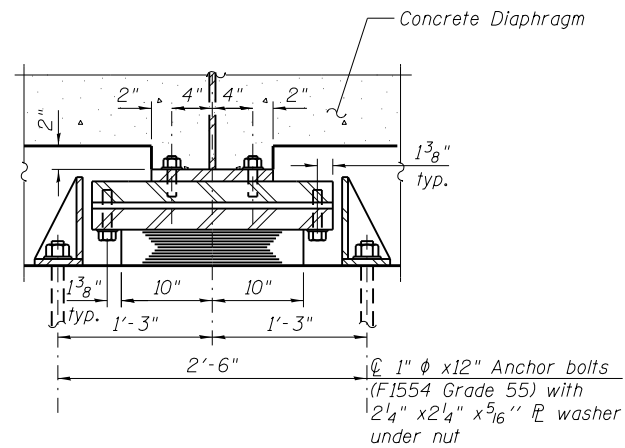


ELEVATION AT E. ABUT.



SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.

INTERIOR GIRDER MOMENT TABLE		
0.5 Span		
I_s	(in ⁴)	12252
$I_c(n)$	(in ⁴)	33758
$I_c(3n)$	(in ⁴)	25060
S_s	(in ³)	603
$S_c(n)$	(in ³)	860
$S_c(3n)$	(in ³)	791
DC1	(k/')	0.833
M _{DC1}	(k)	717
DC2	(k/')	0.150
M _{DC2}	(k)	129
DW	(k/')	0.300
M _{DW}	(k)	258
M _{ℓ + IM}	(k)	1241
M _u (Strength I)	(k)	3617
$\phi_r M_n$	(k)	4393
f_s DC1	(ksi)	14.27
f_s DC2	(ksi)	1.96
f_s DW	(ksi)	3.91
f_s (ℓ + IM)	(ksi)	17.32
f_s (Service II)	(ksi)	42.65
0.95R _h F _{yt}	(ksi)	47.50
V _r	(k)	28.9

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).

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}

$\phi_r M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (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)}

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)}

f_s (ℓ + IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).

M_{ℓ + IM} / S_{c(n)}

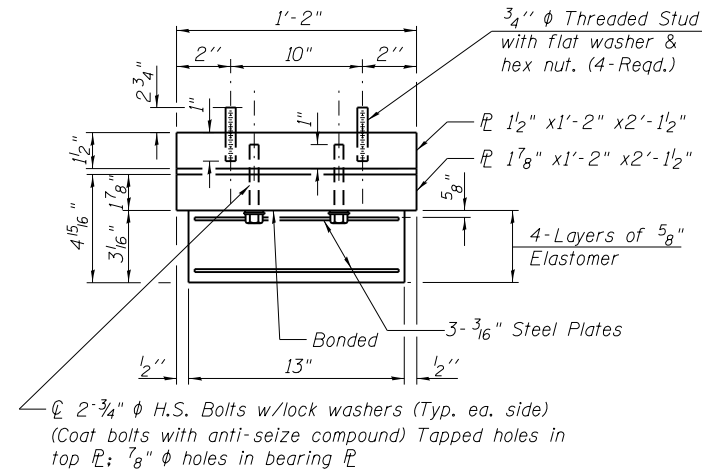
f_s (Service II): Sum of stresses as computed below (ksi).

$f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s (\ell + IM)$

0.95R_hF_{yt}: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

V_r: Maximum factored shear range in span computed according to Article 6.10.10. (kip).

INTERIOR GIRDER REACTION TABLE		
Abut.		
R _{DC1}	(k)	72.3
R _{DC2}	(k)	6.2
R _{DW}	(k)	12.5
R _{ℓ + IM}	(k)	96.3
R _{Total}	(k)	187.3



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.

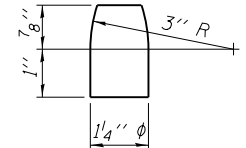
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

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 50W.

Note:

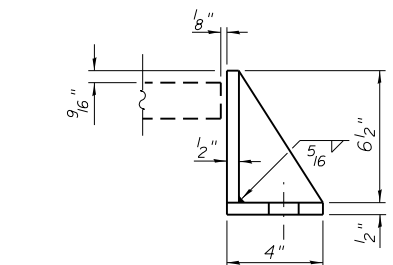
Shim plates shall not be placed under Bearing Assembly.



PINTLE

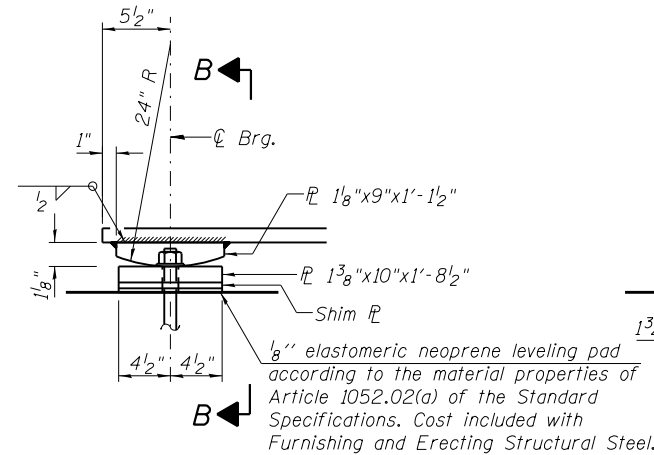
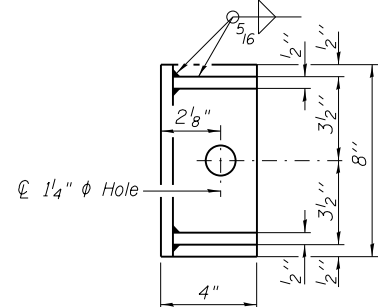
SHIM PLATES

Location	Thickness
W. Abut. Girder 4	3/8"
E. Abut. Girder 3	3/8"



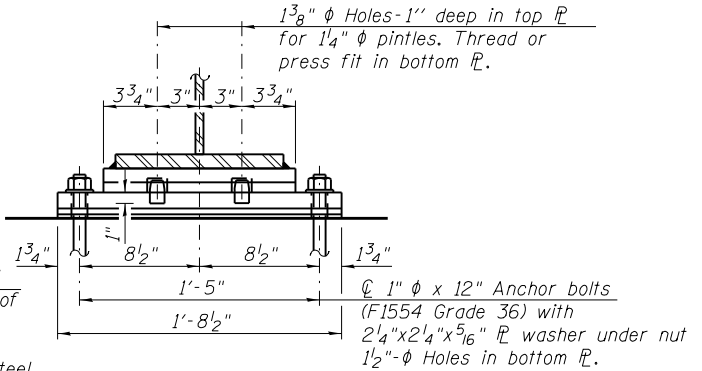
SIDE RETAINER

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



ELEVATION AT W. ABUT.

FIXED BEARING



SECTION B-B

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	6
Anchor Bolts, 1"	Each	24