STATE OF ILLINOIS Brg. & Pier DEPARTMENT OF TRANSPORTATION $\underbrace{\mathbb{C}^3_{A}}^{"}$ ϕ Bolts with flat washer & hex nut (4 Req'd) $\underbrace{\mathbb{C}^7_{B}}^{"}$ ϕ Hole bottom flange. Match to exist, holes in bottom of exist, beam flange, V.I.F. dimension of exist. bolt holes -Steel Extension -Side Retainer Bearing Assembly

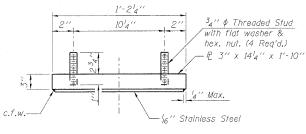
1'-1³4''

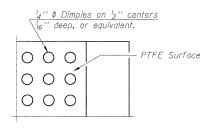
SECTION A-A

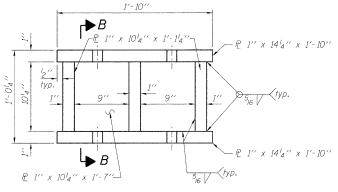
© ⁷8" ¢ holes_ Top & Bot.

PLAN STEEL EXTENSION

TYPE II ELASTOMERIC EXP. BRG.





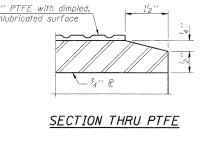


ELEVATION STEEL EXTENSION

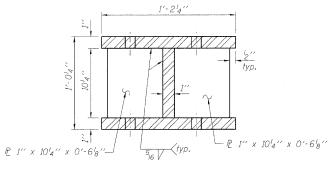
 $\times 2^{l_4}$ " $\times {}^{5_{l6}}$ " l_2 washer under nut.

(Grade 36) with 21/4'

 $1_4^{\prime\prime}$ ϕ Holes in bottom P_c .



PLAN-PTFE SURFACE



SECT B-B

► © Top Brg.

GIRDER REACTION TABLE

	Pier 10
Dead Load (K)	101.4
Live Load (K)	86.4
Impact (K)	12.1
Total (K)	199.9
Min. Jack Capactiy (Tons)	114

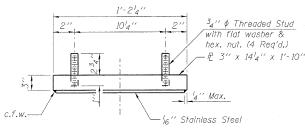
	Pier 10
Dead Load (K)	101.4
ive Load (K)	86.4
mpact (K)	12.1
otal (K)	199.9
Min. Jack Capactiy (Tons)	114

lg" elastomeric neoprene leveling pad according to the material properties of

Elastomeric Bearing Assembly Type II.

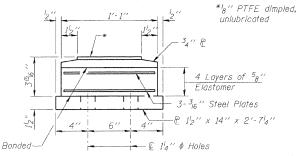
Article 1052.02(a) of the Standard

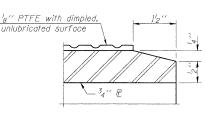
Specifications. Cost included with



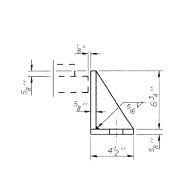
ELEVATION AT PIER 10

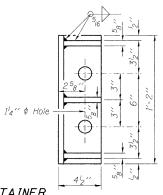
TOP BEARING ASSEMBLY





BOTTOM BEARING ASSEMBLY





Ala.	, oo , o				Ē
RETAINER					
lled angle with stiffeners		Ç	Bott.	Brg.	

		will be dilowed in fied of welded pidle
DESIGNED -	SLV	
CHECKED -	DJB	
DRAWN -	SLV	
<u> </u>		CONSULTING ENGINEERS
1		1560 WALL ST, SUITE 222
CHECKED -	DJB	NAPERVILLE, ILLINOIS 60563 PH: (630) 577-910

BELOW 50°F. ABOVE 50°F. (Move bott. brg. away from fixed brg.) (Move bott. brg. toward fixed brg.)

← © Top Brg.

SETTING ANCHOR BOLTS AT EXP. BRG.

€ Bott. Brg. ——

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

BILL OF MATERIAL

Exist. Plate to be removed using the air-arc method and grind smooth

all weld material remaining on the bottom flange. Cost included with Jack and Remove Existing Bearings.

Burn exist. Anchor Bolts flush with

exist concrete surface. Grind exist.

epoxy. Cost included with Jack and

anchor bolt smooth and seal with

Remove Existing Bearings

EXISTING BEARING REMOVAL DETAIL

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

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

Drilled and set anchor bolts shall be installed according to Article 521.06 of the

The 18" 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 'g" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

Jacking of beams shall be done under built up plate girder, rathen that WF beam.

Side retainers and other steel members required for the bearing assembly shall be

grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

included in the cost of Elastomeric Bearing Assembly, Type II.

Prior to ordering any material,

the Contractor shall verify in the

field all bearing height and shim

thickness dimensions.

shall be placed after bolts are installed.

Standard Specifications.

NOTES

VII. 10 10 10 10 10 10 10 10 10 10 10 10 10		
Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	5
Anchor Bolts, 1"	Each	20
Jack and Remove Existing Bearings	Each	5
Furnishing and Erecting Structural Steel	Pound	1728

BEARING DETAILS FOR PIER 10 STRUCTURE NO. 016-2406

SHEET NO.10	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SHEET NO. 10	330	462 X-B-I-1	COOK	41	26
OF 18 SHEETS		D-91-228-10	CONTRACT	NO. 60	J38
	FED. ROAD DIST. NO ILLINOIS FED. AID PROJECT				