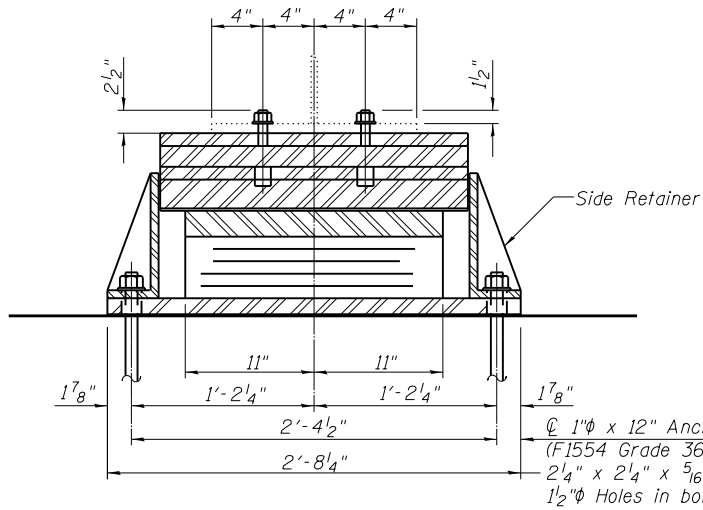
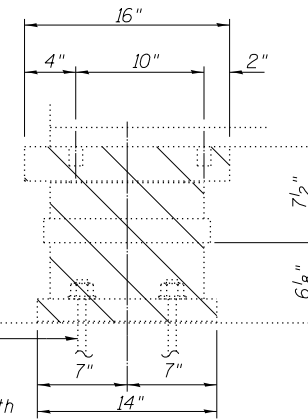


ELEVATION AT SOUTH ABUT.

TYPE II ELASTOMERIC EXP. BRG.

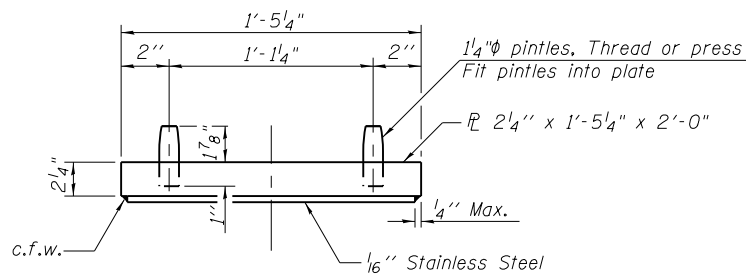


SECTION A-A

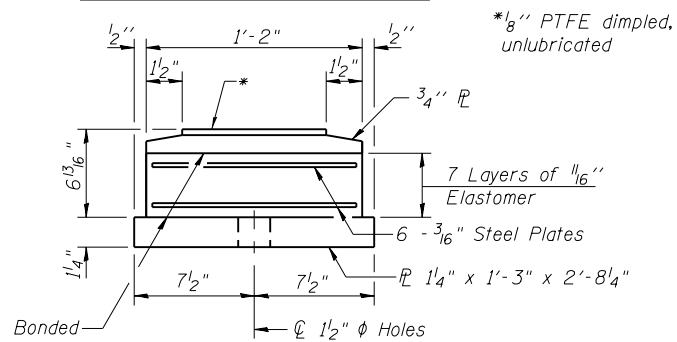


EXISTING BEARING REMOVAL DETAIL

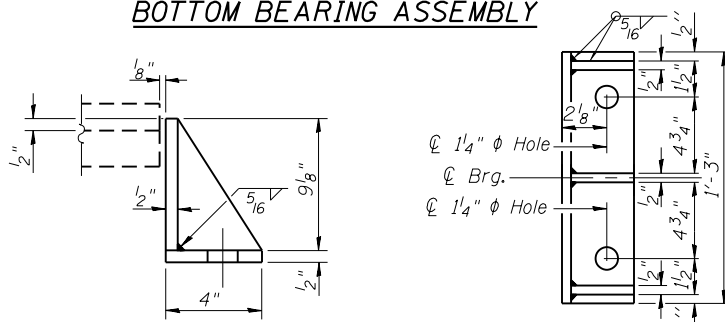
Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy.



TOP BEARING ASSEMBLY

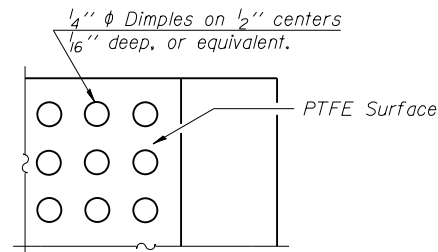


BOTTOM BEARING ASSEMBLY

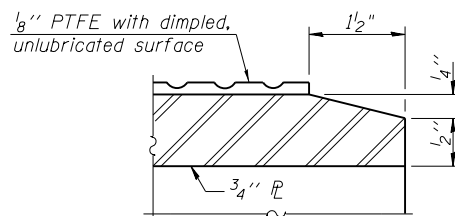


SIDE RETAINER

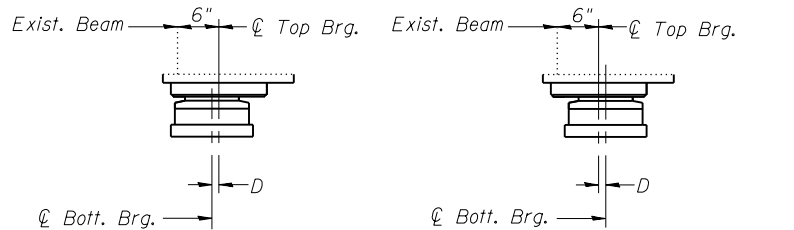
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



PLAN-PTFE SURFACE



SECTION THRU PTFE



BELOW 50°F.

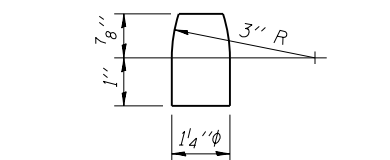
ABOVE 50°F.

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

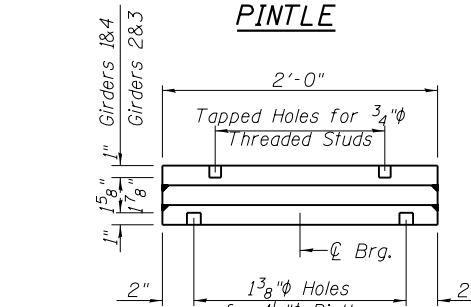
(Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

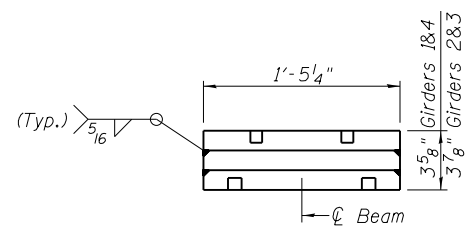
D = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.



PINTLE



ELEVATION STEEL EXTENSION



END VIEW STEEL EXTENSION

PROCEDURE FOR JACKING AND REMOVING EXISTING BEARINGS (At Abutments)

- The Contractor shall submit, for approval by the Engineer, plans for jacking and removing the existing bearings at the abutments prior to commencing any work at the abutment bearings.
- In each stage, jacking and removal of existing bearings shall be done after the existing deck is removed and before new deck is poured.
- The new bearings and steel extensions shall be in place and the jacks lowered prior to pouring the new concrete deck in each stage. See Special Provision for Jack and Remove Existing Bearings.

Notes:

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.

Steel extensions, shims and bolts shall be included in the cost of Furnishing & Erecting Structural Steel.

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.

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.

See Sheets 19 and 20 of 34 for minimum jack capacity. Cost of field drilling included with Furnishing and Erecting Structural Steel.

Fill the unused existing lower flange bolt holes with silicone sealant suitable for structural steel. Cost included with Jack and Remove Existing Bearings.

Note:

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

Jacking Loads per Girder	ABUT.
R Q Steel Only	(K) 21
Min. Jack Capacity, Steel Only	(K) 42

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	4
Anchor Bolts, 1"	Each	16
Furnishing & Erecting Structural Steel	Pound	1,953
Jack and Remove Existing Bearings	Each	4

BLANK, WESSELINK, COOK & ASSOCIATES

DECATUR, ILLINOIS

ENGINEERS - CONSULTANTS

DESIGN FIRM NO. 184000894

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT BEARING DETAILS
STRUCTURE NO. 058-0010

SHEET NO. 20 OF 34 SHEETS

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
710	(48X-B-2)BR & (48BR)BR	MACON	144	97
CONTRACT NO. 74438				

ILLINOIS FED. AID PROJECT

FILE NAME =	USER NAME =	DESIGNED	REVISIONS
		PBB	-
		MCB	-
		MLO	-
		PBB/MCB	-