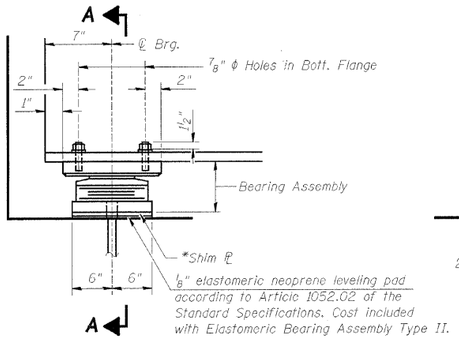
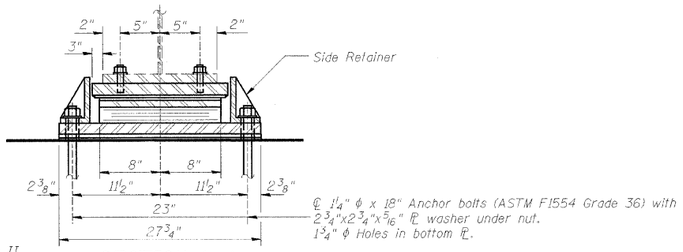
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 5154	04-00343-00-BR	WINNEBAGO	92	57
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-BRM-5099(75)		

Structural Sheet 11B of 21B



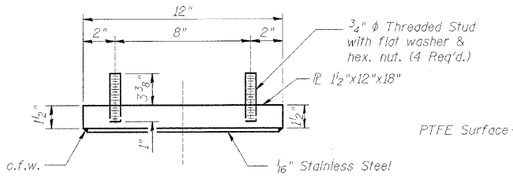
ELEVATION AT ABUT.



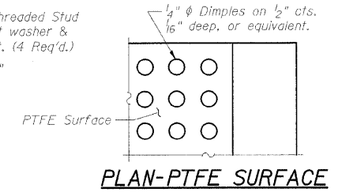
SECTION A-A

TYPE II TFE ELASTOMERIC EXP. BRG. (EAST ABUTMENT)

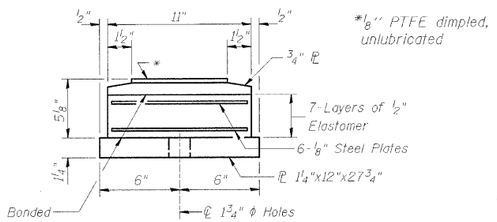
*Additional 1/8" Shim ℄ required for Beam 3



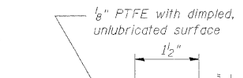
TOP BEARING ASSEMBLY



PLAN-PTFE SURFACE



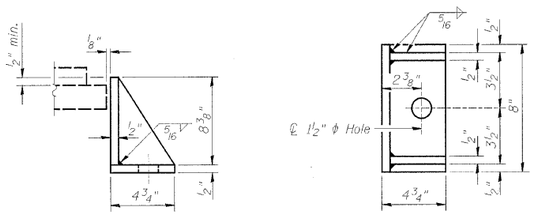
BOTTOM BEARING ASSEMBLY



SECTION THRU PTFE

*1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

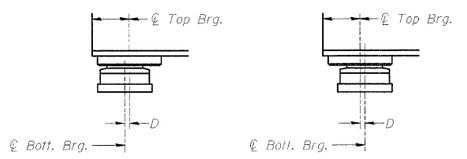
Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



SIDE RETAINER

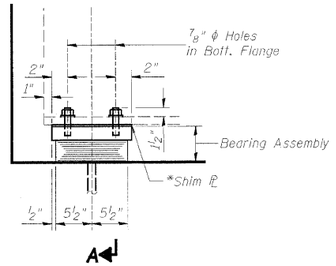
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Cost included with Elastomeric Bearing Assembly, Type II.

Reaction Table	
Load	Reaction
Dead load	62.9k
Live Load	52.7k
Impact	10.5k
Total	126.1k
Girder Slope	0.24%
Expansion Length	273'-5"

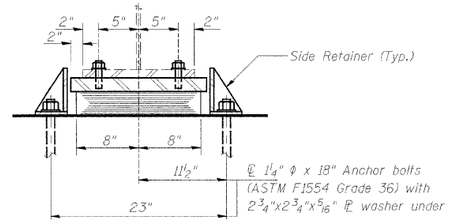


SETTING ANCHOR BOLTS AT EXP. BRG.

D=⅛" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.



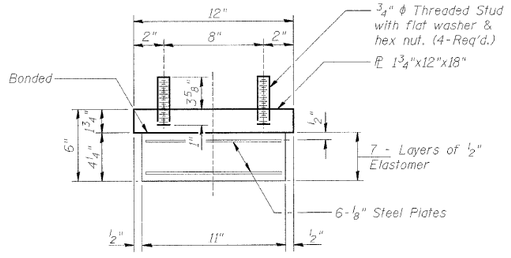
ELEVATION AT ABUT.



SECTION A-A

TYPE I ELASTOMERIC EXP. BRG. (WEST ABUTMENT)

*Additional 1/8" Shim ℄ required for Beam 3



BEARING ASSEMBLY

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

NOTES:

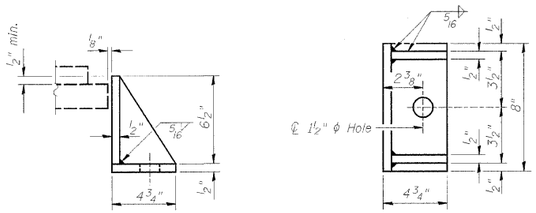
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of 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 bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Cost included with Elastomeric Bearing Assembly, Type I.

Reaction Table	
Load	Reaction
Dead load	62.9k
Live Load	52.7k
Impact	10.5k
Total	126.1k
Girder Slope	0.24%
Expansion Length	131'-3"

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	6
Elastomeric Bearing Assembly Type II	Each	6
Anchor Bolts, 1¼"	Each	24

TYPE I & II ELASTOMERIC BEARINGS
BELTLINE ROAD OVER KISHWAUKEE RIVER
FAU ROUTE 5154 SECTION 04-00343-00-BR
WINNEBAGO COUNTY
STA. 129+89 (S.N. 101-0171)