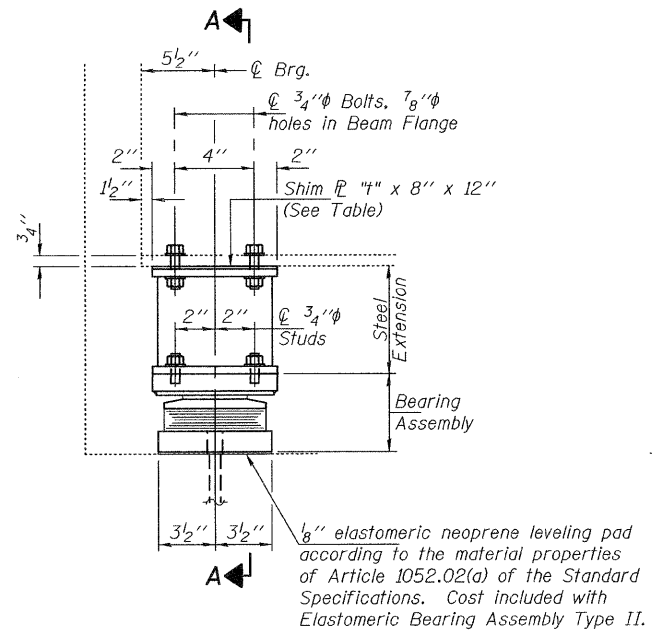


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

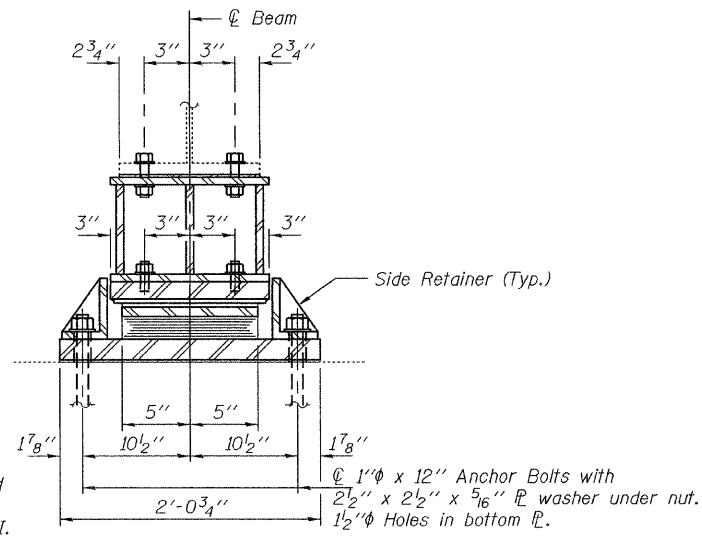
BEAM REACTIONS

RP	(K)	10.4
SP	(K)	3.8
RL	(K)	33.3
Imp.	(K)	10.0
R (Total)	(K)	57.5

Notes:
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 = 30 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 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 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 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.

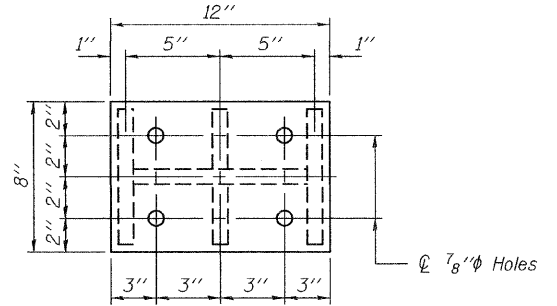


ELEVATION AT ABUTMENT

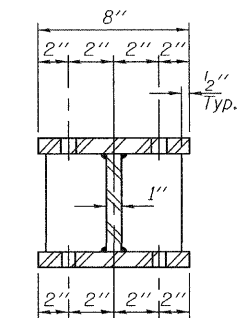


SECTION A-A

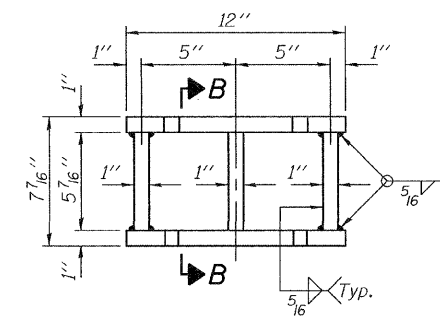
TYPE II TFE ELASTOMERIC EXP. BRG.



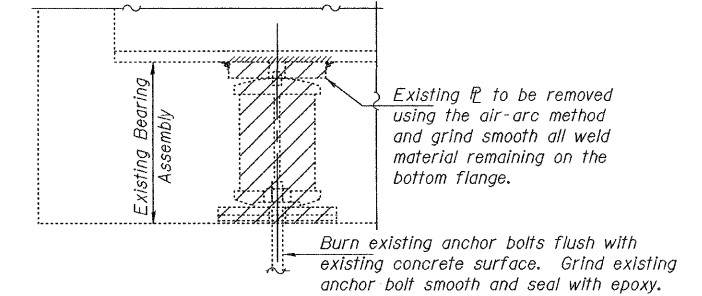
PLAN TOP AND BOTTOM PLATE



SECTION B-B

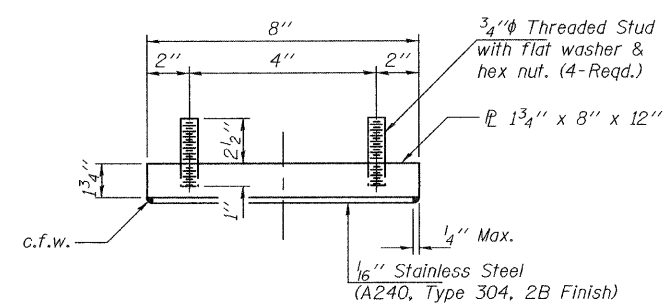


STEEL EXTENSION DETAIL

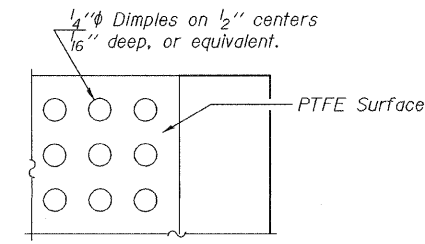


EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.



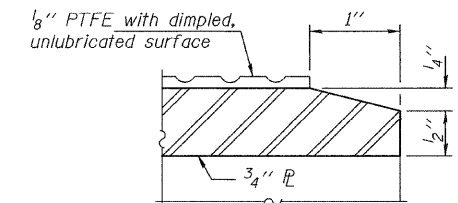
TOP BEARING ASSEMBLY



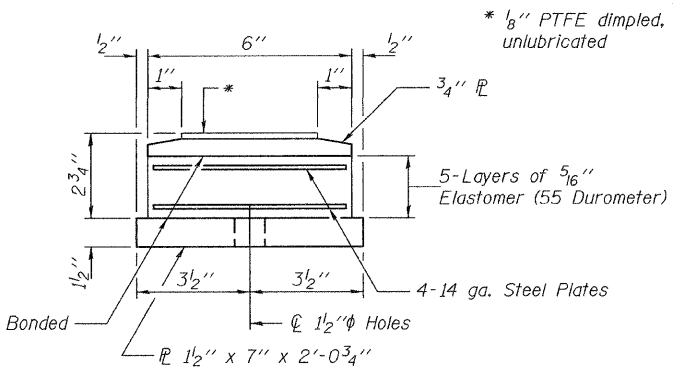
PLAN-PTFE SURFACE

SHIM PLATES

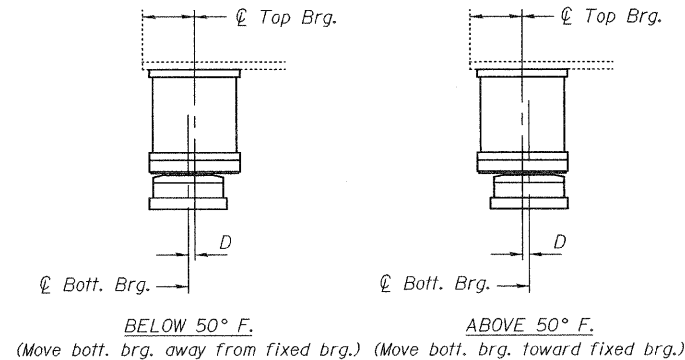
Abut.	Beam	4"
South	4, 5, 6	5/8"
North	4	3/8"
North	5	1/8"



SECTION THRU PTFE

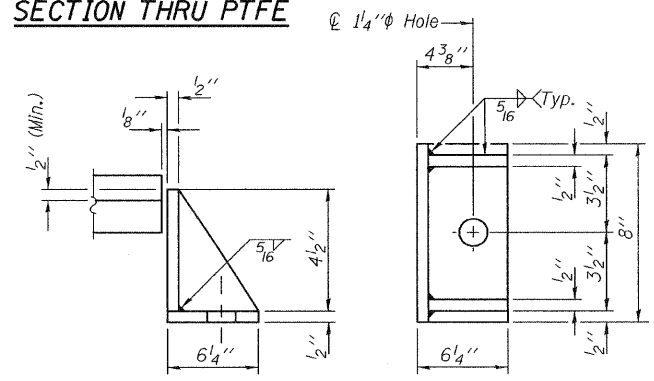


BOTTOM BEARING ASSEMBLY



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.



SIDE RETAINER

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

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	18
Jack and Remove Existing Bearings	Each	18
Furnishing and Erecting Structural Steel	Pound	1920
Anchor Bolts, 1"φ	Each	36

BEARING REPLACEMENT DETAILS

IL ROUTE 130
SN 018-0025

DESIGNED	VHV
CHECKED	AJB
DRAWN	Kyle M. Steffen
CHECKED	VHV AJB

APRIL 30, 2010
EXAMINED *A. Carl P... ENGINEER OF STRUCTURAL SERVICES*
PASSED *Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES*

SHEET NO. 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	116	(18-47HB-1)BR	CUMBERLAND	28	23
2 SHEETS	CONTRACT NO. 74346		ILLINOIS FED. AID PROJECT		