

**Meeting of the Central Valley Flood Protection Board
October 24, 2014**

Staff Report

**Install/Repair Erosion Control Features along the Mokelumne River,
San Joaquin County**

1.0 – ITEM

Consider approval to construct erosion control features along the Mokelumne River (Attachment A) by Draft Permit No. 18932 (Attachment D).

2.0 – APPLICANT

Terry and Rose Knutson

3.0 – PROJECT LOCATION

The project site is located at 1562 Edgewood Drive, Lodi, California along the left (south) waterside bank of the Mokelumne River, in San Joaquin County. The site is also located outside of the Legal Delta boundary (Attachment A). As per the City of Lodi Land Use Map, the project site lies in a low density residential zone (Attachment B).

4.0 – PROJECT DESCRIPTION

Terry and Rose Knutson propose to install/repair erosion control features by excavating 270 cubic yards of earth embankment along 260 linear-feet of the Mokelumne River. Approximately 4,000 square-feet of riprap will be placed on the side slopes at 1.5H: 1V along with grading an area of about 1,300 square-feet above the proposed riprap. This represents a total disturbed area of 5,300 square-feet.

Presently, a non-engineered, slumped riprap exists at the project site which appears to be unstable. Please see Attachment C for the condition of the slumped riprap. Based on Attachment C, it appears if the slumped riprap is not repaired, bank slope may fail resulting in loss of trees along with occurrence of siltation. The Central Valley Flood Protection Board (CVFPB) staff has no records of any previous permit issued for this slumped riprap at this location.

A concrete dock foundation structure is also located at a site which is not presently owned by the applicant/permittee. As per the applicant/permittee, this dock foundation is located at APN 039-100-06 which is currently owned by the Homeowner Association and will be acquired by the applicant/permittee through the lot line adjustment process. The CVFPB staff has no records of any previous permit issued for this concrete dock foundation. The removal of this potentially unauthorized concrete dock foundation is currently beyond the scope of this permit application. However, this removal is likely to be a possible future CVFPB enforcement action.

5.0 – AUTHORITY OF THE CVFPB

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

2012 California Code of Regulations, Title 23 (Title 23):

- § 6 - Need for a Permit
- § 112 - Streams Regulated and Nonpermissible Work Periods
- § 116 - Borrow and Excavation Activities – Land and Channel
- § 121 - Erosion Control

6.0 – 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 (USACE) Sacramento District non-fed letter was received on June 18, 2014 for this application. The letter indicates that the USACE District Engineer has no comments or recommendations regarding flood control because the proposed work does not affect a federally constructed project. The letter is incorporated into the permit as Exhibit A.
- The San Joaquin County Flood Control and Water Conservation District (District) has conditionally endorsed this project with their letter to the CVFPB, dated January 31, 2014 (Attachment E). No special conditions were added to the permit to eliminate redundancy.

7.0 – PROJECT ANALYSIS

7.1 – Hydraulic Analysis

The proposed project does not propose any modifications to the channel below the ordinary low water mark and has a very limited impact area. The hydraulic report outlines that the project has the following benefits:

- A larger river cross-sectional area is provided from the removal of the slumped riprap;
- Increased flood flow capacity is provided;
- Future slope failures, occurrences of voids and siltation are avoided; and
- Fish habitat is restored

Based on the hydraulic report submitted by the application, CVFPB staff has determined that the proposed project design (Attachment F) is not anticipated to have any adverse hydraulic impacts to the Mokelumne River and its floodway.

7.2 – Geotechnical Analysis

No geotechnical report was provided for the minor erosion control measures. CVFPB staff does not anticipate any geotechnical impacts arising from the completion of this project.

7.2.1 – Justification of Using Riprap

Title 23, §121 dictates the use of riprap for any bank or slope stabilization project. The use of riprap in this project is regulated by the permit conditions THIRTY-THREE through THIRTY-EIGHT. Title 23, §121 (a) (9) allows the use of broken concrete as an alternative bank protection materials. This is implemented through permit condition THIRTY-SEVEN which **also** limits the maximum dimension of the broken concrete to 16 inches. The permit condition THIRTY-SIX has been used to prohibit the use of any reinforcing steel, floatable, asphalt and other petroleum-based products, and other objectionable materials in the riprap.

Both USACE's Permitting and Navigation Sections have no objection with this project as the applicant/permittee is using riprap in combination with bioengineering.

7.3 – Real Estate Considerations

The proposed erosion control features will be installed within the Terry and Rose Knutson property (Parcel No. 03927105) and within the property authorized by the Knutson's Homeowner Association (above the low water mark). All construction work

will be performed on land owned by the applicant/permittee or as authorized in the submitted Homeowner's Association (HOA) authorization letter (Attachment G). CVFPB staff has added permit conditions TWENTY-TWO and TWENTY-THREE to resolve any real estate concerns for the CVFPB that may arise because of this project.

8.0 – CLARIFICATION OF PERMIT CONDITION NO. TWENTY-SIX

The permit condition TWENTY-SIX is a standard condition staff uses to regulate any temporary appurtenance structures (such as cofferdam) that may remain in the floodway from November 1 through April 15 (flood season). This condition does not automatically authorize applicant/permittee to work in the channel during flood season. The applicant/permittee would still require approval from the CVFPB Chief Engineer if the appurtenance structures will remain in the channel during the flood season.

9.0 – CEQA ANALYSIS

CVFPB staff has prepared the following CEQA determination:

The CVFPB, acting as the CEQA lead agency, has determined the project is categorically exempt from CEQA under a Class 1 Categorical Exemption (CEQA Guidelines Section 15301) covering repair of existing facilities and under a Class 4 Categorical Exemption (CEQA Guidelines Section 15304) covering minor alterations to land.

With the implementation of this project, the impact on vegetation, trees, and habitat is expected to be minimized or restored.

As additional information to the CVFPB, a Streambed Alteration Agreement has also been entered into between the California Department of Fish and Wildlife and Terry and Rose Knutson (Permittee).

10.0 – WATER CODE SECTION 8610.5 CONSIDERATIONS

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

The CVFPB has considered all available evidence, including the application for Permit No. 18932, supporting technical documentations provided by Terry and Rose Knutson, and comments and endorsements from relevant Agencies in regard to this

proposed project, as well as any evidence that will be submitted up to the date of the decision on this application. Attachment C shows the degraded condition of the existing riprap and demonstrated the need for an improvement. The project will also result in a permitted condition, where currently none exists.

- The best available science related to the scientific issues presented by the CVFPB, the applicant/permittee, legal counsel, the Department of Water Resources, or other parties that raise credible scientific issues:

In making its findings, the CVFPB has used the best available science for the scope of the proposed work, while analyzing the issues related to this proposed project. All analyses provided in this report adhere with the industry standards and methods, and the project is compliant with the State and Federal standards.

- Effects of the decision on the 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 CVFPB Resolution 2012-25 on June 29, 2012:

The proposed project is considered to have negligible adverse hydraulic impacts on the facilities of the SPFC as described in Section 7.1 of this report. The proposed project will not impair the designed capacity flows of 5,000 cfs or impair the functioning of the system and therefore, when completed, will be consistent with the CVFPP.

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

This small project will occur on a privately owned land along the Mokelumne River. The City of Lodi General Plan Map shows most of the river is an open space. It is not anticipated that the project would have any adverse impact on recreational opportunities for other residents. When completed, this project will provide engineered riprap that will be superior and more esthetic than the existing one.

11.0 – STAFF RECOMMENDATION

Staff recommends that the CVFPB:

Adopt the CEQA finding;

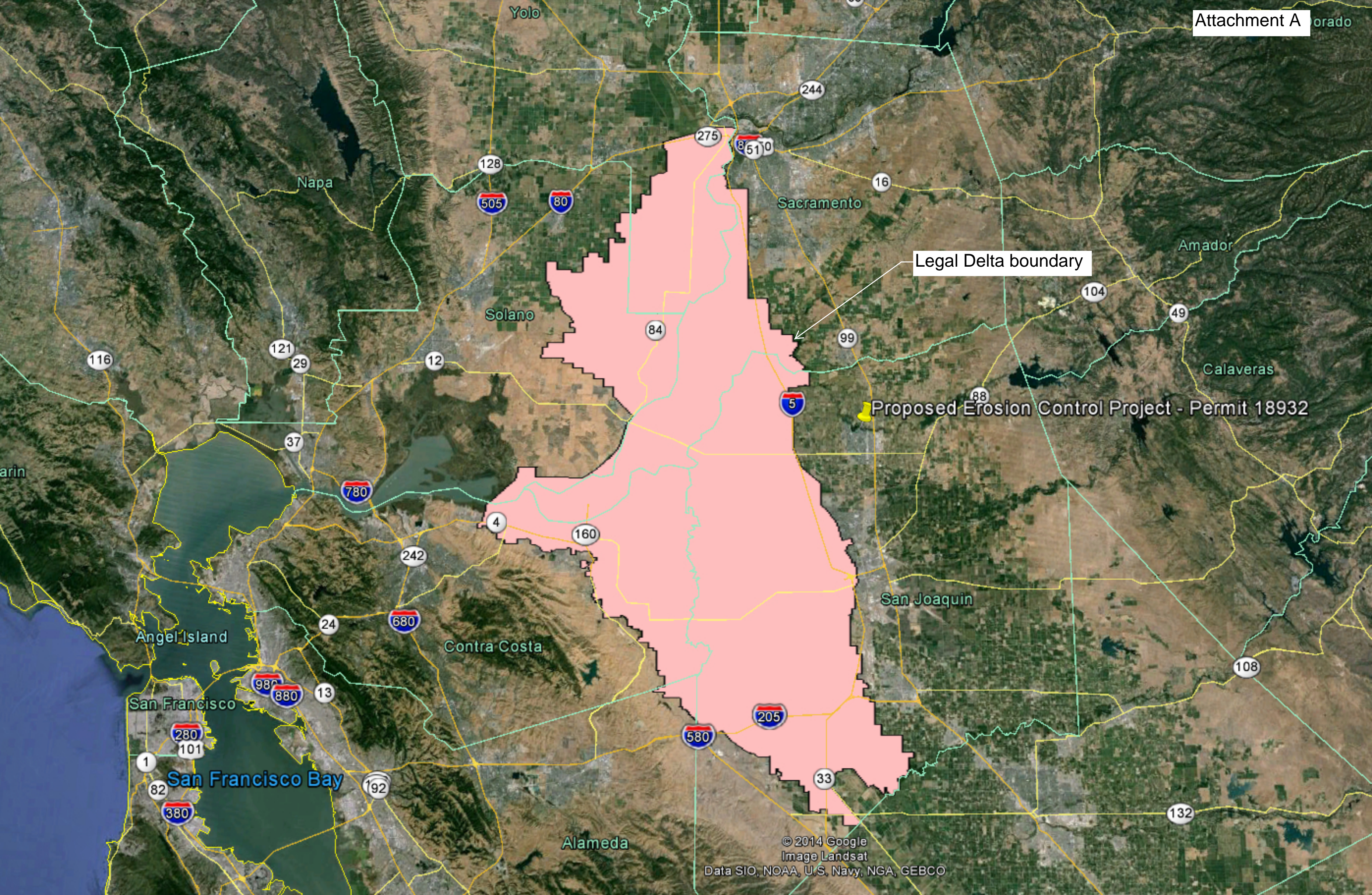
Approve Encroachment Permit No. 18932 (Attachment D), in substantially the form provided; and

Direct the Executive Officer to take the necessary actions to execute the permit and file a Notice of Exemption with the State Clearinghouse.

12.0 – LIST OF ATTACHMENTS

- A. Project Vicinity and Location Maps
- B. The City of Lodi Land Use Map
- C. Photograph of the Existing Slumped Riprap
- D. Draft Permit No. 18932
 - Exhibit A: USACE Non-Fed Comment Letter
- E. District Endorsement Letter
- F. Project Plan and Section
- G. HOA Letter of Authorization

| | |
|--------------------------|--|
| Report/Technical Review: | Deb Biswas, PhD, PE, Engineer, WR |
| Environmental Review: | James Herota, Senior Environmental Scientist |
| Document Review: | Nancy Moricz, PE, Senior Engineer |
| | Len Marino, PE, Chief Engineer |
| | Leslie Gallagher, Acting Executive Officer / Chief Counsel |



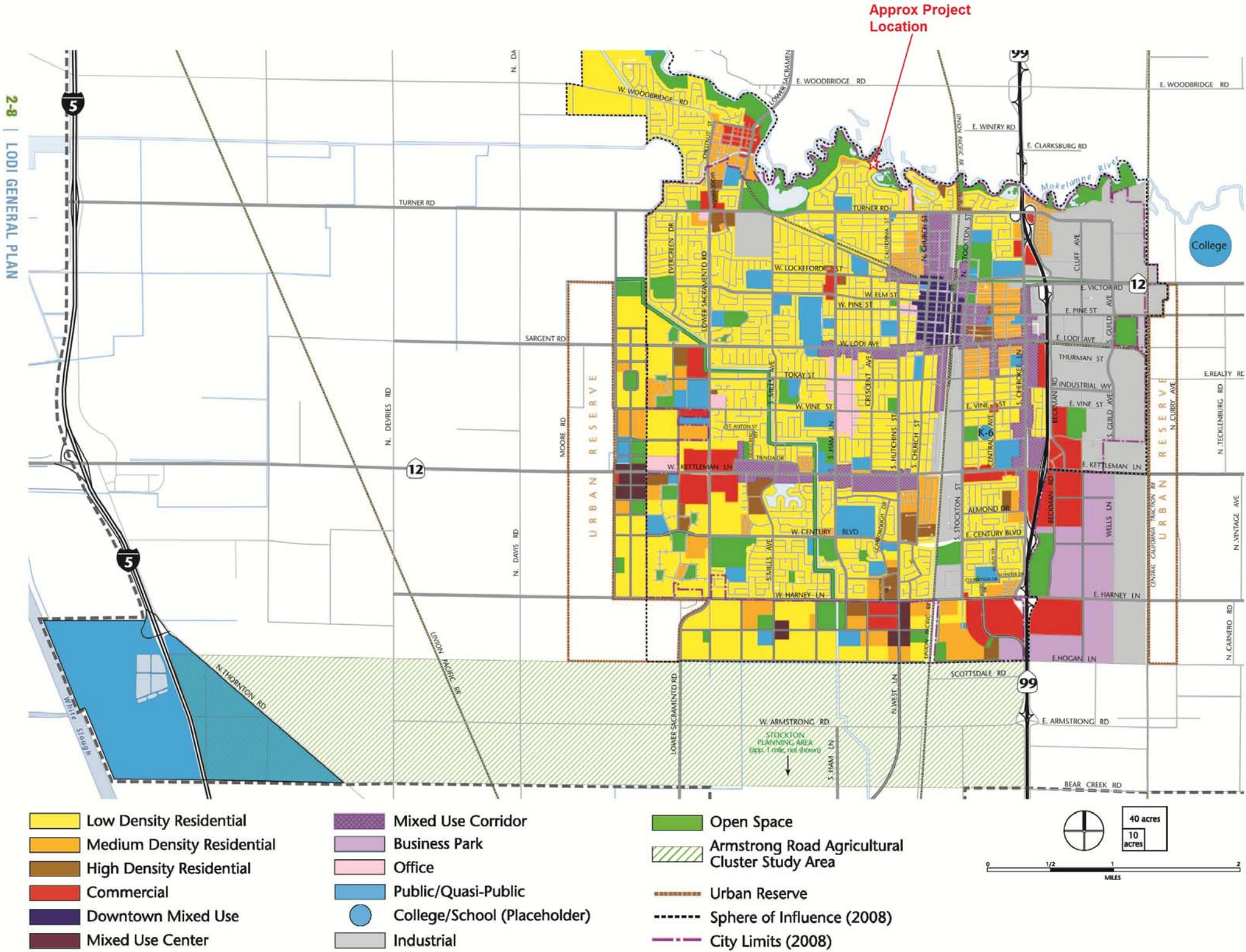


FIGURE 2-1: LAND USE DIAGRAM

Attachment C - Photograph of the Existing Slumped Riprap



DRAFT

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

PERMIT NO. 18932 BD

This Permit is issued to:

Terry Knutson
1562 Edgewood Drive
Lodi, California 95240

To install/repair erosion control features by excavating 270 cubic yards of earth embankment along 260 linear-feet of the Mokelumne River. Approximately 4,000 square-feet of riprap will be placed on the side slopes at 1.5H: 1V (horizontal to vertical) and the graded and compacted area above the proposed riprap is 1,300 square-feet. This represents a total disturbed area of 5,300 square-feet.

The project located at 1562 Edgewood Drive, Lodi, California along the left (south) waterside bank of the Mokelumne River, in San Joaquin County (Section 35, T4N, R6E, MDB&M, San Joaquin County Flood Control and Water Conservation District, Mokelumne 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. 18932 BD

THIRTEEN: All work completed under this permit, as directed by the general and special conditions herein, shall be accomplished to ensure that the work is not injurious to adopted plans of flood control, regulated streams, and designated floodways under Board jurisdiction, as defined in California Code of Regulations, Title 23. This permit only applies to the completion of work in the project description located within, or adjacent to and having bearing on Board jurisdiction, and which directly or indirectly affects the Board's jurisdiction. This special condition shall apply to all subsequent conditions herein.

LIABILITIES / INDEMNIFICATION

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 Central Valley Flood Protection Board, Department of Water Resources, and the San Joaquin County Flood Control and Water Conservation District shall not be held liable for damages to the permitted encroachment(s) resulting from releases of water from reservoirs, flood fight, operation, maintenance, inspection, or emergency repair.

BOARD CONTACTS

SEVENTEEN: The permittee shall contact the Central Valley Flood Protection Board by telephone at (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.

PERMITTING AND AGENCY CONDITIONS

EIGHTEEN: The letter from the U.S. Army Corps of Engineers, Sacramento District dated June 18, 2014 is attached to this permit as Exhibit A and is incorporated by reference.

NINETEEN: The permittee shall 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 will be required.

TWENTY: The permittee agrees to incur all costs for compliance with local, State, and Federal permitting. If any conditions issued by other agencies conflict with any of the conditions of this permit, then the permittee shall resolve conflicts between any of the terms and conditions that agencies might impose under the laws and regulations it administers and enforces.

TWENTY-ONE: If the permittee does not comply with the conditions of the permit and enforcement by the Board is required, the permittee shall be responsible for bearing all costs associated with the enforcement action, including reasonable attorney's fees. Permittee acknowledges that State law allows the imposition of fines in enforcement matters.

EASEMENT, LICENSE OR TEMPORARY ENTRY PERMIT

TWENTY-TWO: If the construction project extends onto land owned in fee and/or easement by the Sacramento and San Joaquin Drainage District acting by and through the Central Valley Flood Protection Board, the permittee shall secure an easement, license, or temporary entry permit from the Board prior to commencement of work. Contact Angelica Aguilar at (916) 653-5782.

TWENTY-THREE: If the construction work extends onto a land owned in fee by any other third party, the permittee shall secure an authorization from that third party prior to commencement of work. Furthermore, if the construction work takes place below the Mokelumne River ordinary low water mark, a lease shall be executed with the California State Lands Commission prior to commencement of the construction work.

PRE-CONSTRUCTION

TWENTY-FOUR: The permittee shall provide supervision and inspection services acceptable to the Central Valley Flood Protection Board.

TWENTY-FIVE: Prior to commencement of work, the permittee shall create a photo record, including associated descriptions, of the existing site conditions. The photo record shall be certified (signed and stamped) by a licensed land surveyor or licensed civil engineer registered in the State of California and submitted to the Central Valley Flood Protection Board within 30 days of beginning the project.

TWENTY-SIX: Thirty (30) calendar days prior to start of any demolition and/or construction activities within the floodway, the permittee shall submit to the Chief Engineer two sets of plans, specifications for review and approval, for any and all temporary, in channel cofferdam(s), gravel work pad(s), and/or other appurtenances that are to remain in the floodway during the flood season from November 1 through April 15. The Central Valley Flood Protection Board shall acknowledge receipt of this submittal in writing within ten (10) working days of receipt, and shall work with the permittee to review and respond to the request as quickly as possible. Time is of the essence. The Central Valley Flood Protection Board may request additional information as needed and will seek comment from the U.S. Army Corps of Engineers and / or local maintaining agency when necessary. The Central Valley Flood Protection Board will provide written notification to the permittee if the review period is likely to exceed thirty (30) calendar days.

TWENTY-SEVEN: All addenda and contract change orders made to the approved plans and / or specifications by the permittee after Board approval of this permit shall be submitted to the Board's Chief Engineer for review and approval prior to incorporation into the permitted project. The submittal shall include all supplemental plans, specifications, and necessary supporting geotechnical, hydrology and hydraulics, or other technical analyses. The Board shall acknowledge receipt of the addendum or change submittal in writing within ten (10) working days of receipt, and shall work with the permittee to review and respond to the request as quickly as possible. Time is of the essence. The Board may request additional information as needed and will seek comment from the U.S. Army Corps of Engineers and / or local maintaining agencies when necessary. The Board will provide written notification to the permittee if the review period is likely to exceed thirty (30) calendar days. Upon approval of submitted documents the permit shall be revised, if needed, prior to construction related to the proposed changes.

CONSTRUCTION

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

TWENTY-NINE: 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.

THIRTY: No material stockpiles, temporary buildings, or equipment shall remain in the floodway during the flood season from November 1 to April 15.

THIRTY-ONE: Cleared trees and brush shall be completely burned or removed from the floodway, and downed trees or brush shall not remain in the floodway during the flood season from November 1 to April 15.

THIRTY-TWO: All debris generated by this project shall be disposed of outside of the floodway.

THIRTY-THREE: Revetment shall be uniformly placed and properly transitioned into the bank slope, or adjacent revetment and in a manner which avoids segregation and reduction in the channel cross-section.

THIRTY-FOUR: Revetment shall be quarry stone or cobbles and shall meet the following grading or equivalent:

| Quarry Stone | | Cobbles | |
|--------------|-----------------|------------|-----------------|
| Stone Size | Percent Passing | Stone Size | Percent Passing |
| 15 inches; | 100 | 15 inches; | 100 |
| 8 inches; | 80-95 | 10 inches; | 55-95 |
| 6 inches; | 45-80 | 8 inches; | 35-65 |
| 4 inches; | 15-45 | 6 inches; | 10-35 |
| 2 inches; | 0-15 | 3 inches; | 1-5 |

THIRTY-FIVE: Quarry rock shall be used on slopes steeper than 3 horizontal to 1 vertical.

THIRTY-SIX: The revetment shall not contain any reinforcing steel, floatable, or objectionable material. Asphalt or other petroleum-based products may not be used as fill or erosion protection.

THIRTY-SEVEN: Broken concrete used for revetment shall be no larger than 16 inches at its maximum dimension.

THIRTY-EIGHT: The recommended minimum thickness of revetment, measured perpendicular to the bank slope, is 18 inches below the usual water surface and 12 inches above the usual water surface.

CONSTRUCTION MATERIALS

THIRTY-NINE: All fill materials shall be placed in four to six inch layers and compacted to a relative compaction of not less than 90 percent per ASTM D 1557-91 or 97 percent per ASTM D 698-91 above optimum moisture content. Fill material within two feet of the bridge shall be compacted by appropriate hand operated compaction equipment. Field density tests shall be taken by a certified soils laboratory to verify compaction of the fill placed.

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

VEGETATION / ENVIRONMENTAL MITIGATION

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

FORTY-TWO: No further tree planting or work, other than that covered by this application, shall be performed in the area without prior approval of the Central Valley Flood Protection Board.

POST-CONSTRUCTION

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

FORTY-FOUR: All disturbed areas along the Mokelumne River bank shall be returned to pre-project conditions.

FORTY-FIVE: Within 120 days of completion of the project, the permittee shall submit to the Central Valley Flood Protection Board as-built drawings 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 Central Valley Flood Protection Board permit conditions and submitted drawings and specifications.

OPERATIONS AND MAINTENANCE

FORTY-SIX: The permittee shall maintain the permitted encroachment(s) and the project works 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 Central Valley Flood Protection Board, Department of Water Resources, or any other agency responsible for maintenance.

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

FORTY-EIGHT: If the permitted encroachment(s) result in any adverse hydraulic impact or if the flows being conveyed in an overland release result in scouring the permittee shall provide appropriate mitigation acceptable to the Central Valley Flood Protection Board.

FORTY-NINE: 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 Central Valley Flood Protection Board or Department of Water Resources. If the permittee does not comply, the Central Valley Flood Protection Board may modify or remove the encroachment(s) at the permittee's expense.

FIFTY: At the request of either the permittee or Central Valley Flood Protection Board the permittee and Board shall conduct joint inspections of the project and floodway after significant flood events or flood seasons to assess the integrity and operation of the project, and to assess and respond to any adverse impacts on the floodway or adjacent properties.

PROJECT ABANDONMENT, CHANGE IN PLAN OF FLOOD CONTROL

FIFTY-ONE: 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 Central Valley Flood Protection Board and Department of Water Resources, at the permittee's cost and expense.

FIFTY-TWO: 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.

END OF CONDITIONS



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
U.S. Army Engineer District, Sacramento
Corps of Engineers
1325 J Street
Sacramento, California 95814-2922

Flood Protection and Navigation Section (18932)

JUN 18 2014

Leslie M. Gallagher, Acting Executive Officer
Central Valley Flood Protection Board
3310 El Camino Avenue, Room 151
Sacramento, California 95821

Dear Ms. Gallagher:

We have reviewed a permit application by Terry Knutson (application number 18932). This project includes installing a temporary silt curtain, erosion control features, and excavating 270 cubic yards of earth embankment along 260 feet of the left bank slope of the Mokelumne River. The project also includes salvaging the existing slope protection (large broken concrete riprap) into stockpiles; breaking large riprap into smaller pieces; removing any unsuitable excavated material; grading the side slope to 1.5:1 and compacting; returning resized riprap; adding additional riprap (222 cubic yards total) to establish finished grade; grading from the proposed top of riprap to adjoining site; and removing the silt curtain and erosion control features. The project is located on the property at 1562 Edgewood Drive in Lodi, at 38.1506°N 121.2826°W NAD83, San Joaquin County, California.

The District Engineer has no comments or recommendations regarding flood control because the proposed work does not affect a federally constructed project.

A file (2014-00417) has been opened because a Section 10 and/or Section 404 permit may be required. Please advise the applicant to contact the U.S. Army Corps of Engineers, Sacramento District, Regulatory Division, 1325 J Street, Room 1350, Sacramento, California 95814, telephone (916) 557-5250

A copy of this letter is being furnished to Mr. Don Rasmussen, Chief, Flood Project Integrity and Inspection Branch, 3310 El Camino Avenue, Suite 200, Sacramento, CA 95821.

Sincerely,

A handwritten signature in black ink, reading "Ryan Larson", is written over a horizontal line.

Ryan Larson, P.E.
Chief, Flood Protection and Navigation Section



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

THOMAS M. GAU
DIRECTOR OF PUBLIC WORKS
FLOOD CONTROL ENGINEER

January 31, 2014

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

Attention: Central Valley Flood Protection Board
Floodway Protection Section

SUBJECT: CENTRAL VALLEY FLOOD PROTECTION BOARD PERMIT APPLICATION OF
TERRY AND ROSE KNUTSON FOR GRADING AND BANK STABILIZATION
ALONG THE MOKELUMNE RIVER, SAN JOAQUIN COUNTY ASSESSOR'S
PARCEL NO. 039-271-05 (PW-1400001)

Gentlemen:

Reference is made to the Central Valley Flood Protection Board (Board) Permit Application of Terry and Rose Knutson (Permittee) to permit the following along the waterside of Mokelumne River: 1) excavate 270 cubic yards of rip-rap (large broken concrete) and earth embankment along 260 feet of water side slope; 2) salvage the rip-rap and break it into smaller pieces; 3) degrade side slope to 1.5:1 at proposed rip-rap subgrade; and 4) return resized rip-rap and add additional rip-rap (222 cubic yard total) as required to establish finished grade.

The project is located on the waterside of the left bank of the Mokelumne River, approximately 5,200 feet downstream of the Union Pacific Rail Road Crossing, north of the City of Lodi, in San Joaquin County, Section 35, Township 4 North, Range 6 East, Mount Diablo Base and Meridian, San Joaquin County Assessor's Parcel No. 039-271-05.

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

1. The District shall not be responsible for the maintenance of the facilities specified in this Permit.
2. The District shall not be held liable for damage(s) to the permitted encroachment(s) due to the District's operation, maintenance, flood fight, inspection, or emergency repairs.

4. The Permittee shall be liable for any damage to Mokelumne River and its bank that may occur as a result of this project.
5. The Project shall be constructed in accordance with the plans dated July 25, 2013, submitted with the application dated January 1, 2014. Any revisions to the Project will require the submittal of the revised plans to the District for review and approval.
6. The Permittee or Successors-in-Interest shall keep the encroachment(s) properly maintained in accordance with applicable current or future local, State and Federal standards.
7. No work shall be allowed in the Mokelumne River between November 1st and April 15th without prior approval of the Central Valley Flood Protection Board and the District.
8. Excess excavated material shall be transported from the project site and disposed of at an approved location.
9. Rock Slope Protection shall be placed in a manner such that no reduction in channel cross-section or increase in base flood elevation will result.
10. Should significant damage occur to any encroachment covered by this permit, it shall not be repaired or replaced without prior approval of the Central Valley Flood Protection Board and the San Joaquin County Flood Control and Water Conservation District. Any replacement shall be brought into conformance with applicable local, State and Federal standards and permit requirements in effect at the time, including type and location.

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

Sincerely,



JOHN I. MAGUIRE P.E.
Engineering Services Manager

FM-14A066-ME1



3244 Brookside Road
Suite 100
Stockton, California 95219
209-943-2021
Fax: 209-942-0214
www.siegfriedeng.com

- CIVIL ENGINEERING
- STRUCTURAL ENGINEERING
- LAND SURVEYING
- LANDSCAPE ARCHITECTURE

REVISIONS
No. Date Description

PROJECT

KNUTSON
PROPERTY
GRADING
AND BANK
STABILIZATION

1562
EDGEWOOD DRIVE
LODI, CA



DATE SIGNED: 09/09/14

SHEET TITLE

GRADING PLAN

Proj Mgr

Drawn by

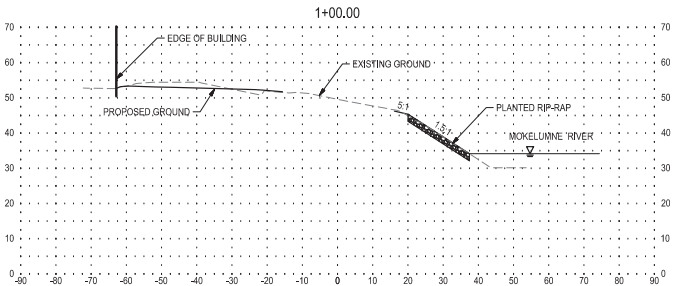
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Job No.

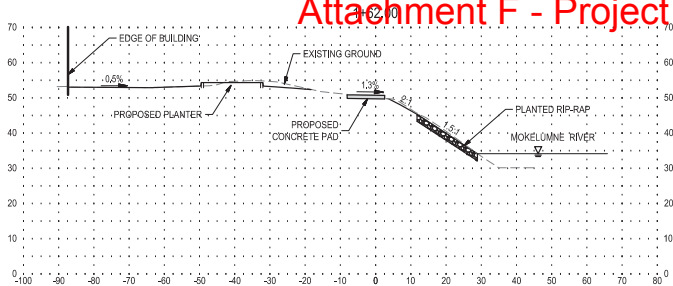
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C2.0

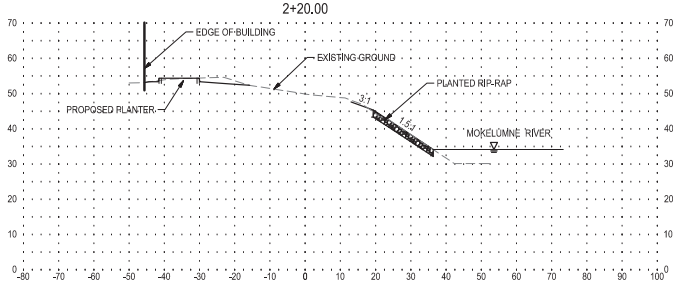
OF: ?



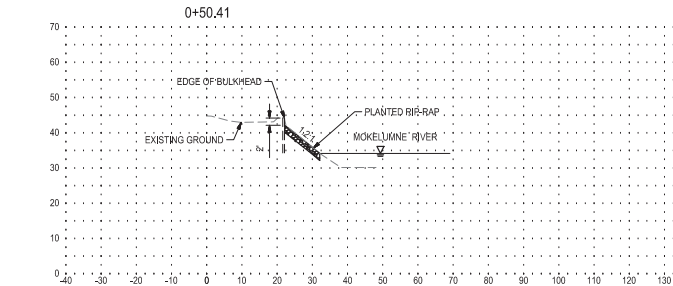
SECTION C
HORIZONTAL 1"=20' - VERTICAL 1"=20'



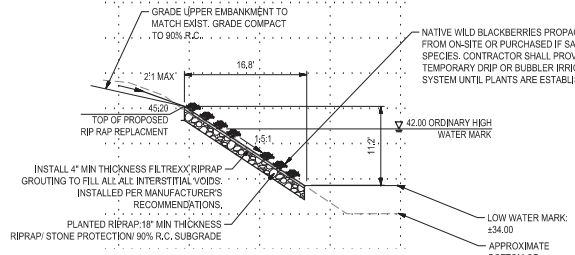
SECTION B
HORIZONTAL 1"=20' - VERTICAL 1"=20'



SECTION A
HORIZONTAL 1"=20' - VERTICAL 1"=20'



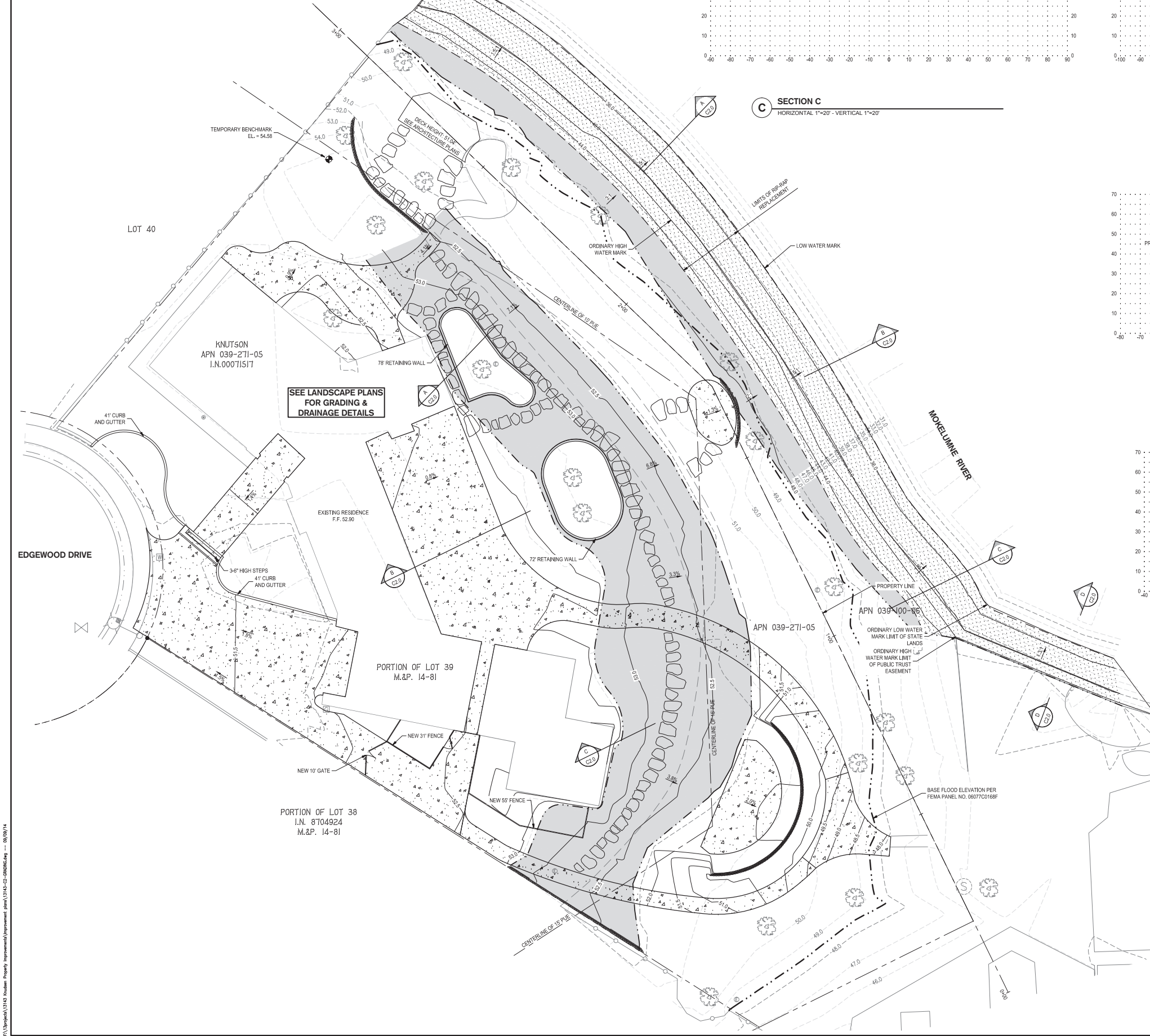
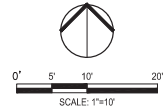
SECTION D
HORIZONTAL 1"=20' - VERTICAL 1"=20'



TYPICAL CROSS SECTION
HORIZONTAL 1"=10' - VERTICAL 1"=10'

LEGEND

- CONCRETE
- PROPOSED GRADING
- RIP-RAP/SLOPE PROTECTION
- EXISTING CONTOUR
- PROPOSED CONTOUR



P:\Projects\13143_Knutson_Property_Improvements\Improvements.dwg (13143-C2-2500) 09/09/14

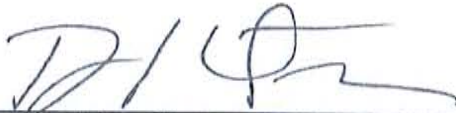
August 12, 2014

To Whom It May Concern:

**Subject: Letter of Authorization
Knutson Property Grading and Bank Stabilization
1562 Edgewood Drive, Lodi, CA**

The trustees of APN 039-271-05, Terry and Rose Knutson, have begun the permitting process to allow the subject bank stabilization for the Mokelumne River frontage along their residence. They wish to repair the wave wash damage that has begun to erode their trees and undermine existing dock foundations. The majority of the project is located on APN 039-100-06, a slice of land which is between the Knutson's property and the non-tidal, State sovereign owned Mokelumne River. APN 039-100-06 is owned by the Willow Glen Property Owners Association (HOA). Metroscan copies for both properties are attached for your reference. The Knutsons' and the HOA have agreed that it is in the best interest for both parties to proceed with the subject improvements with the Knutson's acting as applicant, financially and legally responsible for the project and the HOA giving authorization for the subject improvements to occur on its property. Questions for the permitting process should be directed to Jimi Billigmeier at Siegfried Engineering, Inc (SEI). SEI has been retained by the Knutsons to assist with the application process. You may contact her at (209)943-2021 or jbilligmeier@siegfriedeng.com.

WE ACKNOWLEDGE THE ABOVE STATEMENT AS TRUE AND ACCEPT
RESPONSIBILITY AS THE APPLICANT:



8/14/14

Terry and Rose Knutson 2000 Trust,
Mr. Terry Knutson, Trustee, APN 039-271-05

WE ACKNOWLEDGE THE ABOVE STATEMENT AS TRUE AND AUTHORIZE TERRY AND
ROSE KNUTSON TO ACT AS APPLICANT:



Dave Bedford, President, Willow Glen Property Owners Association, Owner APN 039-100-06

JAB, tn, enclosures
see attached Improvement Plans and Description of Work