

TOP OF WEB ELEVATIONS

For Fabrication Use Only

Beam Number	℄ Brg. N. Abut.	℄ Brg. Pier	℄ Splice	℄ Brg. S. Abut.
1	633.01	633.15	633.20	633.01
2	633.17	633.31	633.35	633.17
3	633.32	633.46	633.51	633.32
4	633.47	633.61	633.66	633.47
5	633.59	633.73	633.77	633.59
6	633.47	633.61	633.66	633.47
7	633.32	633.46	633.51	633.32
8	633.17	633.31	633.35	633.17
9	633.01	633.15	633.20	633.01

INTERIOR GIRDER MOMENT TABLE

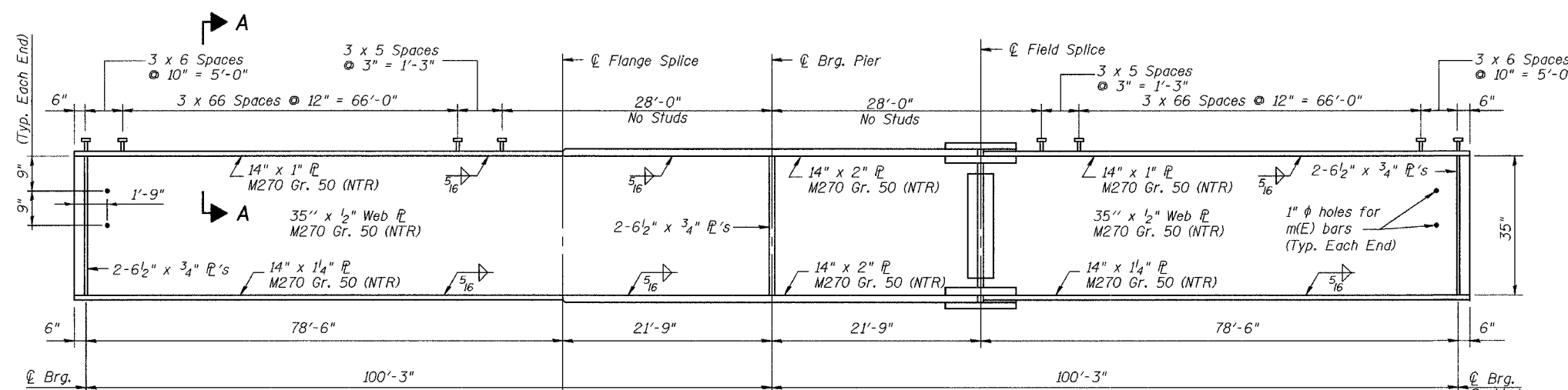
	0.4 Sp. #1	Pier
Is	(in ⁴) 11,988	20,971
Ic (n)	(in ⁴) 28,073	
Ic (3n)	(in ⁴) 21,092	
Ss	(in ³) 688	1,075
Sc (n)	(in ³) 889	
Sc (3n)	(in ³) 827	
Z	(in ³)	1,189
φ	(K/ft.) 0.907	1.464
M℄	(K) 572	1,950
s℄	(K/ft.) 0.465	
Ms℄	(K) 327	
M℄	(K) 851	717
M (Imp)	(K) 189	159
S ₃ (M℄+I)	(K) 1,734	1,460
Ma	(K) 3,424	4,432
Mu	(K) 4,408	5,013
fs℄ non-comp(k.s.i.)	10.0	21.8
fs℄ (comp) (k.s.i.)	4.7	
fs ⁵ / ₂ (℄+I) (k.s.i.)	23.4	16.3
fs (Overload) (k.s.i.)	38.1	38.0
fs (Total) (k.s.i.)	49.6	49.5
VR	(K) 49.0	

INTERIOR GIRDER REACTION TABLE

	Abut.	Pier
R℄	(K) 50.34	178.47
R℄	(K) 47.94	70.78
Imp.	(K) 10.64	15.71
R (Total)	(K) 108.92	264.96

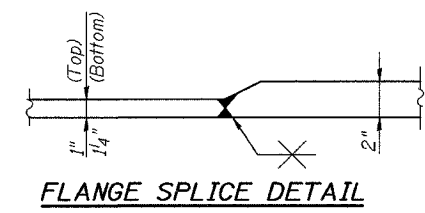
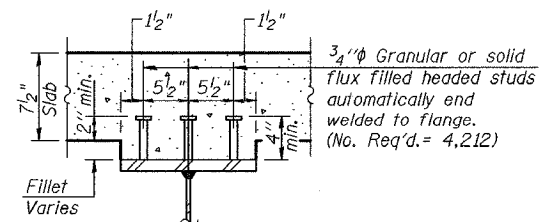
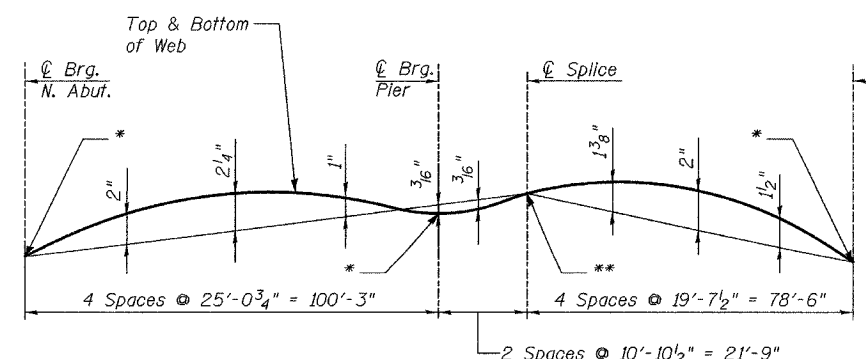
* Compact, Braced Section.
Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs (Total & Overload).
Ic (n) and Sc (n) are the moment of inertia and section modulus of the composite section used in computing stresses due to live load for fs (Total & Overload).
Ic (3n) and Sc (3n) are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads for fs (Total and Overload).
VR is the maximum Live Load + Impact shear range in the composite portion of the span.
Z is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.
Ma (Applied Moment) = 1.3[M℄ + Ms℄ + S₃(M℄ + I)].
Mu is the Full Plastic Moment Capacity for the section.
fs (Overload) is the sum of the stresses due to M℄ + Ms℄ + S₃(M℄ + I).
fs (Total) is the sum of the stresses due to 1.3[M℄ + Ms℄ + S₃(M℄ + I)].

FIELD SPLICE DETAILS



GIRDER ELEVATION

"NTR" denotes plates to which notch toughness requirements are applicable.



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REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SENECA ROAD
OVER F.A.I. 80
F.A.P. 623 SEC. 32-2 HBR GRUNDY CO.
STRUCTURE No. 032-0114
STATION 19+49.99
BEAM DETAILS

SCALE: NONE
DATE: OCTOBER, 2005

DRAWN BY: NJH
CHECKED BY: JLG