

with flat washer & hex. nut. (4-Regd.)

1¹2" x 1'-1" x 1'-4"

g" PTFE Surface _13₄" φ Hole

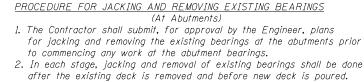
' deep, or equivalent $1_4'' \phi$ Shear Restrictor Pin, AISI 4340, Press fit pin in bottom P. (Full depth)

42" 42" Existing 18

—Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy. Cost is included with "Jack and Remove Existing Bearings".

EXISTING BEARING REMOVAL DETAIL

—— € Beam



3. The minimum jack capacity is 10 tons 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.

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

The $^{l}_{8}{}^{\prime\prime}$ 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 $^{l}_{8}^{\prime\prime\prime}$ PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

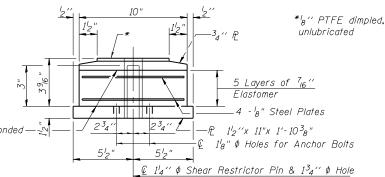
Two $^{l}_{8}$ in, adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

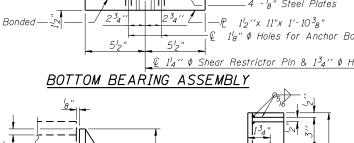
Cost of field drilling included with Furnishing and Erecting Structural Steel.

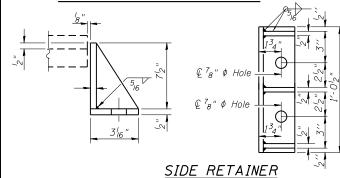
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness

s'' Stainless Steel

TOP BEARING ASSEMBLY

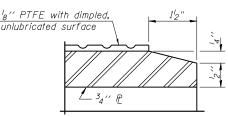




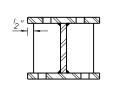


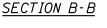
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

PLAN-PTFE ELASTOMERIC BRG.











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

(Move bottom brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

 $D=\frac{1}{8}$ " per each 100' of expansion for every 15° temp. change from the normal temp. of 50° F.

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BLANK,	WESSELINK	COOK	& ASSOCIAT	ES	DECATUR, ILLINOIS	ENGINEERS - CONSULTANTS	DESIGN FIRM NO. 184000894	
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				CHECKED	MCB	REVISED -	STATE	
		PLOT SCALE =		DRAWN	MLO	REVISED -	DEPARTMENT (
		PLOT DATE =		CHECKED	PBB/MCB	REVISED -		

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** **SOUTH ABUTMENT BEARING DETAILS STRUCTURE NO. 058-0049**

SECTION COUNTY 710 (48X-B-2)BR & (48BR)BR MACON 144 56 CONTRACT NO. 74438 SHEET NO. 18 OF 39 SHEETS

€ 116"\$ Holes -

ELEVATION STEEL EXTENSION

PLAN STEEL EXTENSION

*Field Drill

Jacking Loads per Girder		Abut.
R D Steel Only	(K)	10
Min. Jack Capacity, Steel Only	(K)	20

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type III	Each	5
Anchor Bolts, ⁵ 8"	Each	20
Furnishing and Erecting Structural Steel	Pound	1,308
Jack and Remove Existing Bearings	Each	5