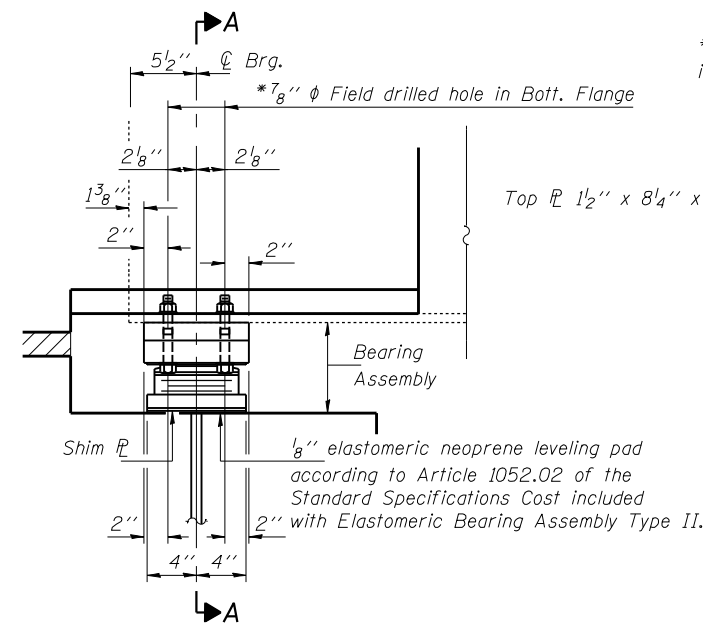


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

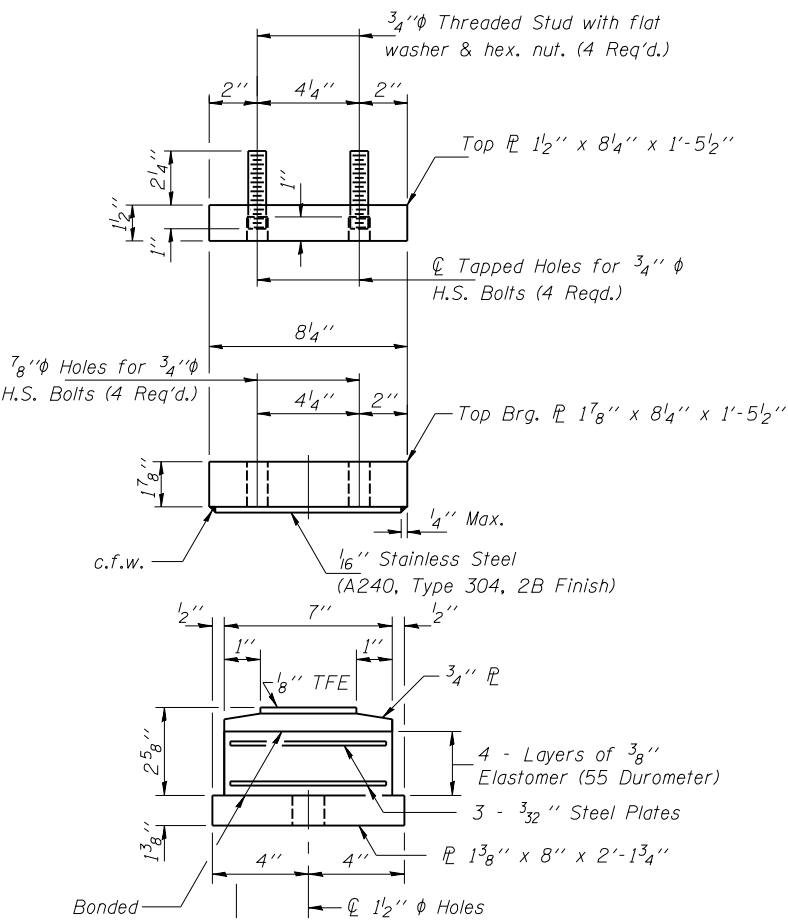
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 11
F.A.I. 55	(84-2B-1)I-1	SANGAMON	31	20	14 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #72349



**ELEVATION AT W. ABUTMENT**

**TYPE II ELASTOMERIC EXP. BRG.**

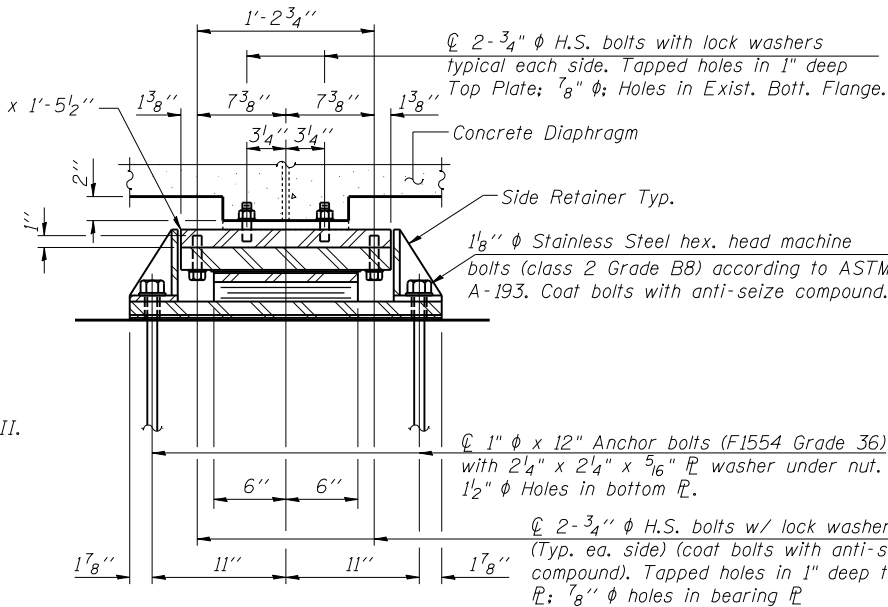


**BEARING ASSEMBLY**

DESIGNED Tom L. Kurtenbach  
CHECKED Philip E. Coppernoll  
DRAWN John F. Schneller Jr.  
CHECKED T.L.K. / P.E.C.

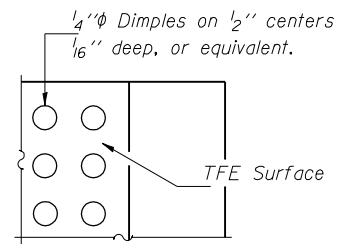
March 5, 2008  
EXAMINED Thomas J. Samagala  
ENGINEER OF BRIDGE DESIGN  
PASSED Ralph E. Anderson  
ENGINEER OF BRIDGES AND STRUCTURES

\* The cost of field drilling shall be included in concrete structures.

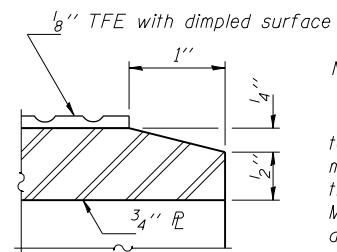


**SECTION A-A**

**PLAN-TFE SURFACE**



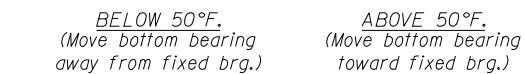
**SECTION THRU TFE**



Note:

The 1/8" TFE 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.

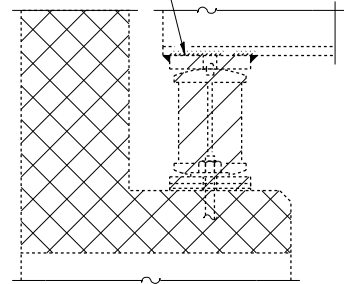
Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.



**SETTING ANCHOR BOLTS AT EXP. BRG.**

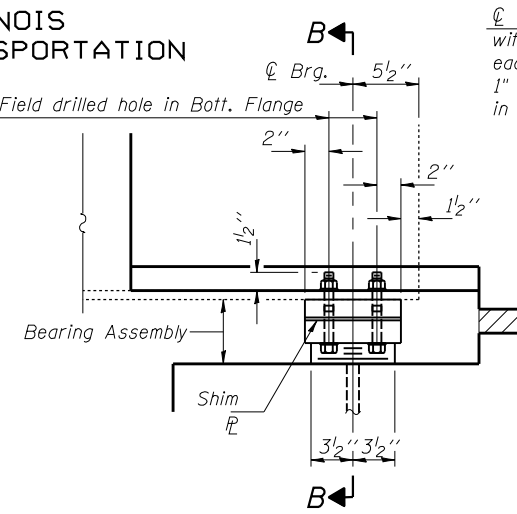
D = 1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

Existing Top Plates to be removed using air-arc method and grind smooth all weld material remaining on the bottom flange.



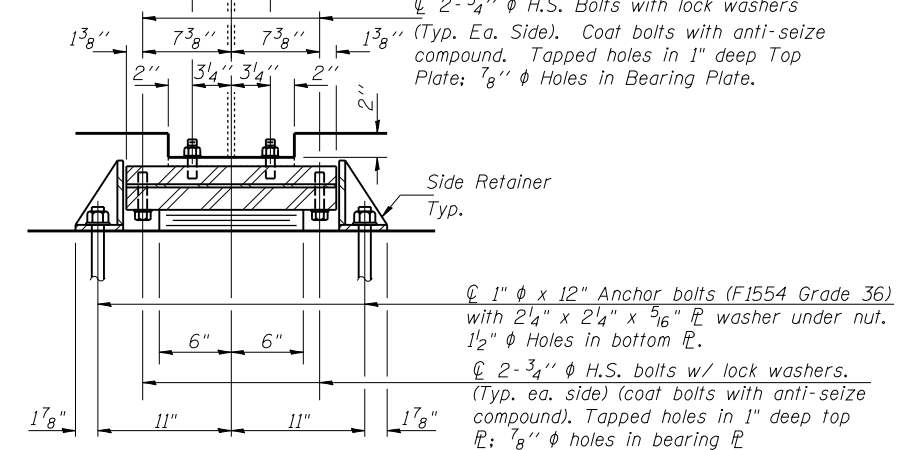
**EXISTING BEARING REMOVAL**

Indicates Bearing Removal  
Indicates Concrete Removal



**ELEVATION AT E. ABUTMENT**

φ 2-3/4" φ H.S. bolts with lock washers typical each side. Tapped holes in 1" deep Top P; 7/8" φ holes in Exist. Bottom Flange.



**SECTION B-B**

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 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, shims, and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly.

Two 1/8" in. adjusting shims shall be provided for each bearing in addition to all other plates and shims and placed as shown on bearing details. Cost included with Elastomeric Bearing Assembly.

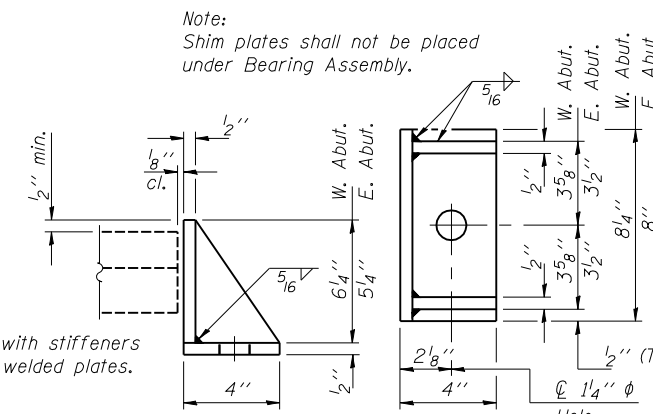
**JACKING AND REMOVE BEARINGS AT ABUTMENTS (BEAMS 1 THRU 5)**

- The Contractor shall submit for approval by the Engineer plans for jacking & cribbing prior to commencing any work at the bearings.
- Jacking and removing existing bearings shall be done after the deck removal is completed and before the new deck is poured.
- Jacking shall be limited to a maximum of 1/4" lift to remove the existing bearing assembly, utilizing a jack or series of jacks. The max. dead load reaction at each beam with the deck removed is 3.2k at abutments. The minimum jack capacity for each beam is 6.4k at Abutment.
- Reconstruct abutments as detailed on sheets 12-14.
- The new bearings, fill plates and shim plates shall be in place and the beams shall be lowered before the new concrete deck is placed.

**BILL OF MATERIAL**

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	5
Elastomeric Bearing Assembly Type II	Each	5
Anchor Bolts, 1" φ	Each	20

**ELASTOMERIC BEARING DETAILS**  
F.A.I. ROUTE 55 - SEC. (84-2B-1)I-1  
SANGAMON COUNTY  
STATION 36+16.64  
STRUCTURE NO. 084-0025



**SIDE RETAINER**