

NOTE:
Terminate fillet welds 3/8" from the edge of clipped corners of all stiffener plates and non-clipped corners of Intermediate Diaphragm Stiffeners.

W27 BEAM

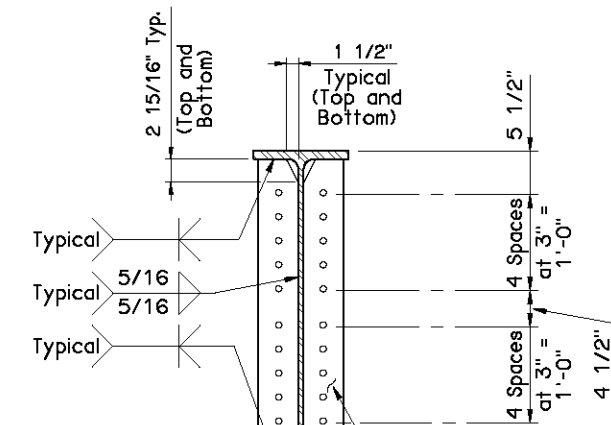
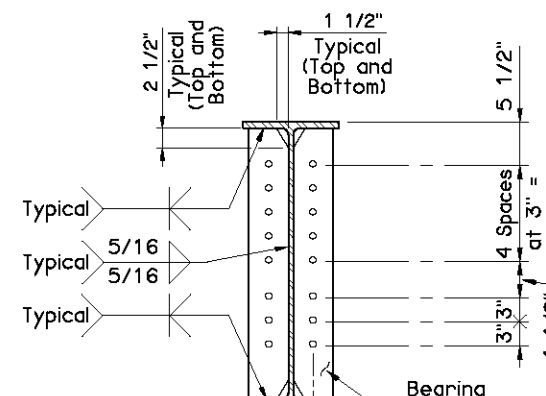
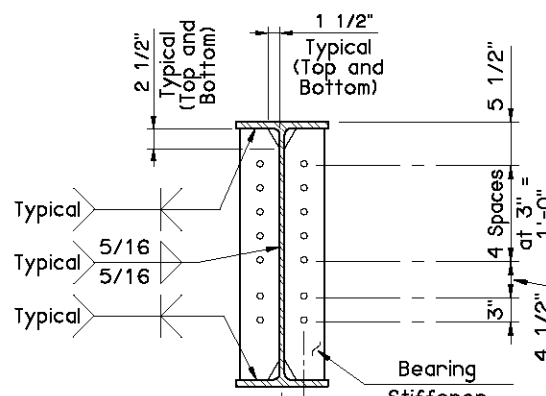
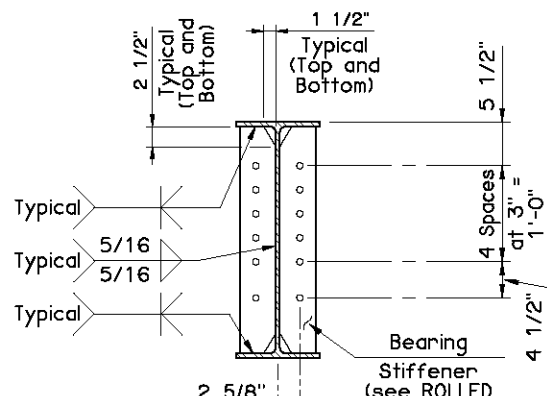
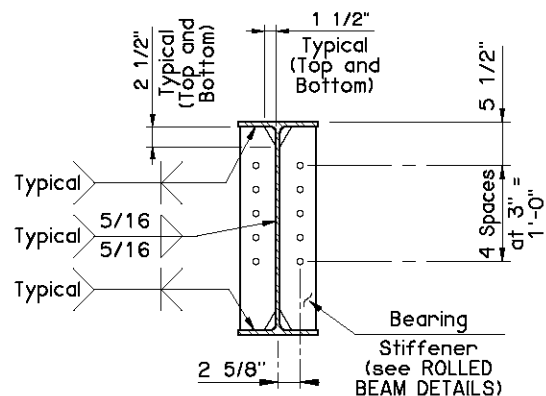
W30 BEAM

W33 BEAM

W36 BEAM

W40 BEAM

INTERMEDIATE DIAPHRAGM STIFFENER DETAILS



W27 BEAM

W30 BEAM

W33 BEAM

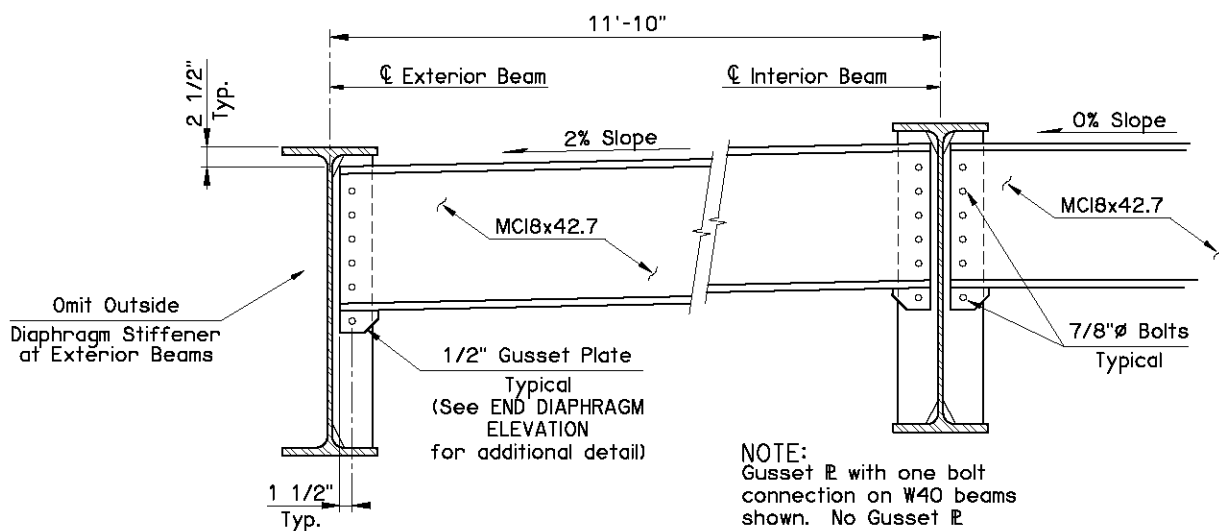
W36 BEAM

W40 BEAM

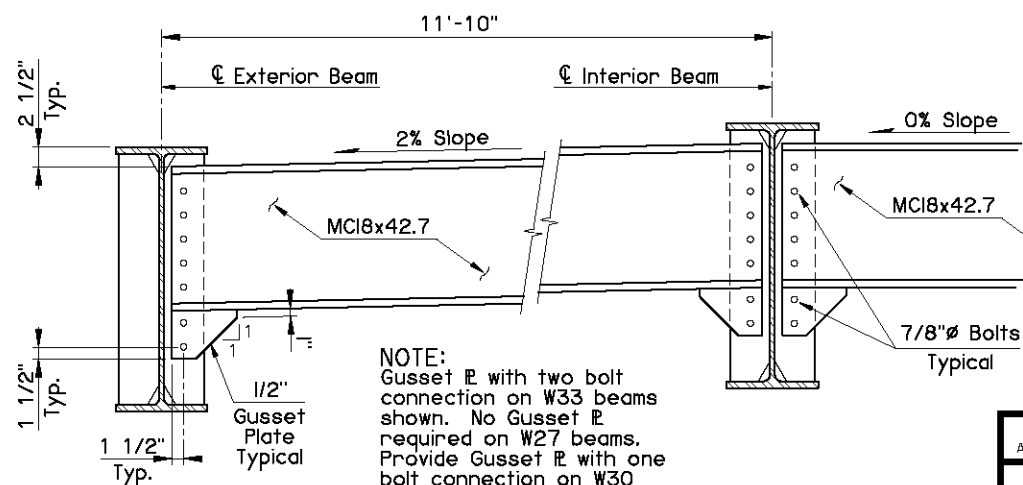
BEARING STIFFENER DETAILS

NOTE:
The Contractor may substitute a Bent Plate Diaphragm in lieu of Channel and Gusset Plate shown at no additional cost to the Department. Provide 1/2" minimum plate thickness formed in the shape of the channel with 4" minimum flanges. Fabricate Bent Plate Diaphragm to a depth equal or greater than that shown for the combined Channel and Gusset Plate.

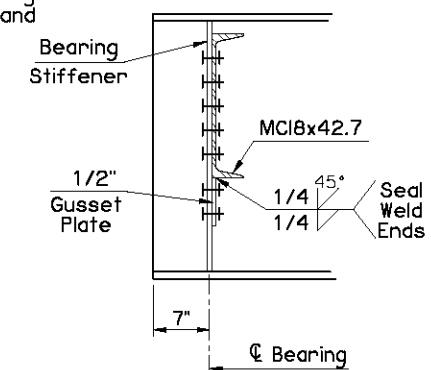
NOTE:
Provide structural steel for channel diaphragms and Gusset Plates in accordance with AASHTO M270 (ASTM A709), Grade 50W (Weathering Steel, Charpy V-Notch testing not required). Use bolts conforming to AASHTO M164 (ASTM A325). Provide all bolts, nuts, washers and welding with weathering characteristics.



INTERMEDIATE DIAPHRAGM ELEVATION



END DIAPHRAGM ELEVATION



END DIAPHRAGM SECTION

NOTE:
Gusset \bar{r} with one bolt connection on W40 beams shown. No Gusset \bar{r} required for W27, W30, W33 or W36 beams.

NOTE:
Gusset \bar{r} with two bolt connection on W33 beams shown. No Gusset \bar{r} required on W27 beams. Provide Gusset \bar{r} with one bolt connection on W30 beams, three bolt connection on W36 beams and five bolt connection on W40 beams.

APPROVED BY BRIDGE ENGINEER *Scott J. Smith* DATE *4/2/10*

OKLAHOMA DEPT. OF TRANSPORTATION
BRIDGE STANDARD (ENGLISH)
DIAPHRAGM DETAILS
ROLLED BEAMS
CONVENTIONAL (SHEET 1 OF 2)

2009 SPECIFICATIONS B40-C-DIA-RB-1 01E
B-376E