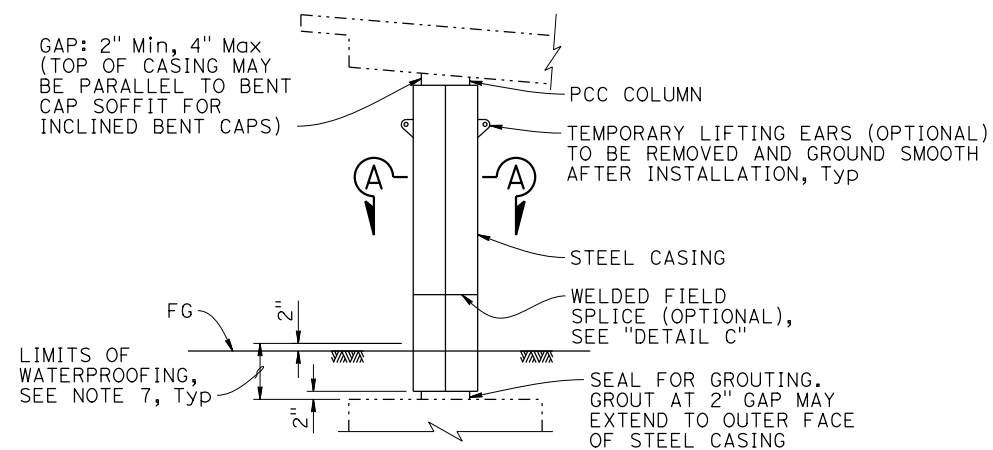
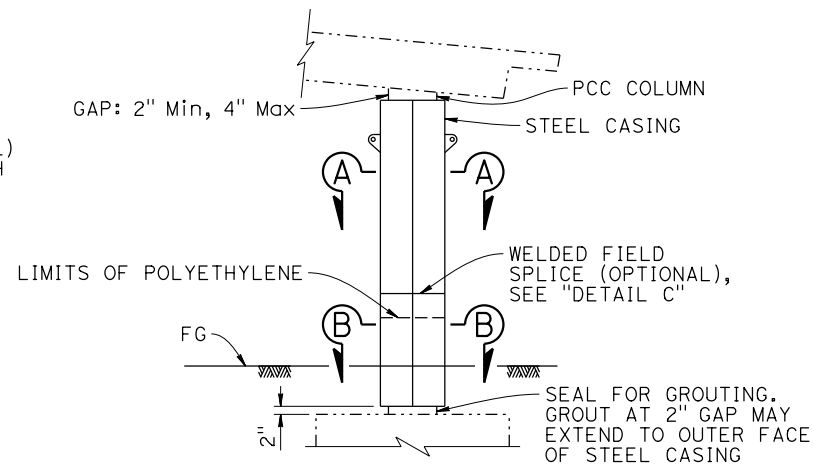
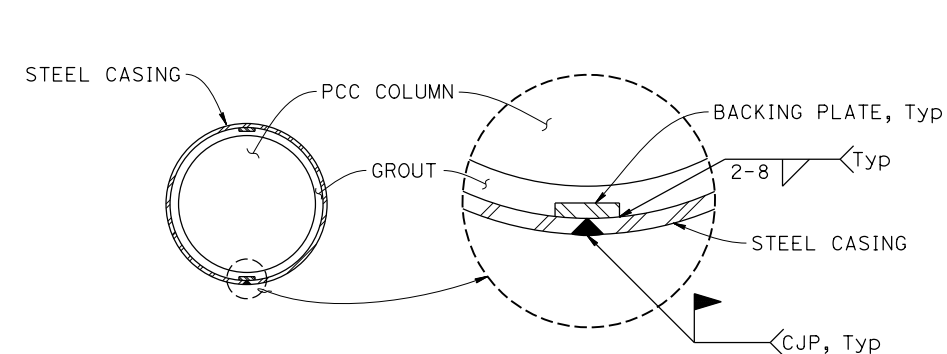




COLUMN CASING (TYPE F)

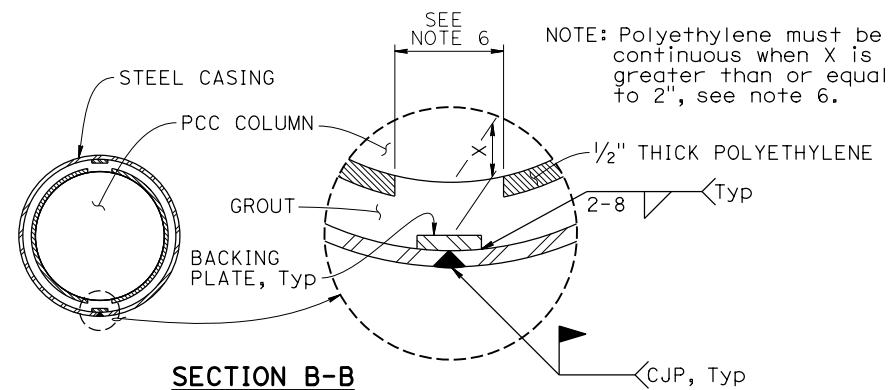


COLUMN CASING (TYPE P/F)



SECTION A-A

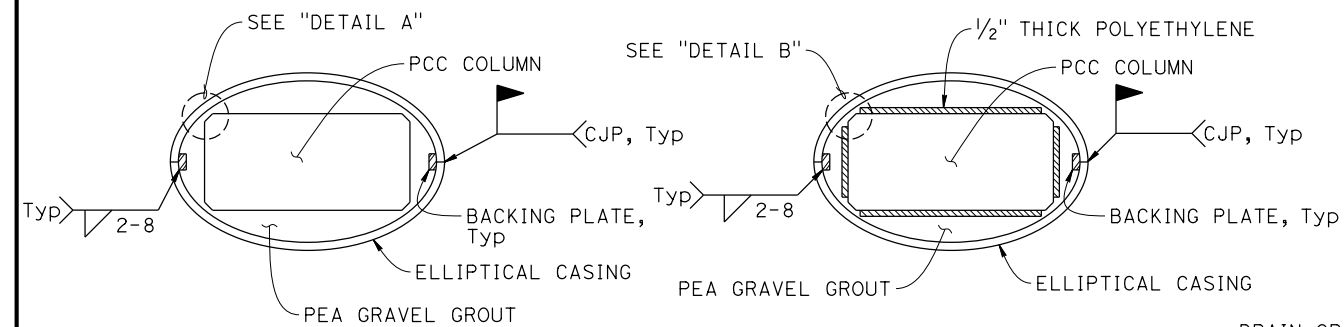
NOTE: Minimum distance between the column and inside surface of the casing = 1½" for Type F casing.



SECTION B-B

NOTE: Minimum distance between the column and inside surface of the casing = 2½" for Type P/F casing.

CIRCULAR COLUMN



SECTION A-A

SECTION B-B

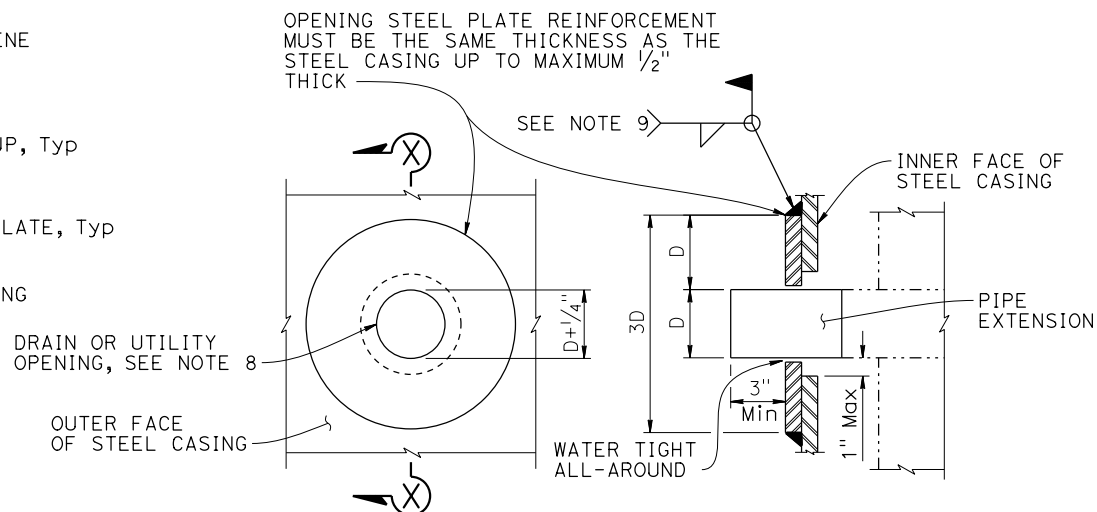


DETAIL A



DETAIL B

RECTANGULAR COLUMN

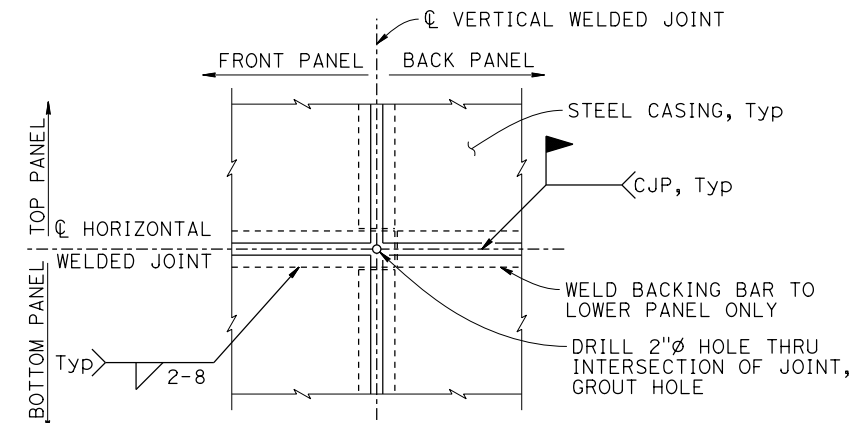


PART ELEVATION

SECTION X-X

CASING OPENING

NOTE: Opening steel plate reinforcement required
for drain or utility openings larger than 4".



WELD FIELD SPLICE (OPTIONAL)

DETAIL C

NOTES:

1. For varying casing thickness, steel casing inside surface to remain flush. Minimum clearance from PCC column to casing shall be maintained.
2. Appropriate injection nozzles to be provided on casing, but removed and ground flush following completion of grouting operation.
3. For circular columns, all voids between steel casing and polyethylene (Type P/F) and steel casing and PCC column (Type F) to be filled with grout. For non-circular casings, all voids between steel casing and polyethylene (Type P/F) and steel casing and PCC column (Type F) to be filled with pea gravel grout as specified in Standard Specifications Section 60-4.06B(2).
4. Location and number of vertical and horizontal welds to be determined by the Contractor and subject to the approval of the Engineer. The location of casing welds are for illustration. No skip welds allowed.
5. Minimum casing thickness for circular and rectangular columns to be $\frac{3}{8}$ ". Backing plate to be $\frac{3}{8}$ ".
6. Contractor must remove 12" polyethylene strip behind backing plate if backing plate is closer than 2" from face of column.
7. Waterproof limits for steel casings. Typical for Type "F" and Type "P/F".
8. For pipe extensions, opening must be no more than $\frac{1}{4}$ " greater than the pipe extension outside diameter. For other openings, the opening diameter to be determined by the Engineer.
9. Fillet weld shall be the same size as the thickness of opening steel plate reinforcement.

NO SCALE

BRIDGE STANDARD DETAILS			DATE PLOTTED => 25-SEP-2025 FILE => xs7-010.dgn TIME PLOTTED => 09:41 USERNAME => s155182 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0123				STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES		BRIDGE No.		X COLUMN CASING - STEEL					
XX-XXXX																		
POST MILE																		
X.X																		
xs7-010 FILE No.	October 2025 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																
Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html							UNIT: XXXX PROJECT NUMBER & PHASE: XXXXXXXXXX1		COUNTY/ROUTE /ZONE: XXX/XXX/X CONTRACT No.: XX-XXXXX4		DISREGARD PRINTS BEARING EARLIER REVISION DATES		REVISION DATES		SHEET		OF	
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