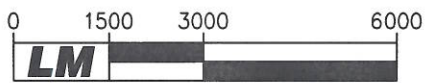
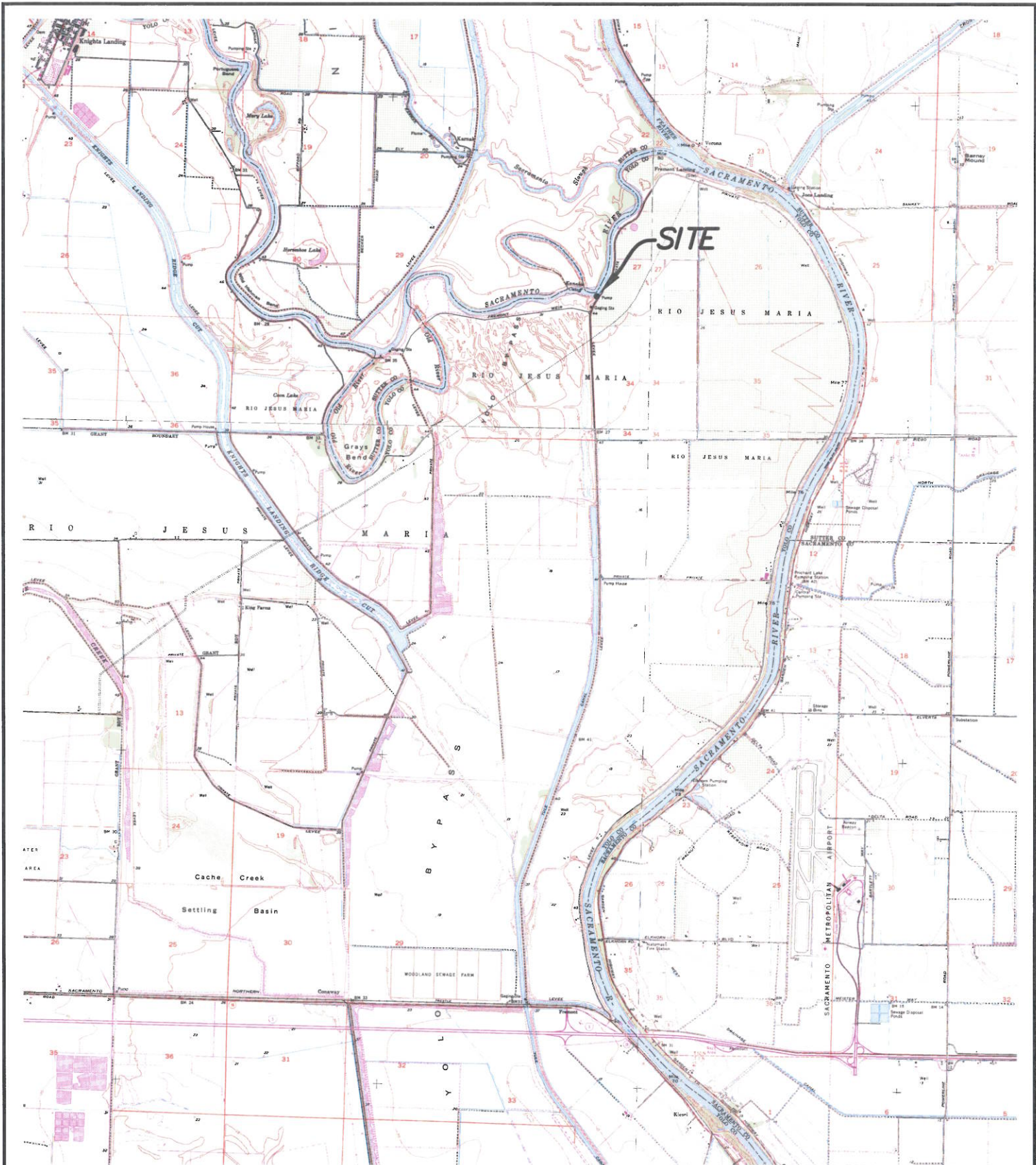
THIRTY-FIVE: The permittee may be required, at permittee's cost and expense, to remove, alter, relocate, or reconstruct all or any part of the permitted encroachment(s) if removal, alteration, relocation, or reconstruction is necessary as part of or in conjunction with any present or future flood control plan or project or if damaged by any cause. If the permittee does not comply, The Central Valley Flood Protection Board may remove the encroachment(s) at the permittee's expense.

THIRTY-SIX: If the project, or any portion thereof, is to be abandoned in the future, the permittee or successor shall abandon the project under direction of The Central Valley Flood Protection Board and Department of Water Resources, at the permittee's or successor's cost and expense.

THIRTY-SEVEN: The permittee shall comply with all conditions, if any, set forth in the letter from the U.S. Army Corps of Engineers dated XXXX YYY, ZZZZ, which is attached to this permit as Exhibit A and is incorporated by reference.







SCALE: 1"=6000'



LM LAUGENOUR AND MEIKLE
 CIVIL ENGINEERING · LAND SURVEYING · PLANNING
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 P.O. BOX 828, WOODLAND, CALIFORNIA 95776 · FAX: (530) 662-4602

VICINITY/LOCATION MAP
 FOR
SACRAMENTO RIVER RANCH, LLC
 LOCATED IN A PORTION OF
 PROJECTED SECTION 2,
 TOWNSHIP 10 NORTH, RANGE 3 EAST,
 MOUNT DIABLO MERIDIAN,
 YOLO COUNTY, CALIFORNIA





LOOKING NORTH FROM THE TOP OF THE LEVEE



LOOKING SOUTH FROM THE TOP OF THE LEVEE



LOOKING EAST (LAND SIDE) FROM THE TOP OF THE LEVEE

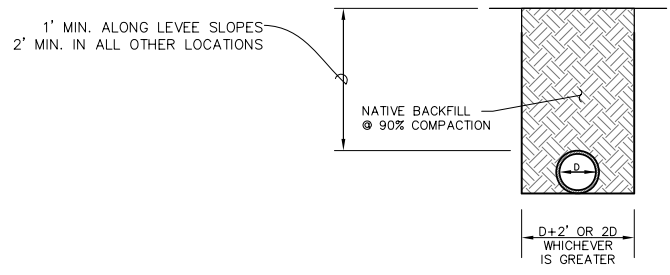
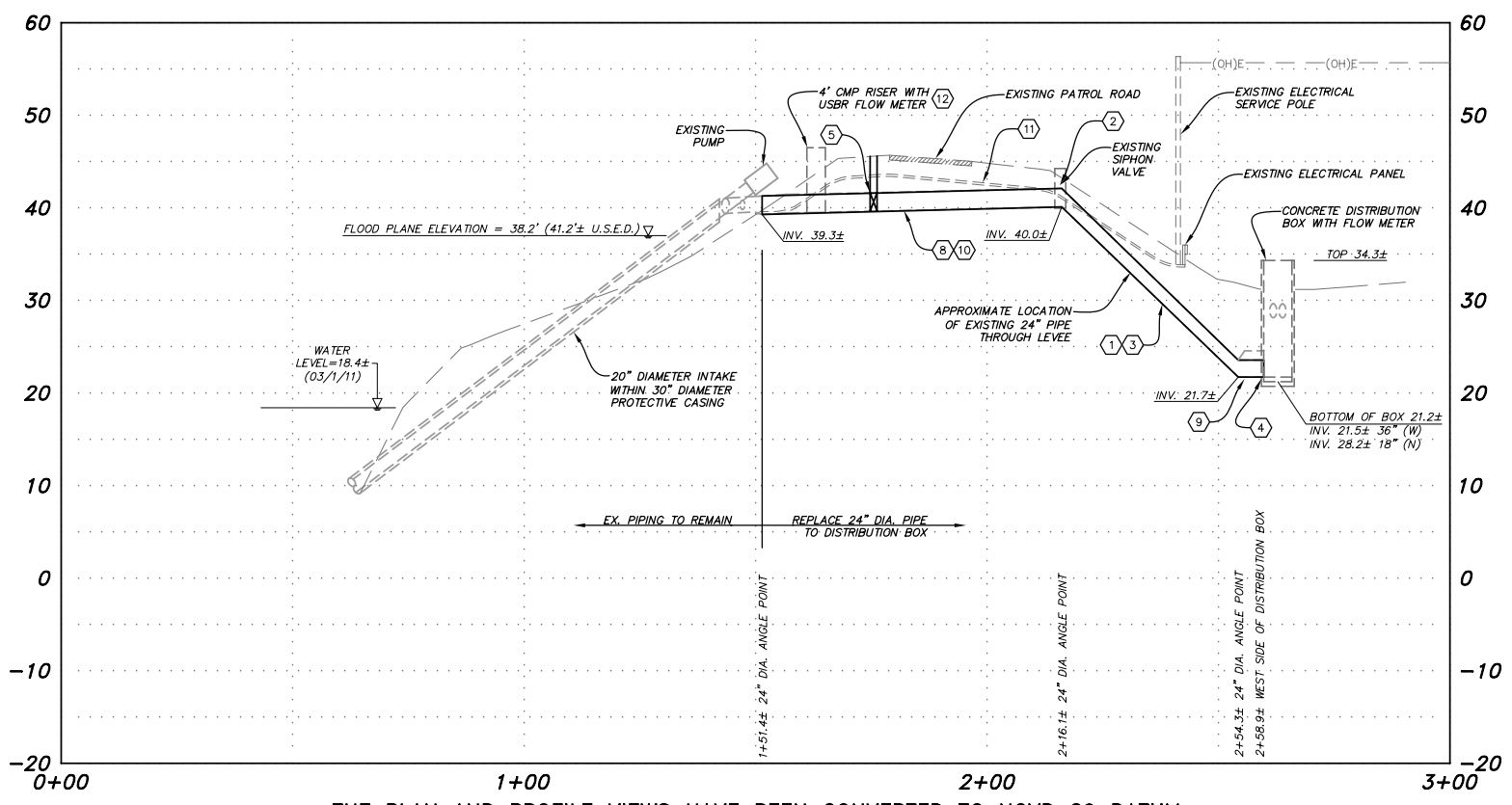
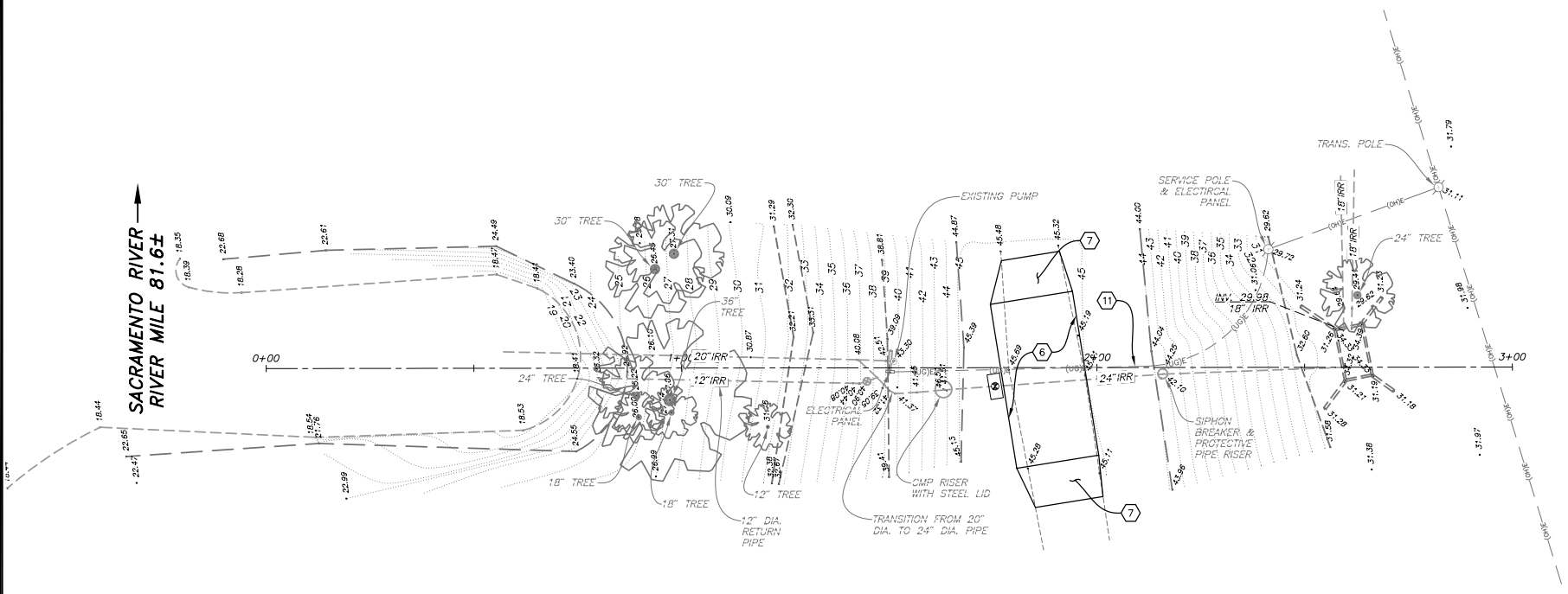
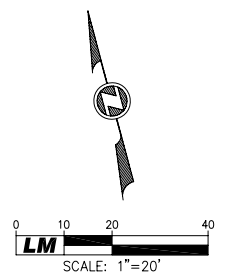


LOOKING WEST TOWARDS THE RIVER FROM THE TOP OF THE LEVEE

CONSTRUCTION NOTES

18679 Plans C-2

1. CONTRACTOR MATERIALS.
2. EXISTING SIPHON BREAKER VALVE AND PROTECTIVE PIPE RISER TO BE INSTALLED ON NEW PIPE.
3. REMOVE EXISTING 24" PIPE FROM STATION 1+51.4± TO STATION 2+58.9± (108± LF).
4. EX. CONNECTION TO DISTRIBUTION BOX APPEARS TO BE 36" DIAMETER. INSTALL NEW 24" CONNECTION TO DISTRIBUTION BOX AND REPAIR AS NECESSARY TO OBTAIN A WATER TIGHT SEAL AT THE BOX.
5. INSTALL POSITIVE CLOSURE DEVICE, CLOW VALVE COMPANY 4500 SERIES FLANGED BUTTERFLY VALVE WITH HANDWHEEL OPERATOR OR EQUIVALENT. INSTALL EXTENSION STEM AS NEEDED. INSTALL VALVE IN A CHRISTY B52 UTILITY BOX WITH 2 PIECE STEEL CHECKER PLATE LID, OR EQUIVALENT.
6. INSTALL 10' PATROL ROAD WITH 6" OF 3/4" CLASS 2 A.B. @ 95% MRC OVER COMPACTED SUBGRADE. 20' LENGTH CENTERED ON THE PIPE CROSSING. MAINTAIN 2% MINIMUM CROSS SLOPE.
7. TRANSITION TO THE EXISTING LEVEE PATROL ROAD AS SHOWN, MAINTAIN 6" OF 3/4" CLASS 2 A.B. @ 95% MRC OVER COMPACTED SUBGRADE ROAD SECTION.
8. INSTALL 108± LF OF 24" DIAMETER 3/8" WALL WELDED STEEL PIPE, SEE NOTE 11, SHEET 1, AND NOTE 1, THIS SHEET.
9. CONTRACTOR TO MAINTAIN A POSITIVE SLOPE/DRAINAGE FROM ANGLE POINT TO DISTRIBUTION BOX.
10. CONTRACTOR TO MAINTAIN A POSITIVE SLOPE/DRAINAGE FROM ANGLE POINT TO THE HIGH POINT AT THE SIPHON VALVE.
11. CAUTION!! APPROXIMATE LOCATION OF THE EXISTING UNDERGROUND ELECTRICAL CONDUIT/SERVICE TO PUMP.
12. EXISTING USBR METER AND CMP RISER SHALL BE INSTALLED ON THE NEW 24" PIPE.



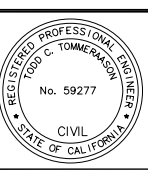
- NOTES:
- A. BACKFILL SHALL BE MECHANICALLY COMPACTED IN 6" LIFTS WITH NO JETTING
 - B. THE CONTRACTOR SHALL COORDINATE COMPACTION TESTING WITH THE PROJECT GEOTECHNICAL ENGINEER.

C TRENCH BACKFILL
NTS

DESIGNED BY <u>TCT</u>			
DRAWN BY <u>JB</u>			
CHECKED BY <u>TCT</u>			
REV.	DATE	DESCRIPTION	BY APP'D.

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BY TODD C. TOMMERAASON
 DATE P.E. 59277



24" DIAMETER PIPE REPLACEMENT FOR SACRAMENTO RIVER RANCH, LLC

YOLO COUNTY CALIFORNIA

CROSS SECTION

SCALE HORIZ.: 1"=20' VERT.: 1"=10'	SHEET 2 OF 2	CAD FILE: 3719_C02_81 DATE: 06-14-11 JOB NO. 3719
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**APPLICATION FOR A CENTRAL VALLEY FLOOD PROTECTION BOARD
ENCROACHMENT PERMIT**

Application No. _____
(For Office Use Only)

1. Description of proposed work:

SEE ATTACHMENT

2. Location: YOLO County, in Section PROJECTED SECTION 27,
Township: 11 NORTH (N) (S), Range 3 EAST (W), M. D. B. & M.

3. SACRAMENTO RIVER RANCH, LLC of 12074 COUNTY ROAD 117
Name of Applicant Address
WEST SACRAMENTO CA 95691 (916)374-9426
City State Zip Code Telephone Number
Fax Number

4. Endorsement: (of Reclamation District)
We, the Trustees of RECLAMATION DISTRICT NO. 1600
Name and District Number

approve this plan, subject to the following conditions:

- Conditions listed on back of this form Conditions Attached No Conditions

Kat A. Fay 4/21/11
Trustee Date Trustee Date

5. Names and addresses of adjacent property owners sharing a common boundary with the land upon which the contents of this application apply. If additional space is required, list names and addresses on back of the application form or an attached sheet.

SACRAMENTO RIVER RANCH, LLC 619 N. CASCADE AVE., STE. 200
Name Address Zip Code
ATTN: JOSEPH B. LEININGER COLORADO SPRINGS, CO 80903

APPLICATION FOR A CENTRAL VALLEY FLOOD PROTECTION BOARD
ENCROACHMENT PERMIT

“ATTACHMENT”

1. Description of proposed work on APN 057-030-008:

REPLACE EXISTING 24-INCH DIAMETER PIPE THROUGH LEVEE:

- a. Existing pipe removal (108± feet) will be done by open excavation. Depths of the excavation will range from 4± feet to 6± feet in the vicinity of the center of the levee to a maximum of about 10± feet at the land side distribution box.
- b. After the existing 24-inch pipe has been removed a new 24-inch pipe will be installed (108± feet) maintaining the existing siphon configuration, with the invert of the pipe above the design flood plane elevation. A positive closure device (butterfly valve) will be installed on the water side of the top of the levee and a siphon breaker will be installed at the high point of the pipe on the land side of the top of the levee.
- c. Since this request does not include any changes to the existing pipe size or location the Owners are requesting that this work be allowed as maintenance on an existing facility.
- d. This pipe has been used for decades to irrigate farm land, but in the preliminary correspondence with the CVFPB a permit was not found.

6. Has an environmental determination been made of the proposed work under the California Environmental Quality Act of 1970? Yes No Pending

If yes or pending, give the name and address of the lead agency and State Clearinghouse Number:

LEAD AGENCY: YOLO COUNTY PLANNING & PUBLIC WORKS
292 WEST BEAMER STREET
WOODLAND, CA 95695

SCH No. NONE YET


7. When is the project scheduled for construction? AS SOON AS POSSIBLE

8. Please check exhibits accompanying this application.

- A. Map showing the location of the proposed work.
- B. Drawings showing plan and elevation views of the proposed work, scale, materials of construction, etc.
- C. Drawings showing the cross section dimensions and elevations of levees, berms, stream banks, flood plain, low flow, etc.
- D. Drawings showing the profile elevations of levees, berms, flood plain, low flow, etc.
- E. Photograph depicting the project site.

9. Is the applicant acting for the owner of the proposed works? Yes No

If yes, the name, address and telephone number of the owner is


Signature of Applicant
For Sac River Ranch
Date 5-13-11

For additional information: