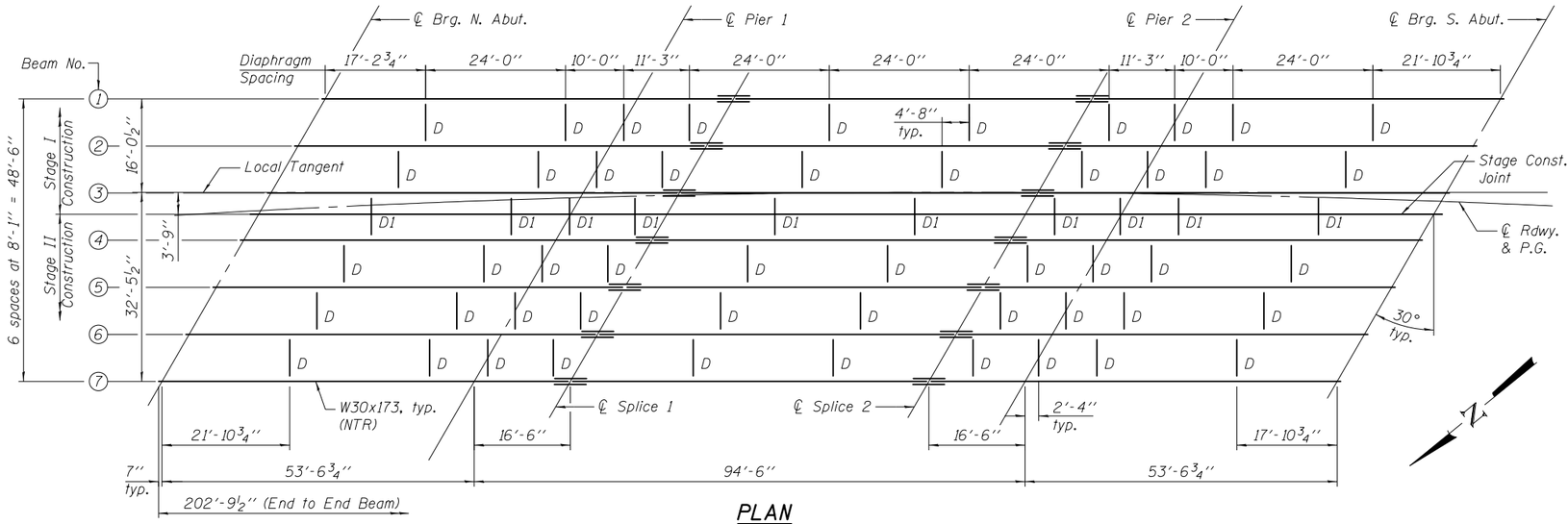
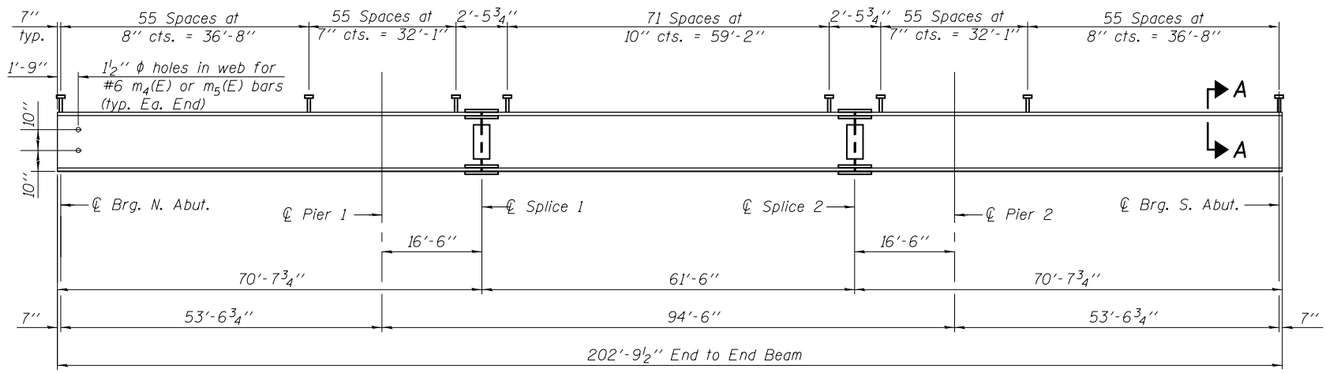
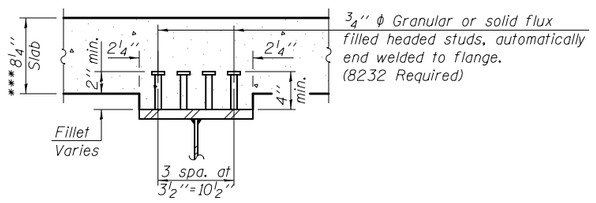


PLAN



ELEVATION



3/4" ϕ Granular or solid flux filled headed studs, automatically end welded to flange. (8232 Required)

SECTION A-A

*** Prior to Diamond Grinding of Bridge Section

TOP OF BEAM ELEVATIONS

(For Fabrication Only)

	℄ Brg. N. Abut.	℄ Pier 1	℄ Splice 1	℄ Splice 2	℄ Pier 2	℄ Brg. S. Abut.
Beam 1	814.280	813.784	813.632	813.165	813.065	812.740
Beam 2	813.970	813.465	813.309	812.838	812.735	812.400
Beam 3	813.650	813.145	812.989	812.511	812.405	812.060
Beam 4	813.340	812.825	812.666	812.168	812.065	811.730
Beam 5	813.030	812.505	812.343	811.841	811.735	811.390
Beam 6	812.720	812.185	812.020	811.514	811.405	811.050
Beam 7	812.410	811.865	811.697	811.184	811.075	810.720

Notes:

All structural steel beams and splice plates shall conform to the requirements of AASHTO M 270, Grade 50.

Load carrying components designated "NTR" shall conform to the Impact Testing Requirements, Zone 2.

All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

Diaphragm Notes:

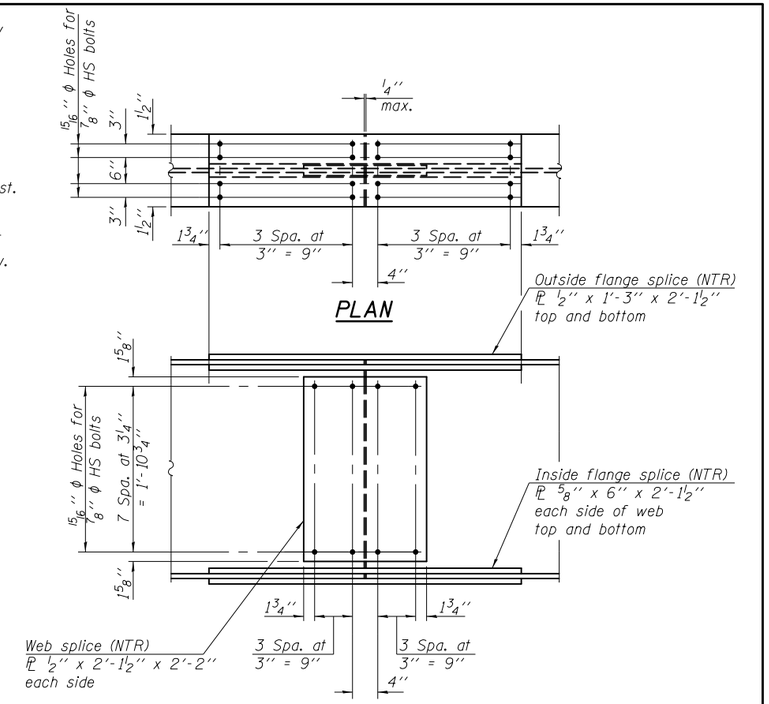
3/4" ϕ HS bolts. 15/16" ϕ Holes, unless otherwise noted.

Two hardened washers required over each oversized hole, and 3" x 3" x 5/16" plate washers over slotted holes.

*Alternate channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.

The alternate, if utilized, shall be provided at no additional cost to the Department.

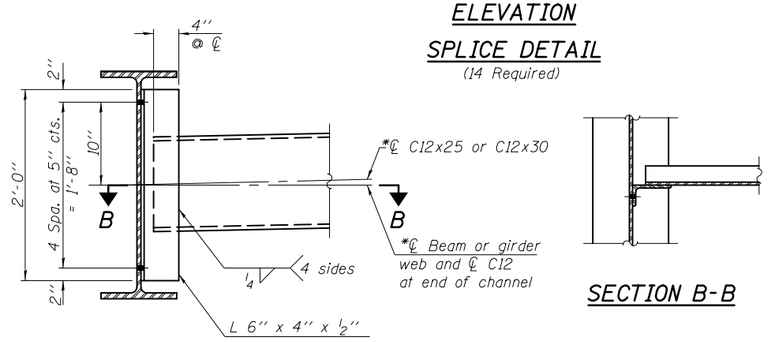
** Slotted holes (at Beam 4 only) shall extend above the final bolt positions as indicated in the diaphragm detail. Bolts shall be installed finger tight in the slots to permit the maximum deflection downward within the slots due to the applied concrete load, then fully tightened immediately after Stage II deck pour.



ELEVATION

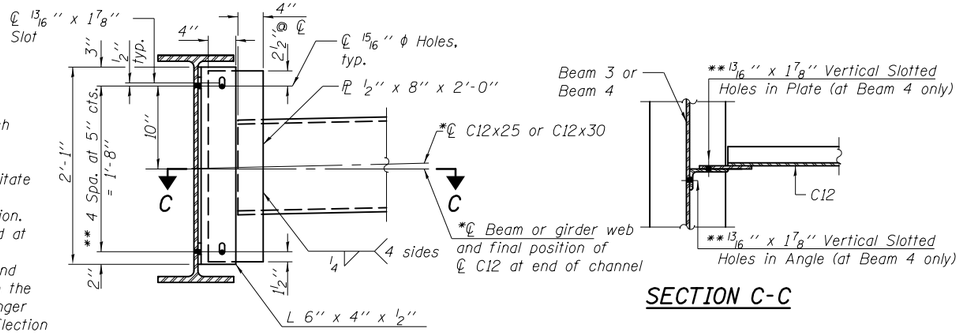
SPLICE DETAIL

(14 Required)



INTERIOR DIAPHRAGM D

(50 Required)



INTERIOR DIAPHRAGM D1

(10 Required)

(Final position shown - after Stage II deck pour)

SECTION C-C

FILE NAME = $FILE$	USER NAME = piersonbr	DESIGNED - BAS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
MAURER-STUTZ ENGINEERS SURVEYORS	PLOT SCALE =	CHECKED - JAE	REVISED -	
	PLOT DATE = 7/30/2013 $TIME$	DRAWN - SGM	REVISED -	
		CHECKED - BAS	REVISED -	

STRUCTURAL STEEL
STRUCTURE NO. 057-0254
SHEET NO. 17 OF 28 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(57-20HB)BR-1	MCLEAN	440	252
		CONTRACT NO. 70570		
	ILLINOIS	FED. AID PROJECT		