Meeting of the Central Valley Flood Protection Board
May 18, 2018
Permit Staff Report
Placer County
Dowd Road Bridge Replacement, Placer County

1.0 – ITEM
Consider approval of Permit No. 19205 (Attachment B).

2.0 – APPLICANT
Placer County (County).

3.0 – PROJECT LOCATION
The project is located where Dowd Road crosses over Coon Creek, approximately 5.3 miles northwest of the City of Lincoln and 0.5 miles west of Hwy 65 in Placer County (Coon Creek, Placer County, see Attachment A).

4.0 – PROJECT DESCRIPTION
The County proposes to replace the existing one-lane Dowd Road Bridge (Bridge No. 19C-0095) with a new two-span bridge at the same location. The new bridge will be approximately 150 feet long and 35 feet wide (see Attachment C).

5.0 – AUTHORITY OF THE BOARD
California Water Code § 8534, 8590 – 8610.5, and 8700 – 8710
California Code of Regulations Title 23, Division 1 (Title 23)
  • § 6, Need for a Permit
  • § 13.3, Consent Calendar
  • § 112, Streams Regulated and Nonpermissible Work Periods
  • § 121, Erosion Control
  • § 128, Bridges
6.0 – PROJECT ANALYSIS

Coon Creek is listed as a regulated stream in Title 23, Article 8, Section 112, Table 8.1. There are no levees along Coon Creek in the project area. The proposed project will be in compliance with all Title 23 standards. Rock slope protection (RSP) will be installed adjacent to the bridge abutments for erosion protection. The RSP will extend from the face of each abutment and channel slope to the toe of slope.

6.1 – Hydraulic Analysis

The design flow for Coon Creek is 5,000 cubic feet per second (cfs). HEC-RAS, a one dimensional hydraulic model developed by the United States Army Corps of Engineers (USACE), was used to analyze the potential hydraulic impacts due to the project. The design flow was evaluated for existing and proposed conditions.

The hydraulic analysis shows that the lowest point of the existing bridge is approximately 1.51 feet above the design water surface elevation (DWSE) at the design flow. The lowest point of the proposed new bridge will be approximately 4.19 feet above the DWSE at the design flow, an improvement of more than 2.68 feet. In addition, the hydraulic analysis shows an increase of 0.11 feet in DWSE and a 0.16 feet-per-second decrease in velocity at the design flow (see Attachment D).

6.2 – Geotechnical Analysis

There are no levees associated with this project; therefore, a geotechnical analysis was not required.

7.0 – AGENCY COMMENTS AND ENDORSEMENTS

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

- There are no Local Maintaining Agencies in the area for the proposed bridge replacement project.

- The USACE Sacramento District Engineer has no comments or recommendations regarding flood control because the proposed work does not affect a federally constructed project.
8.0 – CEQA ANALYSIS

Board staff has prepared the following California Environmental Quality Act (CEQA) determination:

The Board, as a responsible agency under CEQA, has reviewed the Initial Study/Mitigated Negative Declaration (IS/MND) (SCH No. 2016082057, October 2016) for the Dowd Road at Coon Creek Bridge Replacement Project, prepared by the lead agency Placer County. These documents, including project design, are available for review in hard copy at Board and Placer County offices.

Placer County determined that the project would not have a significant effect on the environment, and on October 28, 2016, filed a Notice of Determination with the Placer County Clerk and the State Clearinghouse. The County has made revisions to the project and/or incorporated mandatory mitigation measures into the project plans to avoid impacts or to mitigate such impacts to a point where no significant adverse impacts will occur. These mitigation measures are included in the County’s IS/MND and address impacts to geology and soils, hydrology and water quality, biological resources, cultural resources, paleontological resources, and hazards and hazardous materials. The mitigation measures are further described in the County’s adopted IS/MND. In accordance with CEQA Guidelines Section 15096(e), Board staff independently reviewed the IS/MND, and finds the environmental documents prepared by Placer County as the lead agency adequately address hydrology impacts, including potential flood risk, within the Board’s jurisdiction. Pursuant to CEQA, the Board, as a responsible agency, is responsible for mitigating and avoiding only the direct and indirect environmental effects of those parts of the project which it decides to carry out, finance, or approve (CEQA Guidelines § 15096(g); Public Resources Code § 21002.1(d)). In accordance with CEQA Guidelines Section 15096(f) and (g), staff recommends the Board make responsible agency findings that approval of Permit No. 19205 would not have a significant adverse impact and no additional mitigation measures within the Board’s jurisdiction are required.

The documents and other materials which constitute the record of the Board’s proceedings in this matter are in the custody of the Executive Officer, Central Valley Flood Protection Board, 3310 El Camino Ave., Suite 170, Sacramento, California 95821.
9.0 – CALIFORNIA WATER CODE SECTION 8610.5 CONSIDERATIONS

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

   The Board has considered all the evidence presented in this matter, including the application for Permit No. 19205, and all supporting hydraulic and other technical documentation provided by the County.

2. The best available science that relate to the scientific issues presented by the Executive Officer, legal counsel, the Department of Water Resources or other parties that raise credible scientific issues:

   The accepted industry standards for the work proposed under this permit as regulated by Title 23 have been applied to the review of this permit. On the issue of hydraulic impacts, the County developed and applied a HEC-RAS hydraulic model. This model is considered one of the best available scientific tools for the purpose of evaluating WSE changes due to the proposed project.

3. 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 Update (CVFPP) as adopted by Board Resolution 2017-10 on August 25, 2017:

   The proposed project is located approximately 9.7 miles upstream of any SPFC facilities and will improve existing hydraulic conditions by increasing the conveyance area of the bridge. The proposed project is consistent with the adopted 2017 CVFPP as it improves flood risk management in the Central Valley.

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

   The proposed project will be constructed with 4.19 feet of clearance above the DWSE, which is 2.19 feet higher than required by Title 23 standards. The new bridge will have enough clearance for the changes in hydrology and climate. Therefore, there are no expected adverse effects to the proposed project from reasonable projected future events.

10.0 – STAFF RECOMMENDATION

Board staff recommends that the Board:
Adopt:

- CEQA finding: The Board, acting as a responsible agency under CEQA, has independently reviewed and considered the environmental documents prepared for the project, and approving the Permit 19205 would not result in any significant adverse impacts and no additional mitigation measures within the Board’s jurisdiction are required.

Approve:

- Encroachment Permit No. 19205 in substantially the form provided in Attachment B; and

Direct:

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

11.0 – LIST OF ATTACHMENTS

A. Location Maps and Photos
B. Draft Permit No. 19205
C. Project Drawings
D. Hydraulic Profile Information

Design Review: Sungho Lee, PE, Engineer, Water Resources, Permitting Section
Environmental Review: Itzia Rivera, Senior Environmental Scientist
                        Andrea Buckley, Environmental Services and Land Management Chief
Document Review: Gary Lemon, PE, Senior Engineer, Permitting Section Chief
                     Kelly Soule’, PE, Acting Operations Branch Chief
                     Geoffrey Shaw, PE, Chief Engineer
Legal Review: Christina Morkner Brown, Deputy Attorney General
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No. 19205 - Attachment A - Location Maps and Photos
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STATE OF CALIFORNIA
THE RESOURCES AGENCY
THE CENTRAL VALLEY FLOOD PROTECTION BOARD

PERMIT NO. 19205 BD

This Permit is issued to:

Placer County
3091 Counter Center Drive #220
Auburn, California 95603

To replace the existing one-lane bridge on the Dowd Road with a new two-span bridge at the same location. The new bridge will be 150 feet long and 35.3 feet wide.

The project is located on the Dowd Road over the Coon Creek, approximately 5.3 miles northwest of City of Lincoln and 0.5 miles west of Hwy 65 Lincoln Bypass in Placer County, at 38.93130°N 121.37717°W, Coon Creek, Placer County, CA.

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

(SEAL)

Dated: ____________________________ ________________________________________

Executive Officer

GENERAL CONDITIONS:

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

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

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

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. 19205 BD

LIABILITY AND INDEMNIFICATION

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

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

AGENCY CONDITIONS

SIXTEEN: All work approved by this permit shall be in accordance with the submitted drawings and specifications dated September 19, 2016 except as modified by special permit conditions herein. No further work, other than that approved by this permit, shall be done in the area without prior approval of the Board.
SEVENTEEN: Permittee shall pay to the Board, an inspection fee(s) to cover inspection cost(s), including staff and/or consultant time and expenses, for any inspections before, during, post-construction, and regularly thereafter as deemed necessary by the Board.

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

NINETEEN: The Board reserves the right to add additional, or modify existing, conditions when there is a change in ownership and/or maintenance responsibility of the work authorized under this permit.

TWENTY: The permittee agrees to notify new property/encroachment owner(s) that they are required to submit a permit Name Change request form to the Board upon completion of the sale. The new owner(s) will be required to comply with all permit conditions. Name Change forms are available at http://cvfpb.ca.gov/

PRE-CONSTRUCTION

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

CONSTRUCTION

TWENTY-TWO: No construction work of any kind shall be done during the flood season from November 1 to April 15 without prior approval of the Board. Failure to submit a Time Variance Request to the Board at least 10 working days prior to November 1 may result in a delay of the project.

TWENTY-THREE: Piers, bents, and abutments being dismantled shall be removed to at least 1 foot below the natural ground line and at least 3 feet below the bottom of the low-water channel.

TWENTY-FOUR: Rock slope revetment shall be uniformly placed and properly transitioned into the bank, bank slope, or adjacent revetment and in a manner which avoids segregation.

TWENTY-FIVE: 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 within the floodway.

TWENTY-SIX: Backfill material for excavations within the bank section and within 10 feet of bridge supports within the floodway shall be placed in 4- to 6-inch layers and compacted to a minimum of 90 percent relative compaction as measured by the current ASTM D1557 standard and above optimum moisture content.
TWENTY-SEVEN: The recommended minimum thickness of revetment, measured perpendicular to the bank is 18 inches below the usual water surface and 12 inches above the usual water surface.

TWENTY-EIGHT: No material stockpiles, temporary buildings, or equipment shall remain in the Coon Creek during the flood season from November 1 to April 15.

**POST-CONSTRUCTION**

TWENTY-NINE: All debris generated by this project shall be disposed outside of the Coon Creek floodway.

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

THIRTY-ONE: The work area shall be restored to at least the condition that existed prior to commencement of work.

**OPERATIONS AND MAINTENANCE**

THIRTY-TWO: 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 Board, the Department of Water Resources, or any other agency responsible for maintenance and shall, at all times, allow officials from these agencies to access the levee, levee slope, and any adjacent areas as necessary for flood control.

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

THIRTY-FOUR: After each period of high water, debris that accumulates at the site shall be completely removed from the Coon Creek floodway.

THIRTY-FIVE: If erosion occurs adjacent to the permitted encroachment(s), the permittee shall repair the eroded areas and place adequate revetment on the affected areas to prevent further erosion.

THIRTY-SIX: If the bridge is damaged to the extent that it may impair the flow capacity in Coon Creek, it shall be repaired or removed prior to the next flood season.

**PROJECT ABANDONMENT, CHANGE IN PLAN OF FLOOD CONTROL**

THIRTY-SEVEN: 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 Board at the permittee's or successor's cost and expense.

THIRTY-EIGHT: 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 in the discretion of the Board the 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 the project is not maintained or is damaged by any cause. If the permittee does not comply, or in the event of an emergency, the Board may remove the encroachment(s) at the permittee's expense.

END OF CONDITIONS
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