

TYPE II TFE ELASTOMERIC EXP. BRG.

BEAM REACTIONS

R₽	(K)	28.3
R4	(K)	<i>34.</i> 5
Imp.	(K)	9.1
R (Total)	(K)	71.9

Diaphragm removal and reinstallation may be required to

facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.

Prior to ordering any material, the Contractor shall verify

in the field all bearing height and shim thickness dimensions.

Min. jack capacity = 40 Tons.

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 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.

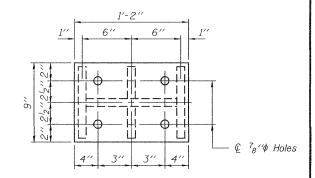
Anchor bolts for Type II bearings shall be placed in holes drilled through the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed,

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications. Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.

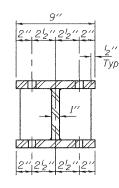
The 18" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

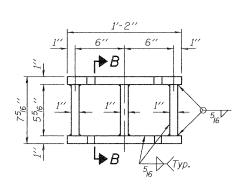
Bonding of ^lg'' PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

€ Bott. Brg. -



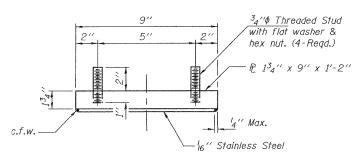
PLAN TOP AND BOTTOM PLATE

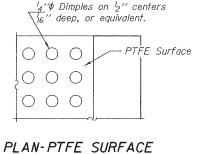


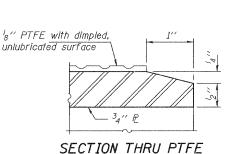


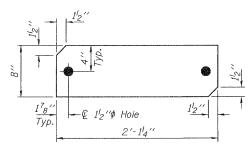
SECTION B-B

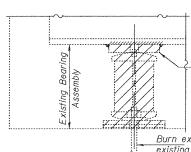
STEEL EXTENSION DETAIL











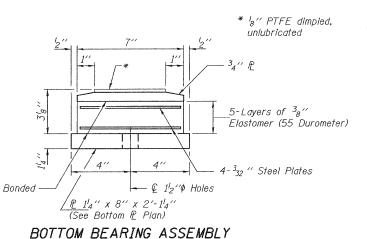
and grind smooth all weld material remaining on the bottom flange.

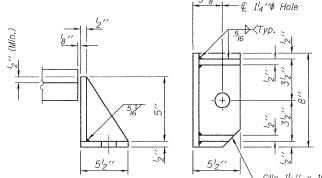
Existing 12 to be removed

using the air-arc method

Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy.

TOP BEARING ASSEMBLY





will be allowed in lieu of welded plates.

Clip 1'2" x 1'2" Typ.SIDE RETAINER

Equivalent rolled angle with stiffeners

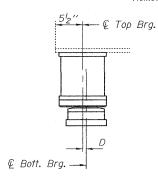
BOTTOM & PLAN

P 14" x 8" x 2'-14' (6 Required)

5½″|-- € Top Brg.

EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.



BELOW 50° F. <u>ABOVE 50° F.</u> (Move bott. brg. away from fixed brg.) (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

 $D = {}^{l}g''$ 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	6
Jack and Remove Existing Bearings	Each	6
Furnishing and Erecting Structural Steel	Pound	770
Anchor Bolts 1′′¢	Each	12

TYII/RFPS

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DESIGNED	-	ADY		EXAMINED	Jayme + Jeff	DATE	-	MARCH 14, 2011	Γ
CHECKED	-	DAB			ACTING ENGINEER OF STRUCTURAL SERVICES				l
DRAWN	-	Kyle M.	. Steffen	PASSED	A Carl Propey				ı
CHECKED	-	ADY	DAB		ACTING ENGINEER OF BRIDGES AND STRUCTURES				

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** BEARING REPLACEMENT DETAILS AT EAST ABUTMENT SN 080-0005 SHEET NO. 2 OF 2 SHEETS

	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO. 44	
	99	(5-2VB-1, 5-2HB,	RICHLAND	53		
_		5-2VB-2)BR-2	CONTRACT	NO. 7	4482	
		ILLINOIS FED. A	ID PROJECT			