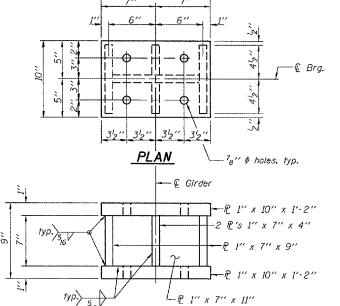


SHEETS SMEET MO. SHEET NO. 18 70 41 23 SHEETS F.A.P. 313 18-HB KNOX FED. HOAD DIST. NO. 7 Contract #68190



ELEVATION

STEEL EXTENSIONS AT ABUTMENT (10 required)

³₄'' ¢ Threaded Stud with flat washer & hex nut. (4-Read.) -P 134" x 10" x 1'-2"

Steel Extension

Bearing Assembly

TYPE I ELASTOMERIC EXP. BRG.

Bonded-7-Layers of 38" Elastomer 6- 3₃₂ '' Steel Plates

Shim plates shall not be placed under Bearing Assembly.

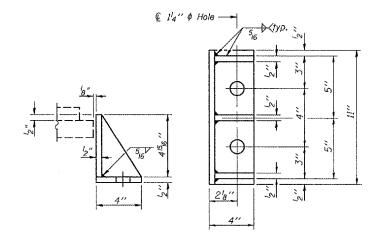
SECTION A-A

BEARING ASSEMBLY

A◀J

ELEVATION AT ABUT.

(if reg'd)



DESIGNED Stephen M. Ryan CHECKED Phillip R. Litchfield DRAWN R. Sommer CHECKED SMR/PRL

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 and diameter specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi).

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

Anchor bolts for side retainers shall be installed in holes drilled before or after members are in place. 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.

*Existing Top E to be removed using the air arc method and grind smooth all weld material remaining on the bottom flange, typ. *Burn existing anchor bolts flush with existing concrete surface typ. Grind existing anchor bolts smooth and -seal with epoxy.

JACK AND REMOVE EXISTING BEARING

Hatched areas indicate removal of existing bearings. *Cost included with Jack and Remove Existing Bearings.

JACK AND REMOVE EXISTING BEARING PROCEDURE WEST AND EAST ABUTMENTS

- 1. Jacking and removing existing bearings shall be done after existing deck removal is complete.
- 2. The Contractor shall submit, for approval by the Engineer, plans for jacking existing girders and installing new bearings prior to commencing any related work. This work shall be done after existing concrete deck is removed and prior to pouring of the new concrete deck. The max, dead load reaction per beam (weight of steel only) per bearing at Abutments is 5.0 kips. Minimum jack capacity per beam is 7.5 kips Abutments.
- 3. Prior to ordering any material, the Contractor shall verify steel extension height required at each bearing so that total height of new bearing and steel extension matches height of existing bearing and shims.
- 4. There shall be at least one jack per bearing and the jack shall be placed close to the bearing. The steel shall be raised a maximum of la".
- 5. The new bearings and steel extensions shall be in place and the jacks shall be lowered before the new concrete deck is poured.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	10
Anchor Bolts 1"	Each	40
Jack and Remove Existing Bearings	Each	10

BEARING DETAILS F.A.P. RT. 313 SECTION 18-HB KNOX COUNTY STATION 20+11.14 STRUCTURE NO. 048-0069