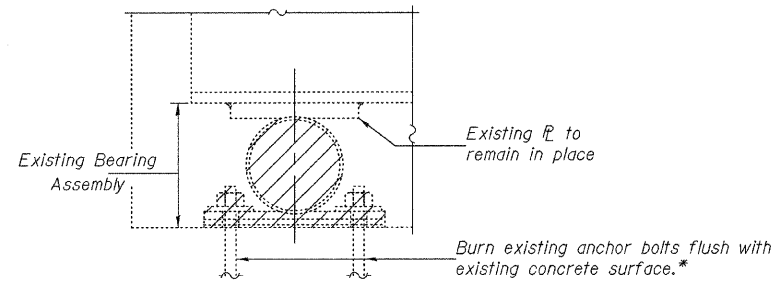


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.U. 9181	SECTION 52BR	COUNTY ST. CLAIR	TOTAL SHEETS 41	SHEET NO. 33	SHEET NO. 17 25 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT-	

Contract #76120



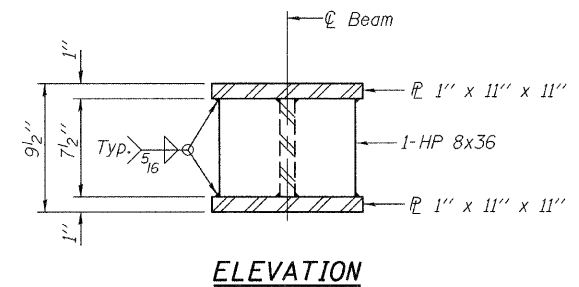
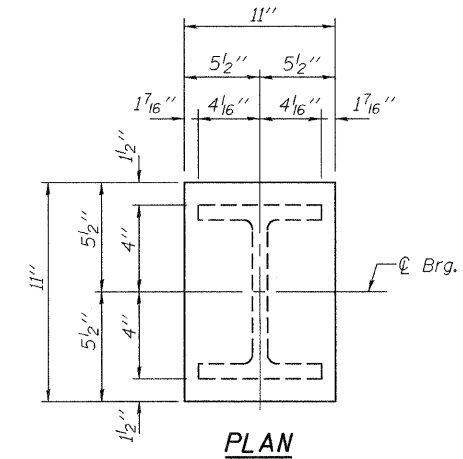
EXISTING BEARING REMOVAL DETAIL

Hatched areas indicate removal of existing bearings.

*Cost included with Jack and Remove Existing Bearings at the abutments.

JACK AND REMOVE EXISTING BEARING PROCEDURE

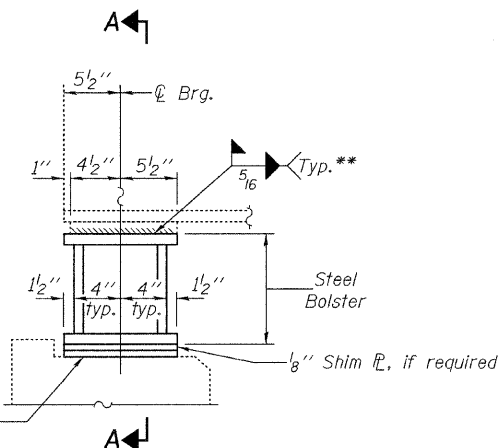
1. The Contractor shall submit plans for jacking to the Engineer for approval prior to commencing any work at the bearings.
2. Jacking and removing existing bearings shall be done after existing deck removal is completed and before the new deck is poured.
3. Prior to ordering any material, the Contractor 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.
4. All beams at all supports shall be lifted simultaneously such that the relative elevation between adjacent beams shall not exceed $\frac{1}{4}$ " from their original relative elevations, and such that the relative elevations between adjacent substructure units shall not exceed $\frac{3}{4}$ " during or after jacking operations.
5. The steel beams shall be raised a maximum of $\frac{1}{4}$ ". The maximum dead load reaction with deck removed (per bearing) at each abutment is 2.5 Kips.
6. The minimum jack capacity shall be 4 Kips at abutments.
7. The new bearings shall be in place and the jacks shall be lowered before the new concrete deck is poured.
8. Jacking against diaphragms is prohibited.



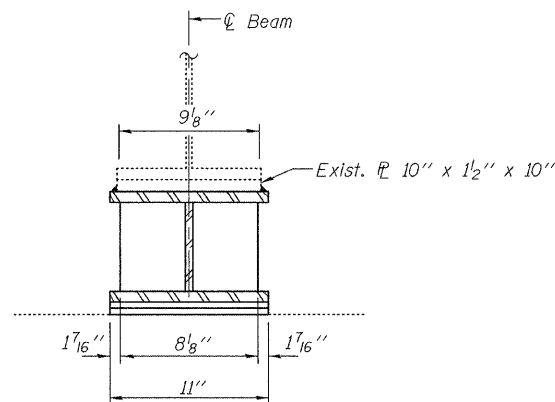
STEEL BOLSTER AT ABUTMENT
(20 required)

BILL OF MATERIAL

Item	Unit	Total
Jack and Remove Existing Bearings	Each	20



ELEVATION AT ABUTMENT



FIXED BEARINGS
(20 required)

*Cost of field welding is included with Furnishing and Erecting Structural Steel. Top of bolster to be painted after field welding.

DESIGNED	WAB/SMR
CHECKED	DFZ/FT
DRAWN	PAUL W. SWEET
CHECKED	DFZ/SMR/DPN/FT

November 23, 2009

EXAMINED *Thomas J. Demagala*
ENGINEER OF BRIDGE DESIGN

PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

BEARING DETAILS AT ABUTMENTS
F.A.U. RTE. 9181 - SECTION 52BR
ST. CLAIR COUNTY
STATION 39+89.80
STRUCTURE NO. 082-0136