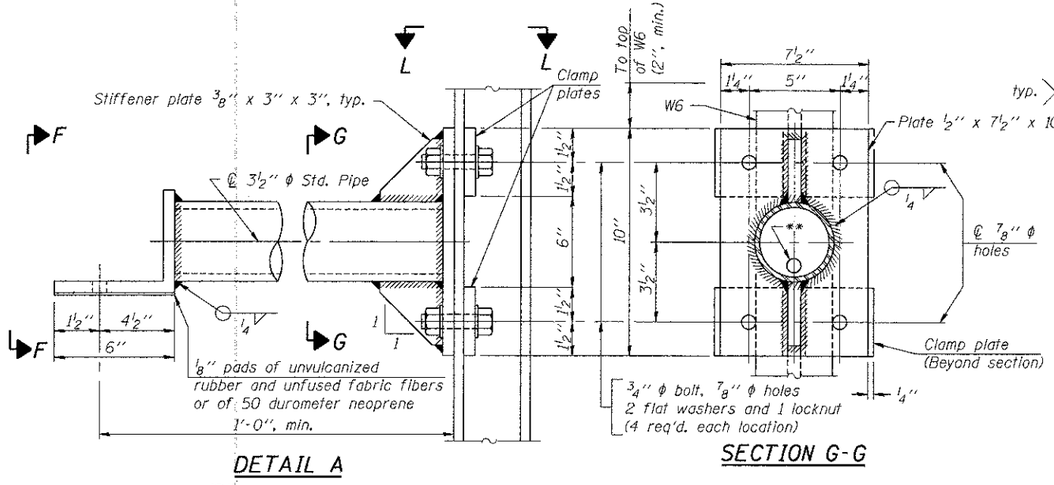
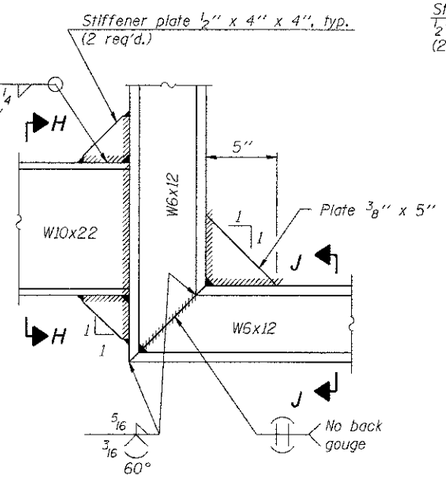
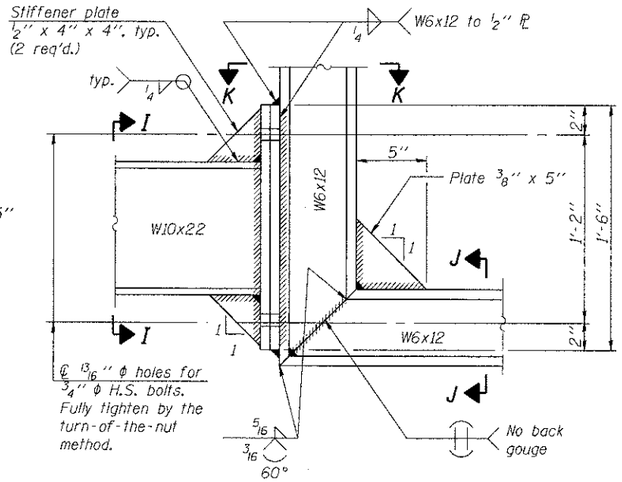


DETAIL A

SECTION G-G

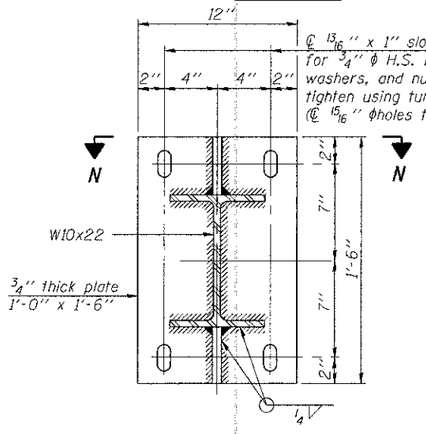


DETAIL B - WELDED W10x22 TO W6x12 CONNECTION



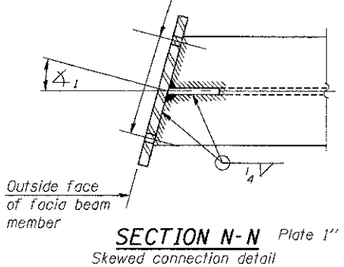
DETAIL B - ALTERNATE BOLTED W10x22 TO W6x12 CONNECTION

Alternate may be substituted by contractor to facilitate construction or galvanizing, especially on long struts for skewed bridges.



SECTION C-C

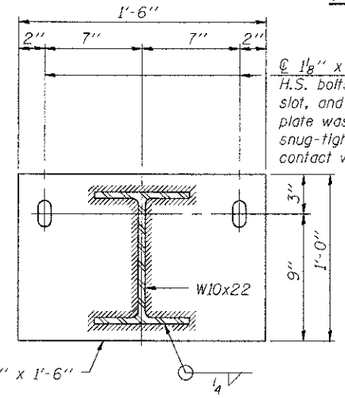
Steel beam or girder connection plate details



SECTION N-N

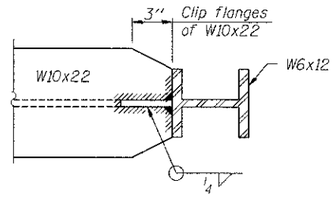
Skewed connection detail for W10x22 to facia beam.

Plate 1" x 12" x 1'-6"



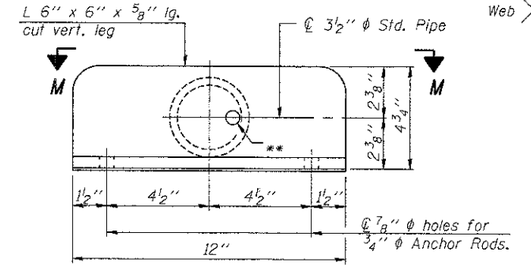
SECTION D-D

Concrete beam or girder connection plate details.



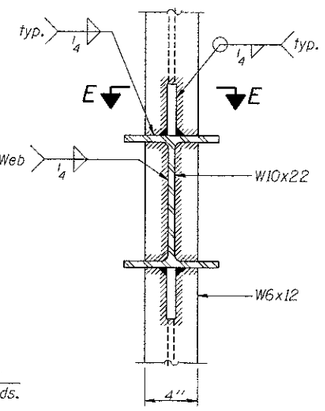
SECTION E-E

℄ 1 1/8" x 2" slotted holes in plate for 1" ϕ H.S. bolts with hardened plate washer over slot, and standard flat washer and 4" x 4" x 1/2" plate washer on far end. Use locknuts and only snug-tighten bolts, insuring pad is in uniform contact with concrete before tightening begins.

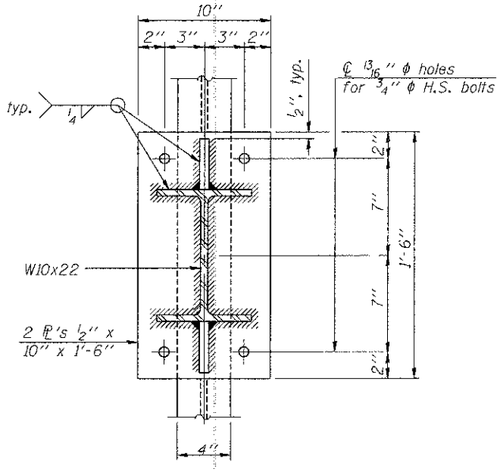


VIEW F-F

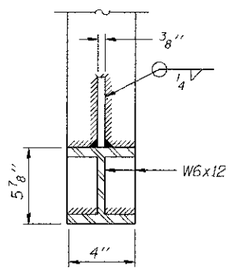
** 13/16" ϕ holes for galvanizing. After galvanizing, install 7/8" ϕ A307 hot-dip galvanized bolt to close hole in angle. (No bolt required in 1/2" plate.)



SECTION H-H

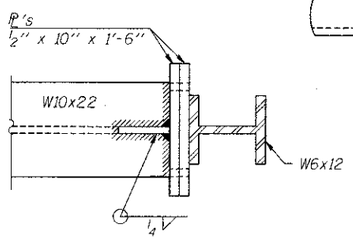


SECTION I-I

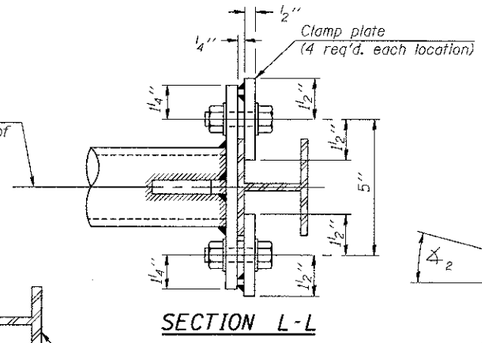


SECTION J-J

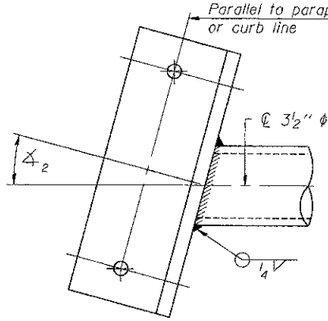
Note: For constant slab overhang at facia beam, ∠1 = ∠2 = sign angle. For flared beams or other special cases where ∠1 ≠ ∠2, ∠1 = sign angle.



SECTION K-K

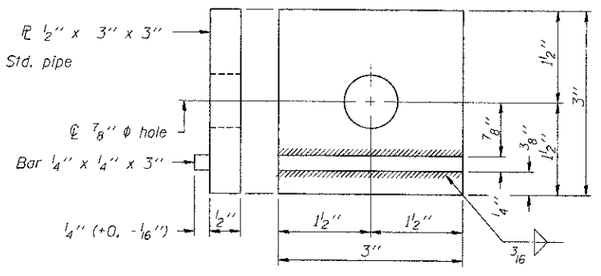


SECTION L-L



SECTION M-M

Skewed connection detail for 3 1/2" ϕ pipe to parapet.



CLAMP PLATE DETAILS

BM-3

6-1-12

FILE NAME = #FILE1#	USER NAME = #USER#	DESIGNED - MDJ	REVISED -
		DRAWN - MDJ	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - JLR	REVISED -
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = #DATE#	DATE - 06/29/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

BRIDGE MOUNT SIGN STRUCTURES
CONNECTION DETAILS

SCALE: | SHEET NO. 3 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1R	ST. CLAIR	294	205
		CONTRACT NO. 76C43		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

...\DBCONN-08-DESIGN\DGN\...\DBCONN-08-BORDER.DGN
5-27-2012, 9:57:39 BDM2#JO
\\FS-0044\VOL1\PROJECTS\VAULT\D TRANS W7\2012\20888-00\STRUCTURE\CADD\01 DESIGN\SIGNSTRUCTURE\SHEET\DBCONN-08-SHT-STD.DGN