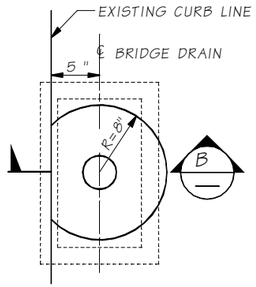
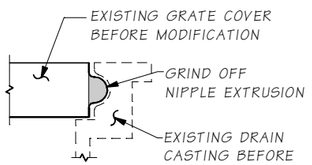
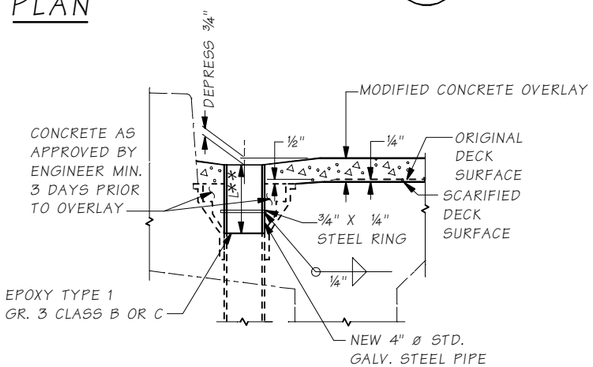
ALTERNATE MODIFICATION FOR BRIDGE DRAIN TYPES "1", "1B" & "1C"



PLAN



DETAIL A

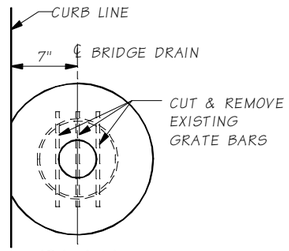


SECTION A

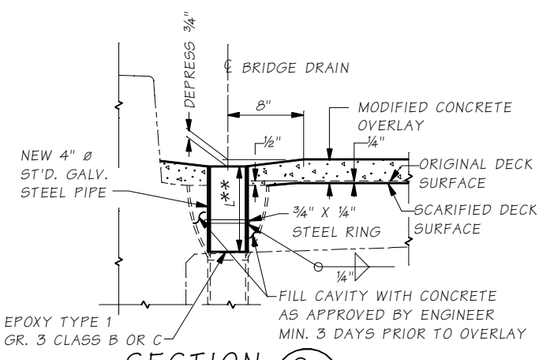
MODIFIED CONCRETE OVERLAY

** ACTUAL PIPE LENGTH (L) SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD AND SHALL BE INSTALLED AS SHOWN ON THIS SHEET.

OVERLAY MODIFICATION FOR BRIDGE DRAIN TYPE 6



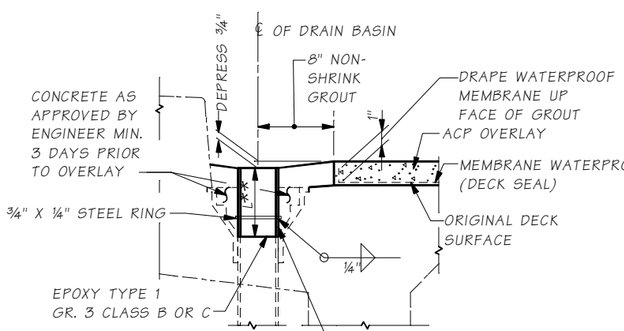
PLAN



SECTION C

MODIFIED CONCRETE OVERLAY

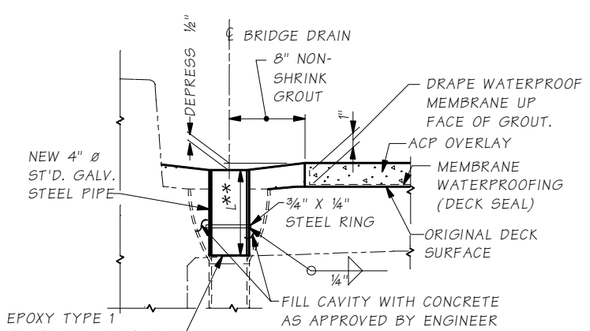
** ACTUAL PIPE LENGTH (L) SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD AND SHALL BE INSTALLED AS SHOWN ON THIS SHEET.



SECTION B

FOR ACP W/MEMBRANE OVERLAY

** ACTUAL PIPE LENGTH (L) SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD AND SHALL BE INSTALLED AS SHOWN ON THIS SHEET.



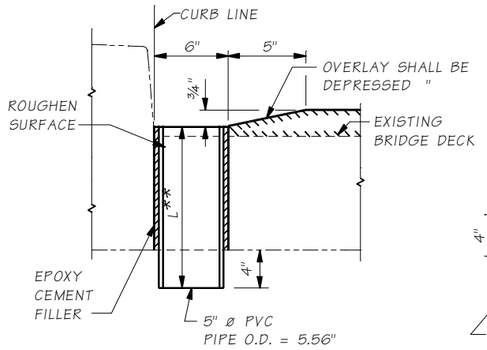
SECTION C

FOR ACP W/ MEMBRANE OVERLAY

** ACTUAL PIPE LENGTH (L) SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD AND SHALL BE INSTALLED AS SHOWN ON THIS SHEET.

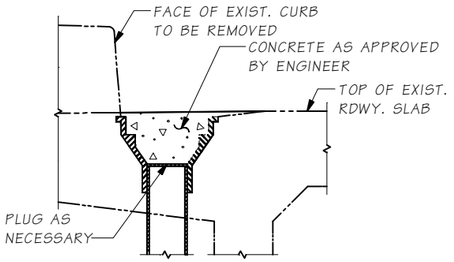
DRAIN MODIFICATION BY CORE DRILLING

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 A WIDENING.



ELEVATION VIEW STRAIGHT DROP

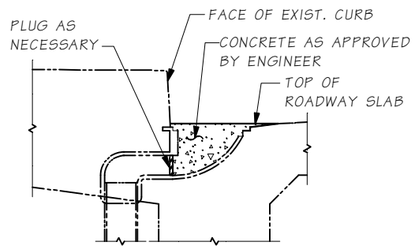
** ACTUAL PIPE LENGTH (L) SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD AND SHALL BE INSTALLED AS SHOWN ON THIS SHEET.



BRIDGE DRAIN PLUG DETAIL

(LOCATIONS)

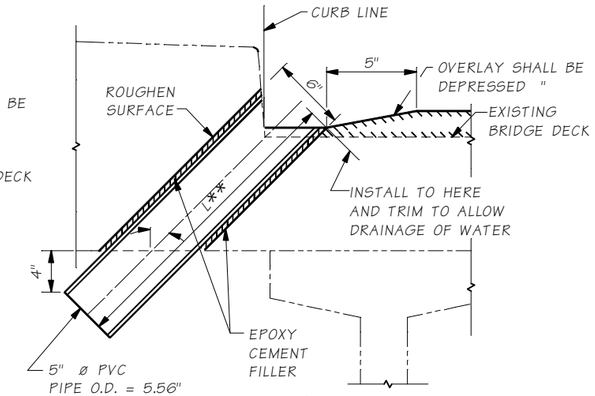
REMOVE DRAIN GRATING & GALV. STEEL CHAIN. FILL DRAIN WITH CONCRETE GROUT AFTER PLUGGING.



BRIDGE DRAIN PLUG DETAIL

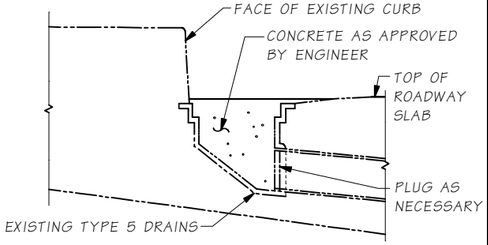
(LOCATIONS)

REMOVE DRAIN GRATING & GALV. STEEL CHAIN. FILL DRAIN WITH CONCRETE GROUT AFTER PLUGGING.



ELEVATION VIEW INCLINED DROP

** ACTUAL PIPE LENGTH (L) SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD AND SHALL BE INSTALLED AS SHOWN ON THIS SHEET.



BRIDGE DRAIN PLUG DETAL

REMOVE DRAIN GRATING & GALV. 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 A 53 GRADE B. ALL STEEL SHALL BE GALVANIZED PER AASHTO M 111.

** ACTUAL PIPE LENGTH (L) SHALL BE DETERMINED BY THE CONSTRACTOR IN THE FIELD AND SHALL BE INSTALLED AS SHOWN ON THIS SHEET.

± THESE SPACINGS ARE TYPICAL HOWEVER OTHER SPACINGS MAY EXIST

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.

Bridge Design Engr.	M:\STANDARDS\Drainage\DRAIN-LIB.man				REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor					10	WASH.			
Designed By									
Checked By					JOB NUMBER				
Detailed By									
Bridge Projects Engr.									
Prelim. Plan By									
Architect/Specialist	DATE	REVISION	BY	APP'D					

BRIDGE AND STRUCTURES OFFICE

Washington State Department of Transportation

BRIDGE DRAIN MODIFICATION

BRIDGE DRAIN MODIFICATION

BRIDGE SHEET NO.

SHEET OF SHEETS

SR JOB NO. 000 SHEET 1

10.11-A1-1

Mon May 07 11:52:02 2012 12/11/97