

**Meeting of the Central Valley Flood Protection Board
July 22, 2011**

Staff Report

**George Turkmany, Two Rivers RV Park
Stanislaus River
(San Joaquin County)**

1.0 – ITEM

Consider approval of Permit No. 18586 (Attachment B).

2.0 – APPLICANT

George Turkmany, Two Rivers RV Park
PO Box 1424
Manteca, CA 95336
APN 257-090-19

3.0 – LOCATION

The project is located south of Manteca at 31011 South Two Rivers Road on the north (right) bank of the Stanislaus River in San Joaquin County (see Attachment A).

4.0 – DESCRIPTION

Consider approval of Permit No. 18586 to authorize an 8-inch diameter, 80-foot-deep PVC domestic water well with a submersible pump on the overflow area of the north (right) bank levee of the Stanislaus River.

5.0 – PROJECT ANALYSIS

The new well serves a transient, non-community small public water system consisting of RV service connections, a mobile home, mini-market, campsites, and laundry and bathroom facilities. This permit supersedes Permits No. 6832 (1969), No. 6832-A (1972) and No. 6832-B (1974), in which the Reclamation Board (now the Central Valley Flood Protection Board) authorized the RV Park and its facilities.

The new well replaces the old well that had deteriorated and was no longer reliable to deliver water free of bacteriological contaminants. The San Joaquin County Environmental Health Department (EHD) had issued a notice in August of 2009 to replace the well immediately with one that would meet State and local well construction requirements, as well as required drinking water standards. The abandonment of the old well was permitted and inspected by the San Joaquin County EHD.

The new well is located approximately 350 feet north of the bank of the Stanislaus River and approximately 350 feet east of the bank of the San Joaquin River. The well and its appurtenances are located more than 10 feet from the water side levee toe.

5.1 – Hydraulic Analysis

A floodway blockage analysis was performed for this project (see Attachment D) using the USACE Levee EGIS System tool and USACE Sacramento District recommended floodway blockage analysis methods. The analysis found that the well and associated structures will block less than 0.6 percent of the floodway width. The new well is an insignificant blockage and therefore Staff recommends that a hydraulic analysis not be required.

5.2 – Geotechnical Analysis

No projections into levees will occur as a result of this project; therefore, a geotechnical analysis was not necessary for the project.

6.0 – AGENCY COMMENTS AND ENDORSEMENTS

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

- San Joaquin County Flood Control and Water Conservation District endorsed the project, with conditions, by letter dated February 23, 2010. The letter will be incorporated into the permit as Exhibit A (see Attachment B).
- Reclamation District 2064 endorsed the project, without conditions, by letter dated February 25, 2011. The letter will be incorporated into the permit as Exhibit B (see Attachment B).
- 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 C (see Attachment B).

7.0 – CEQA ANALYSIS

Board staff has prepared the following CEQA Findings:

The Board, acting as the CEQA lead agency, has determined that the project is categorically exempt from CEQA under a Class 1 Categorical Exemption (CEQA Guidelines Section 15301) covering minor alteration of existing public or private structures involving negligible or no expansion of use.

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 performed 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:

This project does not have significant impacts on the State Plan of Flood Control, as the project does not impair the structural or hydraulic functions of the system.

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

Future events, changes in hydrology and climate may increase flows in the Stanislaus River, which in turn would increase the flood risk for the project.

9.0 – STAFF RECOMMENDATION

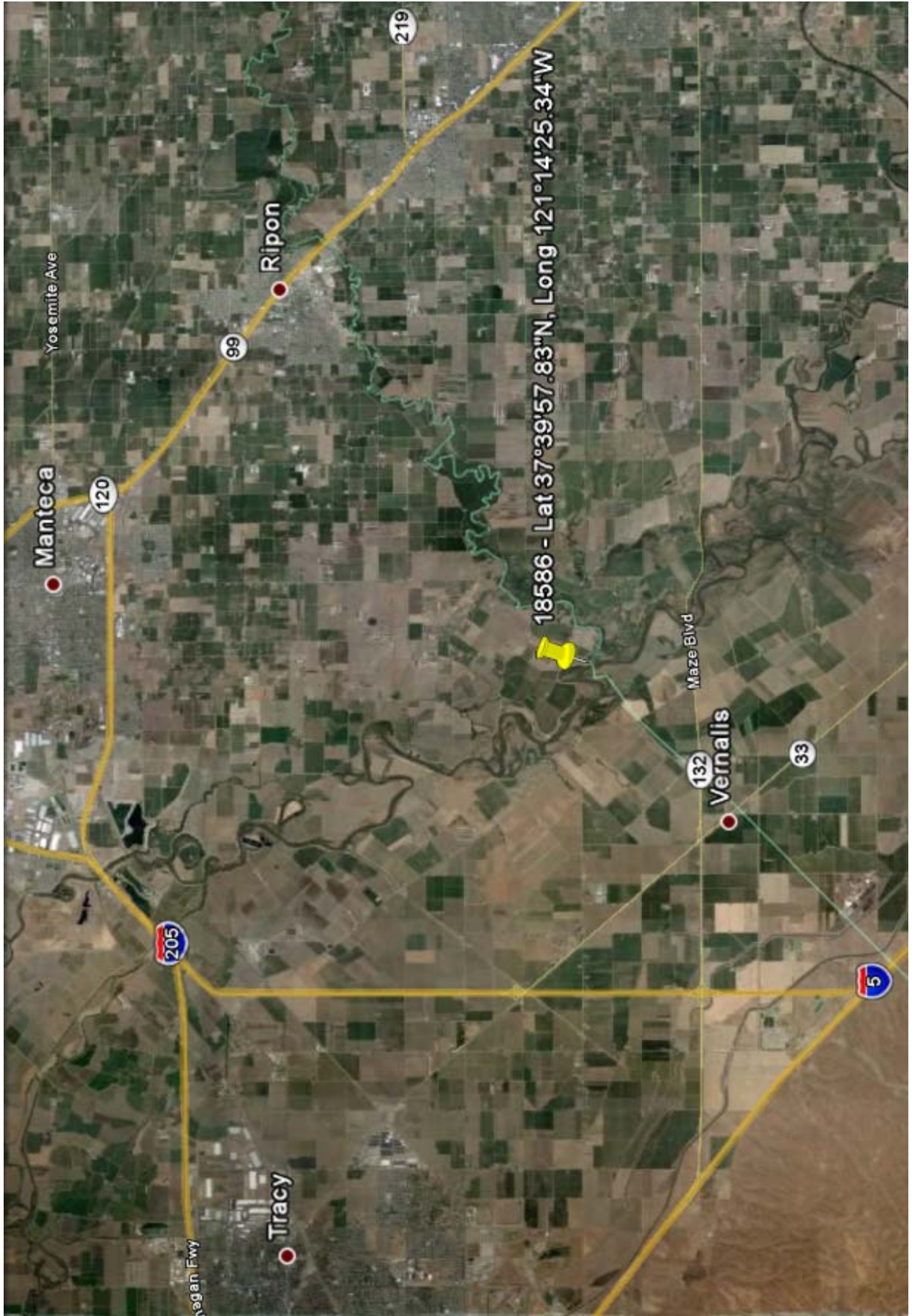
Staff recommends that the Board determine the project be exempt from CEQA, approve the permit conditioned upon receipt of a favorable U.S. Army Corps of Engineers comment letter, and direct staff to file a Notice of Exemption with the State Clearinghouse.

10.0 – LIST OF ATTACHMENTS

- A. Location Maps
- B. Draft Permit No. 18586
 - a. Exhibit A
 - b. Exhibit B
- C. Plans and Drawings
- D. Floodway Blockage Analysis

Design Review:	Alison Tang, P.E.
Environmental Review:	James Herota and Andrea Mauro
Document Review:	Ali Porbaha, P.E., Curt Taras, P.E. MSCE, Len Marino, P.E.

ATTACHMENT A
EP #18586 BD



ATTACHMENT A
EP #18586 BD



DRAFT

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

PERMIT NO. 18586 BD

This Permit is issued to:

George Turkmany
PO Box 1424
Manteca, California 95336

To authorize a domestic water well to replace and properly abandon an existing deficient well consisting of an 8-inch-diameter, approximately 80-foot-deep (PVC) well with a submersible pump on the overflow area of the right (north) bank levee of the Stanislaus River. The project is located south of Manteca at 31011 South Two Rivers Road (Section 19, T3S, R4E, MDB&M, San Joaquin County Flood Control and Water Conservation District, Stanislaus River, San Joaquin 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. 18586 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 approval of the Central Valley Flood Protection Board.

FOURTEEN: 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.

FIFTEEN: 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

SIXTEEN: The permittee shall maintain the permitted encroachment(s) and the project works within the utilized area in the manner required and as requested by the authorized representative of the Department of Water Resources or any other agency responsible for maintenance.

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: The Central Valley Flood Protection Board, Department of Water Resources, San Joaquin County Flood Control & Water Conservation District and Reclamation District No. 2064 shall not be held liable for any damages to the permitted encroachment(s) resulting from flood fight, operation, maintenance, inspection, or emergency repair.

NINETEEN: 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 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 at the permittee's expense.

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

TWENTY-ONE: 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.

TWENTY-TWO: No construction work of any kind shall be done during the flood season from November 1 to July 15 without prior approval of the Central Valley Flood Protection Board.

TWENTY-THREE: All debris generated by this project shall be disposed of outside the floodway and off the levee section.

TWENTY-FOUR: The permittee shall comply with all conditions set forth in the letter from the Department of the Army dated XXX XX, 2011, which is attached to this permit as Exhibit C and is incorporated by reference.

TWENTY-FIVE: Any additional encroachments on the levee section or waterward berm require an approved permit from the Central Valley Flood Protection Board and shall be in compliance with the Central Valley Flood Protection Board's regulations (Title 23 California Code of Regulations).



SAN JOAQUIN COUNTY

**FLOOD CONTROL & WATER
CONSERVATION DISTRICT**

P. O. BOX 1810

1810 EAST HAZELTON AVENUE
STOCKTON, CALIFORNIA 95201
TELEPHONE (209) 468-3000
FAX NO. (209) 468-2999

**ATTACHMENT B
EXHIBIT A
18586 BD**

THOMAS R. FLINN
DIRECTOR OF PUBLIC WORKS
FLOOD CONTROL ENGINEER

February 23, 2010

Central Valley Flood Protection Board
3310 El Camino Avenue
Sacramento, California 95821

Attention: Mr. Jon Yego, Chief
Floodway Protection Section

SUBJECT: CENTRAL VALLEY FLOOD PROTECTION BOARD PERMIT APPLICATION OF
GEORGE TURKMANY, ASSESSOR'S PARCEL NO. 257-090-11, STANISLAUS RIVER
AT THE CONFLUENCE WITH THE SAN JOAQUIN RIVER

Gentlemen:

Reference is made to the Central Valley Flood Protection Board Permit Application of George Turkmany to construct a replacement drinking water well with a submersible pump for an existing RV park within the Stanislaus/San Joaquin River floodway.

The project is located at 31011 South Two Rivers Road in San Joaquin County, on the right (north) bank of the Stanislaus River at the confluence with the San Joaquin River, in Section 19, Township 3 South, Range 7 East, Mount Diablo Base and Meridian, San Joaquin County Assessor's Parcel No. 257-090-11.

The San Joaquin County Flood Control and Water Conservation District (District) has reviewed the Central Valley Flood Protection Board Permit Application of George Turkmany and endorses the project subject to the following conditions:

STANDARD CONDITIONS

1. The District shall not be liable for maintenance of the facilities specified in this application.
2. The District shall not be liable for any damage or repairs needed to the facilities due to the District's operation and maintenance of the Stanislaus River.
3. The Permittee shall be responsible for the modification or possible removal of the facilities, as requested by the District, if required for any future flood control plans at the applicant's sole cost and expense.
4. The Permittee shall be liable for any damage to the Stanislaus River that may occur as a result of this project.
5. The project shall be constructed in accordance with the plans submitted with the application dated November 24, 2009. Any revisions to the project will require submittal of the revised plans to the District for review and approval.

Central Valley Flood Protection Board
PERMIT APPLICATION OF
GEORGE TURKMANY

-2-

6. No work shall be allowed in the Stanislaus River floodway between November 1st and April 15th without prior approval from the Central Valley Flood Protection Board and the District.
7. The Permittee shall properly maintain the encroachment(s), in accordance with applicable current or future local, State, and Federal standards.

SPECIAL CONDITIONS

8. The well head shall be elevated a minimum of two feet above the base flood elevation of 39 feet referenced to the North American Vertical Datum of 1988; or the well head shall be sealed to prevent the infiltration of floodwaters into the well. Certification of the well head elevation shall be provided to the District upon completion of construction.

If there are any questions regarding these comments, please contact me at (209) 953-7617.

Sincerely,



MARK W. CONNELLY
Engineering Services Manager

MWC:SC:to
FM-10B045-T1

Reclamation District 2064
P O Box 690695
Stockton, CA 95269

February 25, 2011

Mr. Ali Porbaha
Central Valley Flood Protection Board
3310 El Camino Avenue, Room 151
Sacramento, CA 95821


Re: Application No. 18586

Dear Mr. Porbaha:

Please be advised that I am president of the Board of Trustees for Reclamation District 2064. The purpose of this letter is to serve as Reclamation District 2064's endorsement of the afore-mentioned application. The District has concluded that the application that Mr. Turkmany will not interfere with the District's maintenance and operation of its levee systems.

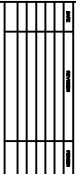
Should you have any questions or concerns, please do not hesitate to contact me.

Very truly yours,


DONALD MACHADO
President

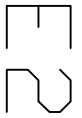
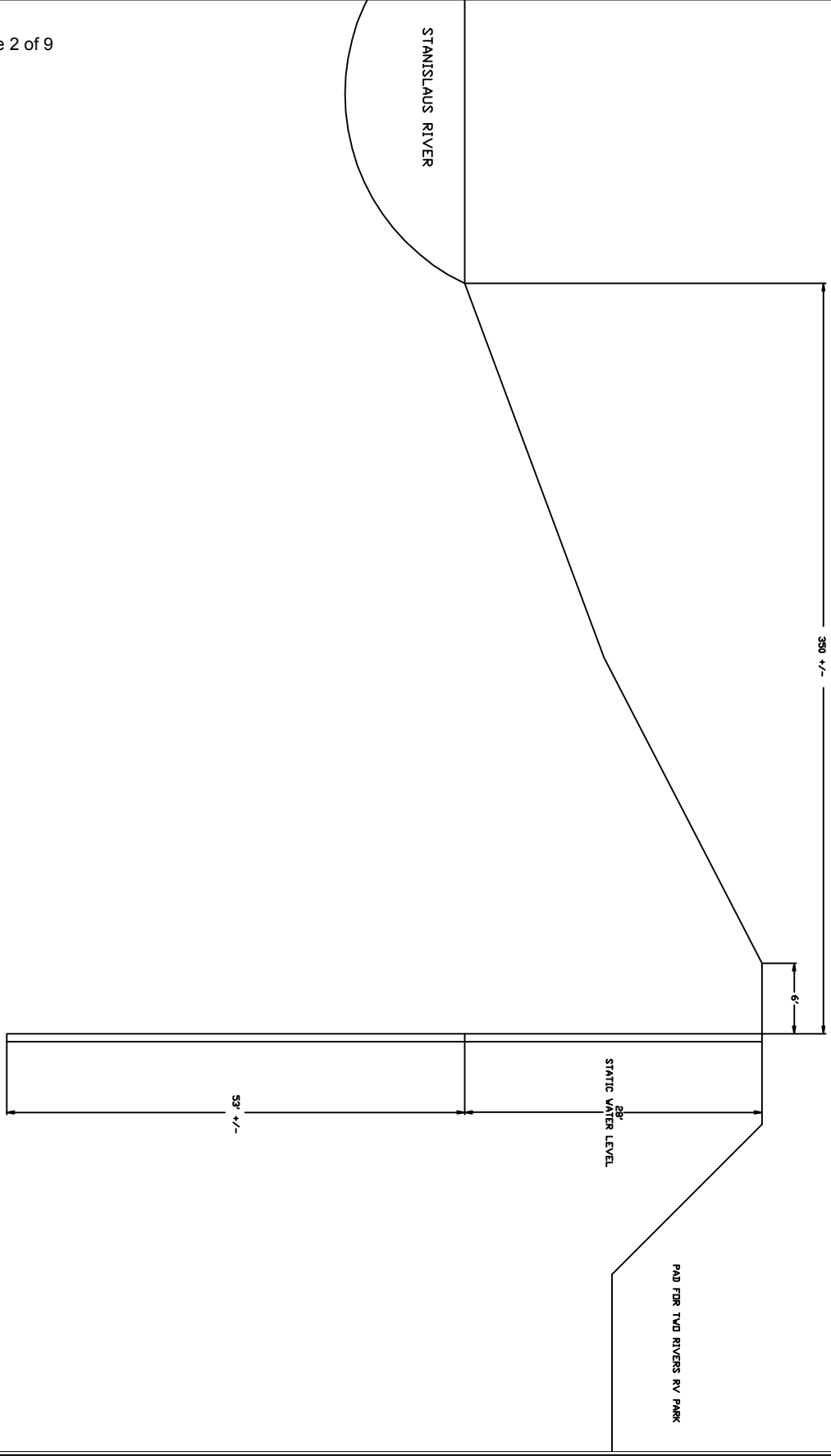


ET



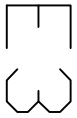
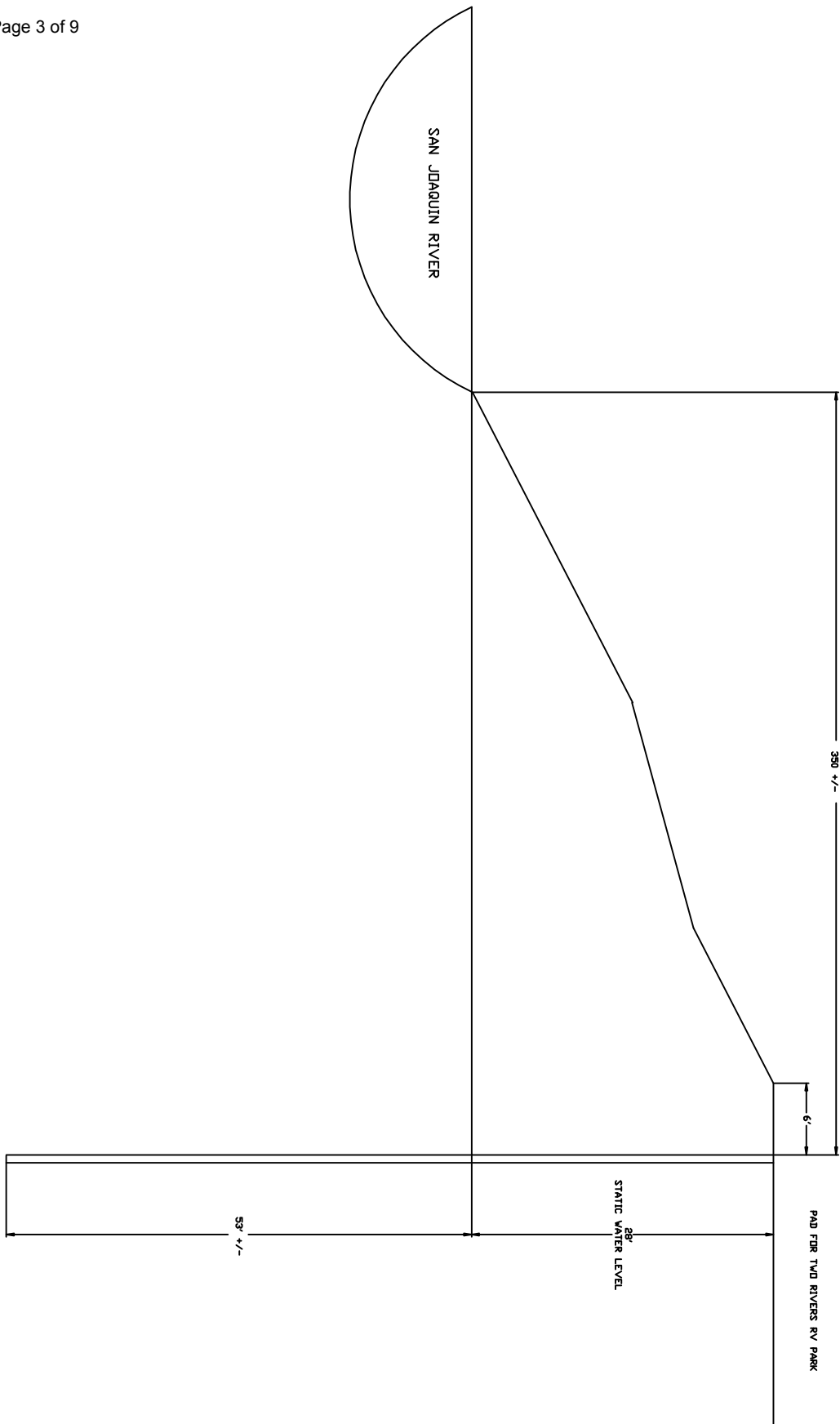
TWO RIVERS
SITE REFERENCE

KNICKERBOCKER
ELECTRICAL SERVICES
OAKDALE, CA 95361
(209) 847-9410



TWO RIVERS STANISLAUS RIVER WELL DETAIL

**KNICKERBOCKER
ELECTRICAL SERVICES
OAKDALE, CA 95361
(209) 847-9410**



TWO RIVERS SAN JOAQUIN RIVER DETAIL

KNICKERBOCKER
ELECTRICAL SERVICES
OAKDALE, CA 95361
(209) 847-9410

Tang, Alison

From: Steven Knickerbocker [twerpkkbk@yahoo.com]
Sent: Thursday, May 19, 2011 12:21 PM
To: Tang, Alison
Subject: 2 Rivers information
Attachments: Letter to Allison Tang 2 Rivers.odt; 2 Rivers Specs.doc; 2 Rivers Specs2.doc; 2 Rivers Specs3.doc

Ms. Tang-

Attached are the drawings for the 2 Rivers project as well as a letter detailing the drawings and the work that has been done.

Please let us know if there are any questions.

Thank you.

Steven Knickerbocker
Wilkins Pump/ Knickerbocker Electric

WILKINS PUMP / KNICKERBOCKER ELECTRIC, INC.

223 N. Sierra Ave.
Oakdale, CA 95361
Lic. #412773
209-848-8181 FAX 209-848-8118

May 19, 2011

Ms. Tang-

Per your request:

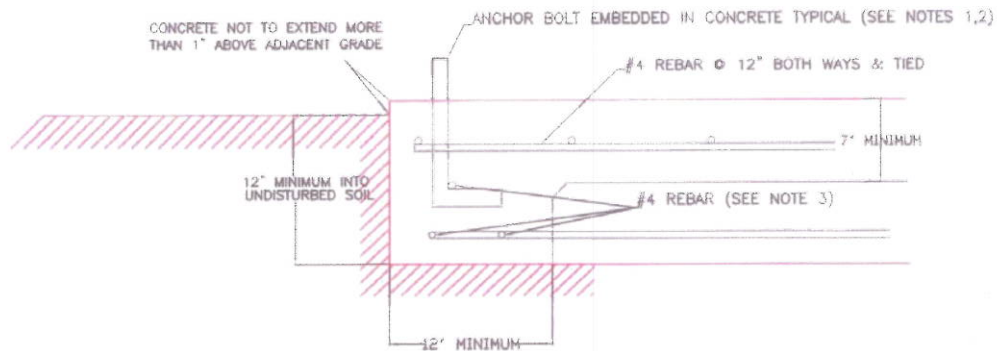
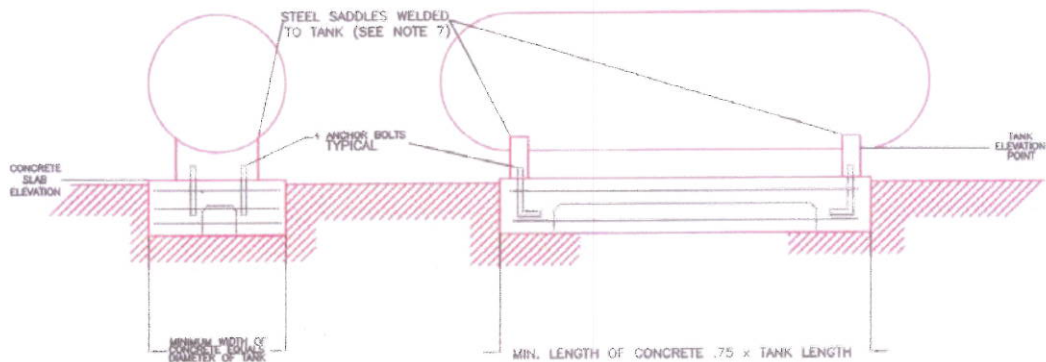
1. New location to the toe of the river- I believe that the drawing that we sent you marked (E4) shows the location.
2. We had a San Joaquin County permit and had an inspection. We installed two 119 gallon bladder tanks on pads next to the well head. Both tanks are strapped down with stainless steel straps. All piping to tie into the existing pipe system is galvanized and anchored down to the slab. There is a back flow preventer and a flow merer which meet or exceed County standards. Attached is a copy of the county standards to which we have adhered.
3. We abandoned the well to San Joaquin Standards. We obtained an abandonment permit from San Joaquin County. We had an inspector on the job site at the time that the work was performed. All of the work was performed to EHD Standards.
4. Old Permit- We had no information about the old permit.

Please let us know if you have any other questions.

Sincerely,

Don E. Knickerbocker

HORIZONTAL WATER TANK AND PROPANE TANK INSTALLATION IN SPECIAL FLOOD HAZARD AREA

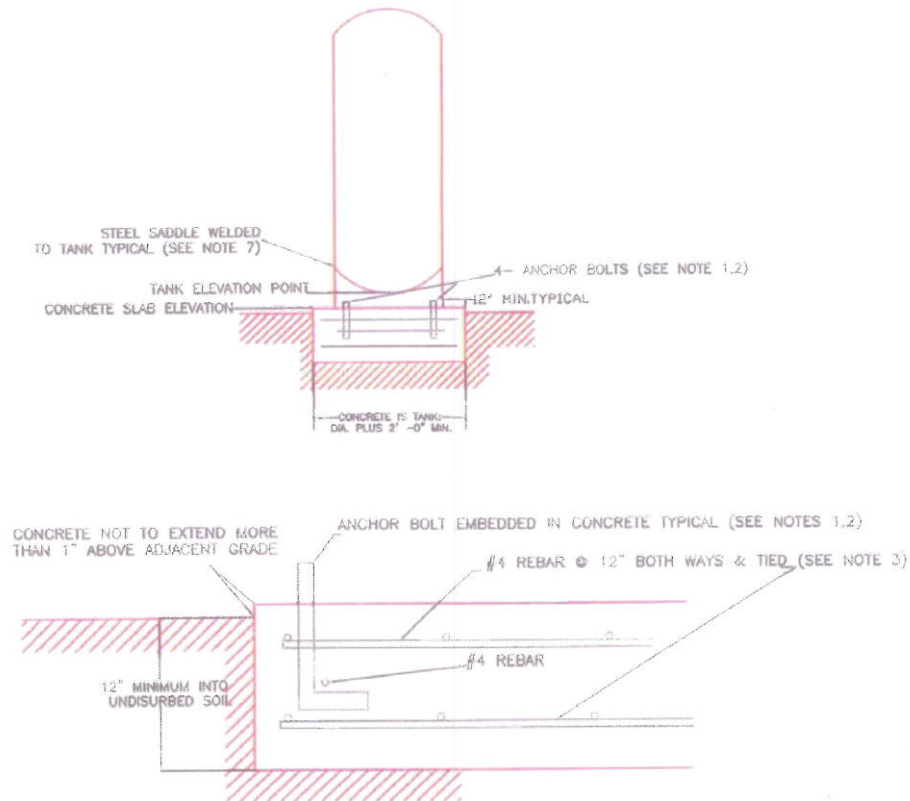


NOTES & SPECIFICATIONS

1. Anchor bolts and mounting hardware shall be sized as follows:
 1/2" for tanks 480 gallons and under
 5/8" for tanks larger than 480 and less than or equal to 525 Gallons
 3/4" for tanks above 525 Gallons
2. Anchor bolts shall be embedded a minimum of 6" into concrete and 6" from the nearest edge of the concrete
3. Rebar shall be embedded a minimum of 3" into concrete.
4. All hardware shall be GALVANIZED and meet ASM 307 requirements
5. Minimum size of angle brackets shall not be less than 1/4" X 3" X 3" X 3"
6. Holes in angle brackets shall be centered on the angle flange and a minimum diameter required for bolts.
7. Minimum saddle welds shall be 6" of each foot of tank bearing surface.
8. Tank shall be center on concrete slab.



VERTICAL WATER TANK AND PROPANE TANK INSTALLATION IN SPECIAL FLOOD HAZARD AREA

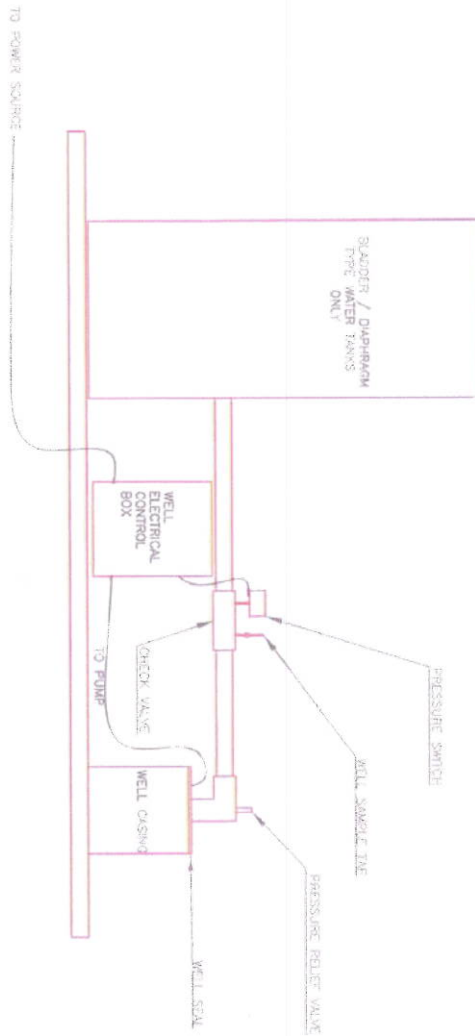


NOTES AND SPECIFICATIONS

1. Minimum anchor bolts and mounting hardware shall be sized as follows:
 $1/2"$ for tanks 480 gallons and under
 $5/8"$ for tanks larger than 480 and less than or equal to 525 Gallons
 $3/4"$ for tanks above 525 Gallons
2. Anchor bolts shall be embedded a minimum of 6" into concrete and 6" from the nearest edge of the concrete.
3. Rebar shall be embedded a minimum of 3" into concrete.
4. All hardware shall be GALVANIZED and meet ASTM 307 requirements
5. Minimum size of angle brackets shall not be less than $1/4" \times 3" \times 3" \times 3"$.
6. Holes in angle brackets shall be centered on the angle flange and a minimum diameter required for bolts.
7. Minimum saddle welds shall be 6" of each foot of tank bearing surface.
8. Tank shall be centered on concrete slab.



EXISTING DOMESTIC WATER WELL PUMP &
EQUIPMENT IN A SPECIAL FLOOD HAZARD AREA



1. WHERE A RESIDENCE IS OR IS PROPOSED TO BE SITED ON THE WATER SYSTEM SHALL BE PLACED ON TOP OF THE FILL WITH THE RESIDENCE.
2. TANK FOUNDATIONS AND ATTACHMENT HARDWARE ARE TO MEET TANK INSTALLATION STANDARDS.
3. NO VALVES OR JOINTS OF THE CASING, TANK, OR PUMPING ARE PERMITTED.
4. ELECTRICAL FITTING THROUGH WELL SEAL SHALL BE SEALED.
5. ALL VALVES OTHER THAN WELL SAMPLE TAP, INCLUDING SILL COCKS, STOPCOCKS OR HOSE ENDS SHALL BE PROTECTED BY AN APPROVED AIR STRIPPER DEVICE.



Floodway Blockage Analysis

For Encroachment Permit Application #18586

Alison Tang, CVFPB Staff, July 8, 2011

Engineering assumption of pump house width:

No greater than 15 feet

Floodway width, measured between levee centerlines (USACE Levee EGIS System), see Attachment A:

~ 2,742 feet

Approximate distance of new well from levee toe (measured with the USACE Levee EGIS System), see Attachment A:

~ 230 feet

Calculation:

$$\frac{\text{Obstruction Width } 15 \text{ ft}}{\text{Floodway width } 2,700 \text{ ft}} = 0.0055, \text{ or blocks less than } 1 \% \text{ of the floodway width}$$

Conclusion: The new well is approximately 120 feet further away from the levee toe than the well it replaces. Due to the increased distance from the levee and the small size of the new well and its appurtenances, Staff recommends that a hydraulic analysis should not be required.

Attachment A

