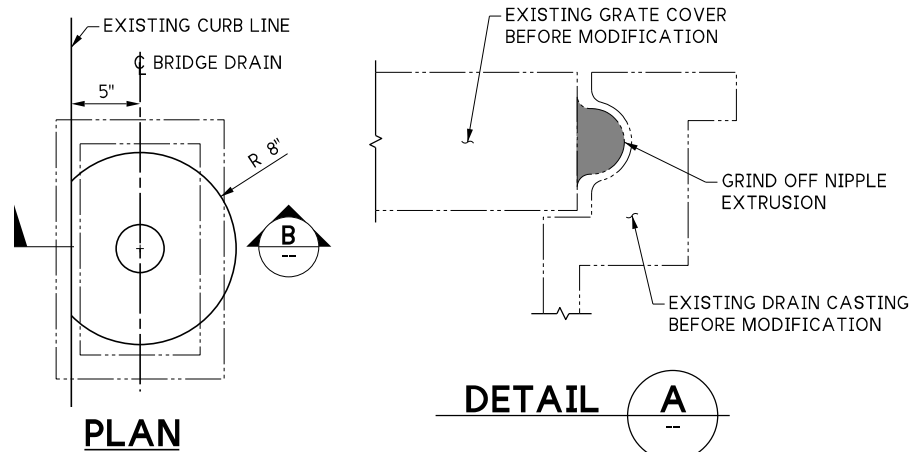
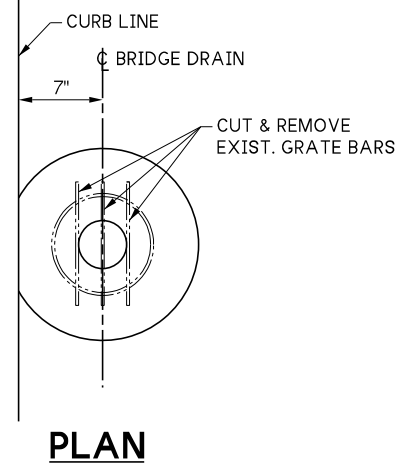


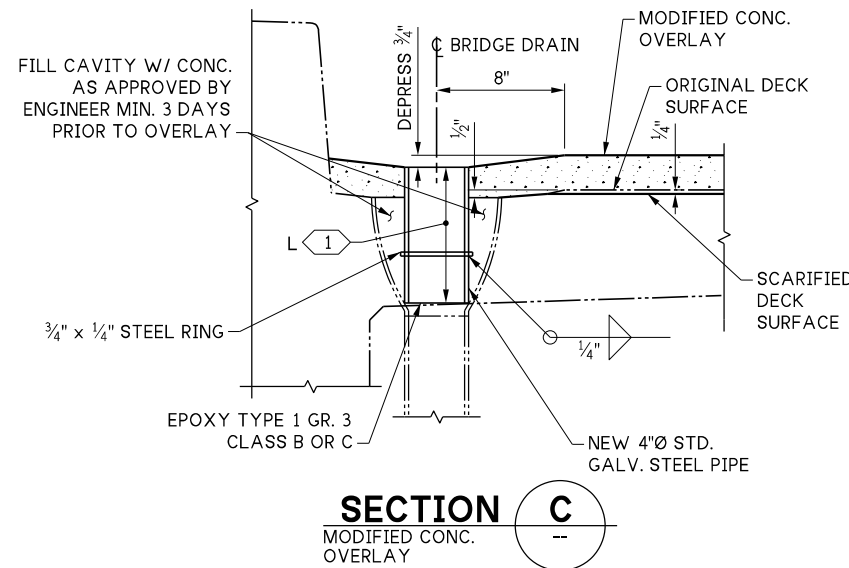
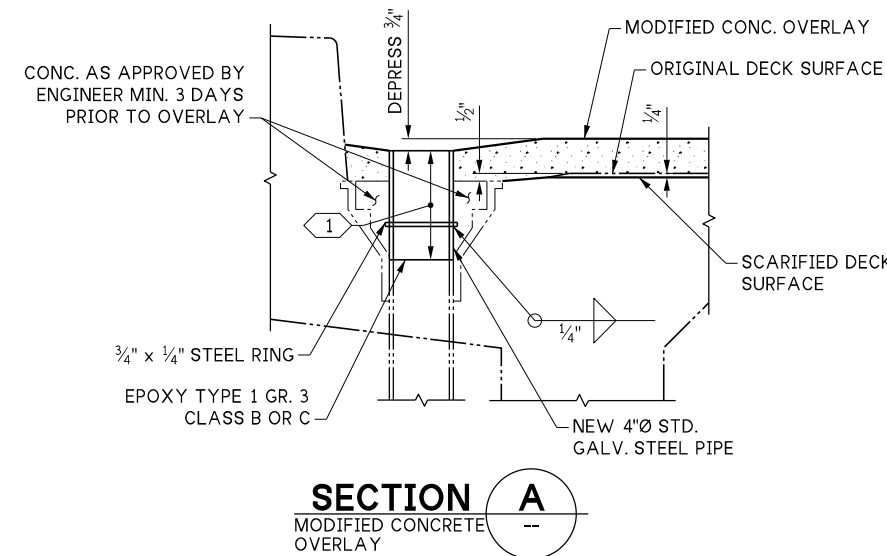
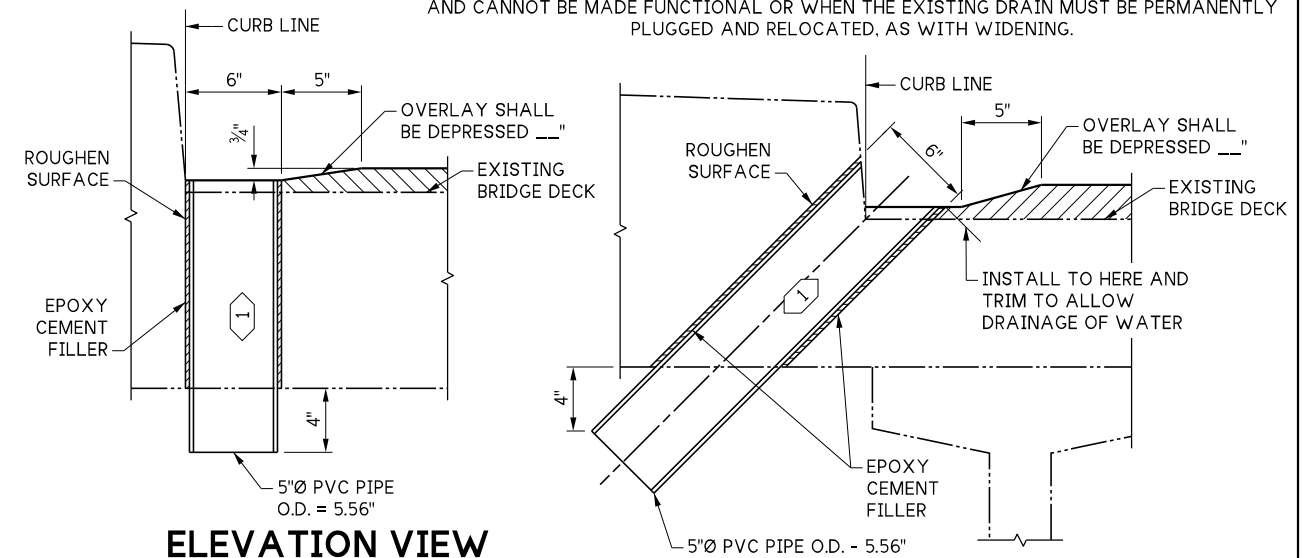
**ALTERNATE MODIFICATION FOR BRIDGE
DRAIN TYPES "1", "1B", & "1C"**



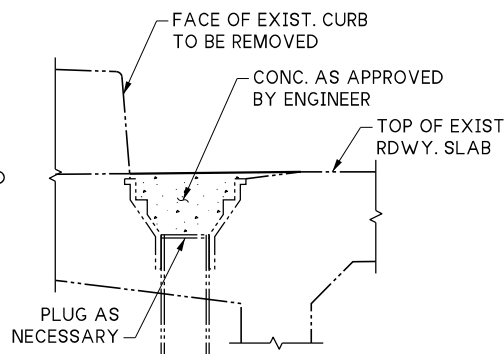
**OVERLAY MODIFICATION FOR
BRIDGE DRAIN TYPE 6**



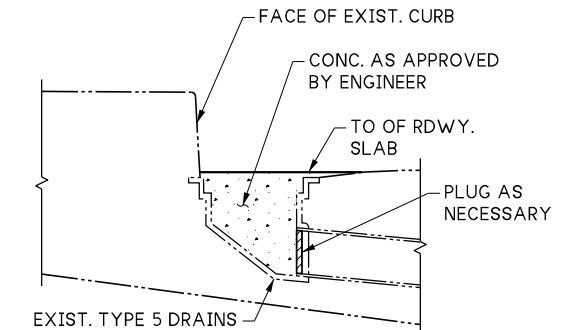
DRAIN MODIFICATION BY CORE DRILLING
THIS MODIFICATION MAY BE REQUIRED WHEN THE EXISTING DRAIN IS NOT FUNCTIONAL AND CANNOT BE MADE FUNCTIONAL OR WHEN THE EXISTING DRAIN MUST BE PERMANENTLY PLUGGED AND RELOCATED, AS WITH WIDENING.



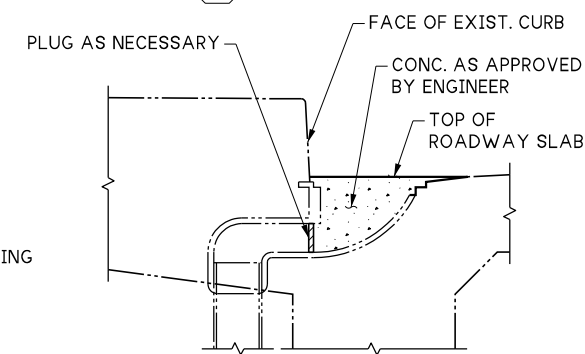
**ELEVATION VIEW
STRAIGHT DROP**



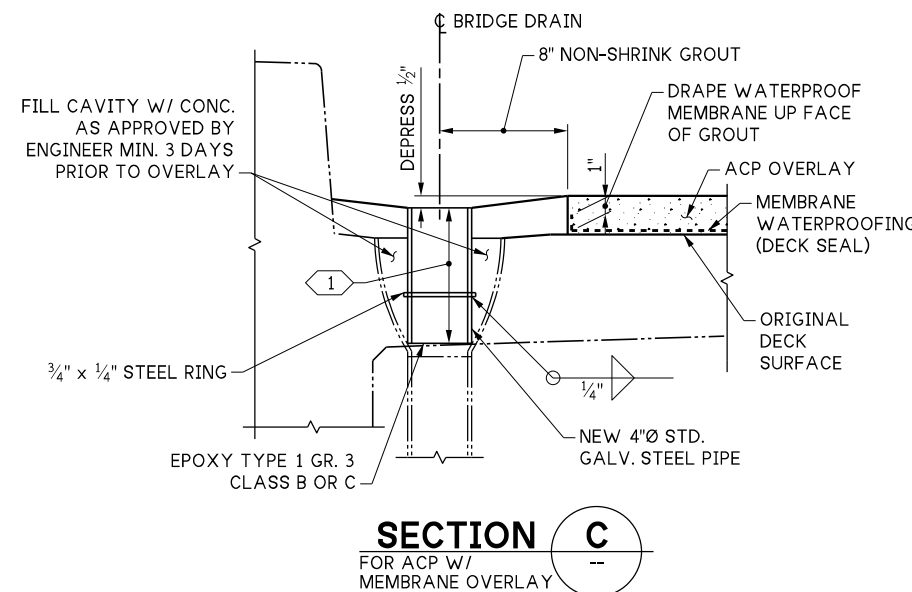
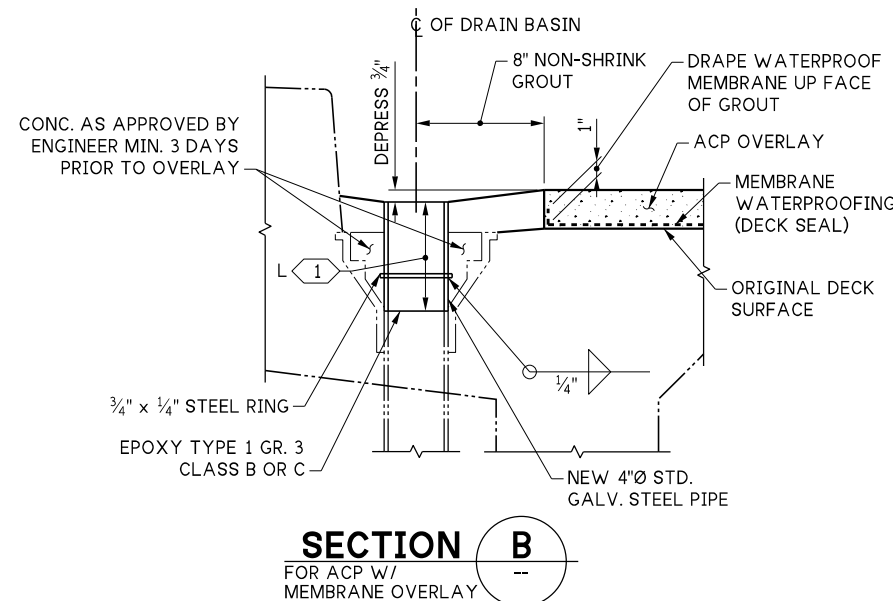
**ELEVATION VIEW
INCLINED DROP**



BRIDGE DRAIN PLUG DETAIL



BRIDGE DRAIN PLUG DETAIL



BRIDGE DRAIN PLUG DETAIL

KEY NOTES:

- 1 ACTUAL PIPE LENGTH (L) SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD AND SHALL BE INSTALLED AS SHOWN ON THIS SHEET.
- 2 REMOVE DRAIN GRATING AND GALVANIZED STEEL CHAIN. FILL DRAIN WITH CONCRETE GROUT AFTER PLUGGING.

NOTES:

- 1. DIMENSIONS AND DETAILS OF EXISTING DRAIN TYPES 1 THRU 6, INCLUDING REVISIONS B, C, AND CR, ARE BASED ON "STANDARDS FOR BRIDGE CONSTRUCTION", SHEET E-13, DATED 12/29/67 AND BEFORE.
- 2. FOR STANDARD BRIDGE DRAINS DATED SEPTEMBER 1, 1965 AND AFTER, IT WILL BE NECESSARY TO GRIND OFF THE NIPPLE EXTRUSION ON ONE SHORT SIDE OF THE TYPICAL GRATE COVER.
- 3. ALL NEW STEEL EXCEPT STEEL PIPE SHALL BE AASHTO M 183. STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE B. ALL STEEL SHALL BE GALVANIZED PER AASHTO M 111.

GENERAL NOTES:

THIS SHEET IS INTENDED FOR USE AS A STANDARD FOR DRAIN MODIFICATIONS WHICH ARE REQUIRED WITH BRIDGE DECK OVERLAYS OF 1" NOMINAL THICKNESS. MODIFICATIONS PERTAIN ONLY TO THE STANDARD DRAINS DESCRIBED IN NOTE 1 ABOVE.

LAST REVISED: 05/30/2025

10.11-A1-1

FILE NAME	10.11-A1-1 Bridge Drain Modifications.dgn		
BRIDGE DES. ENG.			
BRIDGE PROJ. ENG.			
SUPERVISOR			
DESIGNED BY			
CHECKED BY			
ENTERED BY			
PRELIM. PLAN BY			
ARCH. / SPEC.			
	REVISION	DATE	BY
PLOT DATE:	10-Oct-2025	PLOT TIME:	10:56:20 AM
PLOTTED BY:	deboejak	FILE PATH:	pw://projectstore.wsdot.wa.gov:WSDOT/Documents/_HQ/Bridge & Structures/Bridge Design/_Design Standards/Standard Drawings and Details/Drainage and Utility Components/Bridge Drains/_DGN/10.11-A1-1 Bridge Drain Modifications.dgn

REGION NO.	STATE
10	WASH
JOB NUMBER	
CONTRACT NO.	

WSDOT

PRELIMINARY PLAN
NOT FOR CONSTRUCTION

SEE CERTIFICATION SHEET DATE	SEE CERTIFICATION SHEET DATE
STAMP BOX	STAMP BOX

STANDARD DESIGN DRAWINGS BRIDGE DRAINS	PLAN REF NO
BRIDGE DRAIN MODIFICATION	SHEET OF SHEETS