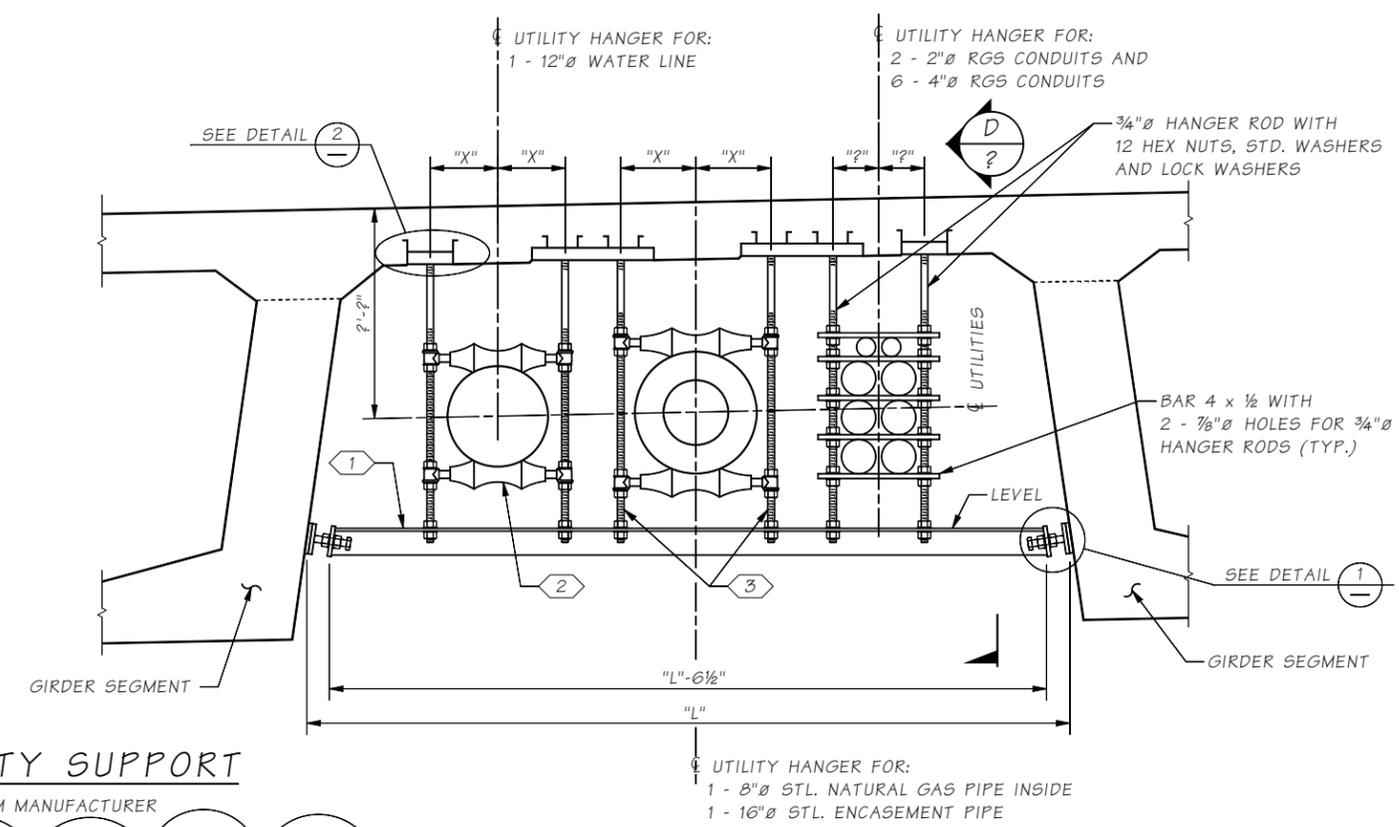
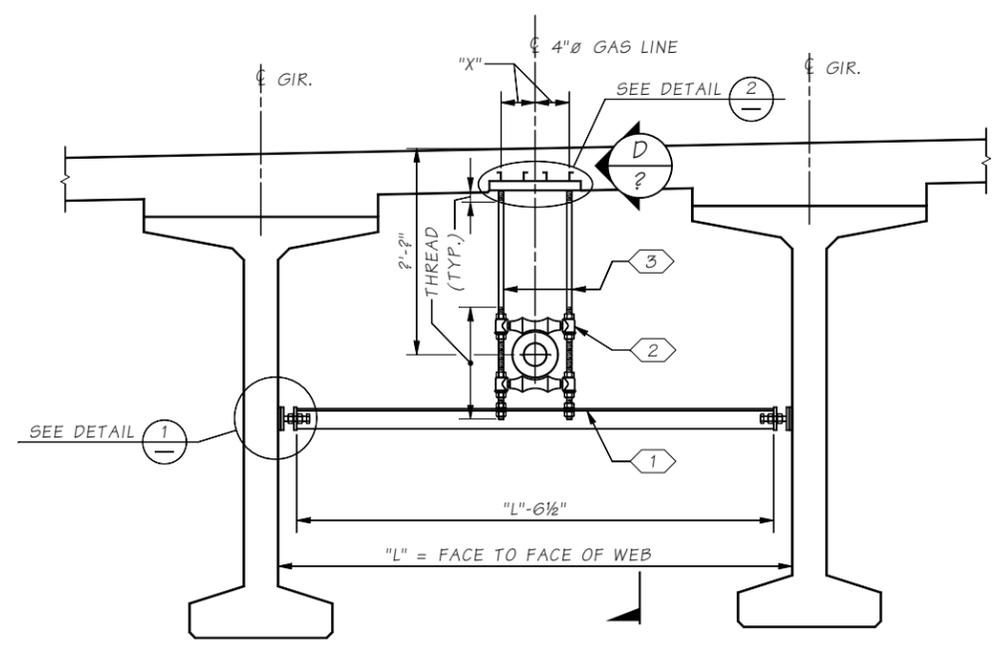


Last Revised: 04/21/2020

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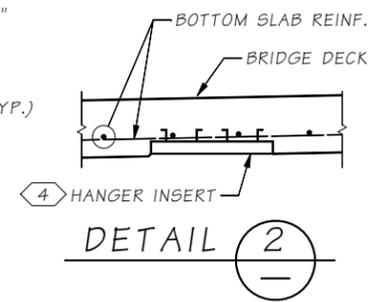
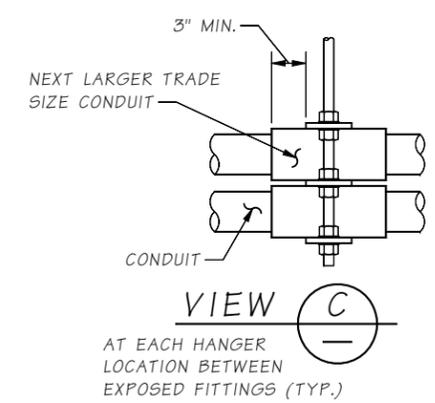
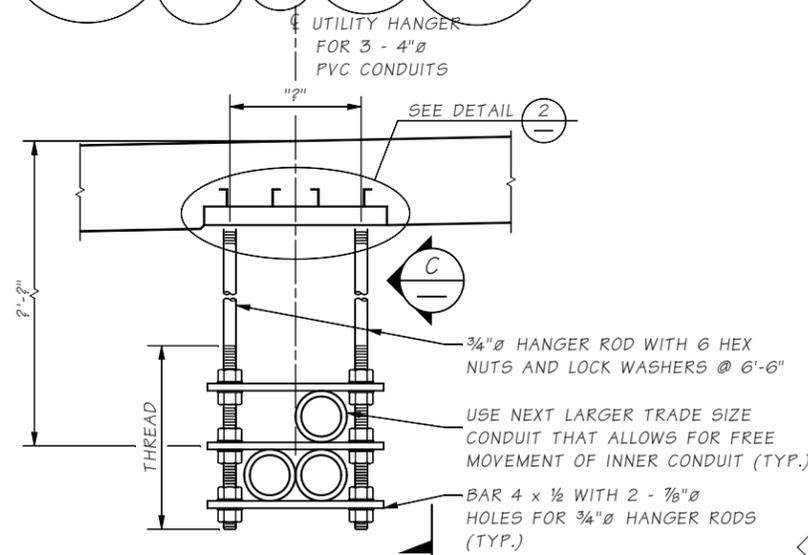
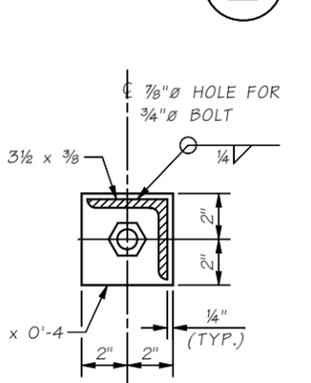
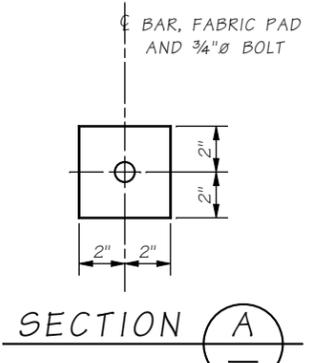
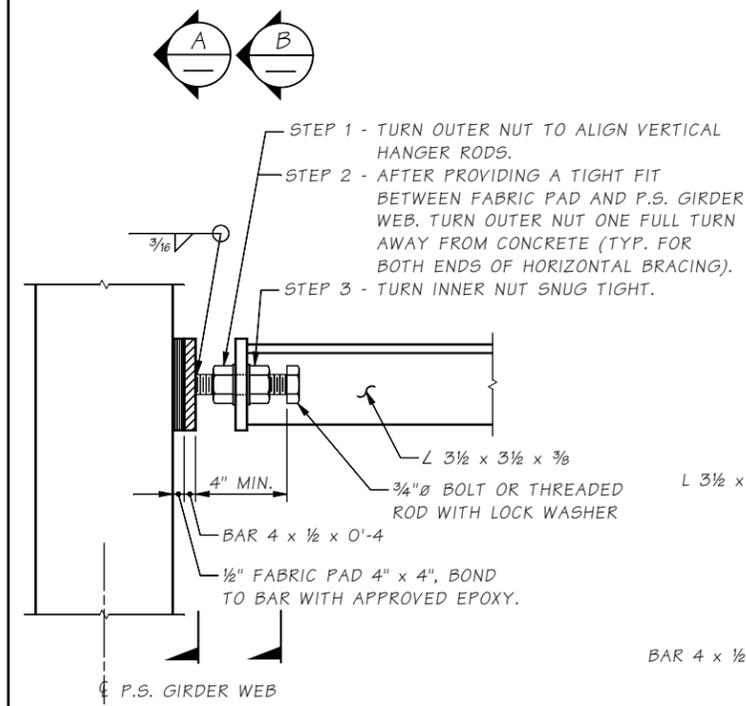


### HANGER UTILITY SUPPORT

"X" DETERMINED FROM MANUFACTURER

**NOTES TO DESIGNERS:**

- Verify that the insert does not interfere with reinforcement.
- Verify that the load on the insert and rod is acceptable.
- See BDM chapter 10, section 10.8.6 for insert design.
- "DETAIL 1" is provided for prestressed girders only. For steel girders use angle iron bolted connections.
- If geometry requires, the transverse support may be located just above the utility.



### GENERAL NOTES:

- ALL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION PER AASHTO M 111 OR AASHTO M 232 EXCEPT PIPE ROLLERS.
- PAINT ROLLERS WITH THREE COATS OF GALVANIZING REPAIR PAINT. SEE STD. SPEC. SECTION 9-08.1(2)B.

### NOTES:

- L 3 1/2 x 3 1/2 x 3/8 WITH 2 - X" HOLES FOR X" HANGER RODS AT EVERY OTHER VERTICAL SUPPORT, NEAR PIERS, AND AT EXPANSION JOINTS
- ANVIL PIPE ROLL FIG. 171, B-LINE B3114, CARPENTER AND PATTERSON FIG. 142 OR APPROVED EQUAL
- X" GALV. HANGER RODS WITH 6 HEX HEAD NUTS, STD. WASHERS, AND LOCK WASHERS. "X" DETERMINED FROM MANUFACTURER
- COOPER B-LINE B22-I-??, POWERSTRUT PS 349-??, OR UNISTRUT P32??, WITH SPRING NUT (TYP.). CHASE THREADS ON HANGER ROD FOR THREAD COMPATIBILITY WITH SPRING NUT. INSERT TO BE INSTALLED LEVEL LONGITUDINALLY AND TRANSVERSELY. PLACE INSERT TO PROVIDE FOR TRANSVERSE ADJUSTMENT OF HANGER RODS. HANGER RODS SHALL NOT BE WITHIN 2" OF THE END OF THE INSERT. TWO INSERTS MAY BE USED TO ACCOMMODATE SUPERELEVATION.

Bridge Design Engr.	M:\STANDARDS\Utilities\Utility Hanger Details.MAN	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor		10	WASH.			
Designed By		JOB NUMBER				
Checked By						
Detailed By						
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Specialist	DATE	REVISION	BY	APPD		

**BRIDGE AND STRUCTURES OFFICE**

**Washington State Department of Transportation**

**UTILITY INSTALLATION GUIDELINE DETAILS**

UTILITY HANGER DETAILS