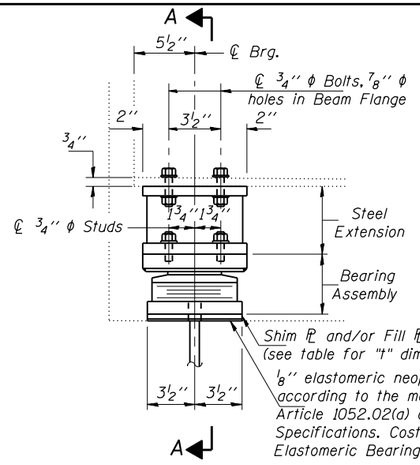
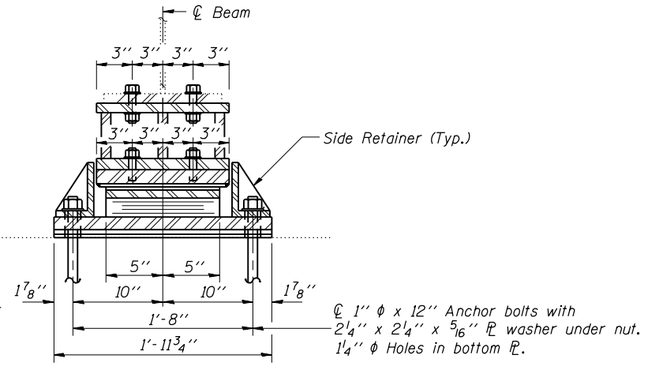
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

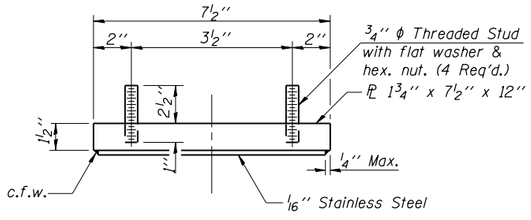


ELEVATION AT WEST ABUT.

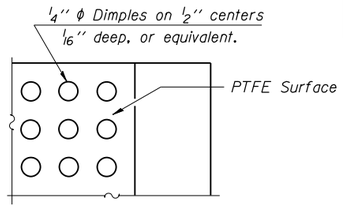


SECTION A-A

TYPE II ELASTOMERIC EXP. BRG.



TOP BEARING ASSEMBLY



PLAN-PTFE SURFACE

FILL PL "t" DIMENSIONS

LOCATION	"t"
Beam 1, 3, 4, & 6	1¼''
Beam 2 & 5	1½''
Beam 1A & 6A	NA

GIRDER REACTIONS

RPL	(K)	14.6
RL	(K)	30.7
Imp.	(K)	9.1
R (Total)	(K)	54.4

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 ⅛'' 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 ⅛'' PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

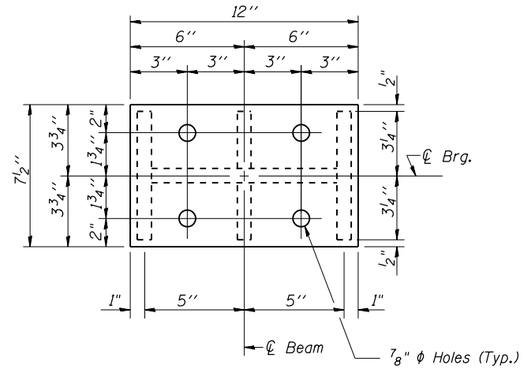
The minimum jack capacity required is 35 Tons.

Existing diaphragm removal and reinstallation may be required to facilitate drilling holes, cost to be included with "Jack and Remove Existing Bearings".

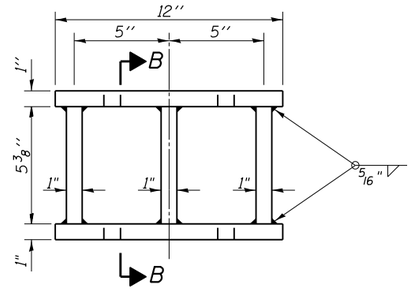
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

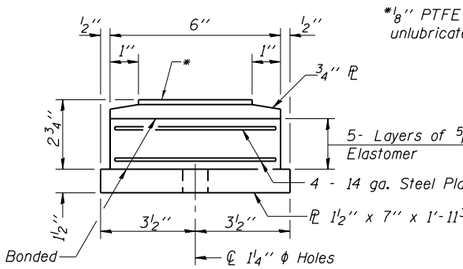
New steel extensions, connection bolts, Fill PL's and Shim PL's are included in "Furnishing and Erecting Structural Steel".



PLAN-TOP & BOTTOM PLATE

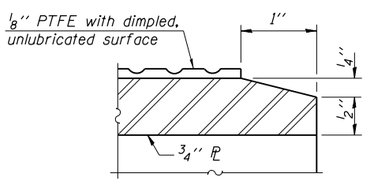


STEEL EXTENSION DETAIL

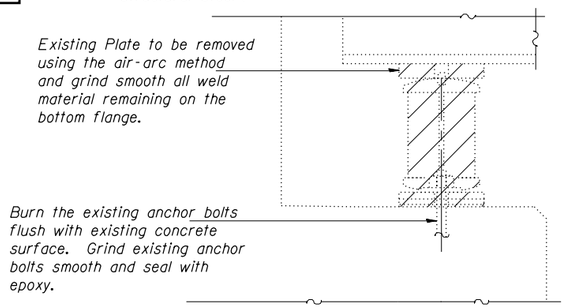


*⅛'' PTFE dimpled, unlubricated

BOTTOM BEARING ASSEMBLY



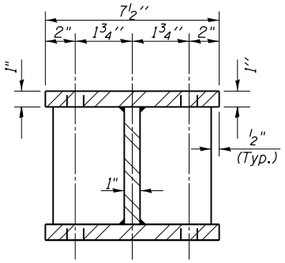
SECTION THRU PTFE



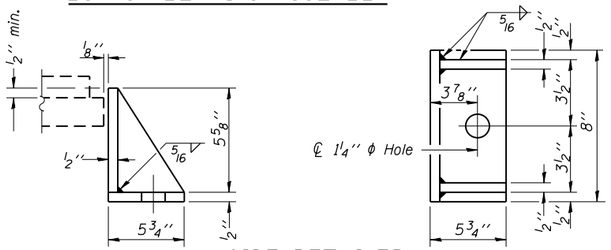
ABUTS

EXISTING BEARING REMOVAL DETAIL

Cost is included with Jack and Remove Existing Bearings

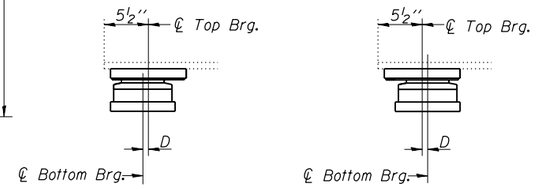


SECTION B-B



SIDE RETAINER

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



BELOW 50°F. (Move bottom. brg. away from fixed brg.)

ABOVE 50°F. (Move bottom. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D=⅛'' 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	8
Anchor Bolts, 1''	Each	16
Jack and Remove Existing Bearings	Each	8
Furnishing and Erecting Structural Steel	Pound	1300

WEST ABUTMENT
BEARING DETAILS
STRUCTURE NO. 041-0026

*D9 CM BRIDGE REPAIR 2015-2

FILE NAME =	USER NAME =	DESIGNED - TWH	REVISED -
		CHECKED - MAS	REVISED -
	PLOT SCALE =	DRAWN - TWH	REVISED -
	PLOT DATE =	CHECKED - MAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
BEARING DETAILS
SHEET NO. 6 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	•	JEFFERSON	12	10
		CONTRACT NO. 78432		
	ILLINOIS FED. AID PROJECT			