

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Notes:

Hatch area indicates Bearing removal. See Special Provision for Jack and Remove Existing Bearings.

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.

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

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

The Contractor is to verify the existing dimensions prior to fabricating the steel extensions. It is intended to keep the existing beams at their current elevation. Existing bearing dimensions shown are copied from the original plans.

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

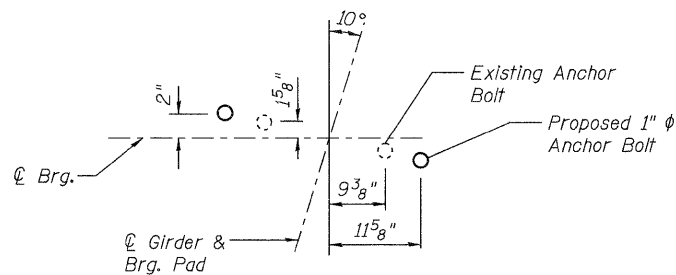
Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts.

Cost of steel extensions and connection bolts is included with Furnishing and Erecting Structural Steel.

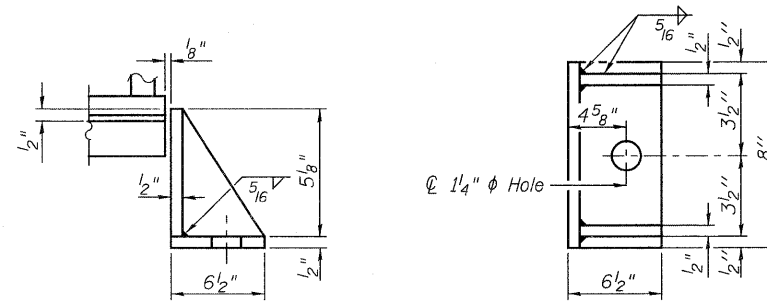
The abutment bearings shall be in place and the jacks lowered before the new concrete deck is poured at the abutments.

Diaphragm removal and replacement may be required to facilitate drilling holes. Cost shall be included with Furnishing and Erecting Structural Steel.

If web stiffeners are not present directly over the jack location, hardwood timbers shall be installed tightly between top and bottom flanges to prevent rotation.



ANCHOR BOLT LOCATION



SIDE RETAINER

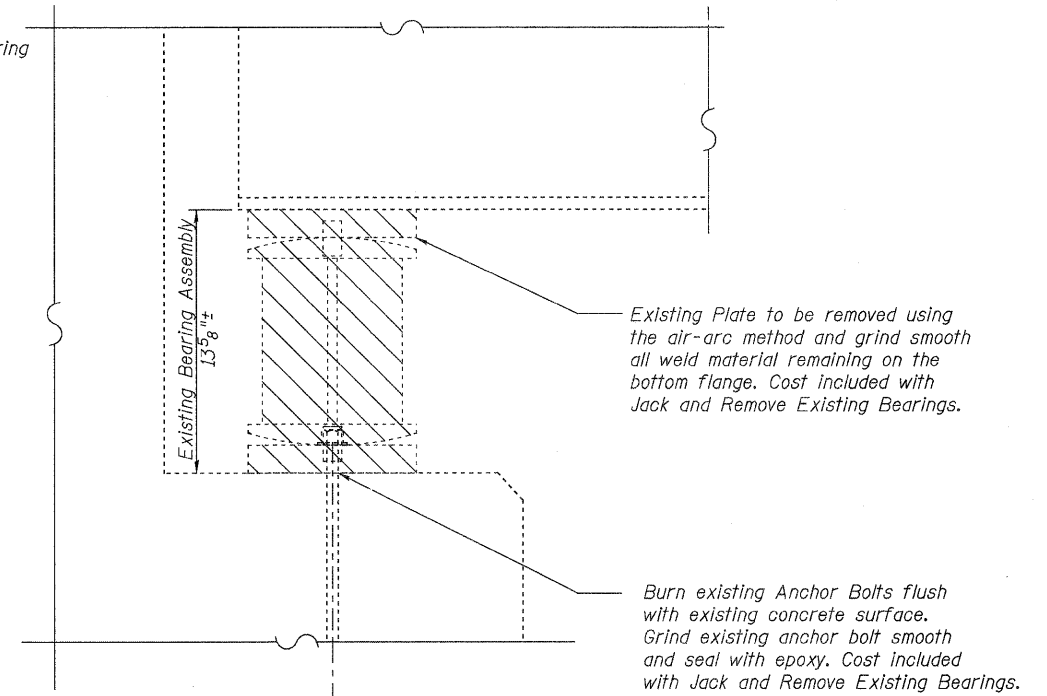
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BEAM REACTION TABLE

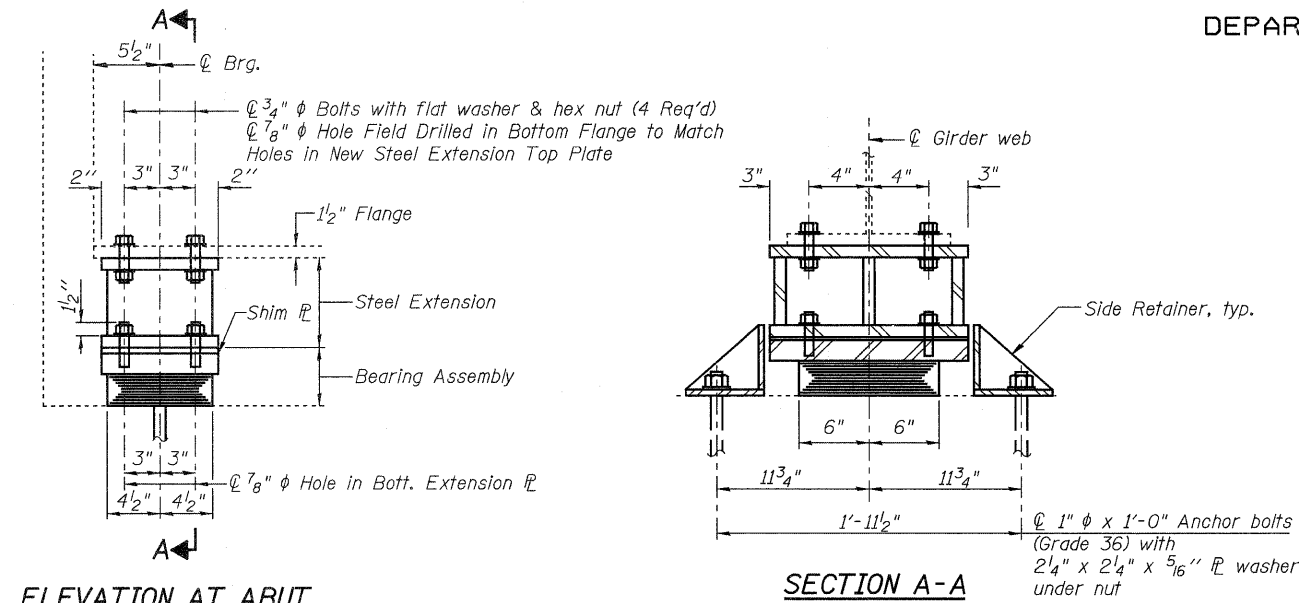
(From Existing Plans, Modified for HS20 Live Load)

Item	Unit
Dead Load (K)	51
Live Load(K)	32
Impact (K)	7
Total (K)	90
Min. Jack Capacity (Tons)	40

Note: Live Load not anticipated during jacking.



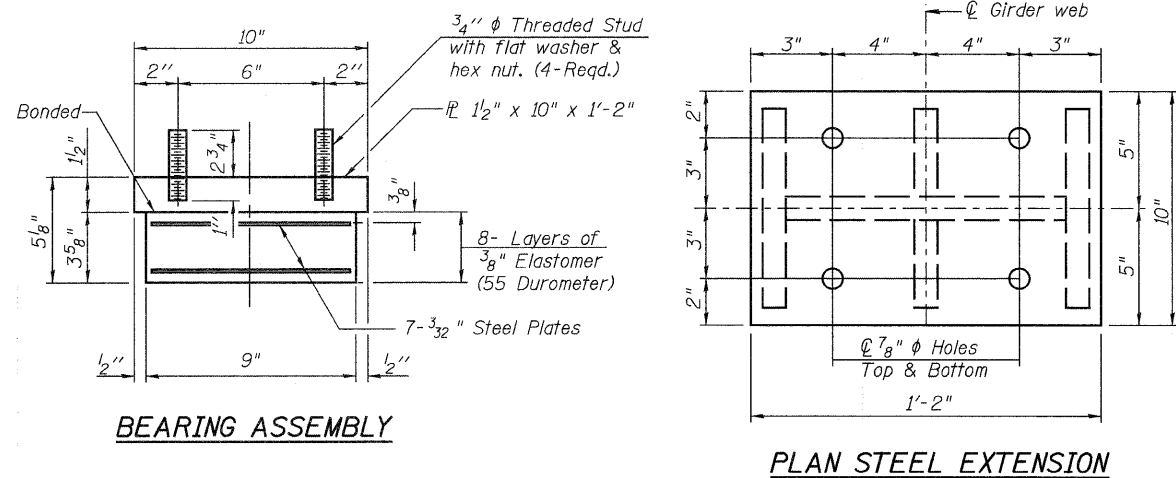
EXISTING BEARING REMOVAL DETAIL



ELEVATION AT ABUT.

SECTION A-A

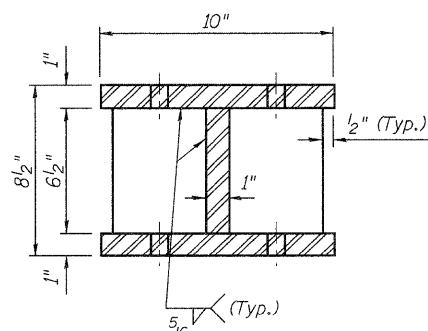
TYPE I ELASTOMERIC EXP. BRG.



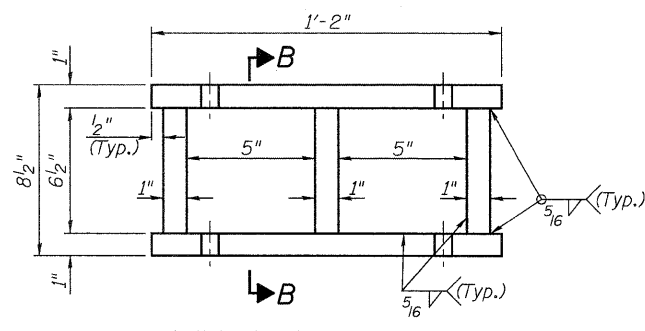
BEARING ASSEMBLY

PLAN STEEL EXTENSION

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



SECTION B-B



ELEVATION STEEL EXTENSION

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	5
Anchor Bolts, 1"	Each	10
Jack and Remove Existing Bearings	Each	5
Furnishing and Erecting Structural Steel	Pound	780

SOUTH ABUTMENT BEARING DETAILS
STRUCTURE NO. 060-0195

SHEET 7 OF 10	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	60-3RS-1, 60-3HB,3HB-1II	MADISON	123	89
STA. 410+18.00			CONTRACT NO. 76601		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

<p>LIN ENGINEERING, LTD. Consulting Engineers Chatham, Illinois</p>	
DESIGNED: ESH	DRAWN: RH
CHECKED: MTH	CHECKED: MTH