

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

**Staff Report – Encroachment Permit  
City of Colusa  
Colusa Levee Stairway, Colusa County**

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**1.0 – ITEM**

Consider approval of Permit No. 18640 (Attachment B)

**2.0 – APPLICANT**

City of Colusa

**3.0 – LOCATION**

The project is located in Colusa adjacent to the intersection of Main Street and 5th Street. (Sacramento River, Colusa County, see Attachment A)

**4.0 – DESCRIPTION**

The applicant proposes to construct a new 15-foot-wide reinforced concrete staircase with a 3-foot-high, steel pipe handrail on the landside slope of the right (west) bank levee of the Sacramento River.

**5.0 – PROJECT ANALYSIS**

The proposed project involves the construction of concrete stairs on the landside levee slope that will provide public access to the Fifth Street River Park in Colusa. The concrete stairs will be 16-feet wide with a landing about half way up the stairs allowing for the attachment of an arched sign that will identify Fifth Street River Park. Handrails will be installed up to the hinge point of the levee for safety purposes. The proposed stairway was designed using 2007 California Building Code (CBC) loading and bearing capacities. The stairway design conforms to Title 23 standards.

## **5.1 – Hydraulic Analysis**

The proposed project involves the construction of stairs on the landside levee slope. Therefore no hydraulic analysis was required.

## **5.2 – Geotechnical Analysis**

A specific Geotechnical report was not done for the project. A conservative soil type of 4 (classified as sand, silty sand, clayey sand, silty gravel and clayey gravel) was assumed for all design calculations. The contractor is required to verify the general condition of the soil and soil type assumption. The stairway design using the conservative soil assumption provides a safety factor of 1.57 (CBC minimum is 1.5).

## **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 208.10 comment letter has not yet been received for this application. Upon receipt of a favorable letter and review by Board staff it will be incorporated into the permit as Exhibit A.
- State Maintenance Area #1 (Sutter Maintenance Yard) has endorsed this application with no conditions.

## **7.0 – CEQA ANALYSIS**

The City of Colusa, as lead agency under CEQA, approved the project (Colusa Trail Staircase, Colusa County Clerk-Recorder Receipt No. 409132) on January 14, 2011 and determined that the project was categorically exempt under a Class 32 Categorical Exemption (CEQA Guidelines Section 15332) covering in-fill development occurring within city limits.

The Board, acting as a responsible agency under CEQA, has reviewed the City of Colusa's determination and has independently determined that the project is exempt from CEQA under Class 32 (CEQA Guidelines Section 15332) covering in-fill development occurring within city limits.

## **8.0 – SECTION 8610.5 CONSIDERATIONS**

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

The Board will make its decision based on the evidence in the permit application and attachments, this staff report, and any other evidence presented by any individual or group.

2. The best available science that related to the scientific issues presented by the executive officer, legal counsel, the Department or other parties that raise credible scientific issues.

The accepted industry standards for the work proposed under this permit as regulated by Title 23 have been applied to the review of this permit.

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

The proposed project will be constructed on the landside levee slope. Therefore the project will have no effects 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:

The proposed project will be constructed on the landside levee slope and there should be no effects from reasonable projected future events. However, a need to increase the level of flood protection at the project location could require that the steps be removed.

## **9.0 – STAFF RECOMMENDATION**

Staff recommends that the Board determine the project to be exempt from CEQA and approve the permit conditioned upon receipt of a favorable U.S. Army Corps of Engineers comment letter.

## **10.0 – LIST OF ATTACHMENTS**

- A. Location Maps and Photos
- B. Draft Permit No. 18640

### C. Design Drawings

Design Review:

Gary W. Lemon P.E.

Environmental Review:

James Herota and Andrea Mauro

Document Review:

Mitra Emami P.E., Curt Taras P.E., Len Marino P.E.



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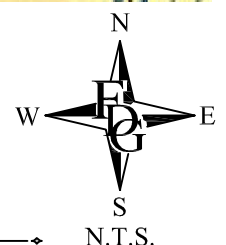


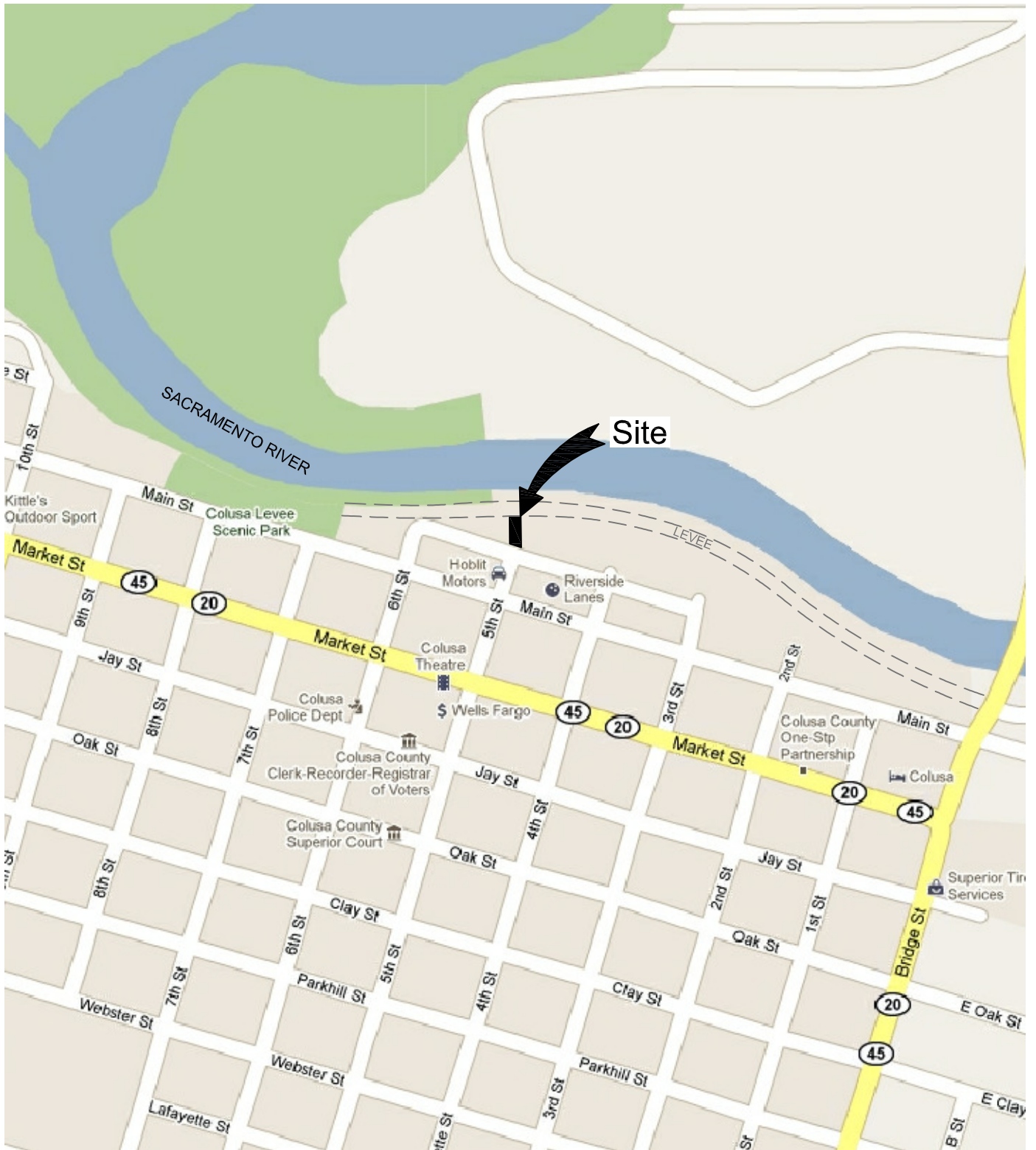
2267 Lava Ridge Ct. Ste. 105 (916) 782-3000 Phone  
Roseville, CA 95661 (916) 782-3955 Fax

CIVIL ENGINEERING • PLANNING • SURVEYING

# Regional Map of Colusa Levee Stairway 5th Street

City of Colusa, California December 2010





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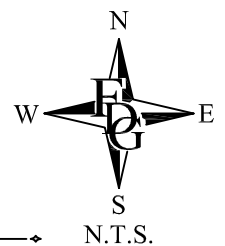


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CIVIL ENGINEERING • PLANNING • SURVEYING

# Vicinity Map of Colusa Levee Stairway 5th Street

City of Colusa, California December 2010









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

**PERMIT NO. 18640 BD**

**This Permit is issued to:**

City of Colusa  
425 Webster Street  
Colusa, California 95932

To construct a new 15-foot-wide reinforced concrete staircase with a 3-foot-high, steel pipe handrail on the landside slope of the right (west) bank levee of the Sacramento River. The project is located in Colusa adjacent to the intersection of Main Street and 5th Street (Section 19, T16N, R1W, MDB&M, Maintenance Area 1, Sacramento River, Colusa 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. 18640 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 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 Central Valley Flood Protection Board shall not be held liable for any damages to the permitted encroachment(s) resulting from flood fight, operation, maintenance, inspection, or emergency repair.

**SEVENTEEN:** The permittee shall submit as-built drawings to the Department of Water Resources' Flood Project Inspection Section upon completion of the project.

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

NINETEEN: 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.

TWENTY: Excavation in the levee slope made for the construction of steps shall not exceed 12 inches in depth.

TWENTY-ONE: Handrails on access ways shall not extend onto the levee crown.

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

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

TWENTY-FOUR: 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.

TWENTY-FIVE: 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.

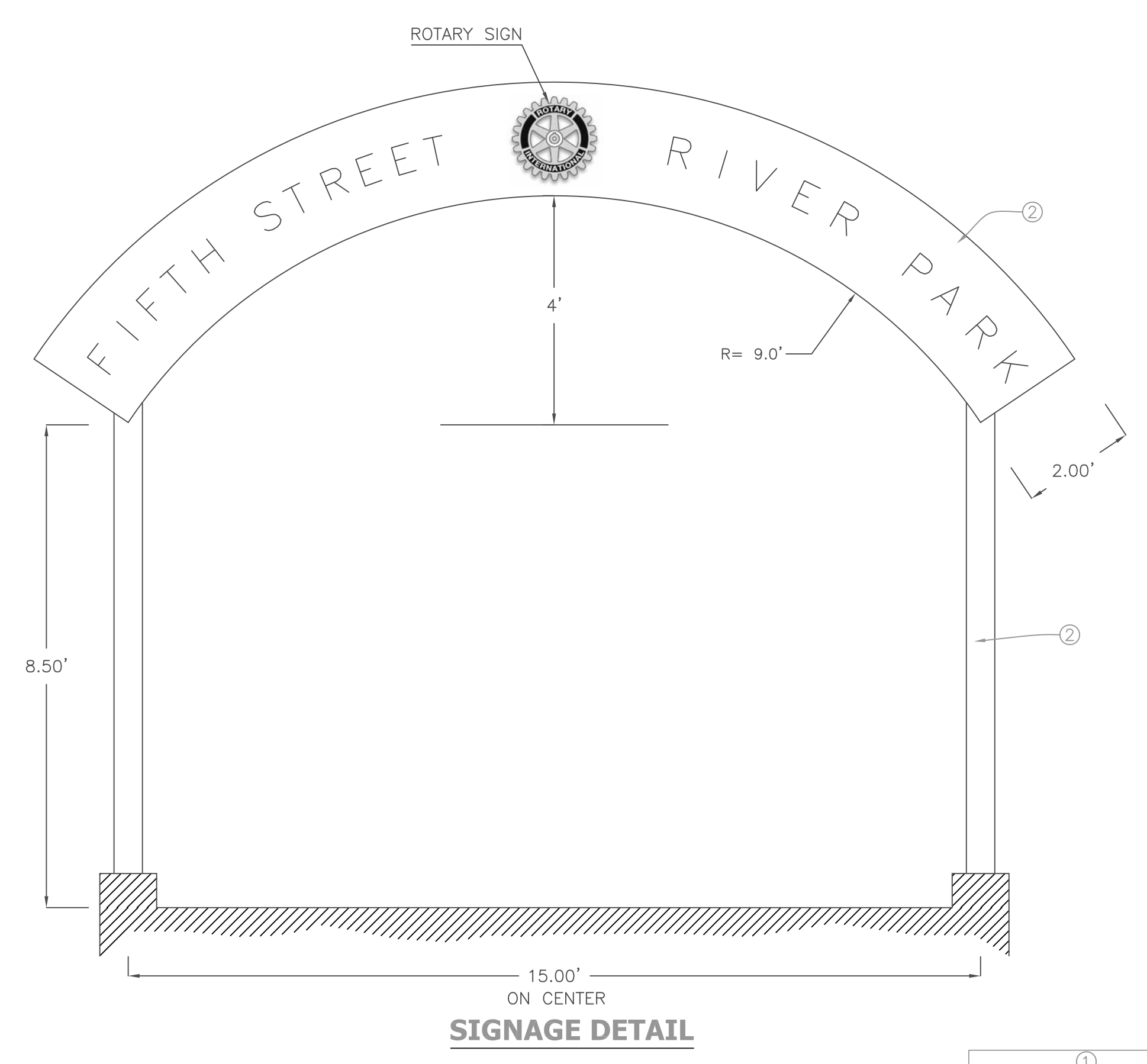
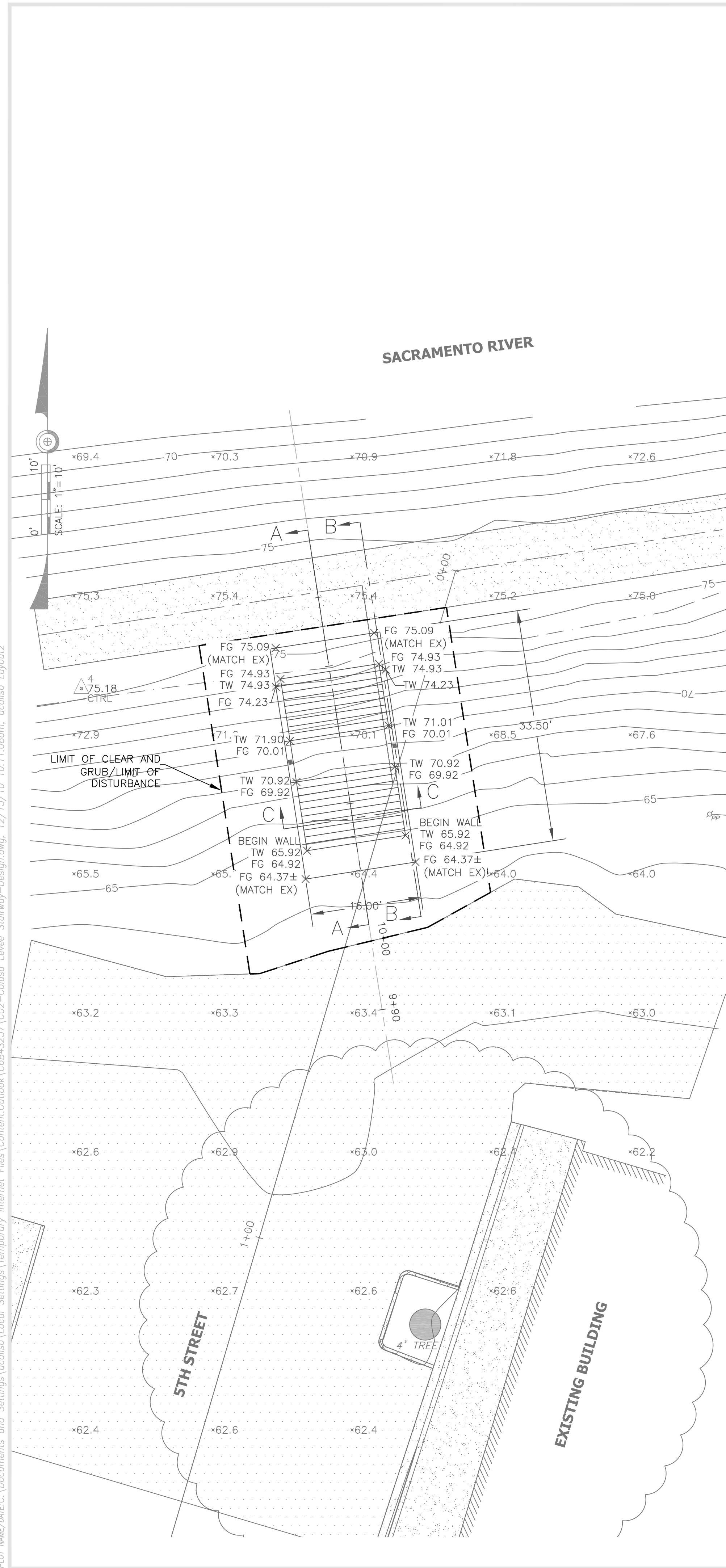
TWENTY-SIX: The permittee may be required, at permittee's cost and expense, to remove, alter, relocate, or reconstruct all or any part of the permitted encroachment(s) if removal, alteration, relocation, or reconstruction is necessary as part of or in conjunction with any present or future flood control 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.

TWENTY-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 Central Valley Flood Protection Board and Department of Water Resources, at the permittee's or successor's cost and expense.

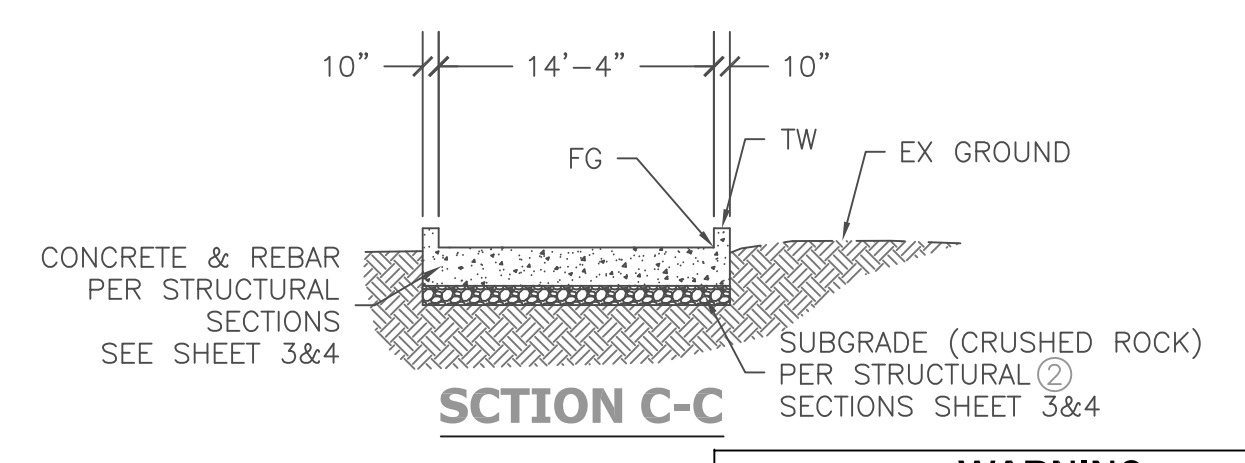
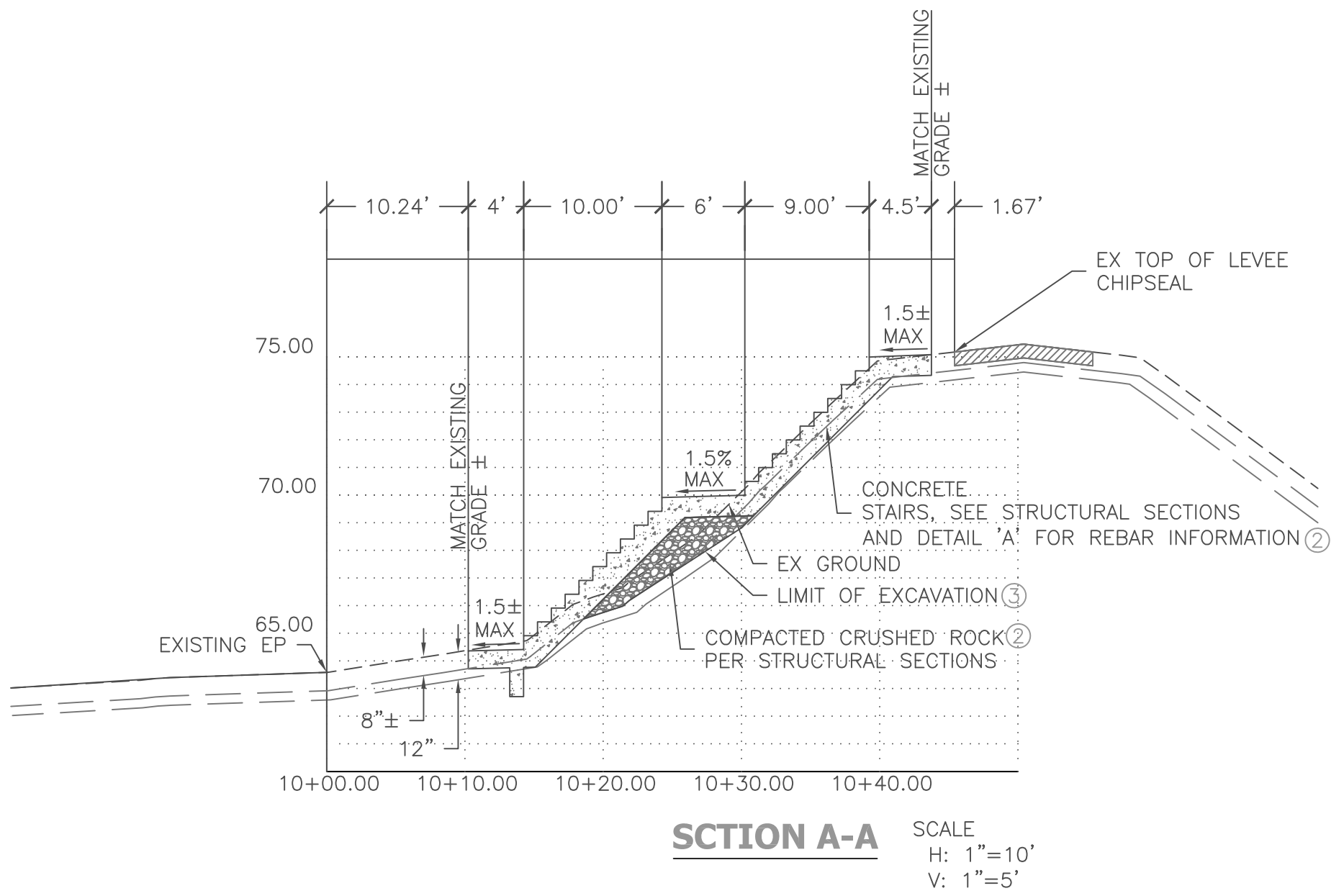
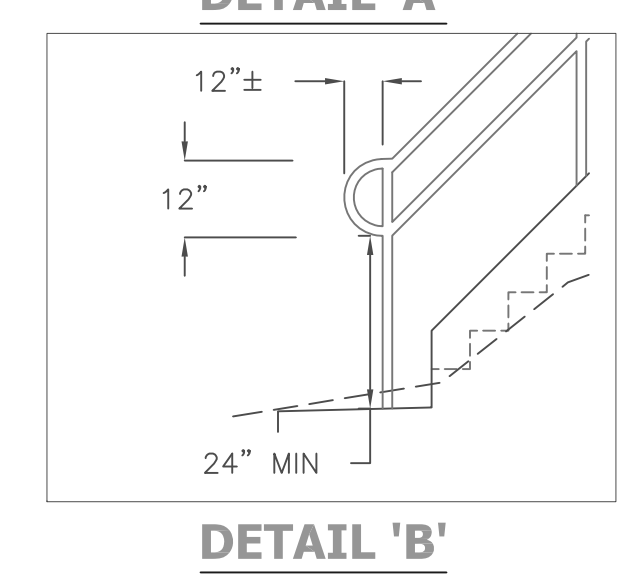
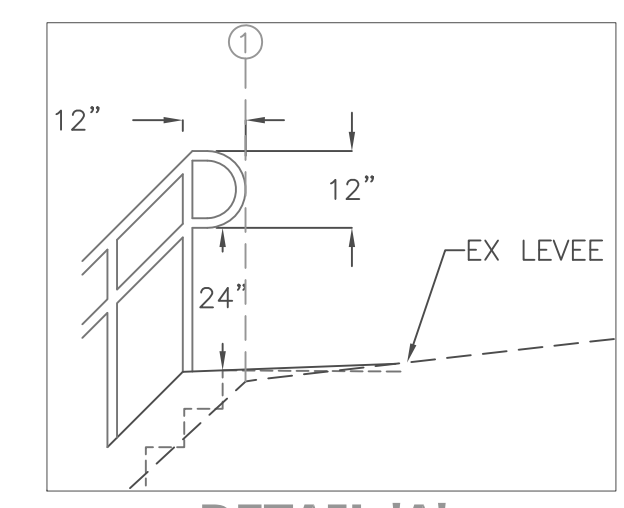
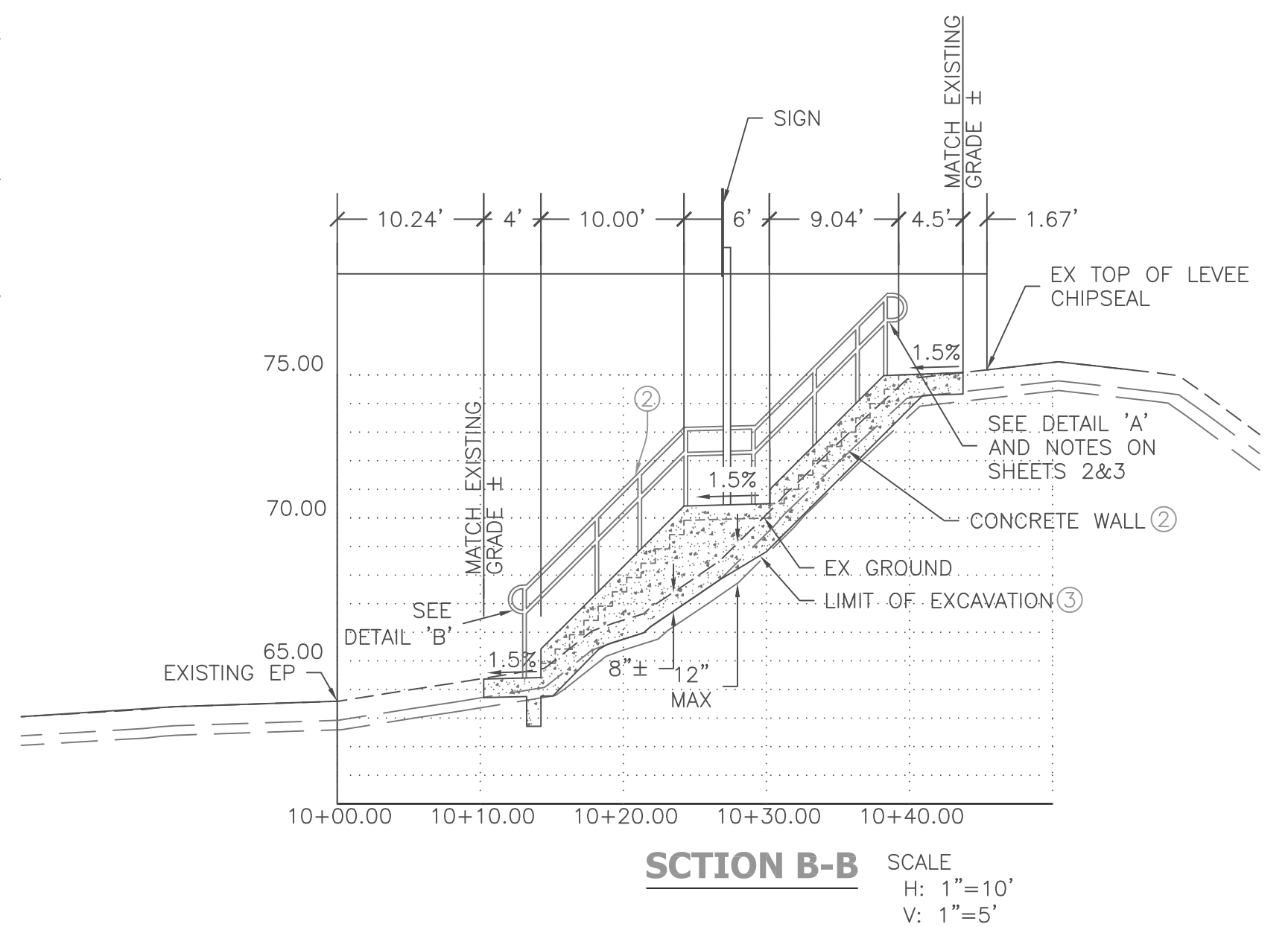
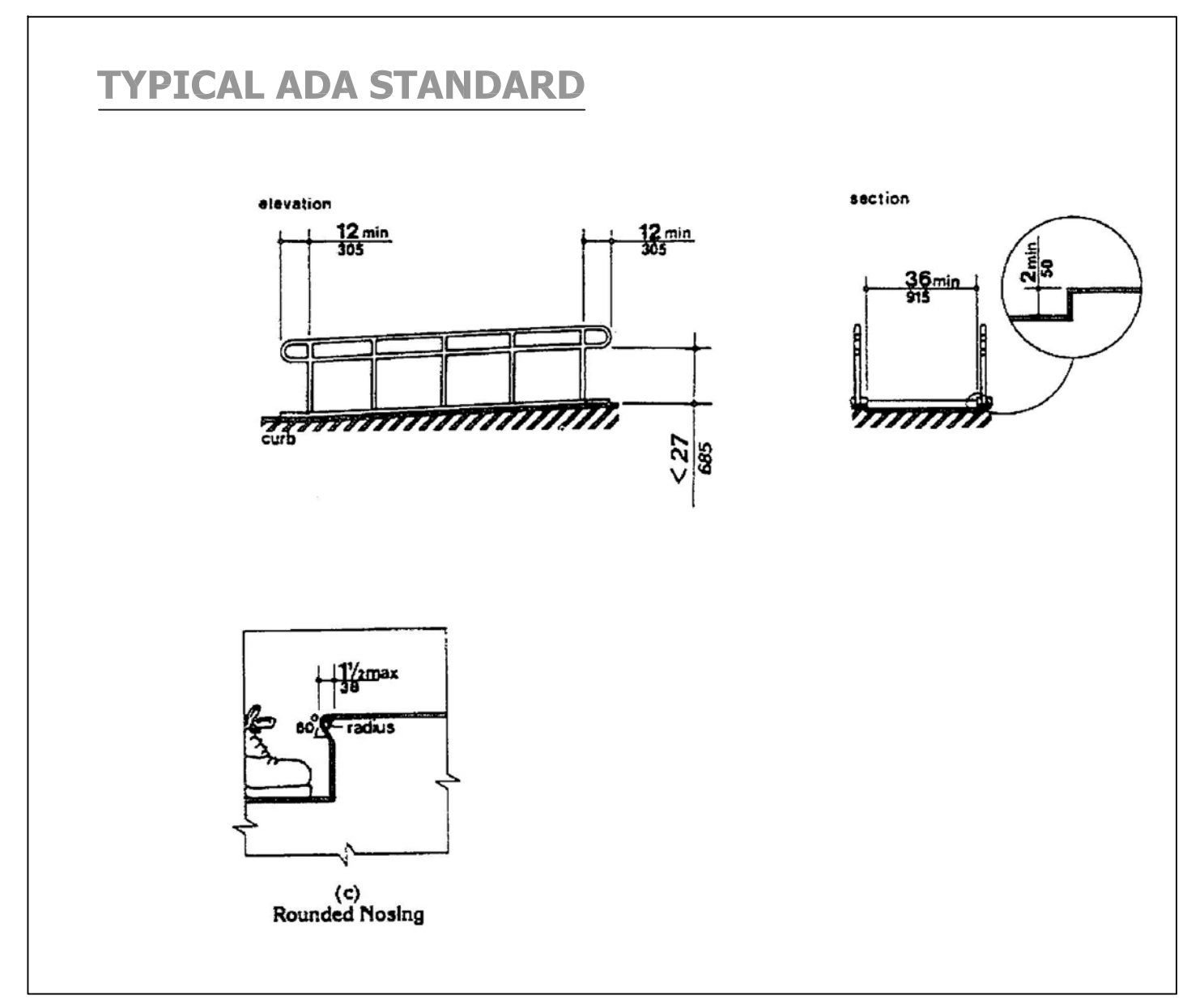
TWENTY-EIGHT: The permittee shall comply with all conditions set forth in the letter from the Department of the Army dated January XX, 2011, which is attached to this permit as Exhibit A and is incorporated by reference.

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- NOTES**
- ① NO ENCROACHMENT BEYOND EXISTING LEVEE HINGE POINT
  - ② SEE SHEETS 3 & 4 FOR STRUCTURAL DETAILS
  - ③ CONTRACTOR SHALL REMOVE A MINIMUM OF 8" ANY MAXIMUM OF 12" OF TOP SOIL AND RECOMPACT AND VOIDS WITH CRUSHED ROCK PER STRUCTURAL NOTES.



**WARNING**  
 EXISTING UNDERGROUND UTILITIES  
 CALL USA 1-800-227-2600

PRELIMINARY SUBJECT TO REVIEW-NOT FOR CONSTRUCTION

PRELIMINARY - SUBJECT TO REVISION

DESIGNED BY: K. HASSAN  
 DRAFTING BY: M. HILL  
 UNDER THE SUPERVISION OF TONY J. FRAYJI

PROFESSIONAL ENGINEER - FRAJJI  
 NO. 67285  
 EXP. 12-31-11  
 REGISTERED PROFESSIONAL CIVIL ENGINEER OF CALIFORNIA

SCALE  
 AS SHOWN

PROJECT NO.  
 12100-100

SHEET  
 2 OF 4

NOVEMBER 2, 2010