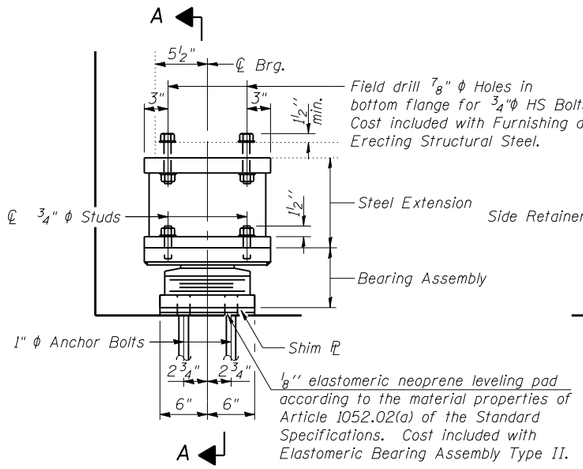
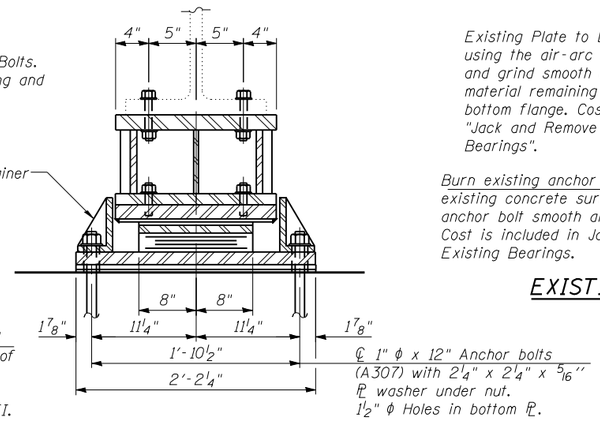
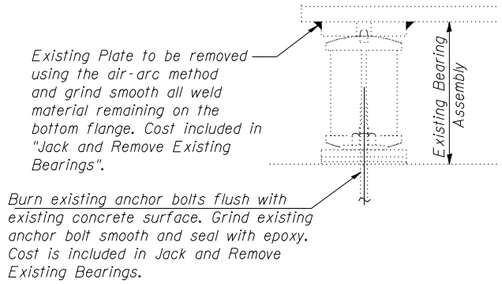


ELEVATION AT S. ABUT.



SECTION A-S



EXISTING BEARING REMOVAL DETAIL

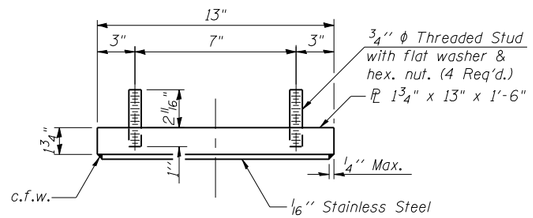
At South Abutment

PROCEDURE FOR JACKING AND REMOVING EXISTING BEARINGS

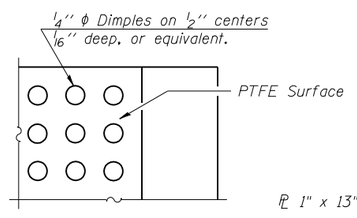
(At Abutments)

1. 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.
2. In each stage, jacking and removal of existing bearings shall be done after the existing deck is removed and before new deck is poured.
3. The minimun jack capacity is 9 ton per girder.
4. 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.

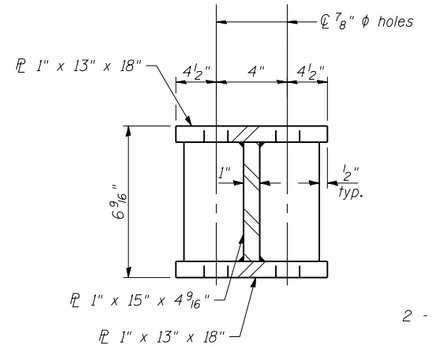
TYPE II ELASTOMERIC EXP. BRG.



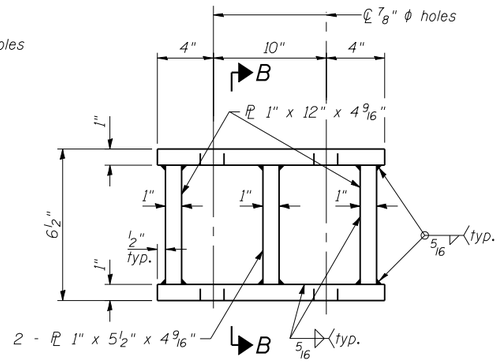
TOP BEARING ASSEMBLY



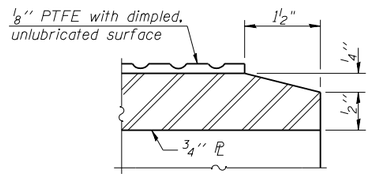
PLAN-PTFE SURFACE



SECTION B-B

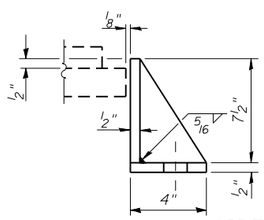


ELEVATION FABRICATED STEEL EXTENSION



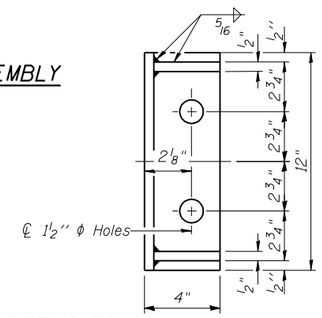
SECTION THRU PTFE

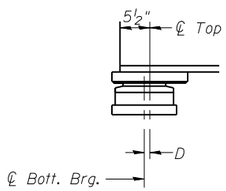
BOTTOM BEARING ASSEMBLY



SIDE RETAINER

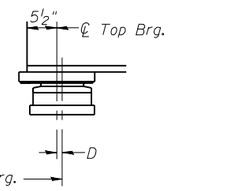
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.





BELOW 50°F.

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

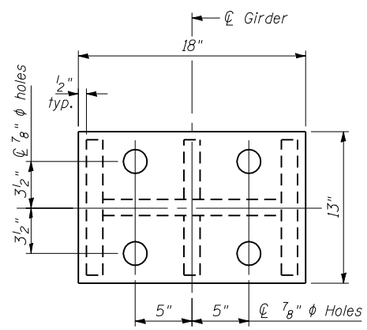


ABOVE 50°F.

(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.



PLAN FABRICATED STEEL EXTENSION

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.

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.

Prior to ordering any material for extensions, the Contractor shall verify in the field all bearing height dimensions.

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.

BILL OF MATERIAL

	Item	Unit	Total
	Elastomeric Bearing Assembly Type II	Each	12
	Anchor Bolts, 1"	Each	48
***	Furnishing and Erecting Structural Steel	Pound	2562
	Jack and Remove Existing Bearings	Each	12

***Fabricated Steel Extensions

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

I-2E-2

7-1-10

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CB PROJECT NO. 10007-3	PLOT DATE = 3/18/2013	DRAWN - CFC	REVISED -
		CHECKED - RKM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS SOUTH ABUTMENT
STRUCTURE NO. 054-0063 (N.B.) & 054-0064 (S.B.)

SHEET NO. 23 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	D6 LOGAN CO BR 2011-1	LOGAN	429	308
		CONTRACT NO. 72E11		
	ILLINOIS FED. AID PROJECT			