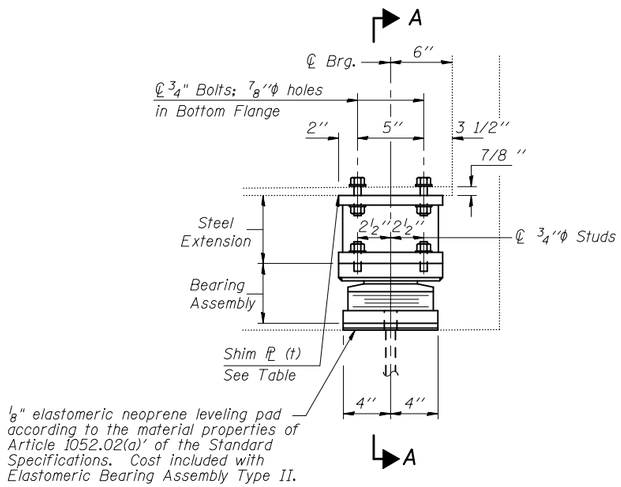
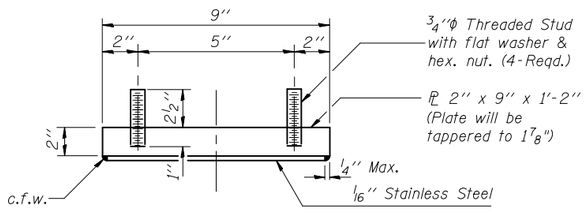
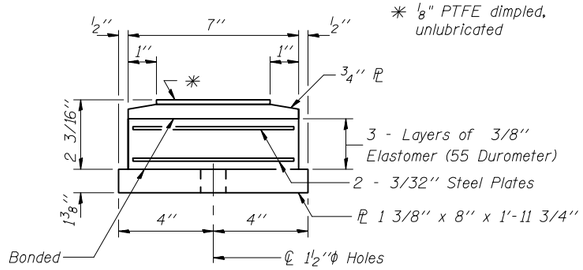


ELEVATION AT ABUTMENTS

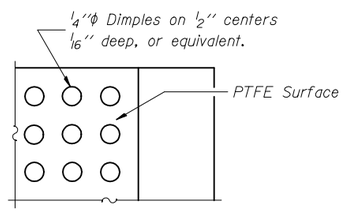
TYPE II TFE ELASTOMERIC EXP. BRG.



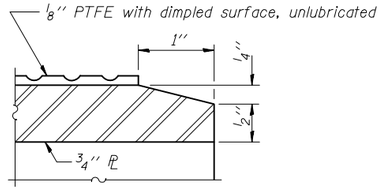
TOP BEARING ASSEMBLY



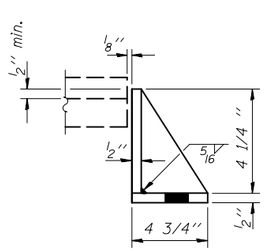
BOTTOM BEARING ASSEMBLY

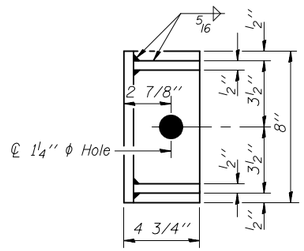


PLAN-PTFE SURFACE



SECTION THRU PTFE



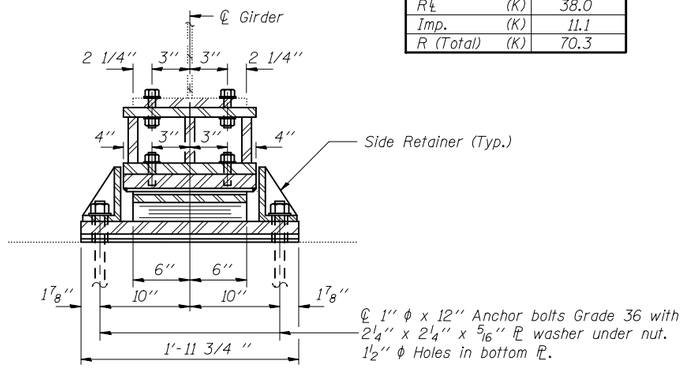


SIDE RETAINER

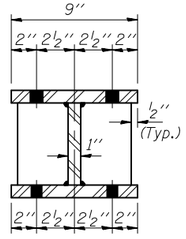
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

GIRDER REACTIONS

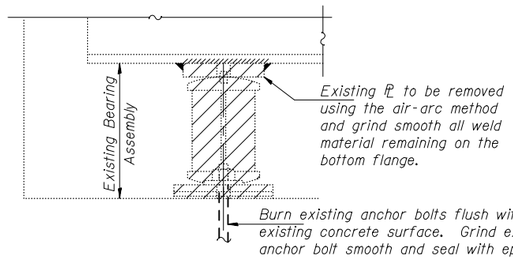
RP	(K)	21.2
RL	(K)	38.0
Imp.	(K)	11.1
R (Total)	(K)	70.3



SECTION A-A

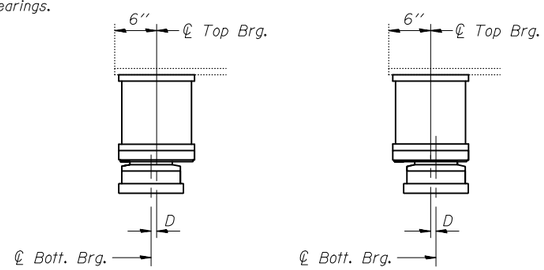


SECTION B-B



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.



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.

Notes: Diaphragm removal and replacement may be required to facilitate drilling holes. Cost shall be included in the cost of Furnishing and Erecting Structural Steel.

Steel extensions, shim PL's, and connection bolts are included in Furnishing and Erecting Structural Steel.

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

Min. jack capacity = 35 Tons.

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.

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 521.05 of the Standards Specifications.

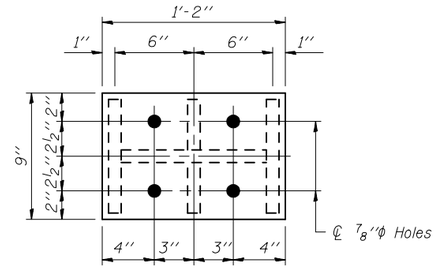
Side retainers shall be included in the cost of Elastomeric Bearing Assembly, Type II.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	MCLEAN	160	101
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	

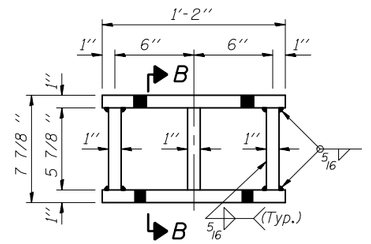
Sheet 2 of 4 Sheets

* 57-20(1) & (57-4,5,6)RS-3

CONTRACT NO. 70505



PLAN TOP AND BOTTOM PLATE



STEEL EXTENSION DETAIL

SHIM PLATES "t" DIMENSIONS

Beam #	3	5	12	14
W. Abuts.	-	11/16''	3/16''	11/16''
E. Abuts.	1/8''	3/4''	1/8''	3/4''

Note: There are existing lighting conduits along the south fascia beam of the Eastbound Structure and the north fascia beam of the Westbound Structure that will need to be temporarily relocated during bearing replacement. The cost of this relocation will be included in the cost of bearing replacement. Should the lighting system or conduit be damaged, it shall be repaired at the contractor's expense.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	36
Furnishing and Erecting Structural Steel	Pound	6800
Jack and Remove Existing Bearing	Each	36
Anchor Bolts, 1"	Each	72

DESIGNED	JDA
CHECKED	JKC
DRAWN	NET
CHECKED	JDA

BEARING DETAILS
F.A.I. ROUTE 74 OVER U.S. 51
SECTION 57-20(1) (57-4,5,6)RS-3
MCLEAN COUNTY
SN 057-0047 (EB)
SN 057-0048 (WB)
STA. 719+63.58