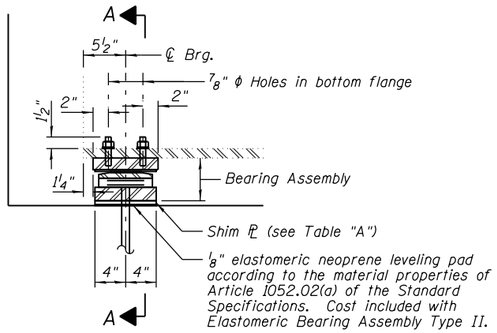
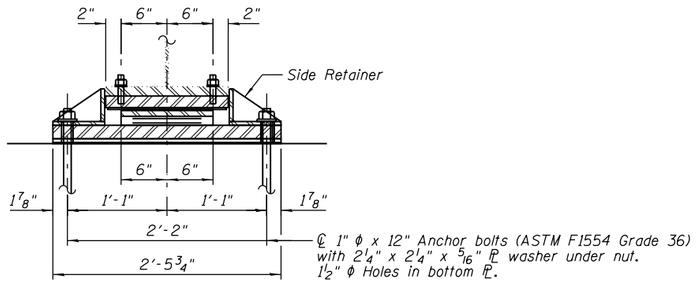
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

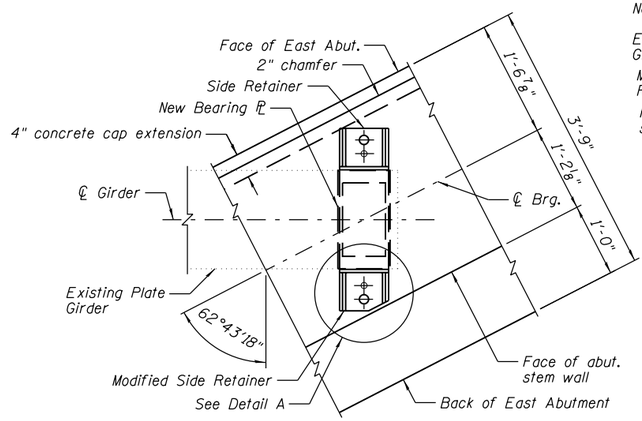


ELEVATION AT EAST ABUT.

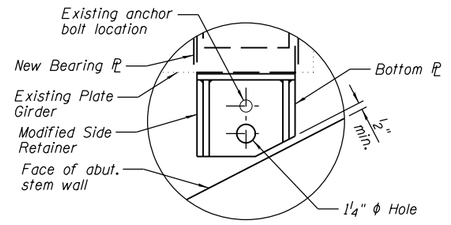


SECTION A-A

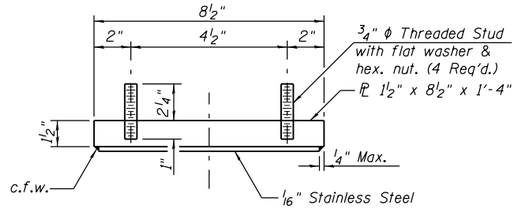
TYPE II ELASTOMERIC EXP. BRG.
(At East Abutment - 6 Required)



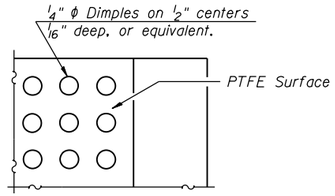
BEARING PLAN AT EAST ABUTMENT



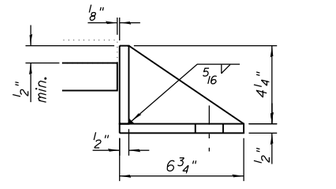
DETAIL A

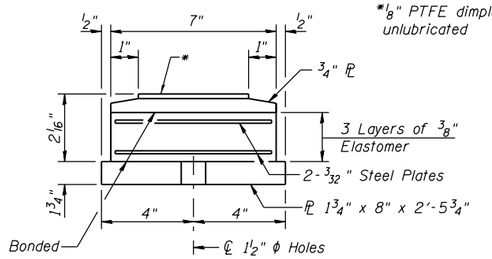


TOP BEARING ASSEMBLY

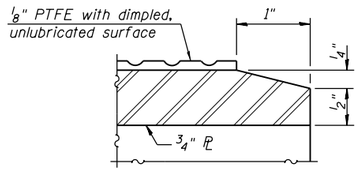


PLAN-PTFE SURFACE



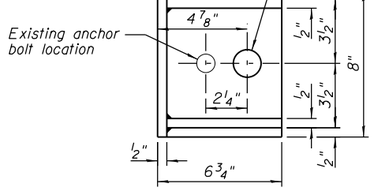


*1/8" PTFE dimpled, unlubricated



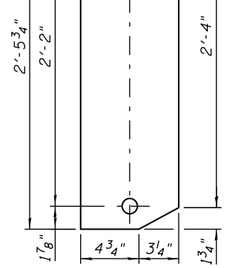
BOTTOM BEARING ASSEMBLY

SECTION THRU PTFE

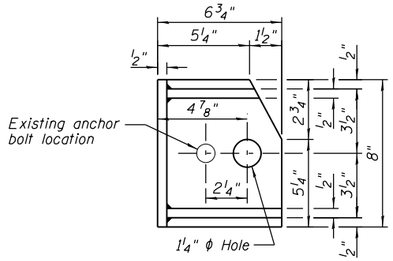


SIDE RETAINER

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

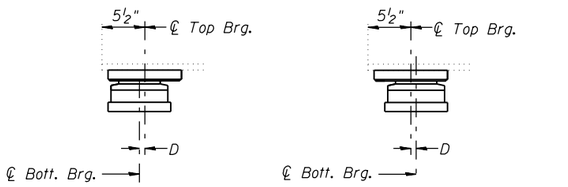


BOTTOM PLATE PLAN



MODIFIED SIDE RETAINER

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



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 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.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	6
Anchor Bolts, 1"	Each	12

TABLE "A"

Girder No.	Shim Thickness
6	1/2"

NOTE:

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.

TYPE II ELASTOMERIC BEARING DETAILS
STRUCTURE NO. 084-0078

DESIGNED	JML
CHECKED	MSW
DRAWN	DJM
CHECKED	MGO/MSW
DATE	08/09/10

SHEET NO. B27	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42 SHEETS	72	(84-3HB-5)BR	SANGAMON	84	63
	SN 084-0078		CONTRACT NO. 72C70		
	FED. ROAD DIST. NO. 6	ILLINOIS	FED. AID PROJECT		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX

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