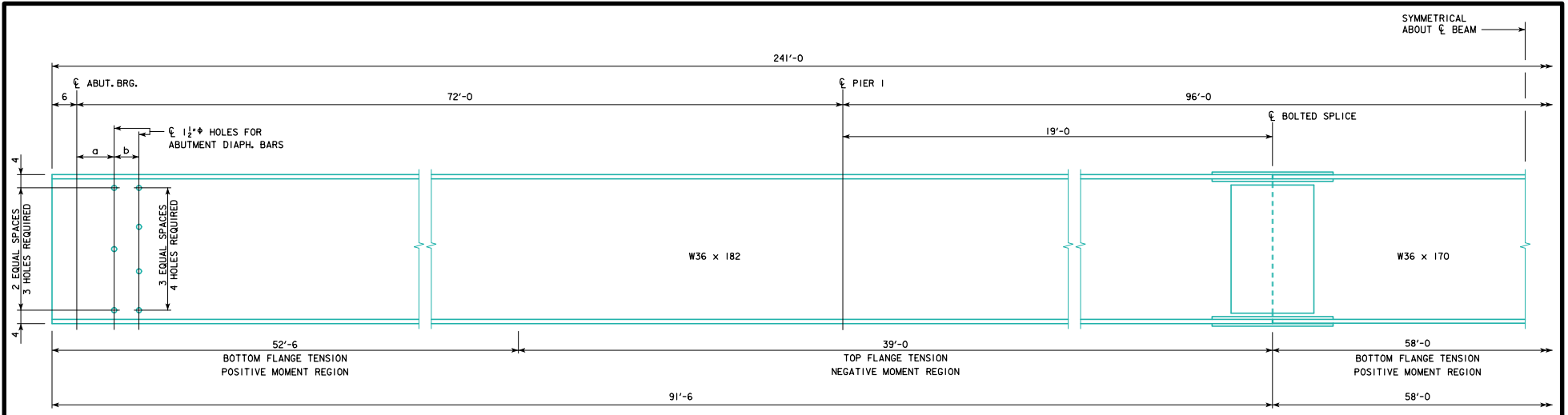
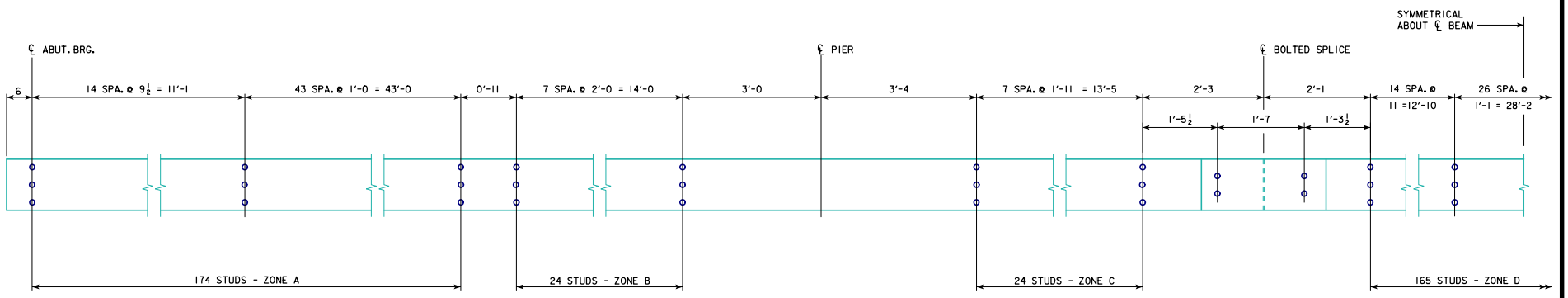


REVISED 02-2017 - ADDED 4 SHEAR STUDS AT "CENTERLINE OF BOLTED SPLICE" LOCATION BETWEEN "ZONE C & D". ADDED "SHEAR STUD ON SPLICE PLATE DETAILS" SHOWING 2 STUDS PER ROW. CHANGED NOTE STATING "MISCELLANEOUS DETAILS 240'-0 BRIDGE" WAS "160'-0 IN ERROR".



BEAM ELEVATION

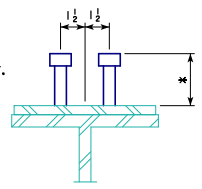


SHEAR STUD SPACING

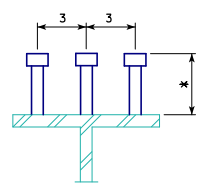
* NOTE: STUD HEIGHTS (3", 4" OR 5") FOR THE LOCATIONS SHOWN SHALL BE DETERMINED BY THE DESIGNER. ON "MISCELLANEOUS DETAILS 240'-0 BRIDGE" SHEET, STUD HEIGHTS CAN BE IDENTIFIED BY THE DESIGNER IN A TABLE CORRESPONDING TO THE ZONES LISTED ON THIS SHEET.

STRUCTURAL STEEL	
Δ BEAM WEIGHT	43,166 LBS.

NOTE: STRUCTURAL STEEL WEIGHT IS INCLUDED ON THE SUMMARY QUANTITIES SHEET.



SHEAR STUD ON SPLICE PLATE DETAILS
NOTE: ALL STUDS TO BE 3/4"φ



SHEAR STUD DETAILS
NOTE: ALL STUDS TO BE 3/4"φ

SKEW	a (IN)	b (IN)
0°	9	6
10°	9 1/8	6 1/8
20°	9 1/4	6 1/4
30°	10 1/8	6 1/8
45°	12 1/4	8 1/2

02-2017
LATEST REVISION DATE

Thomas E. McQuinn
APPROVED BY BRIDGE ENGINEER

IOWADOT Highway Division
STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES
ROLLED STEEL BEAM BRIDGES
OCTOBER, 2014

BEAM PLAN AND ELEVATION
240'-0 BRIDGE

RS40-075-14