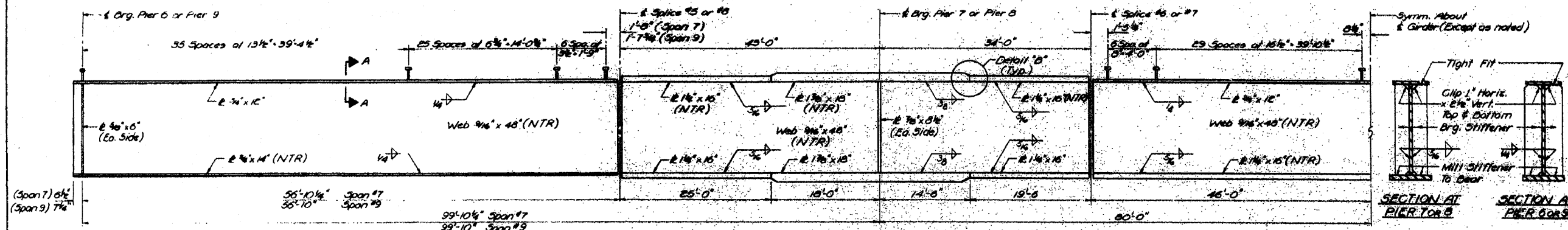
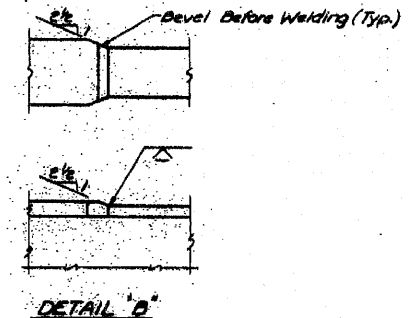
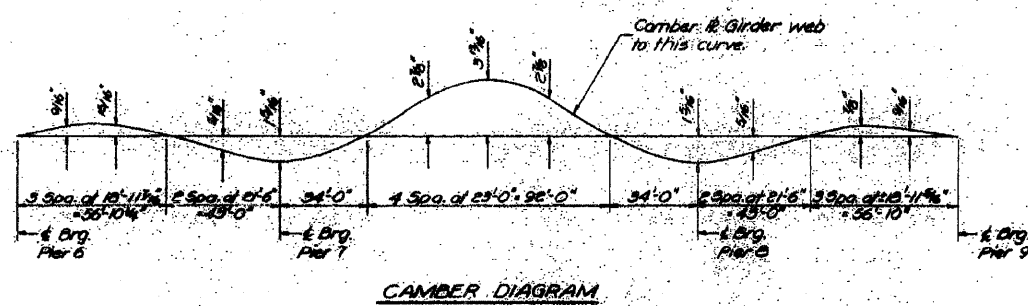
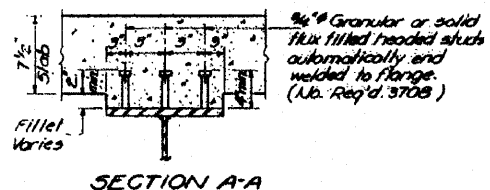


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	DESIGNED	CHECKED	DRAWN	SHEET NO.
1/22/08	DAN KRULL	MJR P.B.	SG PRITCHARD	17
				35 SHEETS



HALF GIRDER ELEVATION
NTR denotes steel that must conform to the Supplemental Requirements for Notch Toughness (Zone 2)



	04-34.1 Pier 6	05-34.2 Pier 7	06-34.3 Pier 8	07-34.4 Pier 9
I (in ⁴)	15000	15000	15000	15000
S (in ³)	1353	1353	1353	1353
M _{max} (k)	847.0	-340.4	355.1	-734.0
M _{min} (k)	1258.7	-1054.3	1100.7	-1013.0
M _{max} (k)	326.1	250.3	270.2	271.2
M _{min} (k)	2241.8	-2225.2	1730.0	-2061.2
V _s (k)	32.14	31.90	24.20	23.53

	04-34.1 Pier 6	05-34.2 Pier 7	06-34.3 Pier 8	07-34.4 Pier 9
I _s (in ⁴)	2741.3	2741.3	2741.3	2741.3
S _s (in ³)	237.5	237.5	237.5	237.5
M _{max} (k)	2241.8	2225.2	1730.0	2061.2
M _{min} (k)	1258.7	-1054.3	1100.7	-1013.0
V _s (k)	32.14	31.90	24.20	23.53

	Pier 6	Pier 7	Pier 8	Pier 9
R _{max} (k)	1008.3	1008.3	1008.3	1008.3
R _{min} (k)	1008.3	1008.3	1008.3	1008.3

	Pier 6	Pier 7	Pier 8	Pier 9
R _{max} (k)	1008.3	1008.3	1008.3	1008.3
R _{min} (k)	1008.3	1008.3	1008.3	1008.3

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing I_{TOTAL}.
I_c and S_c are the moment of inertia and section modulus of the composite section used in computing I_{TOTAL}.
V_R is the maximum shear force in span used to determine shear connector spacing.
Moments shown in the tables are factored according to the formula M_u = 1.3(M₁ + M₂) + 1.67(M₁ + 1.3)

FOR INFORMATION ONLY

DESIGNED DAN KRULL	EXAMINED
CHECKED MJR P.B.	APPROVED
DRAWN SG PRITCHARD	
CHECKED MJR P.B.	

STRUCTURAL STEEL
F.A. 11-11 SEC. 117-40-1
STEPHENSON COUNTY
WATSON, ILLINOIS