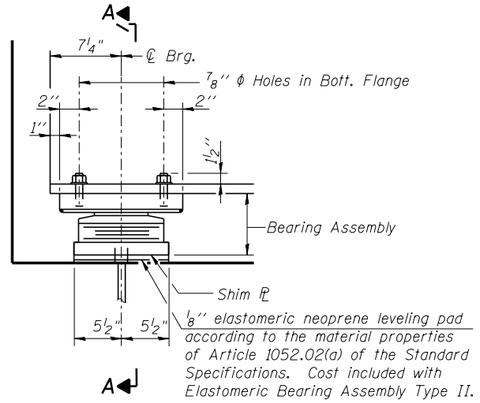
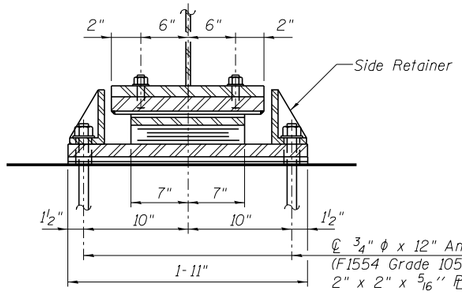


1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Elastomeric Bearing Assembly Type II.

ELEVATION AT S. ABUT.

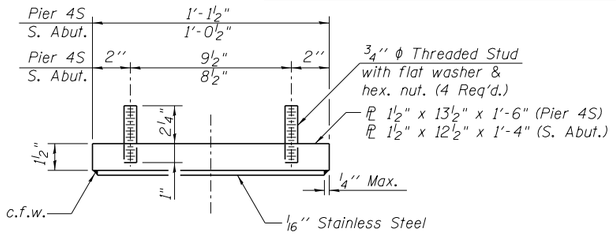
(Looking South)



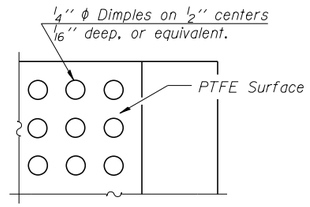
℄ 3/4" ϕ x 12" Anchor bolts (F1554 Grade 105) with 2" x 2" x 5/16" PL washer under nut.
1 1/4" ϕ Holes in bottom PL.

SECTION A-A

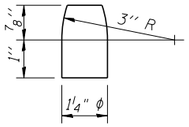
TYPE II ELASTOMERIC EXP. BRG. S. ABUT.



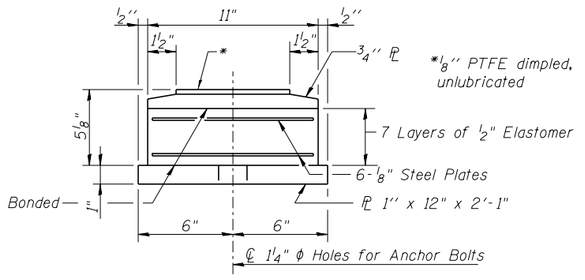
TOP BEARING ASSEMBLY



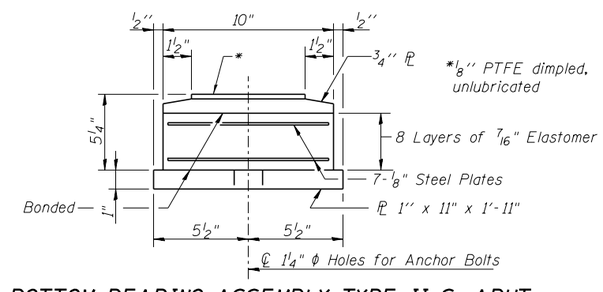
PLAN-PTFE SURFACE



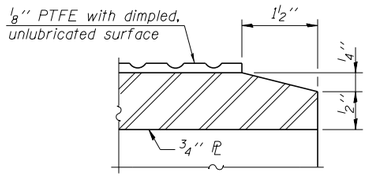
PINTLE



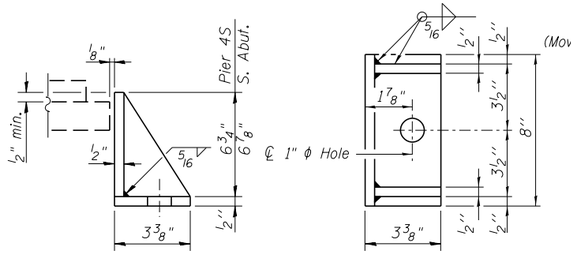
BOTTOM BEARING ASSEMBLY TYPE II PIER 4S



BOTTOM BEARING ASSEMBLY TYPE II S. ABUT.

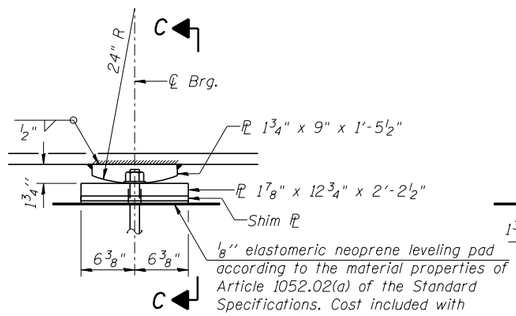


SECTION THRU PTFE



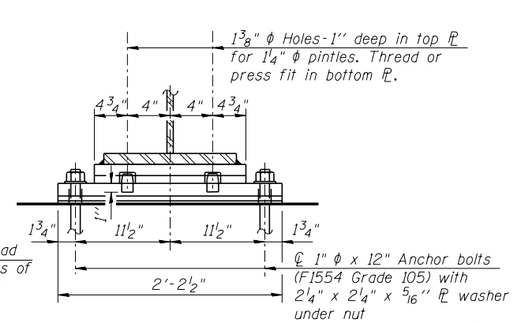
SIDE RETAINER

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 PIER 2



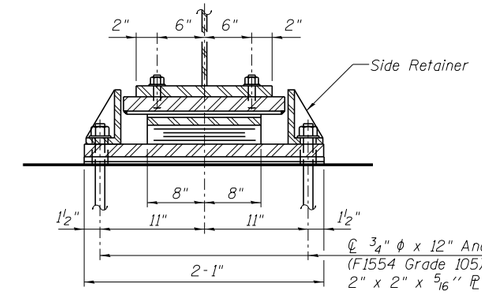
SECTION C-C

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

ELEVATION AT PIER 4S

(Looking South)

TYPE II ELASTOMERIC EXP. BRG. PIER 4S



℄ 3/4" ϕ x 12" Anchor bolts (F1554 Grade 105) with 2" x 2" x 5/16" PL washer under nut.
1 1/4" ϕ Holes in bottom PL.

SECTION B-B

FIXED BEARING

Notes:

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.

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 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 Type II elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.

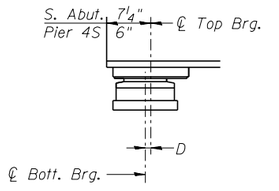
The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

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.

Steel plates and pintles required for fixed bearing shall be included with cost of furnishing and erecting structural steel.

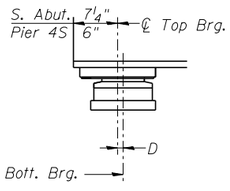
The structural steel plates and pintles of the fixed bearing shall meet the requirements of AASHTO M270 Grade 50.

The structural steel plates of the elastomeric bearing assemblies shall meet the requirements of AASHTO M270 Grade 50.



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

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	4
Anchor Bolts, 3/4"	Each	8
Anchor Bolts, 1"	Each	4

benesch
engineers · scientists · planners
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10093

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		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - KMS	REVISED -
	PLOT DATE = 12/20/2013	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELASTOMERIC AND FIXED BEARING DETAILS
STRUCTURE NO. 016-0483
SHEET NO. SE27 OF SE46 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2013-038B-R	COOK	821	511
		CONTRACT NO. 60J16		
	ILLINOIS FED. AID PROJECT			

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