

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER X DATE

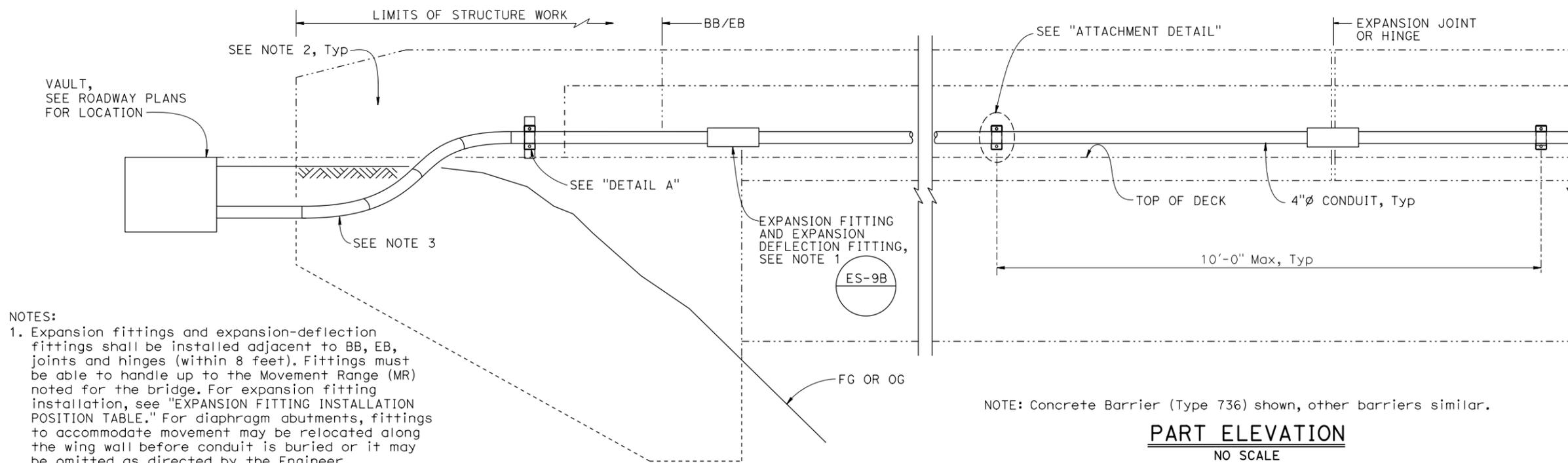
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

THE REGISTERED CIVIL ENGINEER FOR THE PROJECT IS RESPONSIBLE FOR THE SELECTION AND PROPER APPLICATION OF THE COMPONENT DESIGN AND ANY MODIFICATIONS SHOWN.



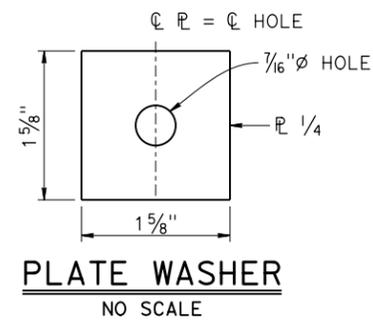
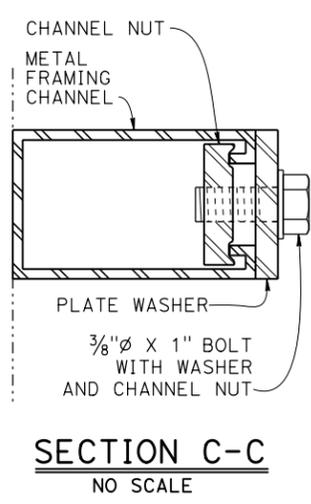
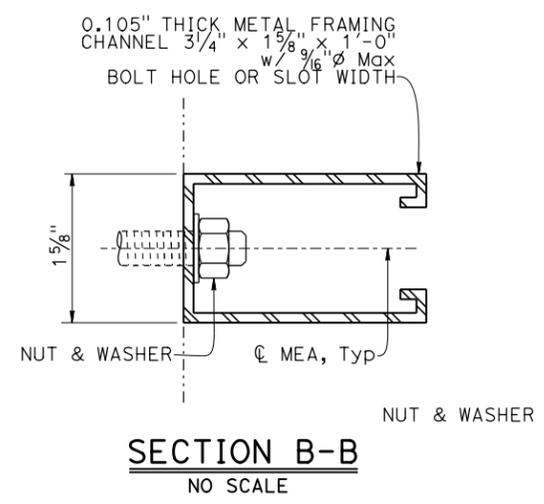
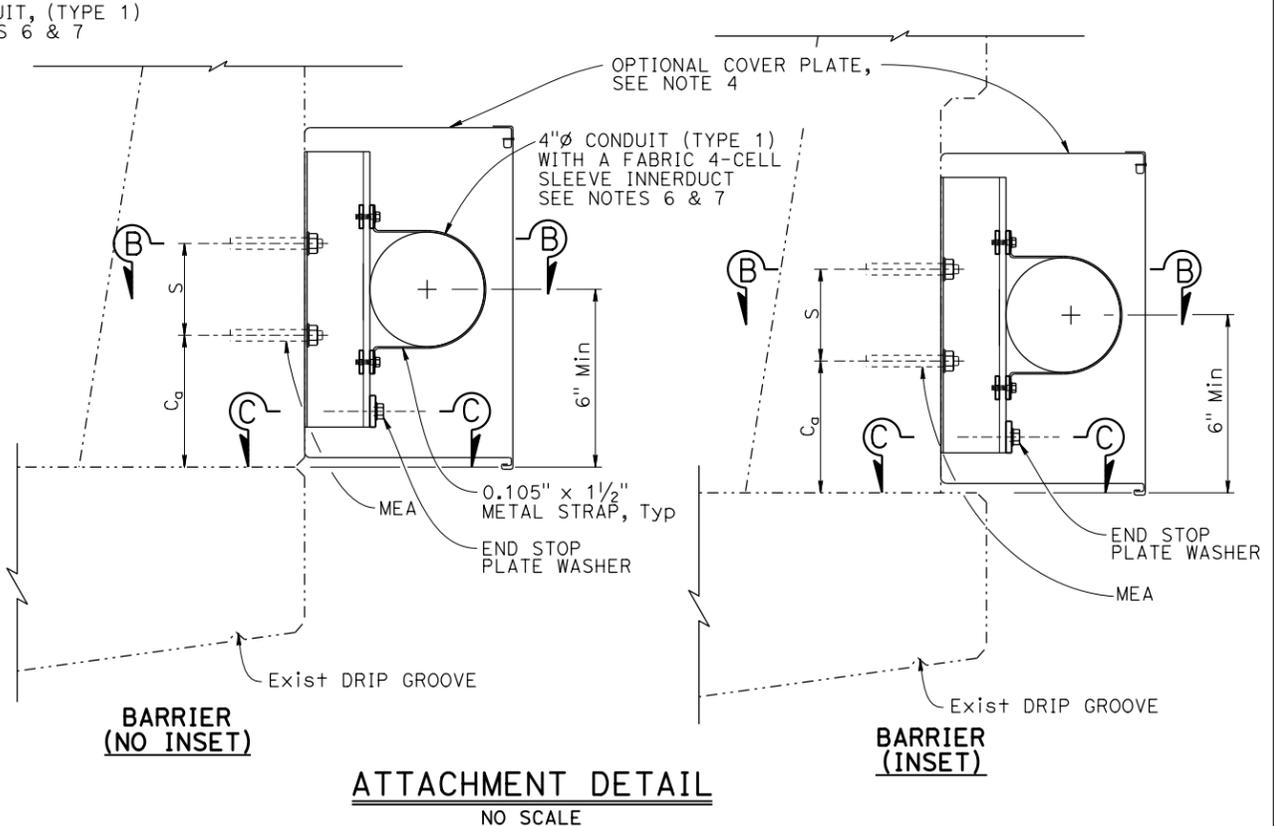
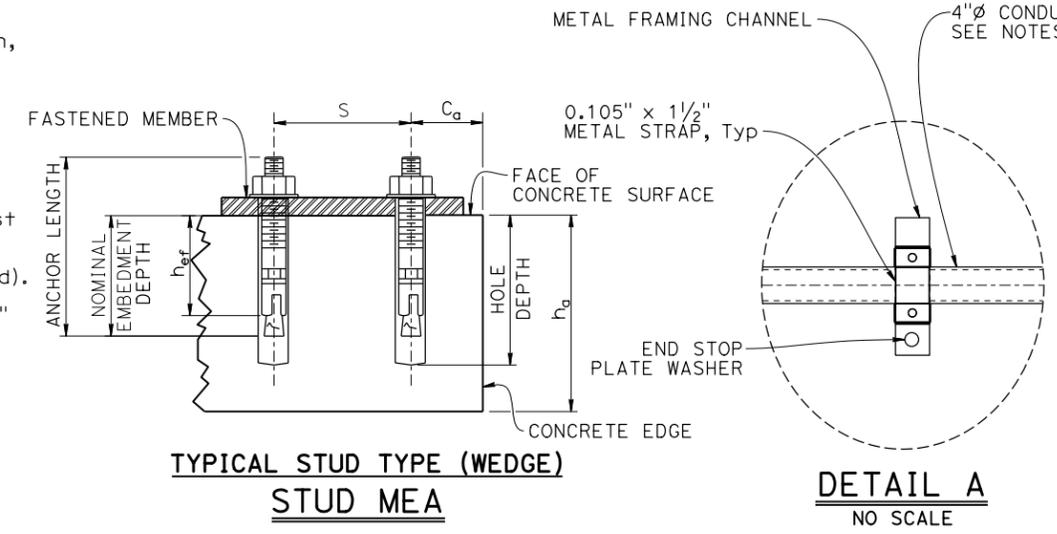
LEGEND:  
 ----- Existing structure  
 MEA - Mechanical Expansion Anchor



- NOTES:
- Expansion fittings and expansion-deflection fittings shall be installed adjacent to BB, EB, joints and hinges (within 8 feet). Fittings must be able to handle up to the Movement Range (MR) noted for the bridge. For expansion fitting installation, see "EXPANSION FITTING INSTALLATION POSITION TABLE." For diaphragm abutments, fittings to accommodate movement may be relocated along the wing wall before conduit is buried or it may be omitted as directed by the Engineer.
  - For vault locations and other details not shown, see ROADWAY PLANS.
  - Type 1 conduit continues to vault near bridge.
  - For additional details and "OPTIONAL COVER DETAIL" see "COMMUNICATION CONDUIT ATTACHMENT DETAILS" sheet.
  - All mounting hardware shall be produced against corrosion.
  - Use 4"Ø conduit, (optional 5"Ø conduit is allowed).
  - For 4"Ø conduit, a minimum bend radius of 2'-0" is required to allow cable pulls through the conduit.

NOTE: Concrete Barrier (Type 736) shown, other barriers similar.

**PART ELEVATION**  
NO SCALE



Anchor Diameter (in)	Minimum Effective Embedment $h_{ef}$ (in)	Minimum Concrete Thickness $h_a$ (in)	Minimum Edge Distance $C_a$ (in)	Minimum Anchor Spacing $S$ (in)
1/2	3/4	6	4	4

INSTALLATION PERIOD	% OF MAXIMUM EXPANSION RANGE
December to February	80%
March to May and September to November	50%
June to August	20%

BRIDGE STANDARD DETAILS

**xs20-020-2** FILE NO.

MAY 2023 APPROVAL DATE

The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California.

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE No. XX-XXXX  
 POST MILE X.X

**COMMUNICATION CONDUIT Att (BARRIER)**

REVISION DATES SHEET OF

X X