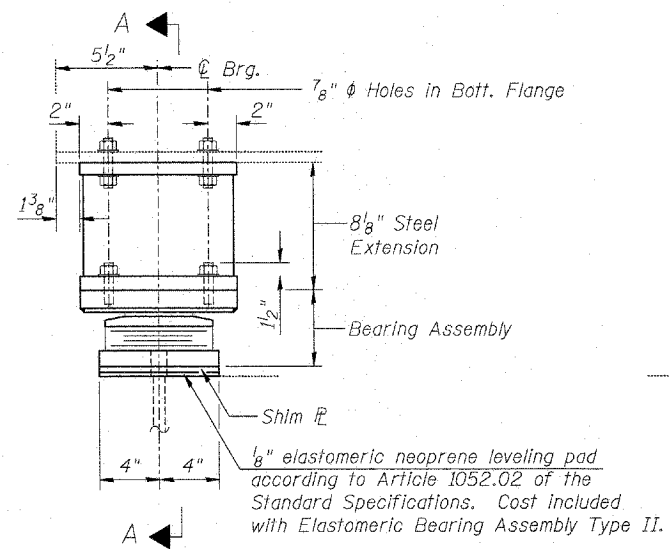


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 19
F.A.P. 301 (US 20)	(2HB-2D)	WINNEBAGO	107	41	43 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

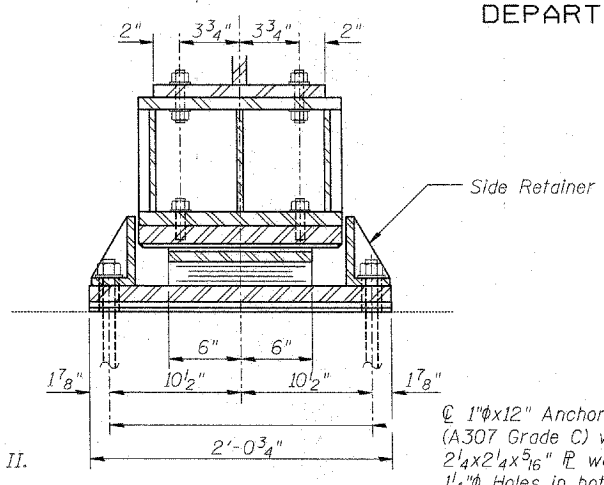
Contract #64B07



ELEVATION AT ABUT.

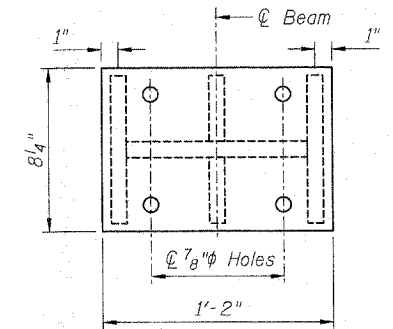
TYPE II ELASTOMERIC EXP. BRG.

East Abutments



SECTION A-A

1" x 12" Anchor bolts (A307 Grade C) with 2 1/4 x 2 1/4 x 5/16" washer under nut. 1 1/4" holes in bottom flange.



PLAN 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. 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 at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

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.

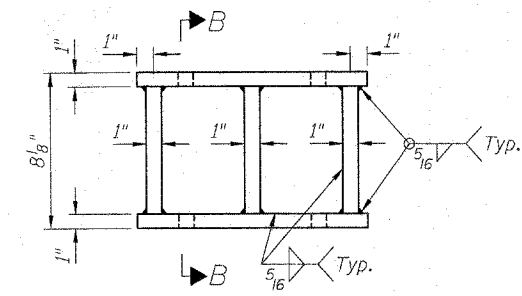
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers, steel extensions and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.

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. Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

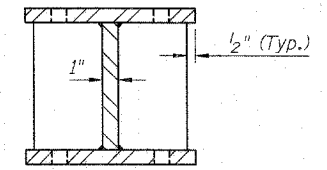
Bolt holes for the proposed bearing to be field drilled in the bottom flange of the existing beams using the proposed steel extension as the template. Cost included with Furnishing and Erecting Structural Steel.



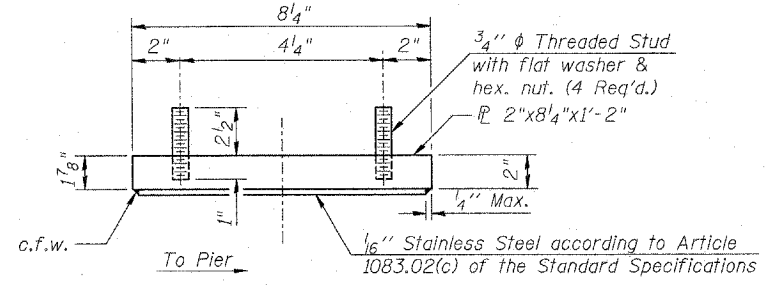
ELEVATION STEEL EXTENSION

Note:
Steel Extensions are to be used on bearings for Beams 2 thru 11 only. Beams 1 & 12 do not have extensions.

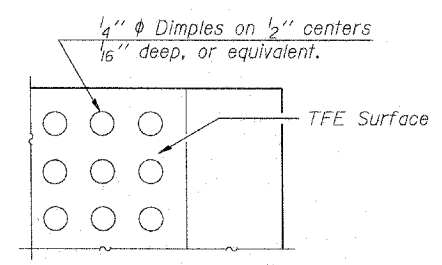
Note:
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.



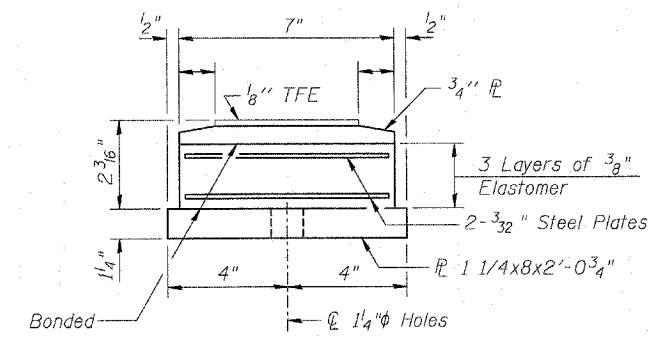
SECTION B-B



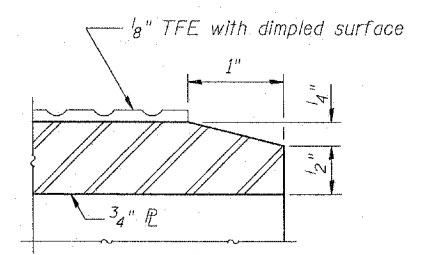
TOP BEARING ASSEMBLY



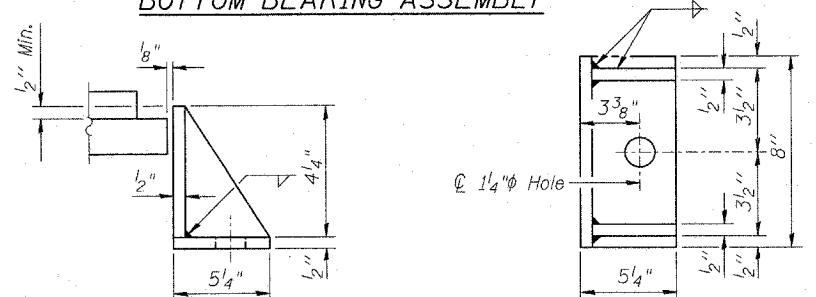
PLAN-TFE SURFACE



BOTTOM BEARING ASSEMBLY

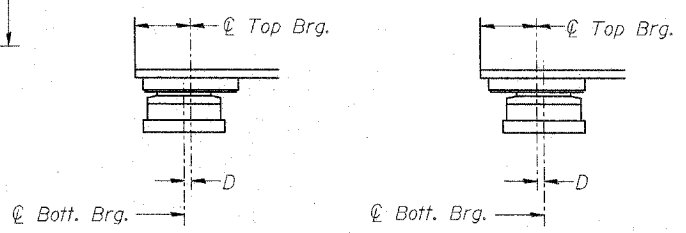


SECTION THRU TFE



SIDE RETAINER

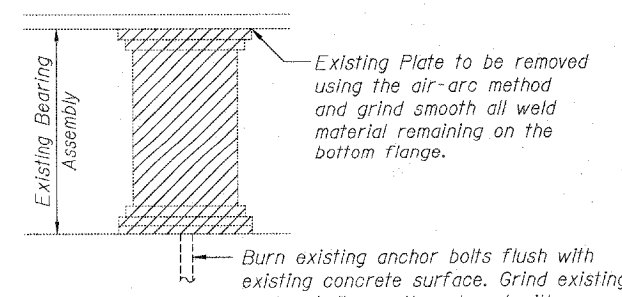
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



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.



EXISTING BEARING REMOVAL DETAIL

BILL OF MATERIAL

Item	Unit	Total
Jack & Remove Existing Bearings	Each	10
Elastomeric Bearing Assembly Type II	Each	12
Anchor Bolts, 1"	Each	24

ELASTOMERIC BEARING ASSEMBLY TYPE II
F.A.P. ROUTE 301 (US 20)
OVER PRAIRIE ROAD
SECTION (2HB-2D)
WINNEBAGO COUNTY
STATION 841+89.60

STRUCTURE NO. 101-0051 (W.B.)
STRUCTURE NO. 101-0052 (E.B.)

DESIGNED	LAS
CHECKED	DAZ
DRAWN	SAW
CHECKED	LAS

I-2-E2 11-1-06

Plans Prepared by: Zroka Engineering, P.C.