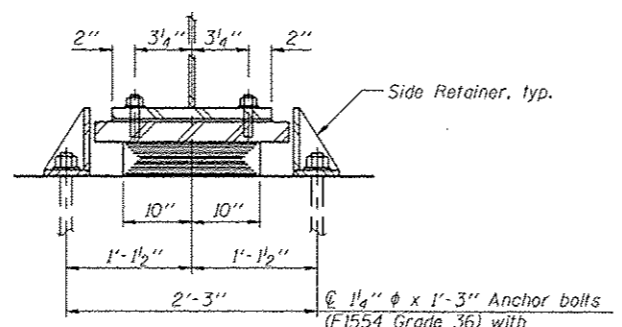
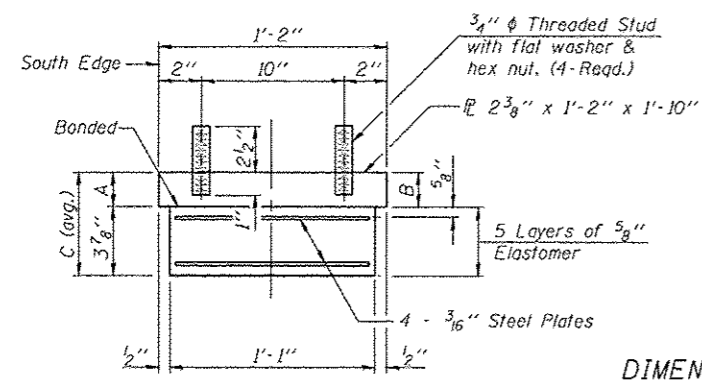


ELEVATION AT PIER



SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.



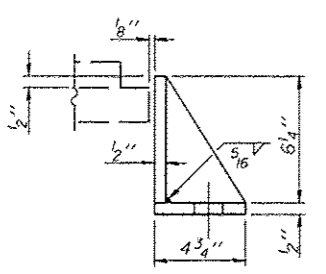
BEARING ASSEMBLY

DIMENSIONS

	Pier 1	Pier 2
A	2 3/8"	3"
B	2 3/8"	2 3/8"
C	6 1/4"	6 3/8"

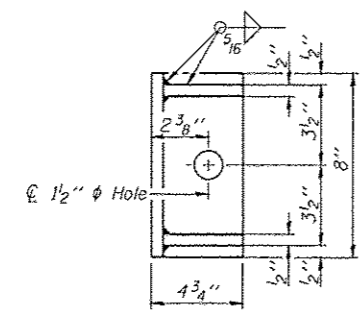
Note: Shim plates shall not be placed under Bearing Assembly.

Notes:
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
 Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
 Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.
 The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.
 Two 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.

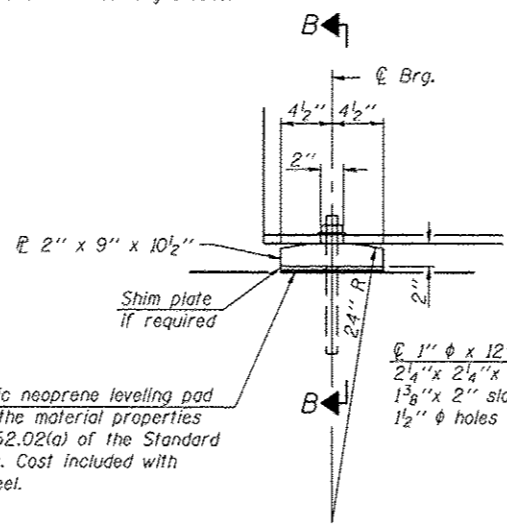


SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

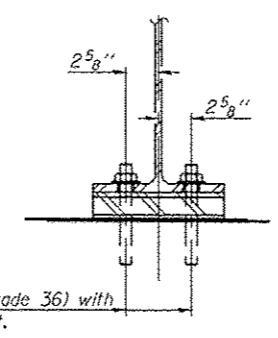


ELEVATION AT ABUTMENT

FIXED BEARING

	INTERIOR GIRDER MOMENT TABLE		
	0.4 Sp. 1 or 0.6 Sp. 3	Pier 1 or Pier 2	0.5 Span 2
I_s	(in ⁴) 3990	3990	3990
$I_c(n)$	(in ⁴) 11860	--	11860
$I_c(3n)$	(in ⁴) 8920	--	8920
$I_c(cr)$	(in ⁴) --	6010	--
S_s	(in ³) 269	269	269
$S_c(n)$	(in ³) 417	--	417
$S_c(3n)$	(in ³) 378	--	378
$S_c(cr)$	(in ³) --	324	--
DC1	(k/ft) 0.857	0.857	0.857
M_{oc1}	(k) 90.0	-296	200
DC2	(k/ft) 0.304	0.304	0.304
M_{oc2}	(k) 31.0	-107	75.6
DW	(k/ft) 0.25	0.25	0.25
M_{ow}	(k) 26.3	-86.2	58.3
$M_k + IM$	(k) 442	-459	518
M_u (Strength I)	(k) 964	-1435	1332
$\phi_r M_n$	(k) 2166	-1680	2055
f_s DC1	(ksi) 4.0	-13.2	8.9
f_s DC2	(ksi) 1.0	-4.0	2.4
f_s DW	(ksi) 0.80	-3.2	1.9
f_s (k+IM)	(ksi) 12.7	-17.0	14.9
f_s (Service II)	(ksi) 22.4	-42.4	32.5
$0.95R_n F_y$	(ksi) 47.5	-47.5	47.5
f_s (Total)(Strength I)	(ksi) --	--	--
$\phi_r F_n$	(ksi) --	--	--
V_r	(k) 21.9	25.6	20.1

	INTERIOR GIRDER REACTION TABLE	
	Abuts.	Piers
R_{DC1}	(k) 12.7	55.0
R_{DC2}	(k) 4.5	19.8
R_{DW}	(k) 3.7	16.0
$R_k + IM$	(k) 64.2	101.1
R_{Total}	(k) 85.1	191.9



SECTION B-B

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.4 and in.3).
 $I_c(n), S_c(n)$: 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.4 and in.3).
 $I_c(3n), S_c(3n)$: 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.4 and in.3).
 $I_c(cr), S_c(cr)$: 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.4 and in.3).
 DC1: Un-factored non-composite dead load (kips/ft.).
 M_{oc1} : 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_{oc2} : 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_{ow} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 $M_k + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
 M_u (Strength I): Factored design moment (kip-ft.).
 $1.25 (M_{oc1} + M_{oc2}) + 1.5 M_{ow} + 1.75 M_k + IM$
 $\phi_r M_n$: 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).
 M_{oc1} / S_{oc}
 f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 $M_{oc2} / S_c(3n)$ or $M_{oc2} / S_c(cr)$ 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).
 $M_{ow} / S_c(3n)$ or $M_{ow} / S_c(cr)$ as applicable.
 f_s (k+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).
 $M_k + IM / S_c(n)$ or $M_k + IM / S_c(cr)$ as applicable.
 f_s (Service II): Sum of stresses as computed below (ksi).
 $f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s(k + IM)$
 $0.95R_n F_y$: 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).
 $1.25 (f_{sDC1} + f_{sDC2}) + 1.5 f_{sDW} + 1.75 f_s(k + IM)$
 $\phi_r F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7.2 or 6.10.8 (ksi).
 V_r : Maximum factored shear range in span computed according to Article 6.10.10.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	12
Anchor Bolts, 1"	Each	24
Anchor Bolts, 1 1/4"	Each	24