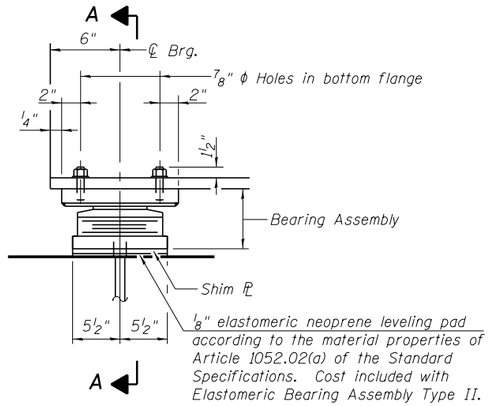
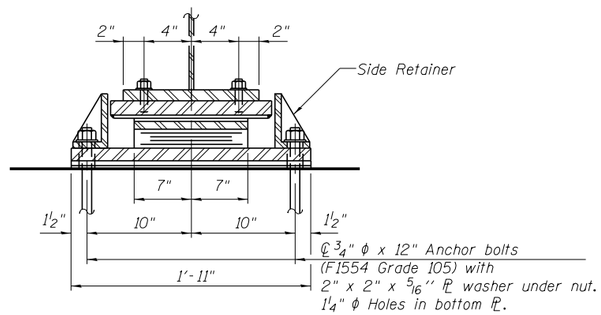


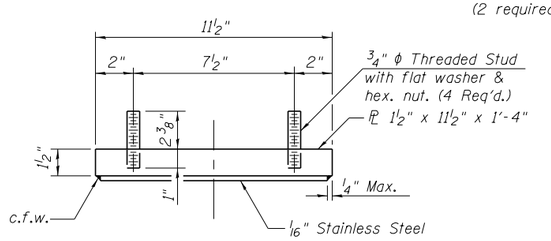
ELEVATION AT PIER 4



SECTION A-A

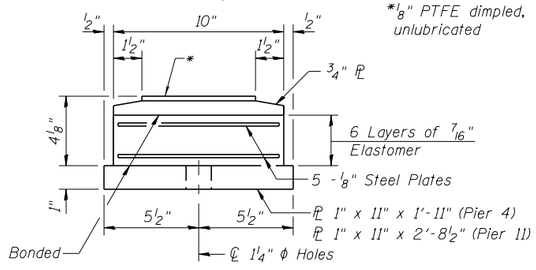
TYPE II ELASTOMERIC EXP. BRG.

(2 required)



TOP BEARING ASSEMBLY

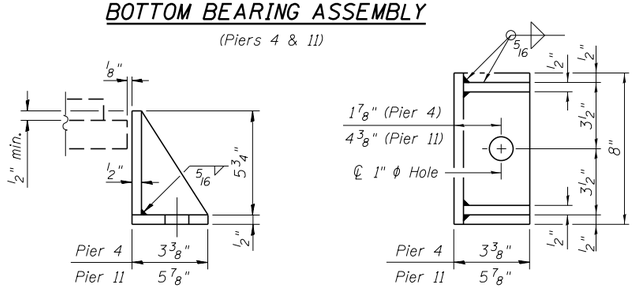
(Pier 4 only)



*1/8" PTFE dimpled, unlubricated

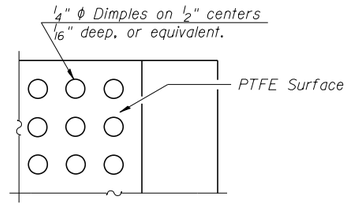
BOTTOM BEARING ASSEMBLY

(Piers 4 & 11)

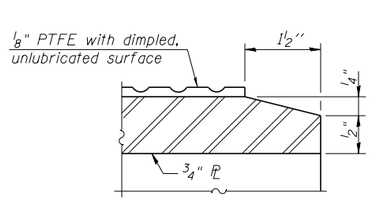


SIDE RETAINER

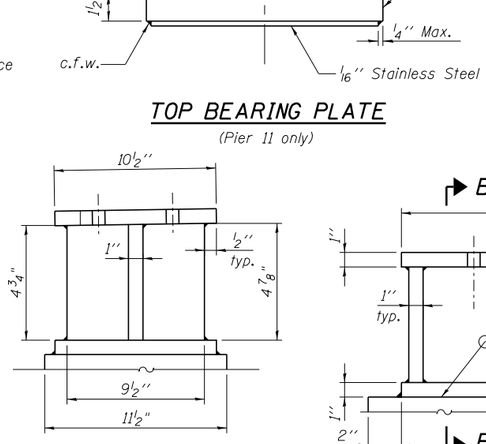
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



PLAN-PTFE SURFACE



SECTION THRU PTFE



SECTION B-B

Pier 4 6" ℄ Top Brg.
Pier 11 5 1/2"
D
℄ Bott. Brg.

BELOW 50°F.

(Move bott. brg. away from fixed brg.)

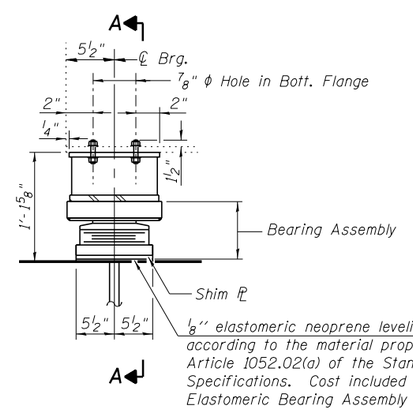
Pier 4 6" ℄ Top Brg.
Pier 11 5 1/2"
D
℄ Bott. Brg.

ABOVE 50°F.

(Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

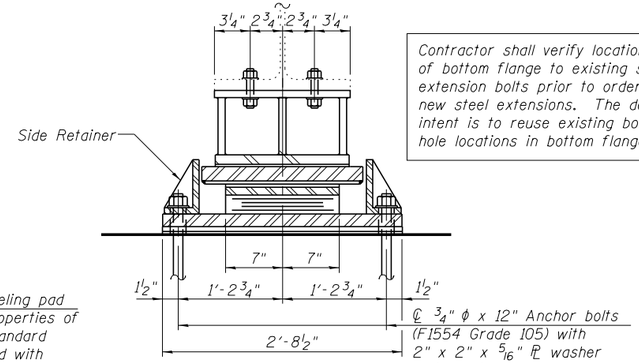
D=1/8" per each 100° of expansion for every 15° temp. change from the normal temp. of 50°F.



ELEVATION AT PIER 11

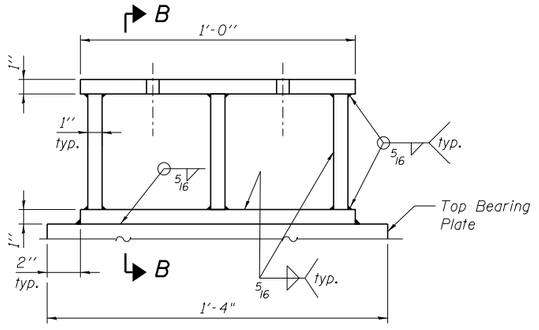
TYPE II ELASTOMERIC EXP. BRG.

(7 required)



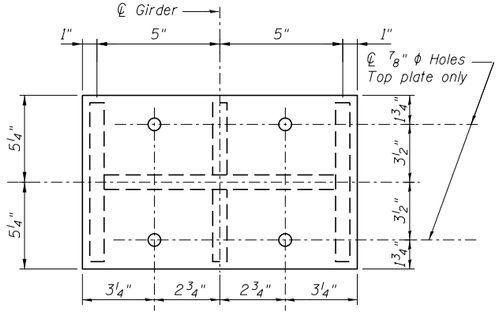
SECTION A-A

Contractor shall verify location of bottom flange to existing steel extension bolts prior to ordering new steel extensions. The design intent is to reuse existing bolt hole locations in bottom flange.



ELEVATION STEEL EXTENSION

(Weight included with Furnishing and Erecting Structural Steel.)



PLAN STEEL EXTENSION

Prior to ordering any material, Contractor shall verify in the field all bearing height and shim thickness dimensions.

Notes:

Two 1/8" 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 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 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.

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

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	9
Anchor Bolts, 3/4"	Each	18

benesch
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Chicago, Illinois 60601
312-565-0450
Job No. 10093

I-2E-2 1-27-12

FILE NAME = 0162457_60J16_069_Bearing_Dtls.dgn	USER NAME = ksnider	DESIGNED - AAY	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - RMG	REVISED -
	PLOT DATE = 12/20/2013	CHECKED - AJK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS 1 OF 2
STRUCTURE NO. 016-2457
SHEET NO. SD69 OF SD83 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
372	2013-038B-R	COOK	821	444
		CONTRACT NO. 60J16		
	ILLINOIS FED. AID PROJECT			

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