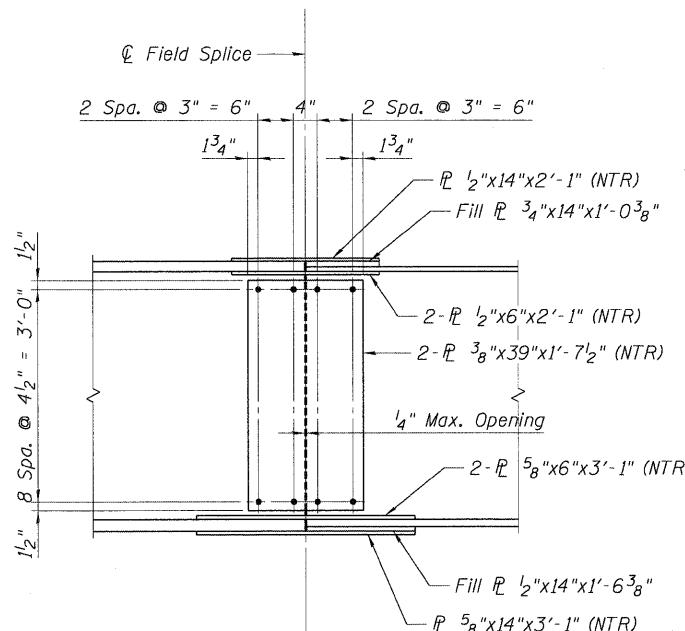
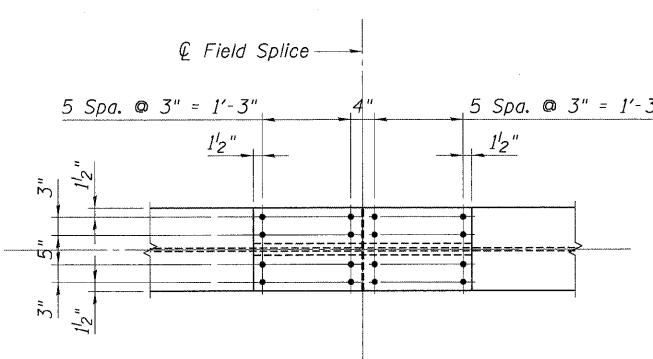


TOP FLANGE



FIELD SPLICE ELEVATION



BOTTOM FLANGE

EXTERIOR GIRDER MOMENT TABLE

	0.4 Span 1	Pier 1	0.6 Span 2
<i>I_s</i>	(in ⁴)	14,229	24,661
<i>I_c (n)</i>	(in ⁴)	36,787	41,726
<i>I_c (3n)</i>	(in ⁴)	27,233	30,378
<i>I_c (cr)</i>	(in ⁴)		29,665
<i>S_s</i>	(in ³)	700	1,144
<i>S_c (n)</i>	(in ³)	969	1,122
<i>S_c (3n)</i>	(in ³)	891	1,033
<i>S_c (cr)</i>	(in ³)		1,225
<i>DC1</i>	(k/ft)	0.979	1,050
<i>M DC1</i>	(k-ft)	209	1,069
<i>DC2</i>	(k/ft)	0.126	0.126
<i>M DC2</i>	(k-ft)	19	152
<i>DW</i>	(k/ft)	0.388	0.388
<i>M DW</i>	(k-ft)	90	391
<i>M LL+IM</i>	(k-ft)	1,023	1,420
<i>Mu (Strength I)</i>	(k-ft)	2,210	4,598
<i>φf Mn</i>	(k-ft)	4,931	5,534
<i>fs DC1</i>	(ksi)	3.6	11.2
<i>fs DC2</i>	(ksi)	0.3	1.5
<i>fs DW</i>	(ksi)	1.2	3.8
<i>fs LL+IM</i>	(ksi)	12.7	13.9
<i>fs (Service II)</i>	(ksi)	21.5	34.6
0.95 Rh Fyf	(ksi)	47.5	47.5
<i>fs Total (Strength I)</i>	(ksi)	28.8	46.0
<i>φf Fn</i>	(ksi)		50.0
<i>Vf</i>	(k)	58.9	56.6
		56.9	

INTERIOR GIRDER REACTION TABLE

	S. Abut.	Pier 1	N. Abut.
<i>R DC1</i>	(k)	23.8	119.1
<i>R DC2</i>	(k)	2.5	15.4
<i>R DW</i>	(k)	8.8	42.0
<i>R LL+IM</i>	(k)	86.8	159.6
<i>R Total</i>	(k)	121.9	336.1
		153.3	

I_s, S_s: Noncomposite moment of inertia and section modulus of the steel section used for computing *fs* (Strength I and Service II) due to noncomposite dead loads

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 *fs* (Strength I and Service II) in uncracked sections due to short-term composite live loads

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 *fs* (Strength I and Service II) in uncracked sections due to long-term composite (superimposed) dead loads

I_c (cr), S_c (cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement used for computing *fs* (Strength I and Service II) in cracked sections due to both short-term composite live loads and long-term composite dead loads

DC1: Unfactored noncomposite dead load

M DC1: Unfactored moment due to noncomposite dead load

DC2: Unfactored long-term composite (superimposed excluding future wearing surface) dead load

M DC2: Unfactored moment due to long-term composite (superimposed excluding future wearing surface) dead load

DW: Unfactored long-term composite (superimposed future wearing surface only) dead load

M DW: Unfactored moment due to long-term composite (superimposed future wearing surface only) dead load

M LL+IM: Unfactored moment due to live load plus dynamic load allowance (impact)

Mu (Strength I): Factored design moment

$1.25 [M DC1] + [M DC2] + 1.5 [M DW] + 1.75 [M LL+IM]$

φf Mn: Compact composite positive moment capacity computed according to Article 6.10.7.1

fs DC1: Unfactored stress at outside face of controlling steel flange due to vertical noncomposite dead loads as calculated below (*M DC1*) / *S_s*

fs DC2: Unfactored stress at outside face of controlling steel flange due to vertical composite dead loads as calculated below (*M DC2*) / [*S_c (3n)*] or (*M DC2*) / [*S_c (cr)*] as applicable

fs DW: Unfactored stress at outside face of controlling steel flange due to vertical composite future wearing surface loads as calculated below (*M DW*) / [*S_c (3n)*] or (*M DW*) / [*S_c (cr)*] as applicable

fs LL+IM: Unfactored stress at outside face of controlling steel flange due to vertical composite live plus impact loads as calculated below (*M LL+IM*) / [*S_c (n)*] or (*M LL+IM*) / [*S_c (cr)*] as applicable

fs (Service II): Sum of stresses as computed below (*fs DC1*) + (*fs DC2*) + (*fs DW*) + 1.3 (*fs LL+IM*)

0.95 Rh Fyf: Composite stress capacity for Service II loading according to Article 6.10.4.2

fs Total (Strength I): Sum of stresses as computed below $1.25 [(fs DC1) + (fs DC2)] + 1.5 (fs DW) + 1.75 (fs LL+IM)$

φf Fn: Composite factored flexural resistance of controlling flange for Strength I loading according to Article 6.10.7.2 or 6.10.8

Vf: Maximum vertical fatigue shear force range under Fatigue I load combination computed according to Article 6.10.10

NOTES:

- All structural steel shall be AASHTO M 270 Grade 50 except diaphragms, fill plates, and shim plates shall be Grade 36.

- Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.