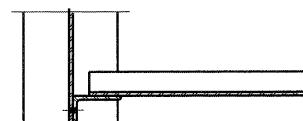
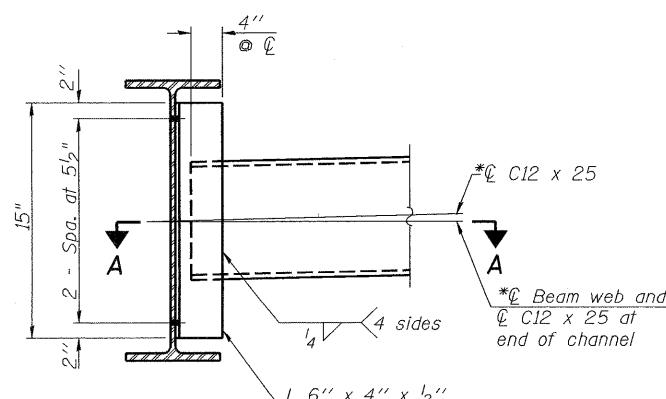


INTERIOR BEAM MOMENT TABLE		
	0.4 Sp. 1 or 0.6 Sp. 2	Pier
$I_s$ (in <sup>4</sup> )	3620	3620
$I_c(n)$ (in <sup>4</sup> )	11238	-
$I_c(3n)$ (in <sup>4</sup> )	8153	-
$I_c(cr)$ (in <sup>4</sup> )	-	4593
$S_s$ (in <sup>3</sup> )	267	267
$S_c(n)$ (in <sup>3</sup> )	424	-
$S_c(3n)$ (in <sup>3</sup> )	380	-
$S_c(cr)$ (in <sup>3</sup> )	-	298
$DC1$ (kip'')	0.76	0.76
$M_{DC1}$ ('k)	140.4	246.5
$DC2$ (kip'')	0.15	0.15
$M_{DC2}$ ('k)	27.7	48.7
$DW$ (kip'')	0.27	0.27
$M_{DW}$ ('k)	49.3	86.5
$M_L + IM$ ('k)	487.9	370.9
$M_u$ (Strength I) ('k)	1137.9	1147.9
$\phi_f M_n$ ('k)	2142.7	1201.9
$f_s DC1$ (ksi)	6.3	11.1
$f_s DC2$ (ksi)	0.9	2.0
$f_s DW$ (ksi)	1.6	3.5
$f_s (L+IM)$ (ksi)	13.8	14.9
$f_s$ (Service II) (ksi)	26.7	36.0
$0.95 R_h F_y f$ (ksi)	47.5	47.5
$f_s$ (Total)(Strength I) (ksi)	-	-
$\phi_f F_n$ (ksi)	-	-
$V_f$ (k)	14.3	21.2

INTERIOR BEAM REACTION TABLE		
	Abut.	Pier
$R_{DC1}$ (k)	14.6	48.5
$R_{DC2}$ (k)	2.9	9.6
$R_{DW}$ (k)	5.1	17.0
$R_L + IM$ (k)	61.8	108.8
$R_{Total}$ (k)	84.4	183.9



SECTION A-A



INTERIOR DIAPHRAGM

(25 Required)

$I_s$ ,  $S_s$ : 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 (in.<sup>4</sup> and in.<sup>3</sup>).

$I_c(n)$ ,  $S_c(n)$ : 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 (in.<sup>4</sup> and in.<sup>3</sup>).

$I_c(3n)$ ,  $S_c(3n)$ : 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 (in.<sup>4</sup> and in.<sup>3</sup>).

$I_c(cr)$ ,  $S_c(cr)$ : 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 dead loads (in.<sup>4</sup> and in.<sup>3</sup>).

$DC1$ : 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.).

$1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_L + IM$

$\phi_f M_n$ : 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).

$M_{DC1} / S_{nc}$

$f_s DC2$ : 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 plus impact loads as calculated below (ksi).

$M_L + IM / S_{nc}$  or  $M_L + IM / S_{c(cr)}$  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).

$1.25 (f_{DC1} + f_{DC2}) + 1.5 f_{DW} + 1.75 f_s L + IM$

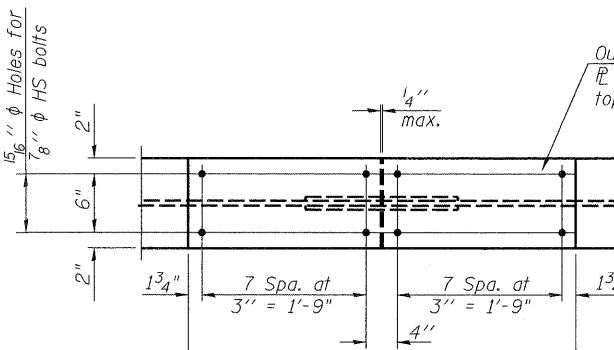
$\phi_f F_n$ : Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7.2 (ksi).

$V_f$ : Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

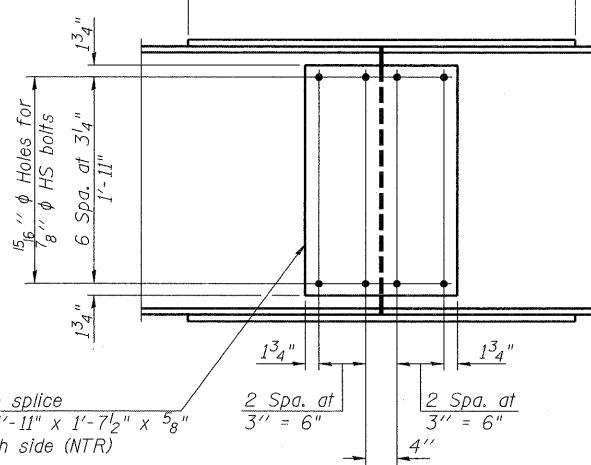
### TOP OF BEAM ELEVATIONS

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6
¶ Brg. West Abutment	779.56	779.67	779.76	779.67	779.56	
¶ Brg. Pier	779.56	779.67	779.76	779.67	779.56	
¶ Splice	779.56	779.67	779.76	779.67	779.56	
¶ Brg. East Abutment	779.56	779.67	779.76	779.67	779.56	

Note: Top of Beam Elevations shown are for fabrication use only.



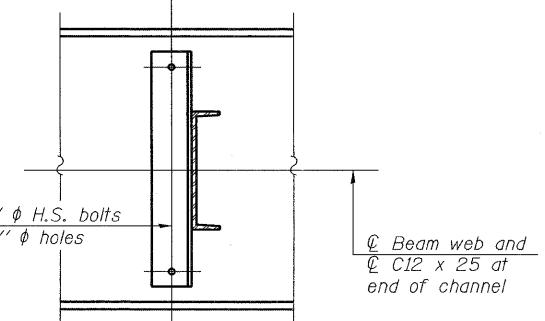
PLAN



ELEVATION

### FIELD SPLICE DETAIL

(6 Required)



### NOTES:

All splices are symmetrical about ¶ splice except for fills.

Two hardened washers required for each set of oversized holes.

\*Alternate channels C12 x 30 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.

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

HS bolts shall be 7/8" φ AASHTO MI64/ASTM A325 (type 3 for weathering steel).