

INTERIOR GIRDER MOMENT TABLE										
	0.4 Sp. 1 or 0.6 Sp. 10	Pier 1 or Pier 9	0.5 Sp. 2 or Sp. 9	Pier 2 or Pier 8	0.5 Sp. 3 or Sp. 8	Pier 3 or Pier 7	0.5 Sp. 4 or Sp. 7	Pier 4 or Pier 6	0.6 Sp. 5 or 0.4 Sp. 6	
I_s	(in ⁴)	4,930	4,930	4,930	4,930	4,930	4,930	4,930	4,930	4,930
$I_c(n)$	(in ⁴)	14,582	14,582	14,582	14,582	14,582	14,582	14,582	14,582	14,582
$I_c(3n)$	(in ⁴)	10,822	---	10,822	---	10,822	---	10,822	---	10,822
$I_c(cr)$	(in ⁴)	---	7,293	---	7,293	---	7,293	---	7,293	---
S_s	(in ³)	329	329	329	329	329	329	329	329	329
$S_c(n)$	(in ³)	508	---	508	---	508	---	508	---	508
$S_c(3n)$	(in ³)	459	---	459	---	459	---	459	---	459
$S_c(cr)$	(in ³)	---	397	---	397	---	397	---	397	---
DC1	(k/')	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902
M _{DC1}	(k)	247	333	113	256	151	256	114	330	243
DC2	(k/')	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174	0.174
M _{DC2}	(k)	48	66	22	51	29	51	22	66	48
DW	(k/')	0.361	0.361	0.361	0.361	0.361	0.361	0.361	0.361	0.361
M _{DW}	(k)	100	138	45	106	61	106	45	137	99
M _{ℓ + IM}	(k)	625	527	507	477	510	477	507	525	621
M _u (Strength I)	(k)	1613	1628	1124	1378	1209	1378	1125	1619	1599
Φ _r M _n	(k)	2,504	1,741	2,639	1,770	2,600	1,802	2,638	1,775	2,508
f _s DC1	(ksi)	9.01	12.15	4.12	9.34	5.51	9.34	4.16	12.04	8.86
f _s DC2	(ksi)	1.25	1.99	0.57	1.54	0.76	1.54	0.57	1.99	1.25
f _s DW	(ksi)	2.61	4.17	1.18	3.20	1.59	3.20	1.18	4.14	2.59
f _s (ℓ + IM)	(ksi)	14.77	15.93	11.98	14.42	12.05	14.42	11.98	15.87	14.68
f _s (Service II)	(ksi)	32.08	39.02	21.45	32.83	23.53	32.83	21.48	38.80	31.78
0.95R _h F _{yf}	(ksi)	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50
f _s (Total)(Strength I)	(ksi)	---	---	---	---	---	---	---	---	---
Φ _r F _n	(ksi)	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
V _r	(k)	42.88	50.93	45.90	52.34	44.64	51.12	45.80	50.75	43.96

INTERIOR GIRDER REACTION TABLE						
	W. Abut. or E. Abut.	Pier 1 or Pier 9	Pier 2 or Pier 8	Pier 3 or Pier 7	Pier 4 or Pier 6	Pier 5 W. Brg. or Pier 5 E. Brg.
R _{DC1}	(k)	21.7	60.1	52.3	52.4	59.8
R _{DC2}	(k)	4.1	11.9	10.3	10.3	11.8
R _{DW}	(k)	8.5	24.6	21.4	21.4	24.5
R _{ℓ + IM}	(k)	71.7	105.6	103.5	103.5	105.4
R _{Total}	(k)	106.1	202.1	187.5	187.6	201.6

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 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}) + 1.5 M_{DW} + 1.75 M_{ℓ + IM}

Φ_rM_n: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.) or Negative Moment Capacity computed according to Appendix A6.

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)} at piers.

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)} at piers.

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_{c(3n)} or M_{ℓ + IM} / S_{c(cr)} at piers.

f_s (Service II): Sum of stresses as computed below (ksi).
f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s(ℓ + IM)

0.95R_hF_{yf}: 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_{sDC1} + f_{sDC2}) + 1.5 f_{sDW} + 1.75 f_s(ℓ + IM)

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

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