



Bridge Design Details 1.5 June 2025

Use of Standard Plans

The California Department of Transportation issues a book of Standard Plans, which includes Roadway and Bridge Standard Plans. This book is an official part of the contract for all projects, and the edition should be noted in GENERAL NOTES for all projects (including maintenance type projects with multiple structures). The GENERAL NOTES may be abbreviated, but at the very least the GENERAL NOTES will allow a singular place for the Standard Plan edition to be shown rather than adding RSPs throughout the plans.

Typical Standard Plans

Structure Plans shall include a standard plan bubble that refers to the standard detail used for a given design. Structure Project Engineers will provide Standard Plans List Transmittal form to Structure Office Engineer (SOE) at P&Q and Expedite Step 1, see Attachment 1A.D.1 and 1A.D.2

If a Standard Plan sheet has been revised since its original release date, Revised Standard Plans (RSPs) will be provided in the Special Provisions and noted in the GENERAL NOTES, as shown in Figure 1.5.1. Do not show RSP in the bubbles on the plans.

Standard Plans that are referenced within the notes or elsewhere on a Standard Plan do not need to be included in the list to SOE. However, if these nested Standard Plans or others used for the design or detailing are revised, the RSP should be provided in the District Roadway Plans placed before the Structure Plans. It is the Project Engineer's and Specification Engineer's responsibility to make sure all the RSPs are included in the structure specifications, which will list the RSPs to be included in the final advertised plan set.

District and SOE may request that the structure package and standard edition be updated all the way up to the time a project is advertised. As soon as the preview site is posted, Project Engineers should start this transition.

GENERAL NOTES LOAD AND RESISTANCE FACTOR DESIGN

DESIGN:
AASHTO LRFD Bridge Design Specifications,
2017 edition with California Amendments
updated June 2024

Standard Plans and Specifications, 2024 edition
with Revised Standard Plans, dated January 2025

Figure 1.5.1 General Notes

Modifying Standard Plan Details

If a detail shown on a Standard Plan sheet is to be modified or replaced for a specific project, a new detail shall be drawn on a structure plan sheet with the modifications required. Once modified, a reference should be made to the associated Standard Plan details used so additional details may be found, if necessary.

Only modifications to Standard Plans need to be shown. Per Standard Specifications (5-1.02), if a discrepancy exists, the project plans govern over Standard Plans.

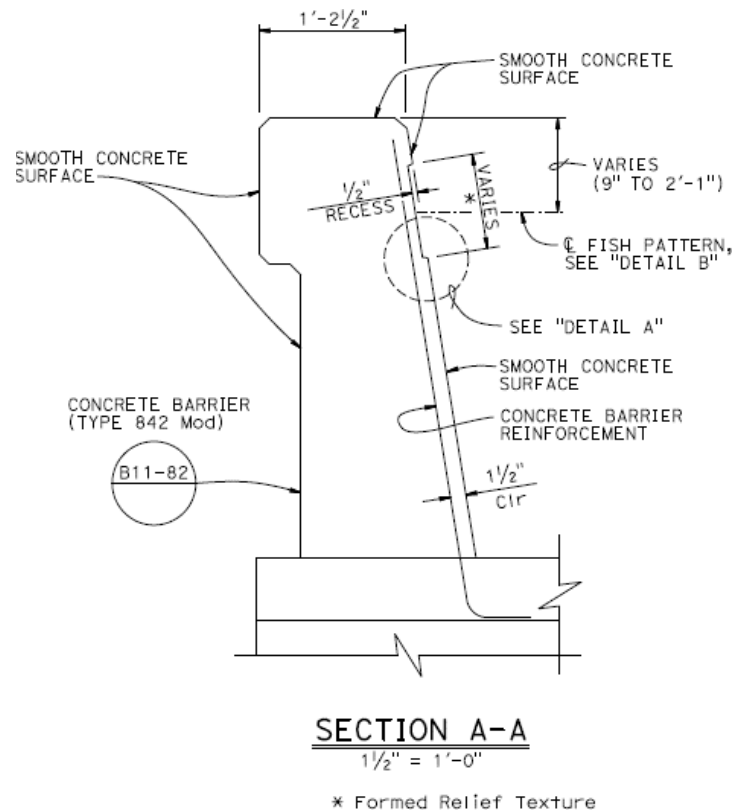


Figure 1.5.2 Example of Modified Barrier

If a standard plan "bubble" is shown on a detail sheet, and no specific detail is referenced in the bottom half of the circle, the bottom of the circle should be blank. If a specific detail callout is warranted on a standard plan, the bottom of the circle should show the name of the detail.

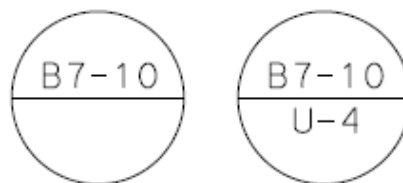


Figure 1.5.4 Example of Standard Plan Bubble

When a Standard Plan or RSP shows “Min” length, which is tied to length of payment for other items, the actual length should be shown clearly on the plans.

EXAMPLES:

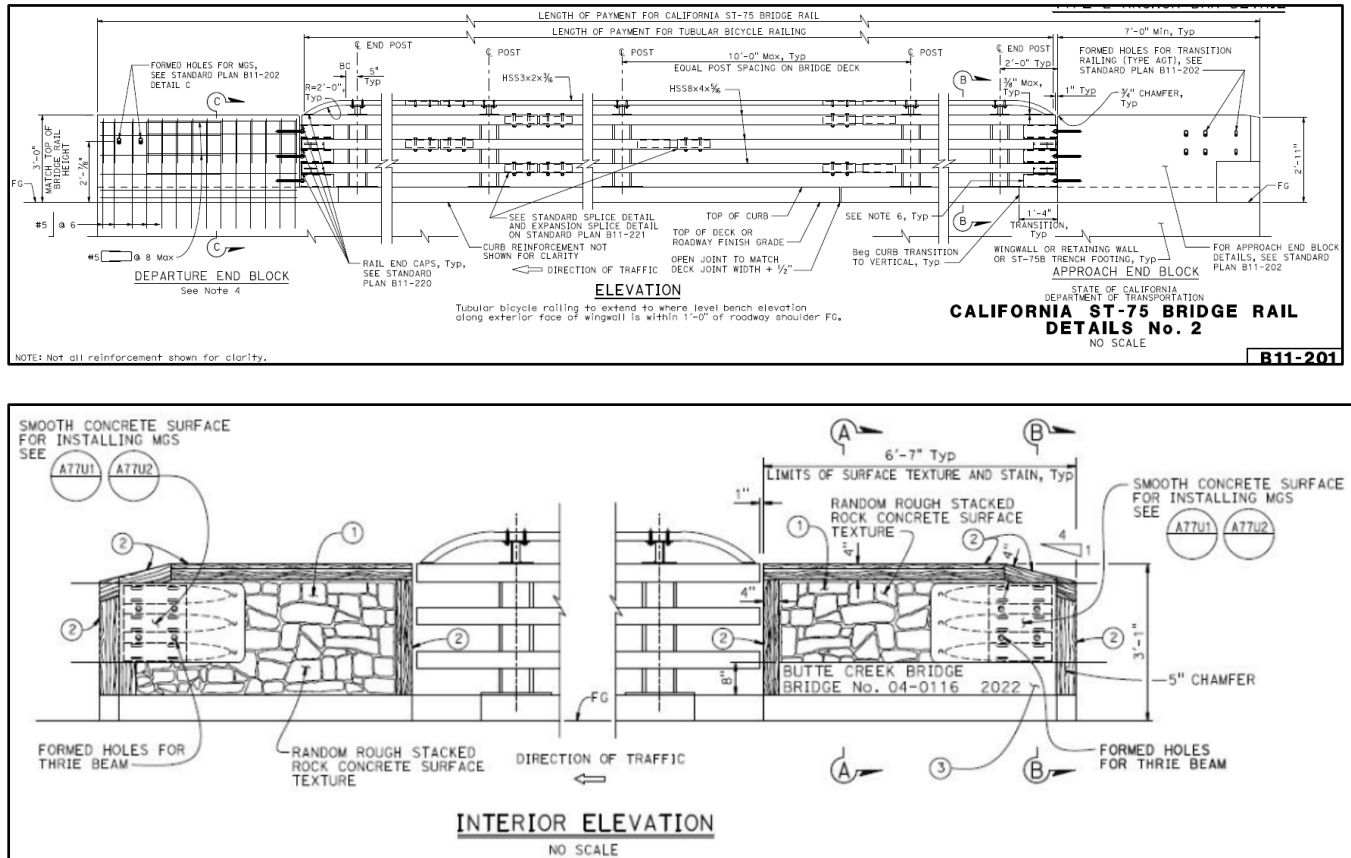


Figure 1.5.4 Example of Modified Barrier End Block