

INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1	Pier	0.6 Sp. 2
I_s	(in ⁴)	53,510	107,872	99,955
$I_c(n)$	(in ⁴)	122,831	192,465	186,801
$I_c(3n)$	(in ⁴)	90,599	147,908	141,840
$I_c(cr)$	(in ⁴)	-----	121,655	-----
S_s	(in ³)	1610	2955	2859
$S_c(n)$	(in ³)	2162	3529	3434
$S_c(3n)$	(in ³)	1974	3283	3198
$S_c(cr)$	(in ³)	-----	3083	-----
DC1	(k/')	1.167	1.335	1.302
MDC1	(k)	1278	4081	2793
DC2	(k/')	0.157	0.157	0.157
MDC2	(k)	184	504	330
DW	(k/')	0.404	0.404	0.404
MDW	(k)	473	1298	850
$M_k + IM$	(k)	2255	2779	2877
M_u (Strength I)	(k)	6483	12,542	10214
$\phi_r M_n$	(k)	10,883	13,302	17,186
f_s DC1	(ksi)	9.5	16.6	11.7
f_s DC2	(ksi)	1.1	1.8	1.2
f_s DW	(ksi)	2.9	4.7	3.2
f_s ($\frac{1}{8} + IM$)	(ksi)	12.5	9.4	10.1
f_s (Service II)	(ksi)	29.8	35.4	29.2
$0.95R_n F_y f$	(ksi)	47.5	47.5	47.5
f_s (Total)(Strength I)	(ksi)	-----	-----	-----
$\phi_r F_n$	(ksi)	-----	-----	-----
V_r	(k)	72.8	66.9	75.7

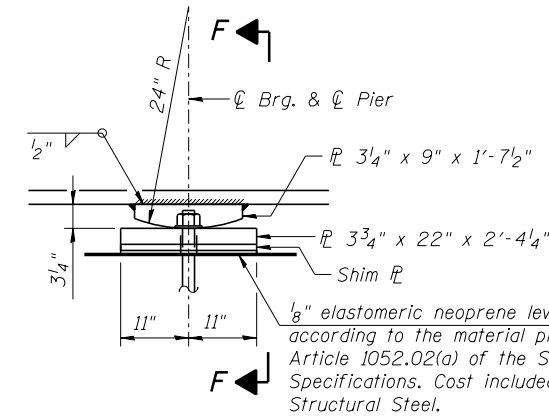
INTERIOR GIRDER REACTION TABLE				
		W. Abut.	Pier	E. Abut.
RDC1	(k)	87.6	251.7	117.2
RDC2	(k)	7.7	31.0	10.2
RDW	(k)	19.8	79.6	26.2
$R_k + IM$	(k)	121.9	233.2	131.0
R_{Total}	(k)	237.0	595.5	284.6

All reactions are unfactored.
Reactions at abutments include weight of diaphragm

NOTES:

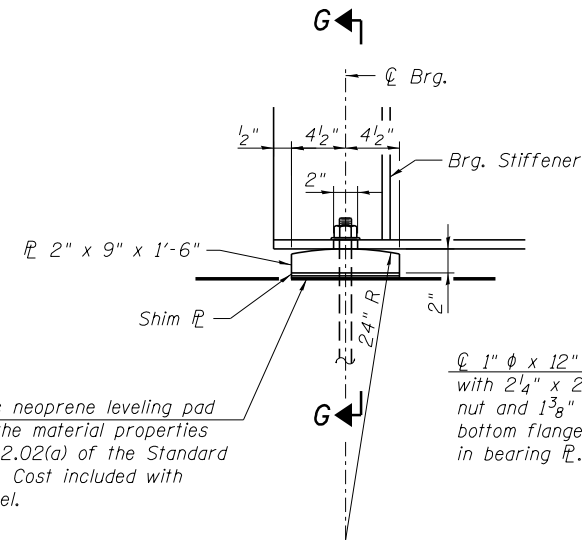
- Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified.
- Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
- Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
- Two $\frac{1}{8}$ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
- Steel members required for bearing assembly shall be included in the cost of structural steel.

- 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.).
MDC1: 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.).
MDC2: 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.).
MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
M $\frac{1}{8} + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
 M_u (Strength I): Factored design moment (kip-ft.).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{\frac{1}{8} + IM}$
 $\phi_r M_n$: 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).
MDC1 / 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).
MDC2 / $S_c(3n)$ or MDC2 / $S_c(cr)$ 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).
MDW / $S_c(3n)$ or MDW / $S_c(cr)$ as applicable.
 f_s ($\frac{1}{8} + IM$): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).
M $\frac{1}{8} + IM$ / $S_c(n)$ or M $\frac{1}{8} + IM$ / $S_c(cr)$ as applicable.
 f_s (Service II): Sum of stresses as computed below (ksi).
 $f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s(\frac{1}{8} + IM)$
 $0.95R_n F_y f$: 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).
 $1.25 (f_{sDC1} + f_{sDC2}) + 1.5 f_{sDW} + 1.75 f_s(\frac{1}{8} + IM)$
 $\phi_r F_n$: 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 (at Abutments & Pier).



ELEVATION AT PIER

FIXED BEARING AT PIER
(Girders 3 thru 12)



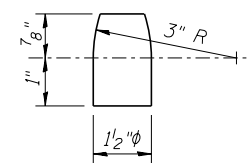
ELEVATION

FIXED BEARING AT ABUTMENT

FILLER PLATE SCHEDULE

(In addition to adjustment shims, see General Notes)
Cost Included with Structural Steel

Abutment	Girder	Plate Thickness t
West	7	$\frac{5}{8}$ "
East	7	$\frac{3}{8}$ "



PINTLE

Fill plates to be the same horizontal dimensions as the bottom bearing plates.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Anchor Bolts, 1"	Each	56
Anchor Bolts, 1 1/2"	Each	20