

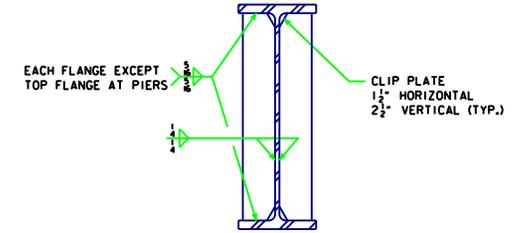
0 SKEW DIAPHRAGM WEIGHTS (WEIGHT IN LBS. INCLUDES DIAPHRAGM, NUTS, BOLTS, CONNECTION PLATES AND WELDS)								
DIAPHRAGM	BRIDGE LENGTH							
	160'-0	180'-0	200'-0	220'-0	240'-0	260'-0	280'-0	300'-0
ROLLED CHANNEL	11,121	13,971	15,698	15,698	18,749	24,391	26,189	26,190
BENT PLATE	10,227	12,688	14,220	14,221	15,691	20,222	21,651	21,652

10 SKEW DIAPHRAGM WEIGHTS (WEIGHT IN LBS. INCLUDES DIAPHRAGM, NUTS, BOLTS, CONNECTION PLATES AND WELDS)								
DIAPHRAGM	BRIDGE LENGTH							
	160'-0	180'-0	200'-0	220'-0	240'-0	260'-0	280'-0	300'-0
ROLLED CHANNEL	11,181	14,041	15,757	15,758	18,819	24,460	26,258	26,259
BENT PLATE	10,285	12,746	14,278	14,279	15,754	20,285	21,713	21,714

20 SKEW DIAPHRAGM WEIGHTS (WEIGHT IN LBS. INCLUDES DIAPHRAGM, NUTS, BOLTS, CONNECTION PLATES AND WELDS)								
DIAPHRAGM	BRIDGE LENGTH							
	160'-0	180'-0	200'-0	220'-0	240'-0	260'-0	280'-0	300'-0
ROLLED CHANNEL	11,369	14,219	15,945	15,946	19,047	24,678	26,477	26,478
BENT PLATE	10,467	12,929	14,460	14,461	15,949	20,480	21,909	21,910

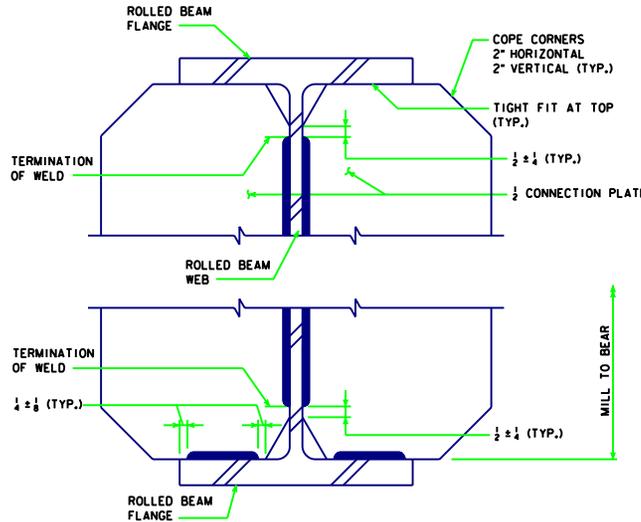
30 SKEW DIAPHRAGM WEIGHTS (WEIGHT IN LBS. INCLUDES DIAPHRAGM, NUTS, BOLTS, CONNECTION PLATES AND WELDS)								
DIAPHRAGM	BRIDGE LENGTH							
	160'-0	180'-0	200'-0	220'-0	240'-0	260'-0	280'-0	300'-0
ROLLED CHANNEL	11,719	14,569	16,296	16,296	19,444	25,085	26,884	26,885
BENT PLATE	10,807	13,268	14,800	14,801	16,313	20,844	22,273	22,274

PAYMENT FOR STRUCTURAL STEEL WILL BE BASED ON WEIGHT FOR BENT PLATE DIAPHRAGMS. WEIGHTS FOR CHANNEL DIAPHRAGMS OPTION ARE PROVIDED FOR INFORMATION ONLY.

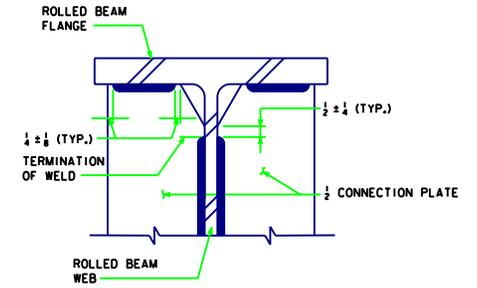


CONNECTION PLATE DETAIL

NOTE:
EXTERIOR BEAMS REQUIRE A CONNECTION PLATE ON THE INTERIOR SIDE OF THE WEB ONLY.

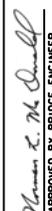


CONNECTION PLATE WELD TERMINATION DETAIL (PIER DIAPHRAGM)



CONNECTION PLATE WELD TERMINATION DETAIL (ABUTMENT & INTERMEDIATE DIAPHRAGM)

NOTE:
WEIGHTS TABULATED ON THIS SHEET ARE ALREADY INCLUDED IN TOTAL WEIGHT OF STRUCTURAL STEEL GIVEN ELSEWHERE IN THESE STANDARDS.

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 Iowa Department of Transportation Highway Division	
		STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES FEBRUARY, 2004	
		DIAPHRAGM DETAILS SHEET 2 OF 2	RS40-63-04