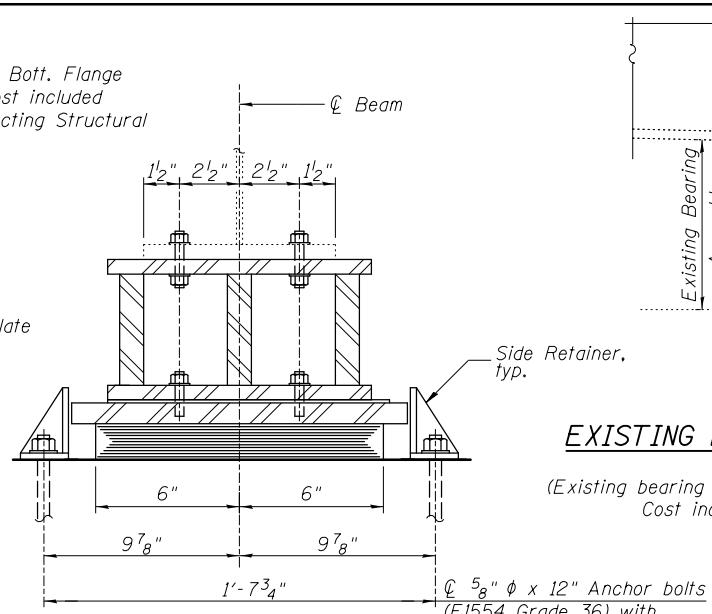
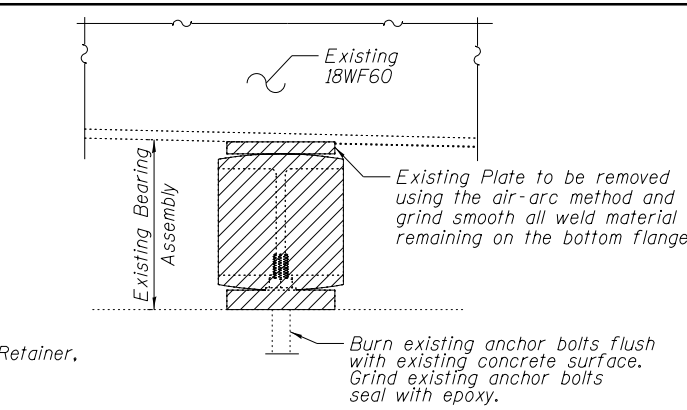


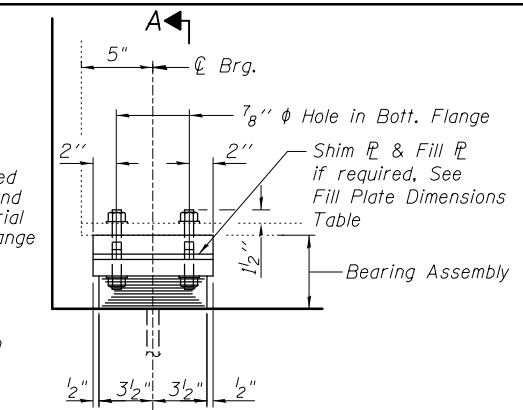
ELEVATION AT PIER



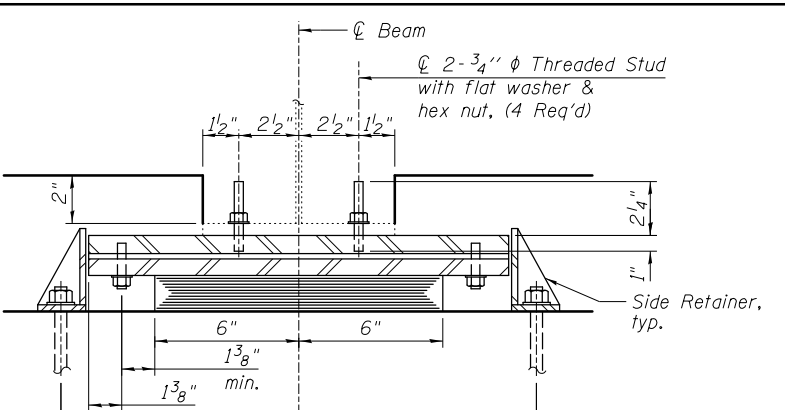
SECTION B-B



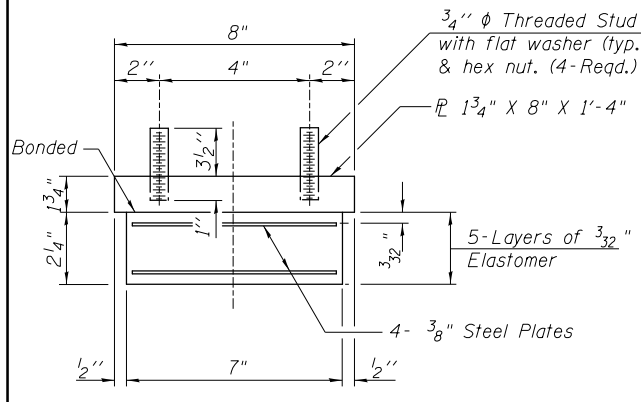
EXISTING BEARING REMOVAL DETAIL  
(21 required)  
(Existing bearing at Pier shown, Abutment bearings similar)  
Cost included with Jack and Remove Existing Bearings.



ELEVATION AT ABUT.

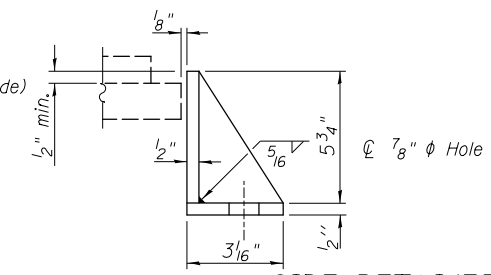


SECTION A-A



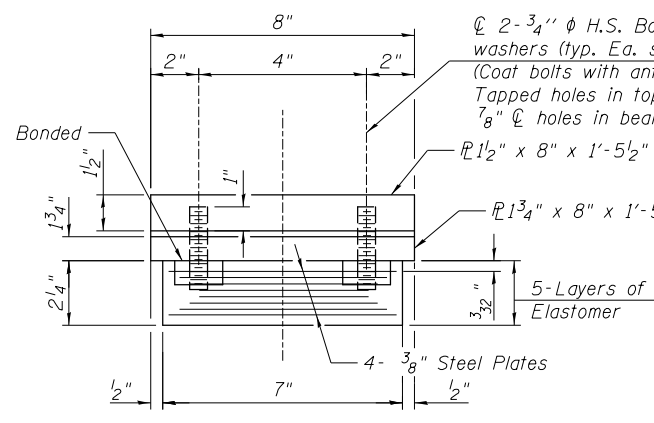
BEARING ASSEMBLY

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



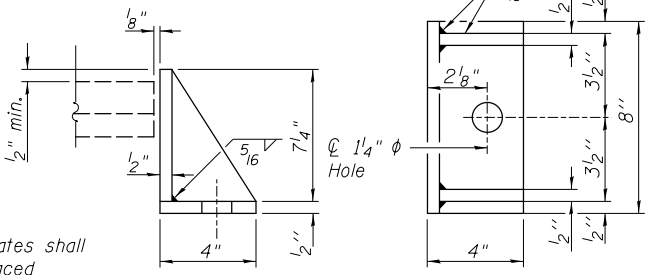
SIDE RETAINER

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



BEARING ASSEMBLY

See Section A-A for 3/4 inch diameter threaded studs in Top Plate



SIDE RETAINER

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

TYPE I ELASTOMERIC EXP. BRG. AT ABUTMENTS

FILL PLATE DIMENSIONS AT PIER 1

Beam	Pier 1
1	-
2	3/8" x 8" x 11"
3	1/2" x 8" x 11"
4	1/4" x 8" x 11"
5	-
6	-
7	-

FILL PLATE DIMENSIONS AT ABUTMENTS

Beam	E. Abut.	W. Abut.
1	1/2" x 8" x 1'-5 1/2"	1/2" x 8" x 1'-5 1/2"
2	7/8" x 8" x 1'-5 1/2"	7/8" x 8" x 1'-5 1/2"
3	1" x 8" x 1'-5 1/2"	1 1/8" x 8" x 1'-5 1/2"
4	3/4" x 8" x 1'-5 1/2"	7/8" x 8" x 1'-5 1/2"
5	-	-
6	-	-
7	-	-

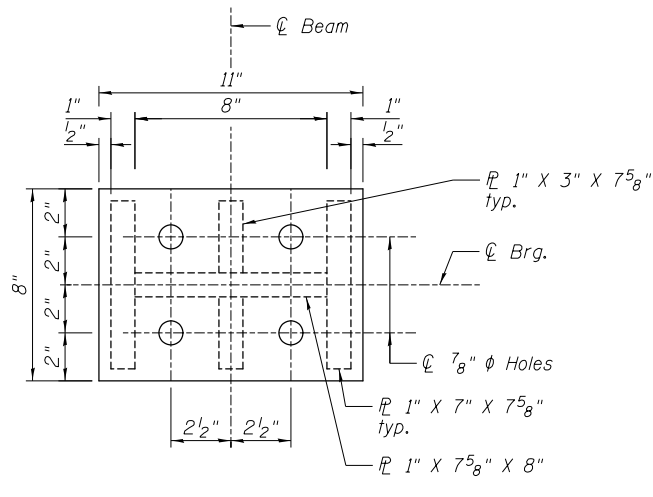
Notes:  
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.  
Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.  
Two 1/8 inch adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.  
H.S. bolts in bearing assembly shall be galvanized according to AASHTO M298 Class 36.  
Prior to ordering any material, the Contractor shall verify in the field all bearing heights and shim thickness dimensions.  
New steel extensions, connection bolts, Fill Plate, and Shim Plates are included in "Furnishing and Erecting Structural Steel".  
Existing diaphragm removal and reinstallation at Pier 1 may be required to facilitate drilling holes. Cost is included with "Jack and Remove Existing Bearings".

BILL OF MATERIAL

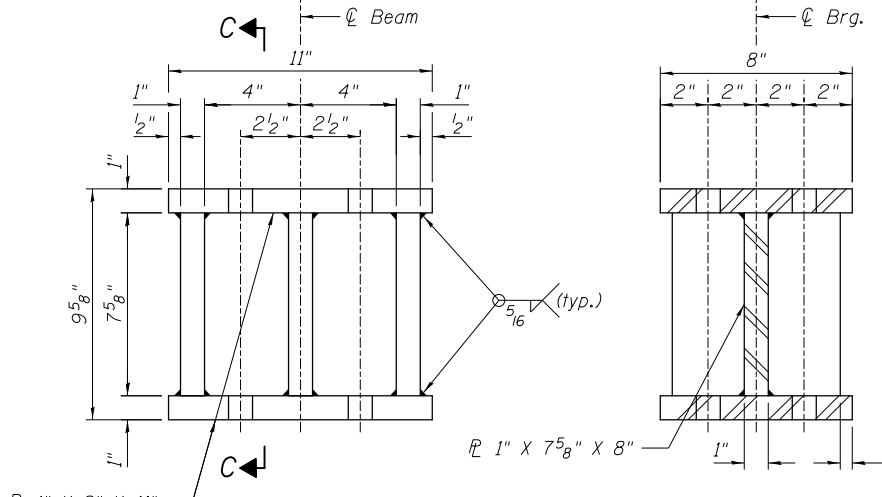
Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	21
Anchor Bolts, 1"	Each	28
Anchor Bolts, 5/8"	Each	14
Furnishing and Erecting Structural Steel	Pound	780
Jack and Remove Existing Bearing	Each	21

Jack and Remove Existing Bearing Procedure

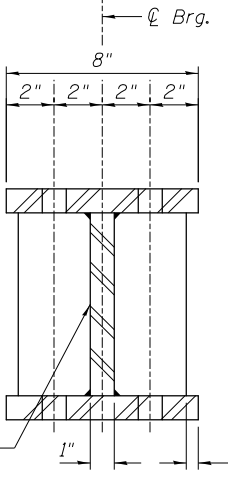
- The Contractor shall submit for approval by the Engineer, plans for jacking existing beams and installing new bearings prior to commencing any related work. The dead load reaction per beam (weight of steel only) is 1.5 k at the abutments, and 4 k at Pier 1. Minimum jack capacity is 3 k at abutments and 8 k at Pier 1.
- Prior to ordering any material, the Contractor shall verify steel extension and Fill plate thicknesses required at each bearing.
- Jacking and removing existing bearings shall be done after the existing deck is removed and prior to placing the new deck.
- Jacking lifts shall be limited in accordance with the special provision "Jack and Remove Existing Bearings."
- The new bearings, plates, and steel extensions shall be in place and the jacks shall be lowered before the new concrete deck is poured.



PLAN STEEL EXTENSION



ELEVATION STEEL EXTENSION



SECTION C-C



USER NAME = tborges  
DESIGNED - KO  
CHECKED - BCM  
PLOT SCALE = N/A  
DRAWN - KO  
CHECKED - 8/23/2012  
PLOT DATE = 3/31/2014

DESIGNED - KO  
CHECKED - BCM  
DRAWN - KO  
CHECKED - 8/23/2012

REVISED  
REVISED  
REVISED  
REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS  
STRUCTURE NO. 099-0181  
SHEET NO. S14 OF S20 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-3I-3	WILL	87	52
				CONTRACT NO. 60X60

ILLINOIS FED. AID PROJECT