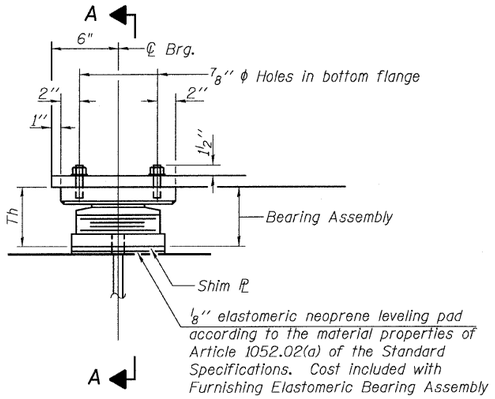
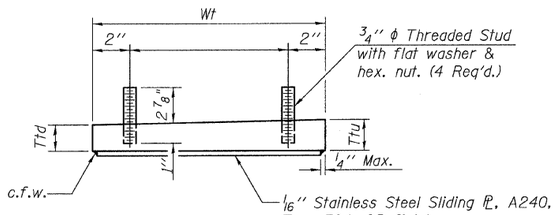
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

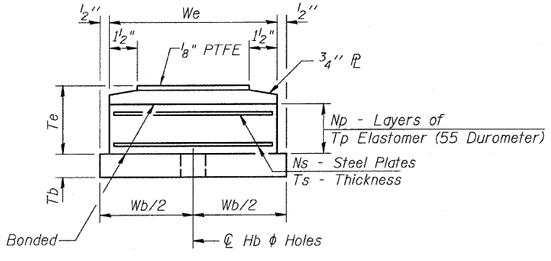


1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Furnishing Elastomeric Bearing Assembly Type II.

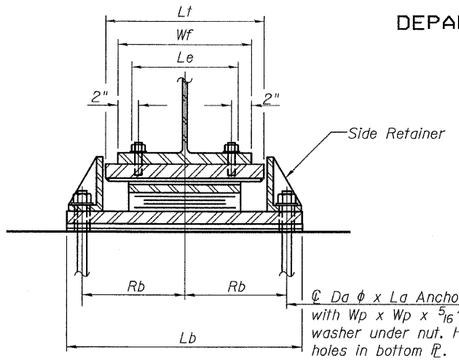
ELEVATION AT PIER 3



TOP BEARING ASSEMBLY



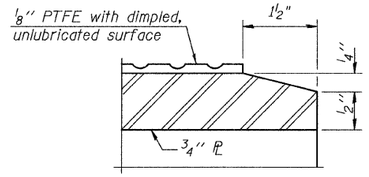
BOTTOM BEARING ASSEMBLY



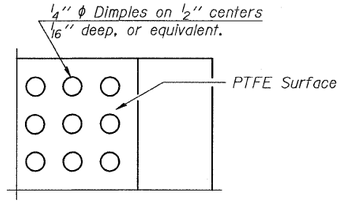
℄ Da ϕ x La Anchor bolts (F1554 Gr. 36) with Wp x Wp x 5/16" PL washer under nut. Hb -ϕ holes in bottom PL.

SECTION A-A

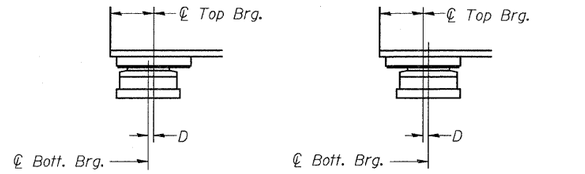
TYPE II ELASTOMERIC EXP. BRG.



SECTION THRU PTFE



PLAN-PTFE SURFACE



BELOW 50°F. (Move bott. brg. away from fixed brg.)

ABOVE 50°F. (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

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 for Type II bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.

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

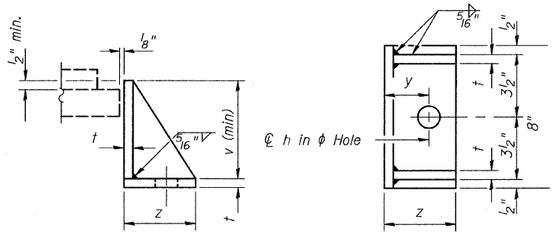
Side retainers and other steel members required for the bearing assembly are furnished under a separate contract. Installation of these items are included in the cost of Erecting Elastomeric Bearing Assembly, Type II.

The 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.

The Structural Steel plates of the bearing assembly shall conform to the requirements of AASHTO M270 Grade 50.

Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on the bearing details.



SIDE RETAINER

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

BILL OF MATERIAL

Item	Unit	Total
Erecting Elastomeric Bearing Assembly, Type II	Each	38
Anchor Bolts, 1"	Each	76

SHIM PLATE THICKNESS TABLE

Bearing Location	Beam																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	SG2	SG3	SG4	SG8	SG9
South Abutment	--	--	--	--	--	--	--	1/8"	1/8"	1/4"	1/4"	3/8"	1/2"	5/8"	--	--	3/8"	--	--	--	--
Pier 1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1/2"	--	--	--	--
Pier 2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1/2"	--	--	--	--
Pier 3, South	--	--	--	1/8"	1/8"	1/4"	1/2"	1/2"	--	--	1/8"	1/4"	3/8"	3/8"	1/2"	-	--	1/4"	--	--	--
Pier 3, North	--	--	--	--	--	--	--	--	5/8"	5/8"	5/8"	5/8"	1/2"	1/2"	1/2"	--	--	--	1/4"	--	1/4"
Pier 4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1/8"
Abutment 1C, S. Brg.	1/2"	--	--	--	--	--	--	--	1/4"	1/4"	1/4"	1/4"	1/4"	1/8"	1/8"	1/8"	--	--	--	1/4"	--

See Sheet 42 for Table of Dimensions.

ELASTOMERIC BEARINGS
TYPE 2
STRUCTURE NO. 016-3241

DESIGNED - JMA	REVISIONS		
CHECKED - AMD,	NAME	DATE	
DRAWN - JMA			
CHECKED - AMD,			
DATE - 03/25/2011			

TYLIN INTERNATIONAL

SHEET NO. 43	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
71 SHEETS	55	0711.2R & 1011.1BR	COOK	741	296
			CONTRACT NO. 60999		
	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

11:30:42 AM
p:\01345\structur\CI South Approach 016-3241\55ci\type2.dgn
4/28/2011