

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

REGISTERED CIVIL ENGINEER DATE \_\_\_\_\_

PLANS APPROVAL DATE \_\_\_\_\_

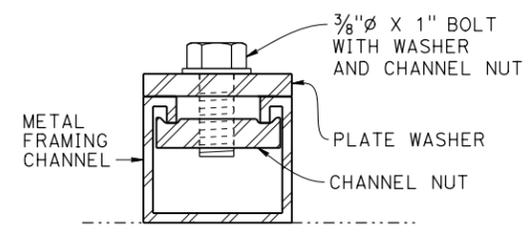
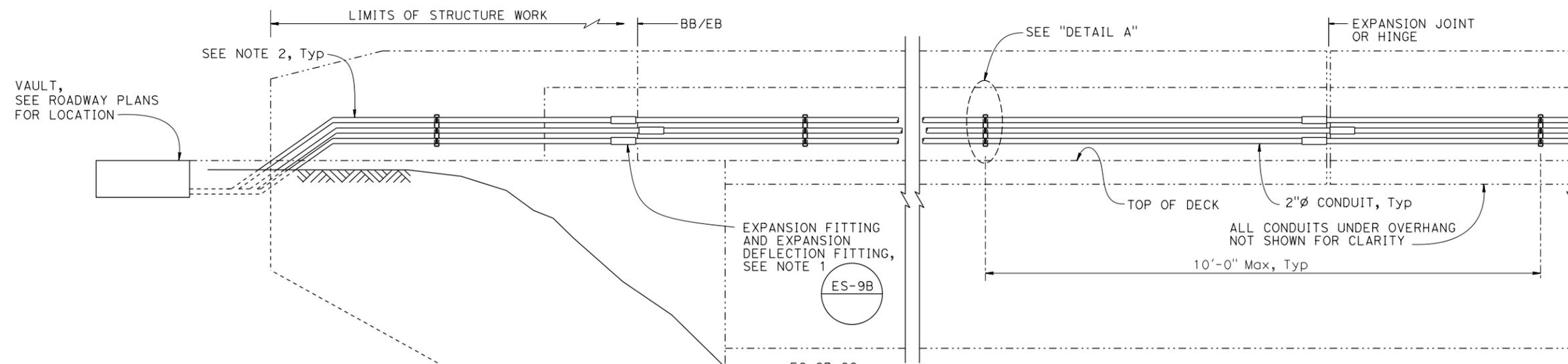
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THE REGISTERED CIVIL ENGINEER FOR THE PROJECT IS RESPONSIBLE FOR THE SELECTION AND PROPER APPLICATION OF THE COMPONENT DESIGN AND ANY MODIFICATIONS SHOWN.



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

- NOTES:
- Expansion fittings and expansion-deflection fittings shall be installed adjacent to BB, EB, joints or hinges (within 8 feet). Fittings must be able to handle up to the Movement Range (MR) noted for the bridge. Stagger fittings on either side of BB, EB, joints or hinges. At expansion fittings, add gradual field bends as needed. For expansion fitting installation, see "EXPANSION FITTING INSTALLATION POSITION TABLE."
  - For vault locations and other details not shown, see ROADWAY PLANS.
  - For additional details and "OPTIONAL COVER DETAIL", see "COMMUNICATION CONDUIT (ATTACHMENT DETAILS)" sheet.
  - For short overhangs with reduced space, bridging over the drip groove will be allowed as directed by the Engineer.
  - For 2"Ø conduits, a minimum bend radius of 1'-2" is required if the total bend degrees between pull point/vaults is 90 degrees or less. For total bend degrees from 90 to 180 the minimum bend radius for all bend fittings is 2'-0".
  - All mounting hardware shall be protected against corrosion.

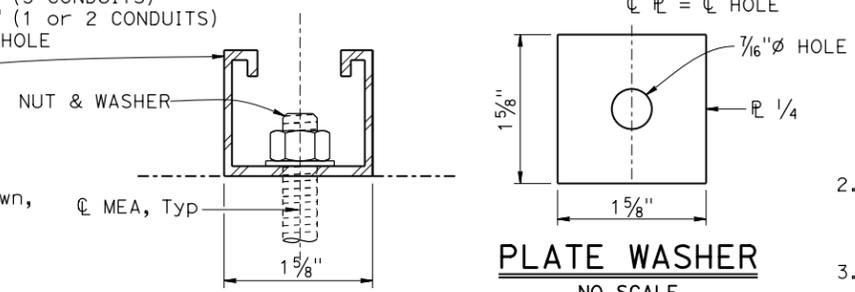


**SECTION C-C**  
NO SCALE

**PART ELEVATION**  
NO SCALE

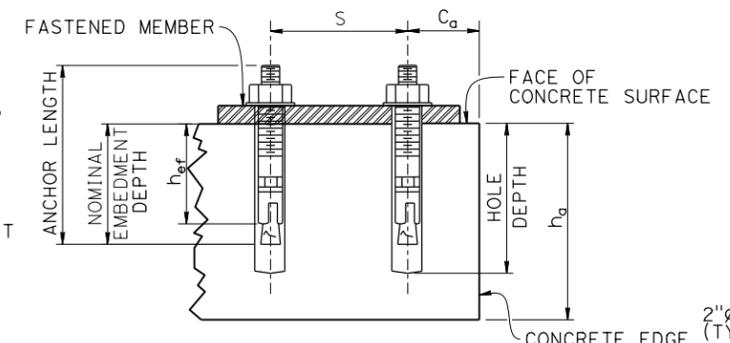
NOTE: Concrete Barrier (Type 736) shown, other barriers similar.

0.105" THICK METAL FRAMING CHANNEL  
 1 5/8" x 1 3/8" x 1'-4" (3 CONDUITS)  
 1 5/8" x 1 3/8" x 1'-0" (1 or 2 CONDUITS)  
 w/ 9/16"Ø Max BOLT HOLE OR SLOT WIDTH



**PLATE WASHER**  
NO SCALE

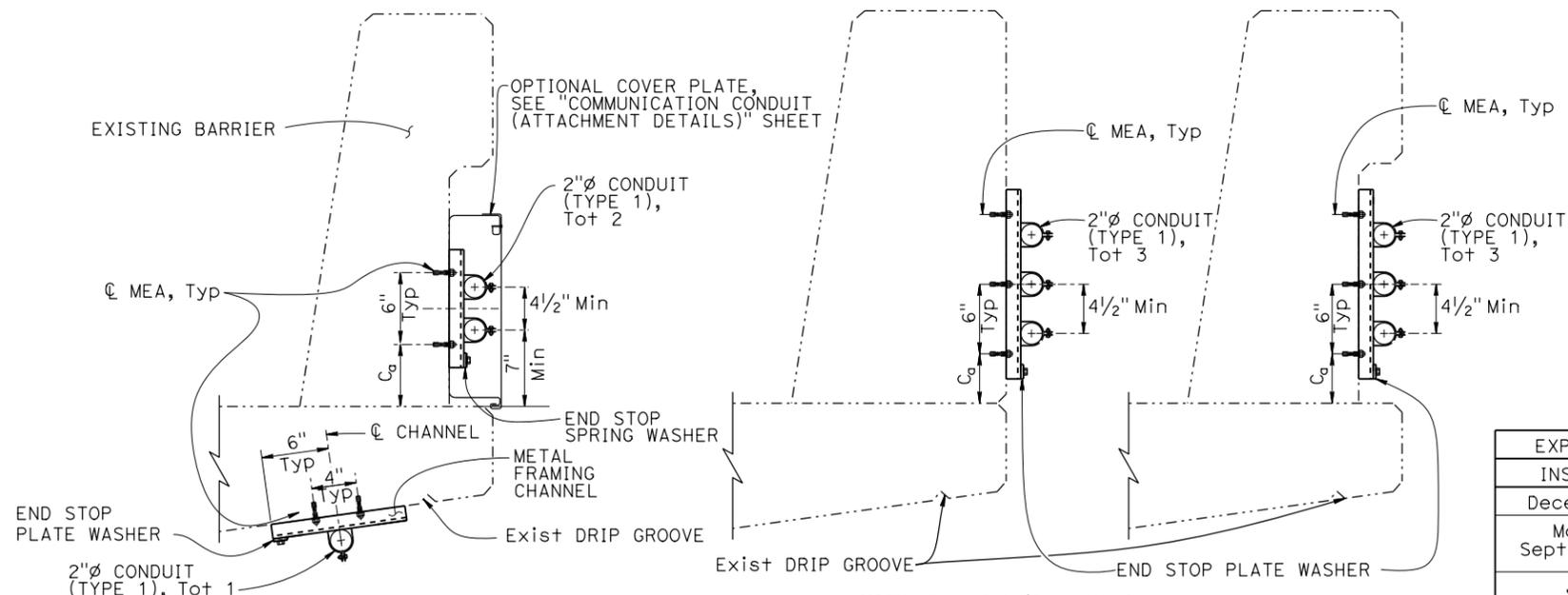
**SECTION B-B**  
NO SCALE



**TYPICAL STUD TYPE (WEDGE) STUD MEA**

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

CONCRETE ANCHORAGE REQUIREMENTS			
Minimum Effective Embedment $h_{ef}$ (in)	Minimum Concrete Thickness $h_a$ (in)	Minimum Edge Distance $c_a$ (in)	Minimum Anchor Spacing $S$ (in)
1 1/2	6	6	3

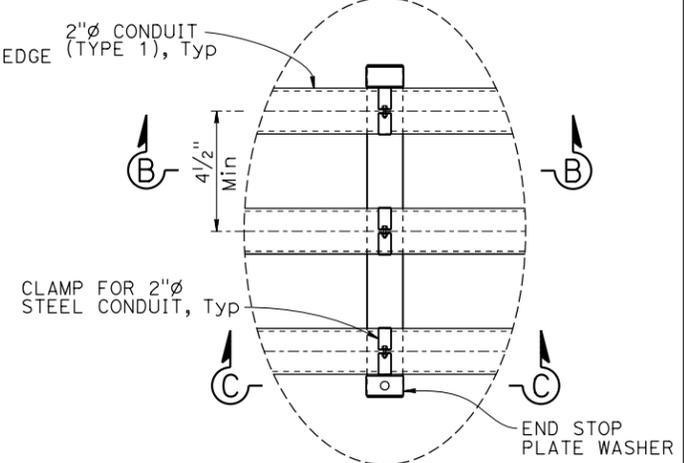


**BARRIER & OVERHANG**

**BARRIER (NO INSET) ATTACHMENT DETAIL**  
NO SCALE

**BARRIER (INSET)**

NOTE: For details not shown, see "BARRIER & OVERHANG".



**DETAIL A**  
NO SCALE

BRIDGE STANDARD DETAILS

**xs20-010-2** 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

UNIT: XXXX PROJECT NUMBER & PHASE: XXXXXXXXXX

**COMMUNICATION CONDUIT (BARRIER)**

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
	X	X