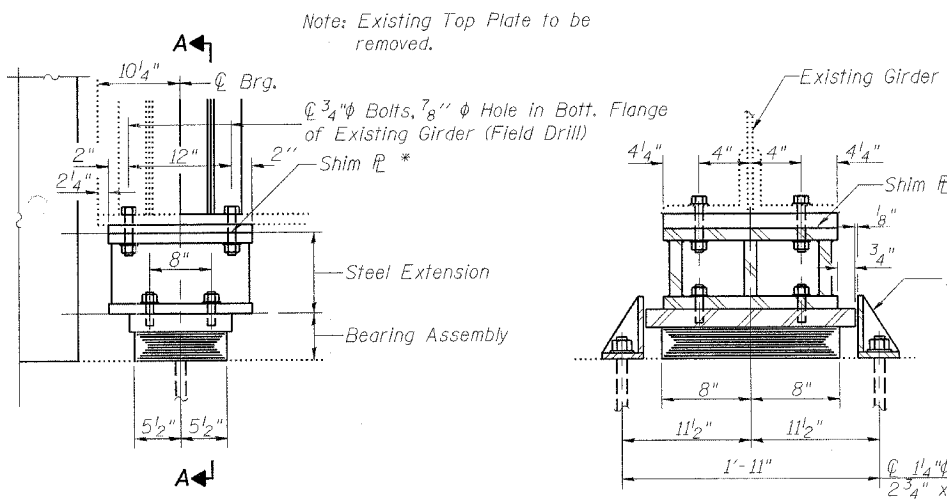


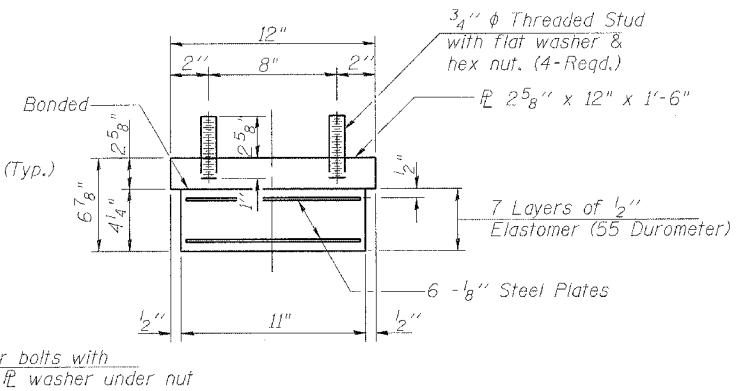
Contract #72449



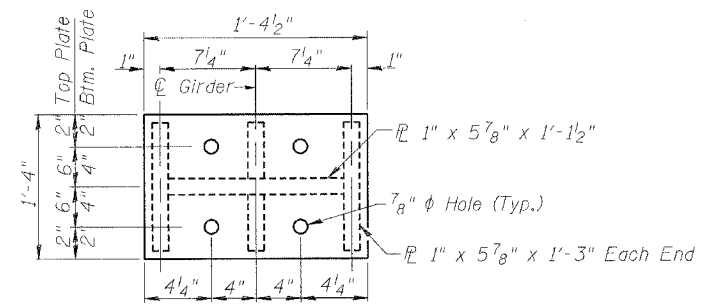
**ELEVATION**  
**SECTION A-A**

**TYPE I ELASTOMERIC EXP. BRG. - WEST ABUT.**

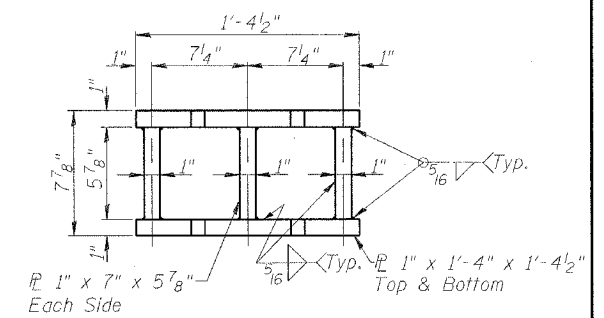
Note:  $\phi$  Prop. Brg. is 4 1/4" East of  $\phi$  Exist. Brg.  
See "Existing Bearing Removal" this sheet and Sheet 16 of 25 for details.



**BEARING ASSEMBLY**

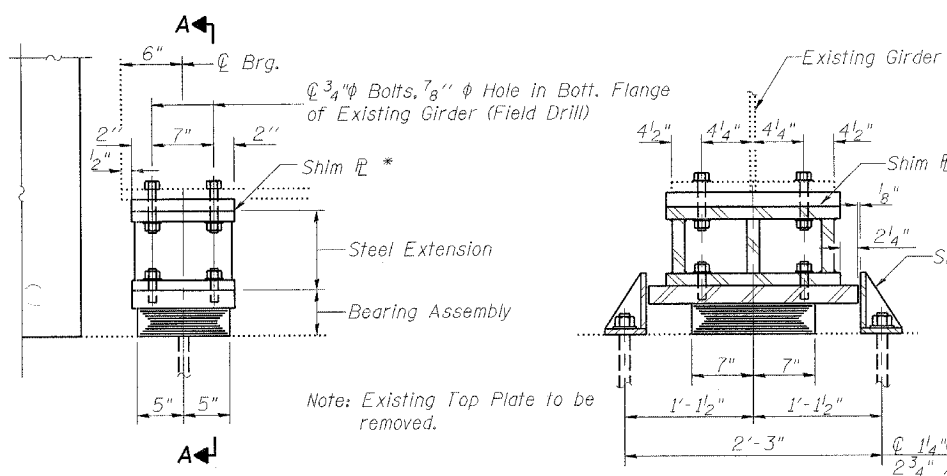


**STEEL EXTENSION  
PLAN TOP AND BOTTOM PLATE**



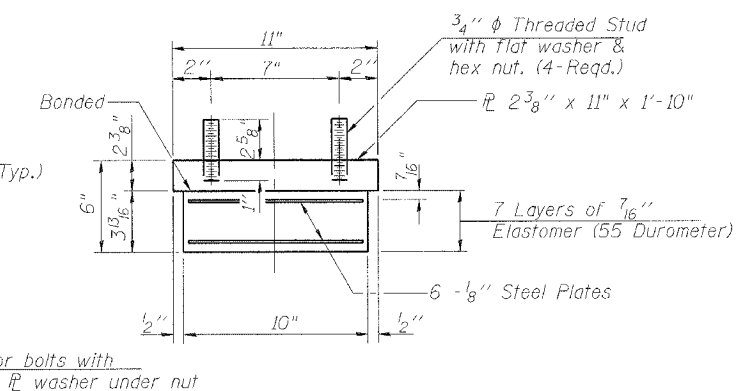
**STEEL EXTENSION DETAIL**

Weight included with Structural Steel.

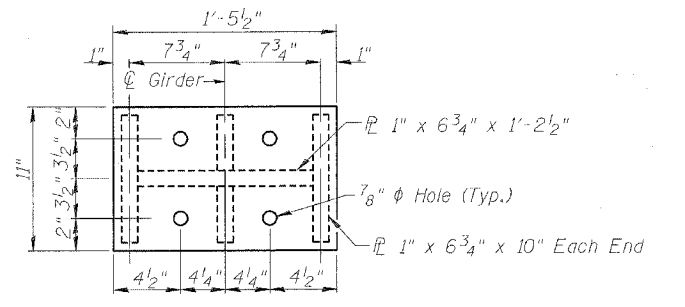


**ELEVATION**  
**SECTION A-A**

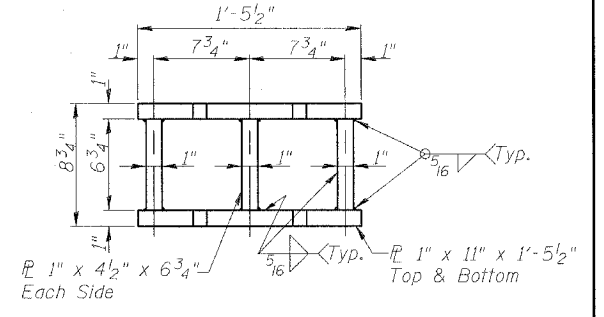
**TYPE I ELASTOMERIC EXP. BRG. - EAST ABUT.**



**BEARING ASSEMBLY**

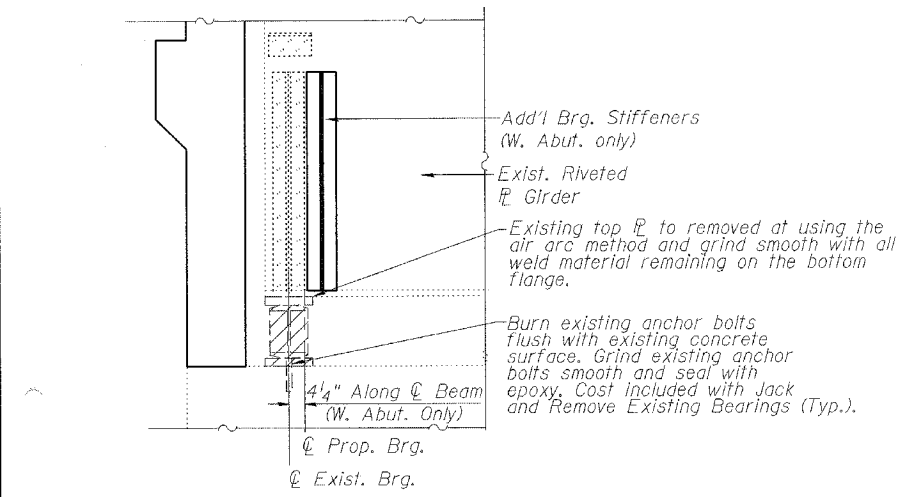


**STEEL EXTENSION  
PLAN TOP AND BOTTOM PLATE**



**STEEL EXTENSION DETAIL**

Weight included with Structural Steel.



**EXISTING BEARING REMOVAL**

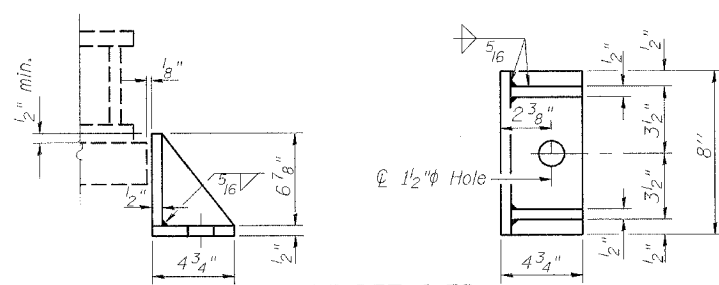
Hatched areas indicate removal of existing bearing.  
(West Abutment Shown, East Abutment and Pier 3 Similar)

**JACKING EXISTING SUPERSTRUCTURE**

- The Contractor shall submit for approval by the Engineer, plans for jacking existing superstructure prior to commencing any work at the bearings. This submittal shall be sealed by a licensed structural engineer in Illinois.
- Jacking and removing existing bearings shall be done after existing deck removal is completed and before the new deck is poured.
- All Girders at the abutments shall be lifted simultaneously 3/4" to replace existing bearings. Care shall be taken such that the relative elevation between adjacent girders does not vary by more than 1/4" from their original relative elevations.
- The maximum dead load reaction with deck removed (per bearing) at the West Abutment is 22 kips and at the East Abutment is 18 kips.
- The minimum jack capacity shall be 17 tons.
- The new structural steel and bearings shall be in place and the jacks shall be lowered before the new concrete deck is poured.

Shim Plate Thickness "t" (in.)					
Girder #	1	2	3	4	5
W. Abut.	-	2 1/8	2 5/8	1 5/8	1/8
E. Abut.	-	-	1	1/4	1/4

\* In addition to shims listed on the table, provide one 1/4" shim, one 1/8" shim, and one 1/16" shim for height adjustment. Weight included with Structural Steel.



**SIDE RETAINER**

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.

**NOTES:**

- See Sheet 24 of 25 for Anchor Bolt installation.
- Shim plates shall not be placed under Bearing Assembly.
- Cost of Field Drilling holes in existing beams included in Cost of Furnishing and Erecting Structural Steel.

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Elastomeric Bearing Assembly Type I	Each	10
Jack and Remove Existing Bearings	Each	10

ILLINOIS DEPARTMENT OF TRANSPORTATION  
EAST & WEST ABUTMENT  
BEARING DETAILS  
OLD U.S. ROUTE 36 OVER  
SANGAMON RIVER  
F.A.U. ROUTE 7978  
SECTION BR-1  
SANGAMON COUNTY  
STA. 70+00.00  
STRUCTURE NUMBER 084-0052

DATE: JAN. 2005  
DRAWN BY: NJV  
CHECKED BY: PFB