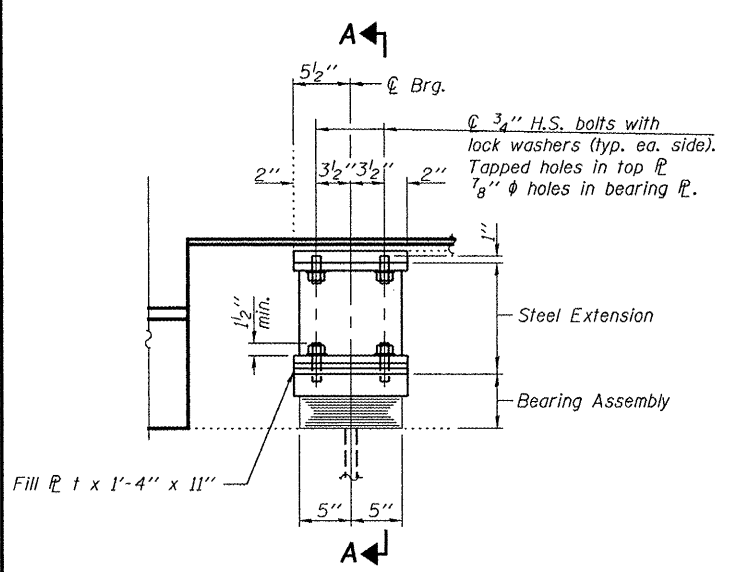


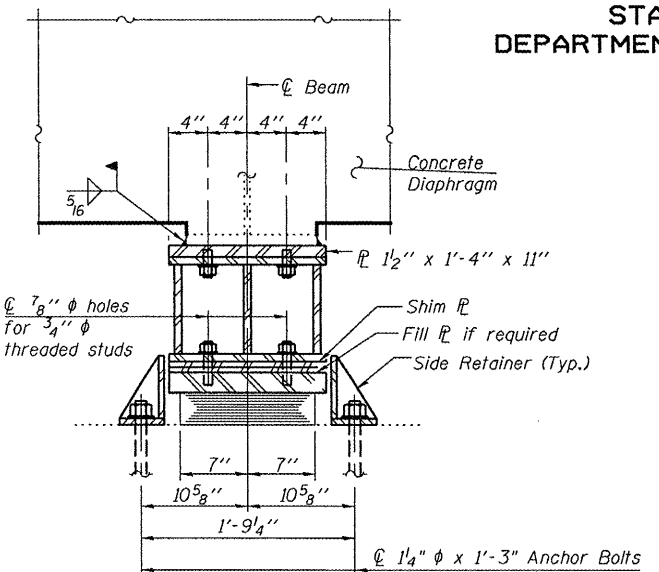
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
F.A.P. 313	(21-HB-11)	KNOX	55	43
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	35 SHEETS

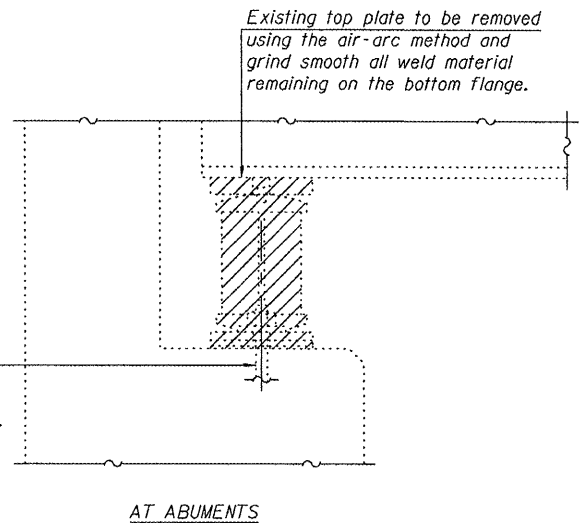
Contract #68216



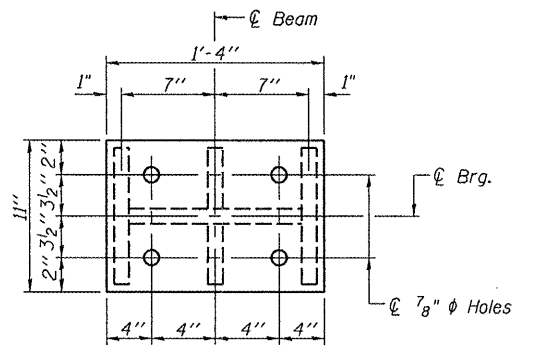
ELEVATION AT ABUTMENT
See Table for "H" dimensions



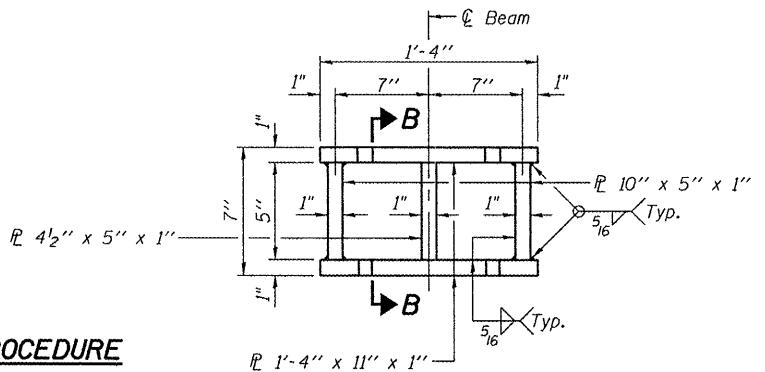
SECTION A-A
Fill 1' x 1'-4" x 11"
Shim 1/2" x 1'-4" x 11"
Fill if required
Side Retainer (Typ.)
1/4" x 1'-3" Anchor Bolts
ASTM F1554 Gr. 36 with
2 3/4" x 2 3/4" x 5/16" washer under nut.



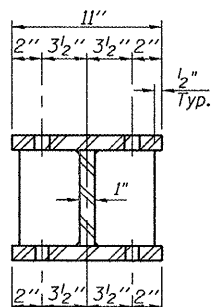
EXISTING BEARING REMOVAL
Existing top plate to be removed using the air-arc method and grind smooth all weld material remaining on the bottom flange.
Burn the existing anchor bolts flush with existing concrete surface. Grind existing anchor bolts smooth and seal with epoxy. Cost included with Jack and Remove Existing Bearings. Typ.



PLAN TOP AND BOTTOM PLATE



STEEL EXTENSION DETAIL



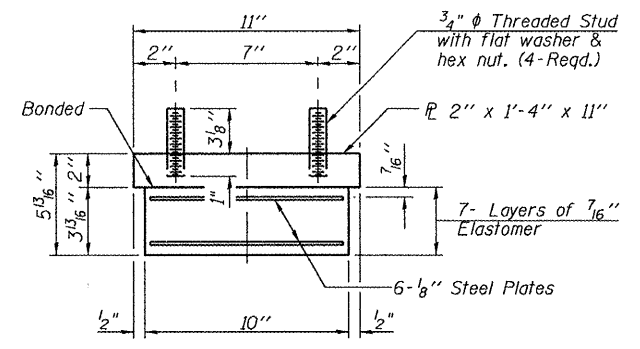
SECTION B-B

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	36
Jack and Remove Existing Bearings	Each	36
Anchor Bolts, 1"	Each	72

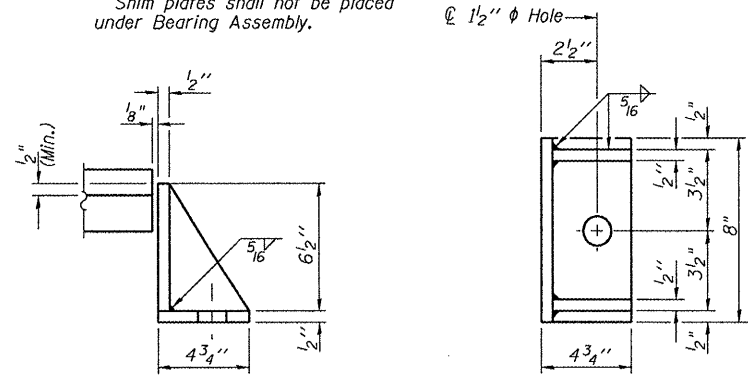
BEARING DETAILS
F.A.P. ROUTE 313 - SECTION (21-HB-11)
KNOX COUNTY
STA. 495+98.72
STRUCTURE NO. 048-0021
STRUCTURE NO. 048-0022

TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

Notes:
Shim plates shall not be placed under Bearing Assembly.



SIDE RETAINER

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

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 (F_y = 36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts for side retainers shall be installed in drilled holes.
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 bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.
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.

JACK AND REMOVE EXISTING BEARING PROCEDURE

(West and East Abutments)

- The Contractor shall submit for approval by the Engineer, plans for jacking existing beams and installing new bearings prior to commencing any related work.
- Jacking and removing existing bearings shall be done after existing concrete deck is removed and prior to pouring the concrete deck.
- Prior to ordering any material, the Contractor shall verify steel extension height and shim plate thickness required at each bearing so that total height of new bearing, steel extension, and fill matches height of existing bearing and shim.
- There shall be at least one jack per bearing, and the jack shall be placed close to the bearing.
- For limitations on lift amounts, see Special Provisions.
- The maximum dead load reaction per beam (weight of steel only) at West and East Abutments is 3.5 kips. Minimum jack capacity is 6 kips for West and East Abutments.
- The new bearing and steel extensions shall be in place and the jacks shall be lowered before the new concrete deck is poured.
- Jacking against diaphragms is prohibited.

"H" DIMENSIONS

W.B. Bridge			E.B. Bridge		
Location (Beam No.)	West Abutment	East Abutment	Location (Beam No.)	West Abutment	East Abutment
1	1/8"	3/16"	10	0	0
2	0	0	11	0	0
3	1/4"	0	12	1/8"	1/8"
4	3/8"	0	13	0	0
5	0	0	14	0	0
6	0	0	15	0	3/8"
7	1/8"	1/8"	16	0	1/4"
8	0	0	17	0	0
9	0	0	18	3/16"	1/8"

DESIGNED FT	April 28, 2008
CHECKED DPN	EXAMINED <i>Thomas J. Donagall</i>
DRAWN Gregory D. Farmer	PASSED <i>Ralph E. Anderson</i>
CHECKED FT/DPN	