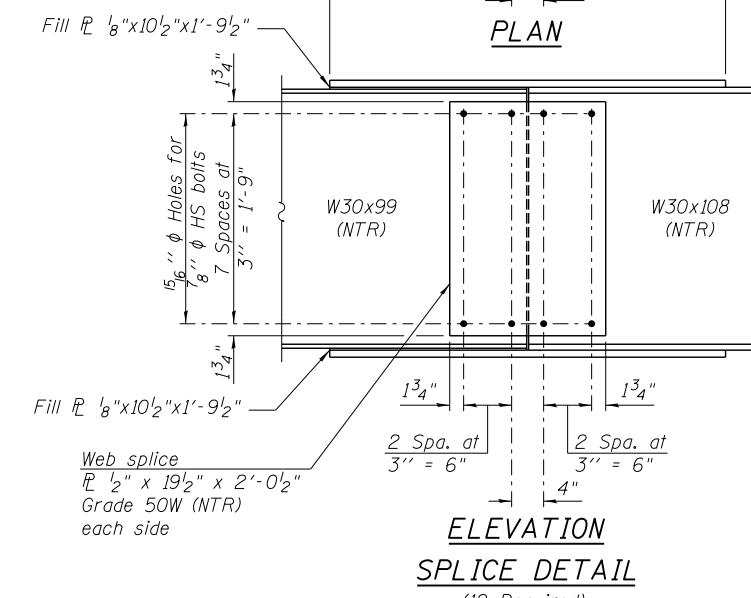
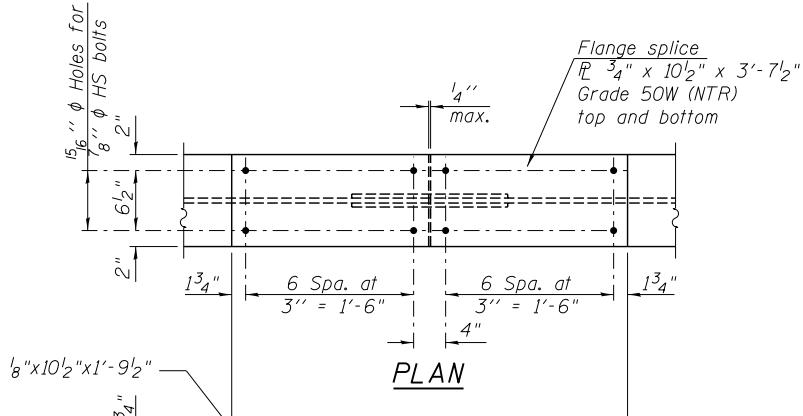


INTERIOR GIRDER MOMENT TABLE			
	0.4 Sp. 1 or 0.6 Sp. 3	Pier	0.5 Sp. 2
I_s (in ⁴)	3990	4470	4470
$I_c(n)$ (in ⁴)	12344		13404
$I_c(3n)$ (in ⁴)	9154		9875
$I_c(cr)$ (in ⁴)		6490	
S_s (in ³)	269	299	299
$S_c(n)$ (in ³)	426		466
$S_c(3n)$ (in ³)	385		420
$S_c(cr)$ (in ³)		355	
$DC1$ (kip)	.829	.834	.834
M_{DC1} (kip)	62.4	194.9	132.2
$DC2$ (kip)	.150	.150	.150
M_{DC2} (kip)	11.4	35.0	23.8
DW (kip)	.300	.300	.300
M_{DW} (kip)	22.7	70.1	47.5
$M_L + IM$ (kip)	367.9	371.5	437.1
M_u (Strength I) (kip)	770.1	1042.7	1031.2
$\phi_f M_n$ (kip)	2241	--	2387
$f_s DC1$ (ksi)	2.8	7.9	5.4
$f_s DC2$ (ksi)	0.4	1.2	0.7
$f_s DW$ (ksi)	0.7	2.4	1.4
$f_s (L+IM)$ (ksi)	10.4	12.5	11.2
f_s (Service II) (ksi)	17.4	27.8	22.1
$0.95 R_h F_y f$ (ksi)	47.5	47.5	47.5
f_s (Total)(Strength I) (ksi)	--	36.9	--
$\phi_f F_n$ (ksi)	--	44.5	--
V_f (k)	14.0	22.8	13.6

INTERIOR GIRDER REACTION TABLE		
	Abut.	Pier
R_{DC1} (k)	10.4	44.1
R_{DC2} (k)	1.9	7.9
R_{DW} (k)	3.8	15.9
$R_L + IM$ (k)	59.3	115.2
R_{Total} (k)	75.4	183.1

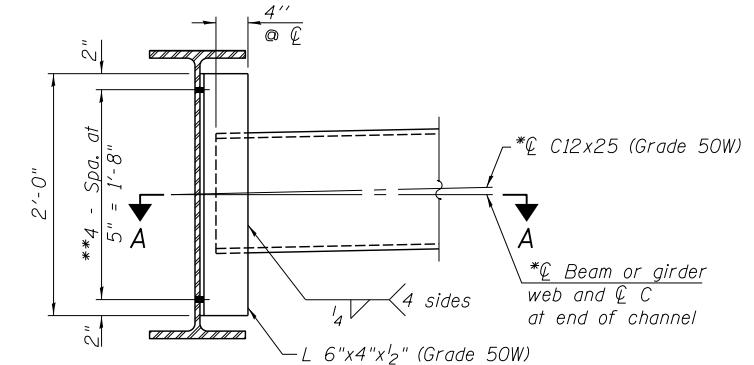
I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).
 $I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in⁴ and in³).
 $I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in⁴ and in³).
 $I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in⁴ and in³).
 $DC1$: Un-factored non-composite dead load (kips/ft.).
 M_{DC1} : Un-factored moment due to non-composite dead load (kip-ft.).
 $DC2$: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
 M_{DC2} : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
 DW : Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
 M_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 $M_L + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
 M_u (Strength I): Factored design moment (kip-ft).
 $1.25 (M_{DC1} + M_{DC2}) + 1.75 M_{DW} + 1.75 M_L + IM$
 $\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).
 $f_s DC1$: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
 M_{DC1}/S_n
 $f_s DC2$: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 $M_{DC2}/S_c(3n)$ or $M_{DC2}/S_c(cr)$ as applicable.
 $f_s DW$: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
 $M_{DW}/S_c(3n)$ or $M_{DW}/S_c(cr)$ as applicable.
 $f_s (L+IM)$: Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
 $M_L + IM / S_c(n)$ or $M_{DW} / S_c(cr)$ as applicable.
 f_s (Service II): Sum of stresses as computed below (ksi).
 $f_{DC1} + f_{DC2} + f_{DW} + 1.3 f_s (L+IM)$
 $0.95 R_h F_y f$: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
 f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
 $1.25 (f_{DC1} + f_{DC2}) + 1.5 f_{DW} + 1.75 f_s (L+IM)$
 $\phi_f F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).
 V_f : Maximum factored shear range in span computed according to Article 6.10.10.



SPICE DETAIL
(12 Required)

Fasteners shall be ASTM A325 Type 3 bolts.
Bolts 7/8" dia., holes 15/16" dia.

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



INTERIOR DIAPHRAGM
(45 Required)

Note:

Two hardened washers required for each set of oversized holes.

*Alternate channels C12x30 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.

**3 1/4" φ HS bolts, 15/16" φ holes. In Stage II Beam 4, 3 1/4" φ HS bolts, 13/16" x 1 7/8" slots.

Bolts in slots shall be finger tight until the second stage pour is complete.

Position slots so bolts start at one end with no concrete load and finish near the opposite end under deck load, allowing maximum displacement without laterally stressing main members.