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

<u>1.0 – ITEM</u>

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.

<u>5.0 – PROJECT ANALYSIS</u>

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.

<u>6.0 – AGENCY COMMENTS AND ENDORSEMENTS</u>

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

 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

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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.

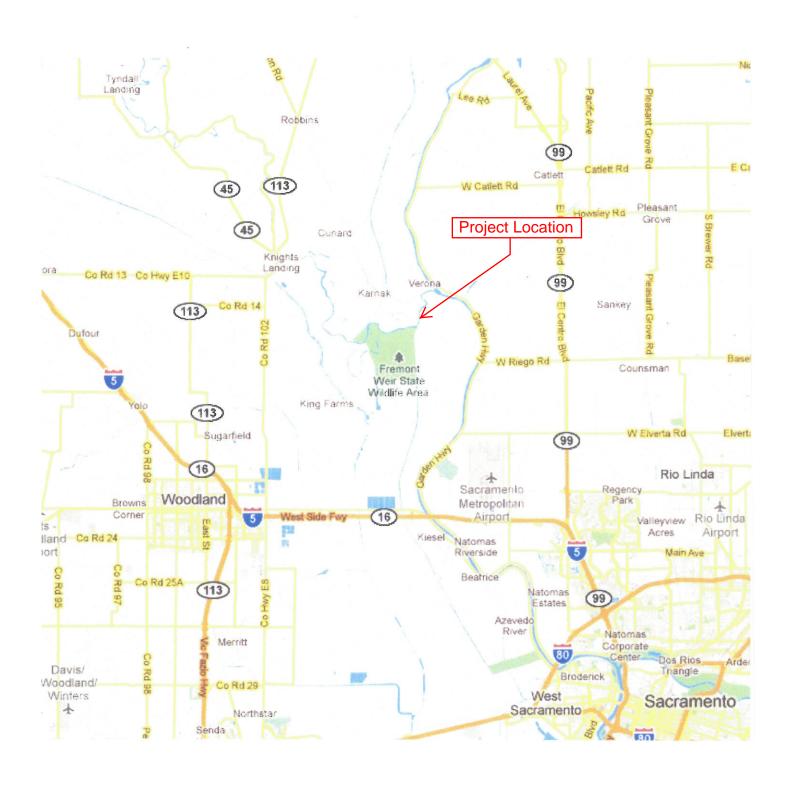
THIRTY-THREE: Compaction tests by a certified soils laboratory will be required to verify compaction of backfill within the levee section or within 10 feet of the levee toe.

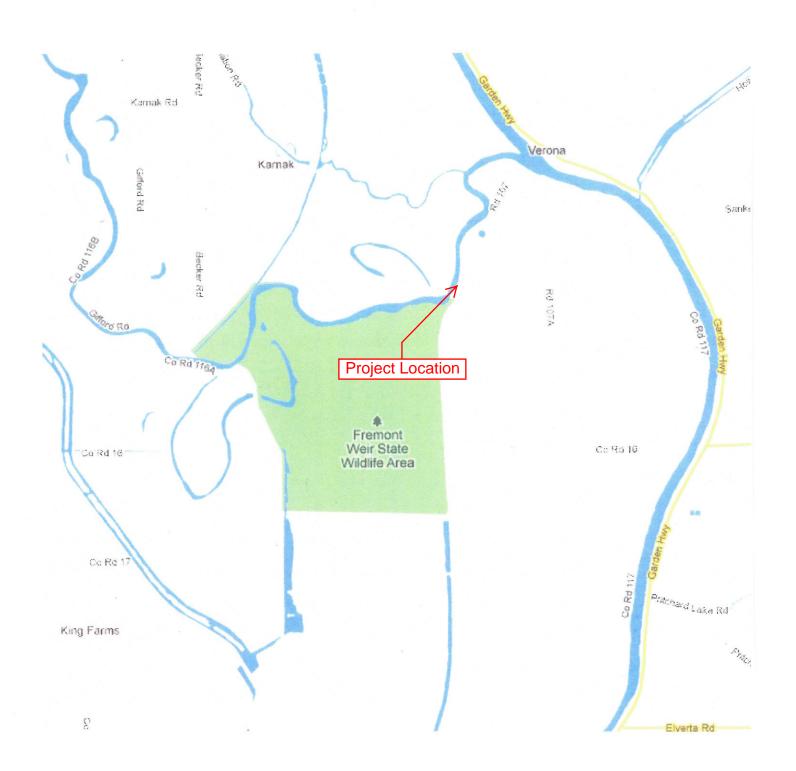
THIRTY-FOUR: All debris generated by this project shall be disposed of outside the flood control project works.

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.





\Land Projects\3719\dwg\VICINITY MAP_81.







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

<u>GENERAL NOTES:</u> 1. STANDARDS AND PLANS:

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE STATE RECLAMATION BOARD STANDARDS AND DETAILS, WITH THESE PLANS, THE PROJECT SPECIFICATIONS, AND UNLESS SHOWN OR SPECIFIED OTHERWISE, WITH THE LATEST EDITIONS OF THE STATE ("CALTRANS") STANDARD SPECIFICATIONS AND
- . IT IS INTENDED THAT THESE PLANS AND SPECIFICATIONS REQUIRE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS. THE ENGINEER'S INTERPRETATION OR CORRECTION THEREOF SHALL
- WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.
- THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS AND THE STATE DEPARTMENT OF WATER RESOURCES.
- EXISTING UTILITIES AND COORDINATION OF WORK:
 - . THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE IMPROVEMENT PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. LAUGENOUR AND MEIKLE, HEREINAFTER DESIGNATED AS THE ENGINEER, ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER DIVISION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH ARE NOT SHOWN ON
- . IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR EXCAVATION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES INVOLVED AND REQUESTING A VISUAL VERIFICATION OF THE LOCATIONS OF THEIR UNDERGROUND FACILITIES. THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR OF THE SCHEDULED TIME AND PLACE OF SUCH VISUAL VERIFICATION TO ENABLE SAID FIRM TO HAVE A REPRESENTATIVE PRESENT.

CONSTRUCTION STAKING

CONSTRUCTION STAKING SHALL BE FURNISHED BY THE OWNER. THE CONTRACTOR SHALL BE PROVIDED WITH ONE SET OF CONSTRUCTION STAKES FOR EACH PHASE OF THE WORK. THE CONTRACTOR SHALL REQUEST CONSTRUCTION STAKES FOR ANY PARTICULAR PHASE OF WORK AT LEAST 48 HOURS PRIOR TO THE DATE OF THE PLANNED USE OF THE STAKES. IT SHALL THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE STAKES DURING THE CONSTRUCTION OF THE VARIOUS PHASES OF WORK REPLACEMENT OF STAKES DESTROYED BY CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE.

CONFLICTS:

THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PERFORMING ANY CORRECTIVE ACTION REQUIRED DUE TO UNFORESEEN CONFLICTS IN THE IMPROVEMENT PLANS OR DUE TO POSSIBLE STAKING ERRORS. THE ENGINEER ASSUMES NO LIABILITY FOR THE COST OR DESIGN OF ANY MODIFICATION PERFORMED WITHOUT SUCH NOTIFICATION, AND ALSO ASSUMES LIABILITY FOR STAKING PROVIDED BY OTHERS.

- PUBLIC SAFETY AND TRAFFIC CONTROL:
- ONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ANY CURRENTLY APPLICABLE SAFETY LAW OF ANY JURISDICTIONAL BODY. THE CONTRACTOR IS DIRECTED TO CONTACT THE STATE INDUSTRIAL RELATIONS DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES, AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION APPLA CORD AND TRAFFIC WITHIN AND AROUND THE CONSTRUCTION APPLA CORD AND TRAFFIC WITHIN AND AROUND THE CONSTRUCTION APPLA CORD AND TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA FOR ALL TRENCH EXCAVATIONS 5 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE DIVISION OF INDUSTRIAL SAFETY, PRIOR TO BEGINNING ANY EXCAVATION.
- CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THE PERSONS AND PROPERTY; THAT THE PERSONS AND PROPERTY; THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

6. ENCROACHMENT PERMITS:

UNLESS SPECIFIED OTHERWISE, THE CONTRACTOR SHALL OBTAIN THE NECESSARY ENCROACHMENT PERMITS FROM THE UBIAIN THE NECESSARI ENGROPHICAL AGENCIES (OTHER THAN THE STATE RECLAMATION BOARD)
HAVING JURISDICTION PRIOR TO COMMENCING ANY WORK. THE
CONTRACTOR SHALL NOTIFY THE STATE DEPARTMENT OF WATER RESOURCES AT LEAST 72 HOURS PRIOR TO THE INTENT TO

FARTHWORK

- I. EARTHWORK SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PREPARE THE SITE FOR TRENCHING. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE DISPOSAL OF EXCESS EXCAVATION OR FOR THE IMPORT OF MATERIAL. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN ADVANCE OF ANY CHANGES HE MAY DEEM NECESSARY TO CRETAIN CITT—FULL BALL ANCE
- ALL AREAS WHICH ARE TO BE BACKFILLED SHALL FIRST BE WATERED IF NECESSARY TO ACHIEVE THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO NINETY PERCENT (90 %) RELATIVE COMPACTION IN ACCORDANCE WITH ASTM D-1557
- ALL BACKFILL SHALL BE COMPACTED IN 6" LAYERS WITH A
- A GEOTECHNICAL ENGINEER SHALL OBSERVE THE GRADING ACTIVITIES AND PERFORM COMPACTION TESTING FOR THIS PROJECT. THE CONTRACTOR SHALL PROVIDE AT LEAST 24 HOURS NOTICE TO THE GEOTECHNICAL ENGINEER OF THE N FOR OBSERVATION AND TESTING SERVICES. THE PROJECT OWNER WILL PAY FOR THE COST OF PROVIDING THESE SERVICES; HOWEVER, IF SAMPLES OF MATERIALS ARE SUBMITTED WHICH FAIL TO PASS THE SPECIFIED TESTS OR WORK IS PERFORMED WHICH FAILS TO MEET THESE SPECIFICATIONS, THE CONTRACTOR SHALL PAY FOR ALL SUBSEQUENT RE-TESTS AND RE-INSPECTIONS.
- THE CONTRACTOR SHALL APPLY EITHER WATER OR DUST PALLIATIVE, OR BOTH, FOR THE ALLEVIATION OR PREVENTION

8. PIPELINES:

PIPE ZONE BACKFILL (I.E. MATERIAL BENEATH AND IN THE IMMEDIATE VICINITY OF THE PIPE) SHALL CONSIST OF NATIVE OR IMPORTED SOIL LESS THAN ONE INCH IN MAXIMUM DIMENSION: TRENCH ZONE BACKFILL (I.E. MATERIAL PLACED BETWEEN THE PIPE ZONE BACKFILL AND FINISHED SUBGRADE) MAY CONSIST OF NATIVE SOIL PLACED AND COMPACTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

RECORD DRAWINGS

THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE COMPLETE SET OF UPDATED "RECORD DRAWING" IMPROVEMENT PLAN PRINTS; THESE PRINTS SHALL BE READLY AVAILABLE TO THE ENGINEER. UPON COMPLETION OF THE PROJECT THESE RECORD DRAWING PRINTS SHALL BE SUBMITTED TO THE ENGINEER.

INSURANCE:

CONTRACTOR SHALL MAINTAIN SUCH INSURANCE AS WILL CONTRACTOR SHALL MAINTAIN SUCH INSURANCE AS WILL PROTECT IT FROM CLAIMS UNDER WORKERS' COMPENSATION ACTS AND FROM CLAIMS FOR DAMAGES BECAUSE OF BODILY INJURY, INCLUDING DEATH, OR INJURY TO PROPERTY WHICH MAY ARISE FROM AND DURING THE OPERATION OF THIS CONTRACT. INSURANCE COVERAGE SHALL INCLUDE PROVISION OR ENDORSEMENT NAMING THE OWNER, THE ENCINEER AND HIS CONSULTANTS, AND EACH OF THEIR OFFICERS, EMPLOYEES AND ACCEIVE FACULAE ADDITIONAL WISCHED IN ECCAPOSE TO CONSULTAIN'S, AND EACH OF THEIR OFFICERS AND AGENTS, EACH AS ADDITIONAL INSURED IN REGARDS TO LIABILITY ARISING OUT OF THE PERFORMANCE OF ANY WORK UNDER THE CONTRACT. A CERTIFICATE OF SUCH INSURANCE SHALL BE FURNISHED TO THE OWNER PRIOR TO COMMENCEMENT OF ANY WORK.

11. DISCHARGE PIPE:

A. SCOPE OF WORK:

THE WORK COVERED BY THIS SECTION CONSISTS OF THE MORN COVERED BY THIS SECTION CONSISTS OF FURNISHING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT REQUIRED TO PERFORM ALL OPERATIONS REQUIRED FOR FURNISHING AND INSTALLING PIPES, FITTINGS AND APPURTENANCES AS SPECIFIED HEREIN AND AS SHOWN ON

B. WELDED STEEL PIPE:

ALL NEW WELDED STEEL PIPE SHALL BE INSTALLED WHERE SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE PROVISIONS OF SECTION 70 OF THE STATE STANDARD

PROTECTIVE COATING (SOIL PROOFED):

THE STEEL PIPE INSTALLATIONS ARE CORROSION-PROOFED EXTERNALLY WITH A COATING OF MATERIAL SUCH AS COAL—TAR ENAMEL, ASPHALT—DIPPED WRAP, MORTAR, PVC TAPE, OR POLYETHYLENE TAPE WRAPPED TO A THICKNESS OF THIRTY (30) MILS. HIGH SOLIDS FPOXY, OR FOULVALENT.

ii. UNLESS A CONTINUOUS INTERNAL LINING OF CEMENT, MORTAR, OR EQUIVALENT IS PROVIDED, AS APPROPRIATE FOR THE FLUID TO BE CONVEYED, NEW STEEL PIPE INSTALLATIONS MAY CONVEY ONLY NON-CORROSIVE MATERIAL, AND WATER IS CONSIDERED CORROSIVE.

D. TRENCH EXCAVATION:

THE CONTRACTOR SHALL DO ALL EXCAVATION OF WHATEVER SUBSTANCE ENCOUNTERED TO THE DEPTH SHOWN ON THE PLANS. EXCESS EXCAVATION BELOW REQUIRED LEVELS SHALL BE BACK-FILLED AT THE CONTRACTORS EXPENSE WITH EARTH AS DIRECTED BY THE ENGINEER AND THOROUGHLY

BRACING AND SHORING SHALL BE PROVIDED TO PROTECT ALL EXCAVATION AS REQUIRED FOR SAFETY OR TO CONFORM TO STATE LAWS.

PIPE HANDLING AND INSTALLATION:

DURING LOADING, TRANSPORTING AND UNLOADING, CARE SHALL BE TAKEN TO PREVENT INJURY TO THE PIPE AND COATING. PIPE SHALL NOT BE ALLOWED TO DROP FROM TRUCKS OR TRAILERS, NOR SHALL IT BE ALLOWED TO ROLL DOWN SKIDS WITHOUT PROPER RETAINING ROPES. DURING TRANSPORTATION, PIPE SHALL REST ON SUITABLE PADS, SKIDS OR BLOCKS AND SHALL BE SECURELY WEDGED OR TIED IN PLACE. ALL STAKES AND TIER SPACING STRIPS SHALL BE PADDED TO PREVENT ABRASION OF THE COATING.

PIPE SHALL BE INSTALLED TRUE TO LINE AND GRADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR INJURY TO THE STEEL PIPE OR COATING PRIOR TO FINAL ACCEPTANCE OF THE WORK.

PIPE SHALL BE CARRIED INTO FINAL POSITION AND NOT DRAGGED. PINCH BARS, TONGS OR HOOKS FOR HANDLING, ALIGNING OR TURNING PIPE SHALL BE USED ONLY ON THE BARE ENDS OF THE PIPES. CHAINS OR METAL CABLES SHALL NOT COME IN CONTACT WITH THE PIPE COATING. IF POLES ARE USED AS LEVERS FOR REMOVING SKIDS FROM THE ARE USED AS LEVERS FOR REMOVING SKIDS FROM THE TRENCH, THEY SHALL BE OF WOOD WITH BROAD FLAT SURFACES TO PREVENT DAMAGE TO THE PIPE SURFACE. IF BELT SLINGS ARE USED FOR ROLLING THE PIPE, CARE SHALL BE TAKEN SO THAT WHEN THE SLING IS WITHDRAWN FROM UNDER THE LOWERED PIPE, THE COATING WILL NOT BE

ALL "HOLIDAYS" (THIN OR BARE SPOTS) AND DAMAGE TO THE PIPE COATING SHALL BE THOROUGHLY CLEANED, PRIMED, AND COATED WITH A HIGH SOLIDS EPOXY OF THE SAME SPECIFICATIONS AS THE ORIGINAL COATING.

THE TRENCH FOR THE PIPE SHALL BE PREPARED BY THE REMOVAL OF ALL MATERIALS, DEBRIS, OR OTHER OBJECTS LIABLE TO CAUSE EXCESSIVE PRESSURE AGAINST THE COATING, BY LAYING ALONG THE TRENCH BOTTOM SUFFICIENT FINE—TEXTURED SOIL OR SAND TO GIVE UNIFORM WEIGHT DISTRIBUTION AFTER THE PIPE IS LOWERED. CARE SHALL BE EXERCISED WHEN LOWERING THE PIPE INTO THE TRENCH, FINE SOIL FREE OF HARD OBJECTS SHALL BE USED FOR BACKFILL ADJACENT TO THE PIPE.

BACKFILLING:

IT IS THE INTENT OF THESE SPECIFICATIONS TO SECURE AN EMBANKMENT HAVING THE DENSITY INDICATED WITH THE APPROPRIATE MOISTURE CONTENT TO ACHIEVE THE DESIRED COMPACTION. THE CONTRACTOR SHALL BE REQUIRED TO PRE-WET THE MATERIAL, IF NECESSARY, IN THE EXCAVATION AREA OR TO UNIFORMLY DISTRIBUTE SUFFICIENT MOISTURE IN EACH SIX INCH (6") LAYER BEFORE TAMPING TO OBTAIN

AFTER EACH SIX INCH (6") LAYER HAS BEEN PLACED, MIXED AND SPREAD EVENLY, IT SHALL BE THOROUGHLY COMPACTED TO NOT LESS THAN NINETY PERCENT (90%) RELATIVE COMPACTION IN ACCORDANCE WITH ASTM D-1557 AT OR ABOVE OPTIMUM MOISTURE (OR AS OTHERWISE NOTED ON THE DRAWINGS). COMPACTION SHALL BE BY MEANS OF POWER DRAWINGS, COMPACTION SHALL BE IT MEANS OF POWER
TAMPING OR OTHER EQUIPMENT SATISFACTORY TO THE
ENGINEER. COMPACTION OF EACH LAYER SHALL BE
CONTINUOUS OVER ITS ENTIRE AREA, AND THE TAMPER SHALL
MAKE SUFFICIENT TRIPS TO INSURE THAT THE DESIRED DENSITY HAS BEEN ATTAINED.

FIELD DENSITY TESTS SHALL BE MADE BY THE SOILS ENGINEER AFTER COMPACTING EACH LAYER OF FILL. NO ADDITIONAL LAYERS OF FILL SHALL BE MADE UNTIL THE FIELD DENSITY TESTS INDICATE THAT THE SPECIFIED DENSITY HAS BEEN ATTAINED. IF THE PERCENT COMPACTION IS NOT SATISFACTORY, THE CONTRACTOR WILL BE REQUIRED TO INCREASE THE WEIGHT OF THE TAMPER AND/OR THE NUMBER OF PASSES REQUIRED TO GIVE THE SPECIFIED DENSITY.

18679 Plans C-1

EXISTING PERMIT INFORMATION:

NO PERMIT INFORMATION WAS FOUND IN OUR ORIGINAL CORRESPONDENCE WITH THE CVFPB. INSTALLATION DATE IS UNKNOWN, BUT THIS PIPE HAS BEEN IN USE FOR DECADES.

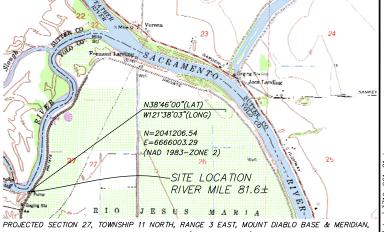
DATUM CONVERSION:

NGVD29 = NAVD88 - 1.78' $U.S.E.D. = NGVD29 + 2.97'\pm$ $U.S.E.D. = NAVD88 + 1.19'\pm$

PER U.S.E.D. TIE TO USGS DISC STAMPED "75 190441." USGS DISC INCLUDED IN 1961 DWR LEVEL RUN FROM ELKHORN FERRY TO KNIGHTS LANDING.

VICINITY MAP





YOLO COUNTY, CALIFORNIA. APN: 057-030-008 (531.76± ACRES)

24" DIAMETER PIPE REPLACEMENT

TITLE SHEET

NONE CAD FILE: 3719 CO1 8 06-14-1 DATF.

JOB NO.

SCALE

SHEET

OF-

SACRAMENTO RIVER RANCH, LLC YOLO COUNTY CALIFORNIA

BY_

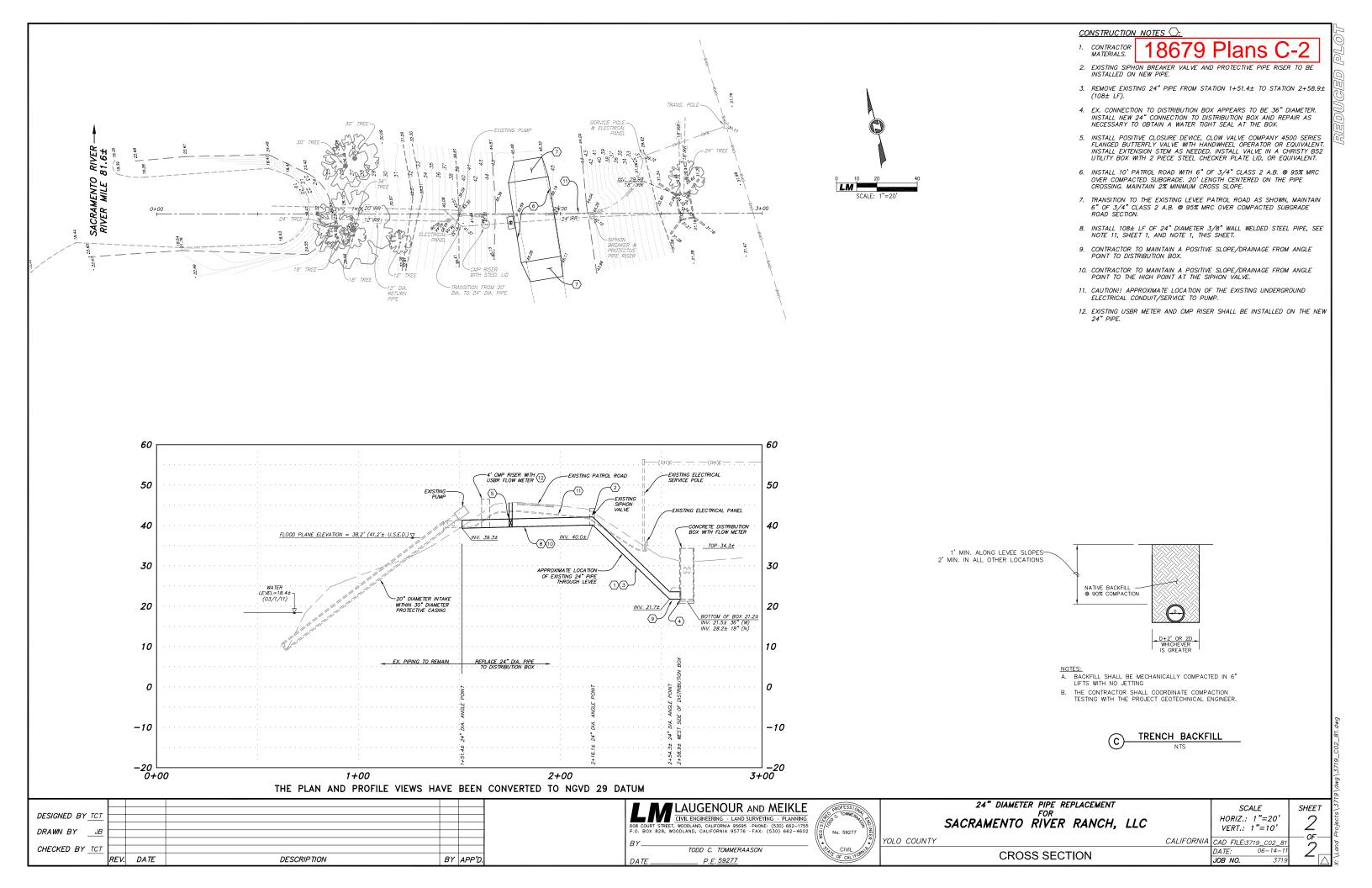
DATE

LAUGENOUR AND MEIKLE LAUGENOUK AND MEINLE
CIVIL ENGINEERING - LAND SURVEYING - PLANNING
608 COURT STREET, WOODLAND, CALIFORNIA 95695 - FHONE: (530) 662–4602
P.O. BOX 828, WOODLAND, CALIFORNIA 95776 - FAX: (530) 682–4602 TODD C. TOMMERAASON

P.E.<u>59277</u>

RENCHMARK DESIGNED BY TCT ELEV. = 39.80PID: .IS2338 DRAWN BY DESIGNATION: FERRY 2 1/2" BRASS DISC NGS STATION DESIGNATION "FERRY" CHECKED BY TCT DATE DESCRIPTION BY APP'D REV.

No. 59277



State of California

DEPARTMENT OF WATER RESOURCES CENTRAL VALLEY FLOOD PROTECTION BOARD

California Natural Resources Agency

APPLICATION FOR A CENTRAL VALLEY FLOOD PROTECTION BOARD ENCROACHMENT PERMIT

		Application No.				
				-	(For Office Use Only)	
1	Description of proposed work:					
••	becompaint of proposed work.					
SE	E ATTACHMENT					
0	Lacation VOLO		0	DDO ISOTED O	FOTION OF	
2.	Location: YOLO	(11)	County, in Section	PROJECTED S	SECTION 27 ,	
	Township: 11 NORTH	(N) (S), Range	3 EAST	(W), M. D. B. & N	Л	
	Tewnomp. Trivorviii	(0), range	0 12/101	((, , , , , , , , , , , , , , , , , ,		
3.	SACRAMENTO RIVER RAI	NCH. LLC	of 120	74 COUNTY ROA	D 117	
	Name of Applicant			Address		
Ň	WEST SACRAMENTO	CA	95691	(91	6)374-9426	
	City	State	Zip Code		phone Number	
					Fax Number	
1	Endorsement: (of Reclamation Distric	+ \				
4.	14/- U- T- 1	DEC	CLAMATION DISTRICT	NO 1600		
	vve, the Trustees of	INL	Name and District Number			
		114				
apı	prove this plan, subject to the following	conditions:				
	Conditions listed on back of this fo	rm 🔲 (Conditions Attached	⊠ No Co	onditions	
		8				
	Kat A for	4/21/11				
Tru	stee	Date	Trustee		Date	
		TROPOGRAPHICA STATE OF THE STAT				
5.	Names and addresses of adjacent pro	onerty owners sh	aring a common bounda	ry with the land un	on which the	
0.	contents of this application apply. If a					
	application form or an attached sheet					
	SACRAMENTO RIVER RANCH, LLC	619 N	I. CASCADE AVE., STE	200		
	Name		Address		Zip Code	
	ATTN: JOSEPH B. LEININGER	CC	DLORADO SPRINGS, C	0	80903	
	, , , , , , , , , , , , , , , , , , ,		LOTA LOO OF MINOO, O		00000	
20000	\$1.00 (10 m) 10 m)					

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
lf y	es or pending, give the name and address of the lead agency and State Clearinghouse Number:
LE	AD 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?
If y	res, the name, address and telephone number of the owner is
Fo	Signature of Applicant Date For Sac Rue Rand