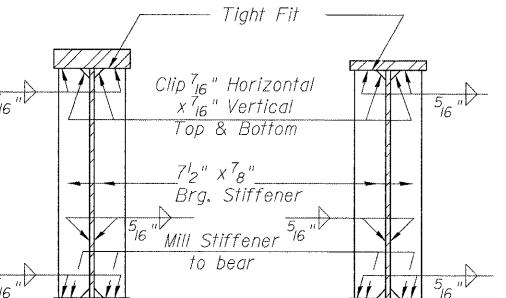
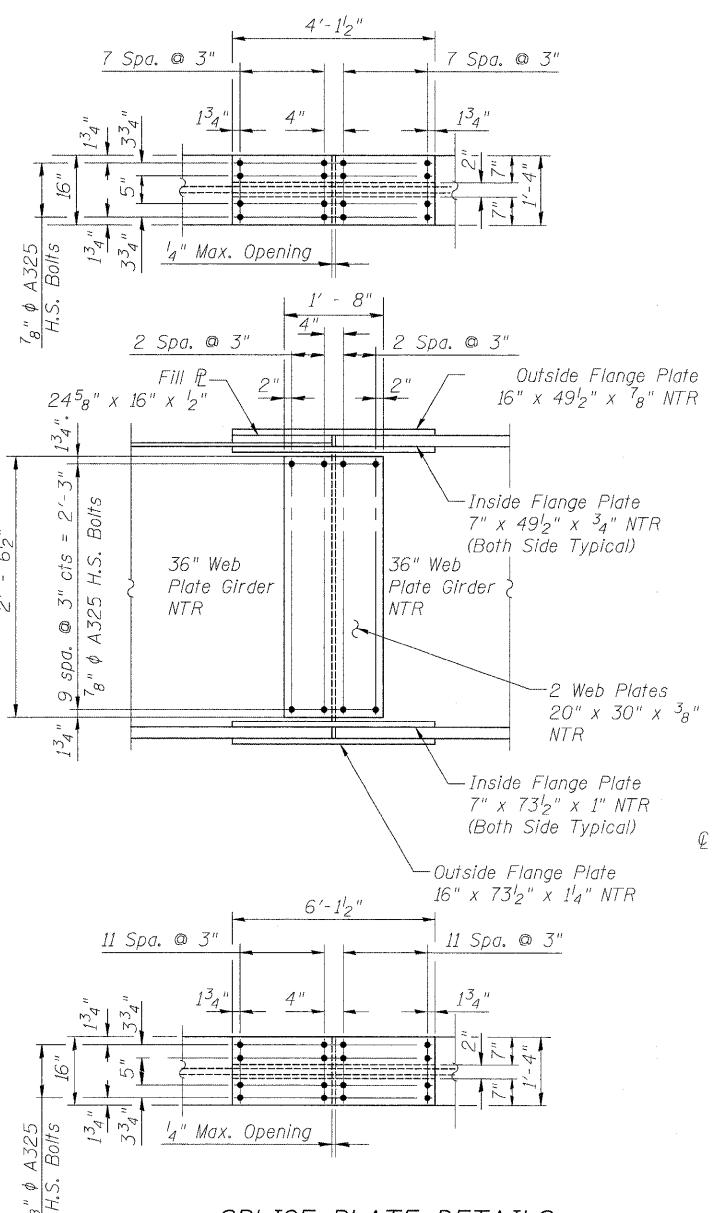


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SECTION SECTION
AT PIER AT ABUTMENT



SPLICE PLATE DETAILS

6 Field Splices Required

All Splices shall be M270 Grade 50 Steel.

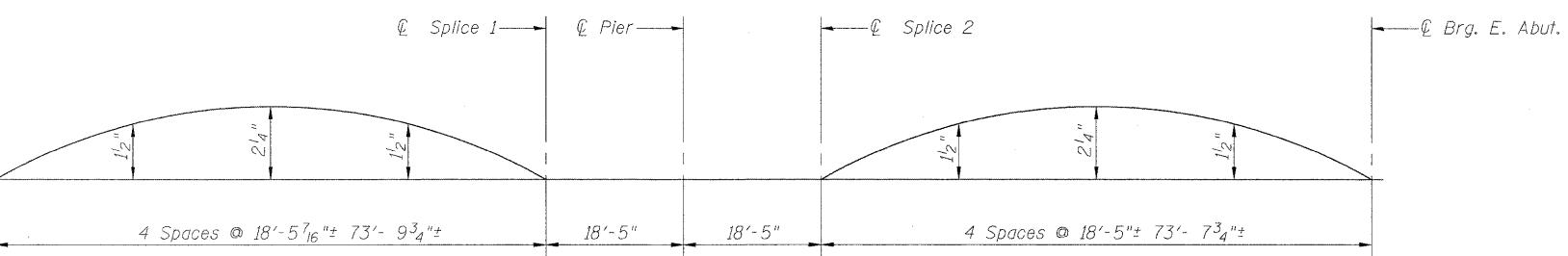
Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Tensile, Zone 3.

<u>DESIGNED</u>	- JPM
<u>CHECKED</u>	- CCS
<u>DRAWN</u>	- MD
<u>CHECKED</u>	- JPM, CCS



INTERIOR GIRDER MOMENT TABLE (Beam 7)			
	0.4 Sp. I	Pier	0.6 Sp. 2
I_s	(in ⁴)	21358	24826
$I_c(n)$	(in ⁴)	49007	53564
$I_c(3n)$	(in ⁴)	35492	39135
S_s	(in ³)	1200	1241
$S_o(n)$	(in ³)	1534	3098
$S_o(3n)$	(in ³)	1416	2936
S_x	(in ³)	64.0	85.3
$DC1$	(k'/')	1.084	1.084
M_{DC1}	('k)	586	1128
$DC2$	(k'/')	0.186	0.186
M_{DC2}	('k)	111	204
DW	(k'/')	0.306	0.306
M_{DW}	('k)	182	335
$M_L + Imp$	('k)	1236	1296
M_u (Strength I)	('k)	3307.3	4435.5
M_{bl}	('k)	66.6	57.9
$f_s DC1$	(ksi)	5.86	10.91
$f_s DC2$	(ksi)	0.94	0.83
$f_s DW$	(ksi)	1.54	1.37
$f_s 1.3(4+I)$	(ksi)	12.57	6.53
f_t	(ksi)	12.49	8.15
f_s (Service II)	(ksi)	20.91	19.64
f_s (Total)(Strength I)	(ksi)	27.73	25.52
F_{cr} (Service II)	(ksi)	30.30	25.79
V_f	(k)	46.38	46.38
F_{cr}	(ksi)	72.87	114.09
			83.27

INTERIOR GIRDER REACTION TABLE (BEAM 7)			
HL93 Loading			
	W. Abut.	Pier	E. Abut.
R _{D1}	(k)	36.5	123.8
R _{D2}	(k)	6.4	22.5
R _W	(k)	10.6	37.0
R _{L + Imp}	(k)	80.7	136.7
R _{Total}	(k)	134.3	319.9
			131.5



CAMBER DIAGRAM

(See Sheet 14 of 34 for Top of Web Elevations)

GIRDER DETAILS II
STRUCTURE NO. 067-004

SHEET NO.15 34 SHEETS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	809	67-1HBR	Monroe	144	79
			CONTRACT	NO. 76977	