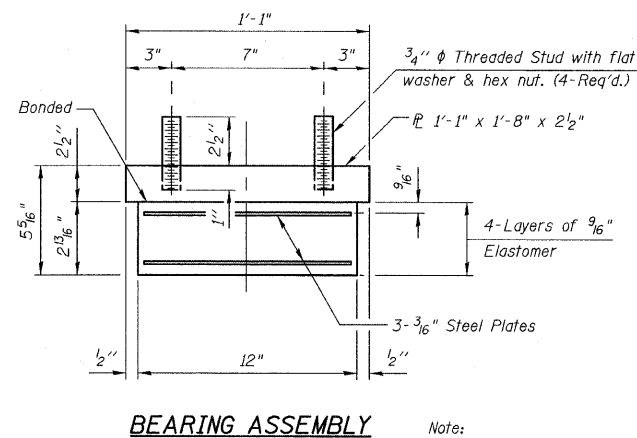


**PROPOSED TYPE I ELASTOMERIC EXP. BRG WITH FABRICATED STEEL EXTENSIONS - AT PIERS 1 & 3**  
(16 required)



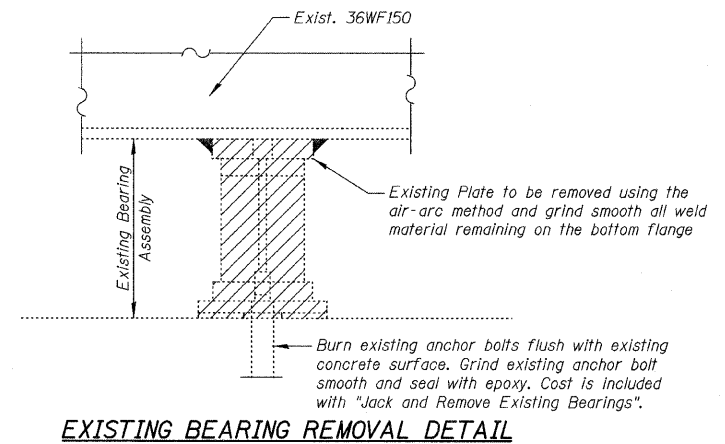
Note: Shim plates shall not be placed under Bearing Assembly.

**Notes:**  
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.  
Anchor bolts for side retainers may be cast in place or 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 elastomeric bearing assembly, including steel extensions, shall be included in the cost of Elastomeric Bearing Assembly, Type I.  
The Contractor shall submit plans for jacking the existing Superstructure for approval by the Engineer prior to commencing any work with the bearings. The submittal shall be prepared and sealed by a Licensed Structural Engineer in Illinois.  
It shall be the Contractor's responsibility to verify all dimensions between the bottom of the bridge beams and the top of the bearing seat, in the field, prior to construction or ordering of materials.  
Two  $\frac{1}{8}$  In. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.  
Prior to ordering any materials the Contractor shall verify, in the field, all bearing height and shim thickness dimensions.  
The Contractor shall supply additional Shim Plates, if required, to bring devices to Grade. Cost included with Elastomeric Bearing Assembly, Type I.

**BEAM REACTION TABLE**  
(at Piers 1 & 3)

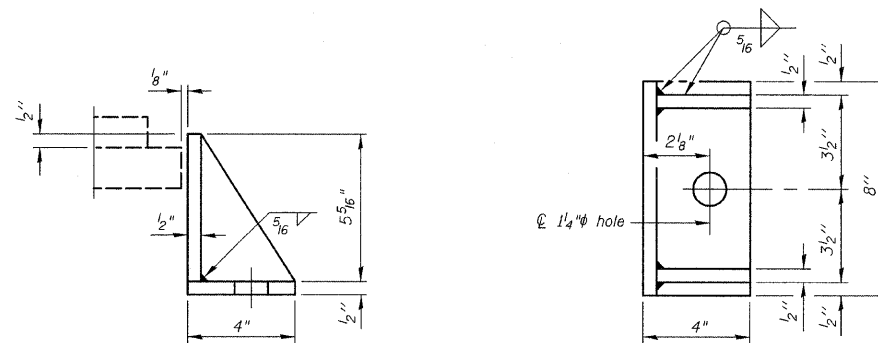
	Pier 1	Pier 3
R $\phi$	(k) 92.0	92.0
R $\frac{1}{2}$	(k) 45.9	45.9
R I	(k) 12.3	12.3
R (Total)	(k) 150.2	150.2

Minimum jack capacity at each bearing = 115 tons



**SHIM PLATE TABLE**

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7	Beam 8
Pier 1 - "ts"	$\frac{3}{8}$ "	$\frac{3}{4}$ "	$\frac{3}{8}$ "	1"	1"	1"	$\frac{3}{8}$ "	$\frac{3}{4}$ "
Pier 3 - "ts"	-	$\frac{3}{8}$ "	$\frac{5}{8}$ "	-	-	-	-	$\frac{3}{8}$ "



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

**BILL OF MATERIAL**

Item	Unit	Quantity
Elastomeric Bearing Assembly, Type I	Each	16
Anchor Bolts, 1"	Each	32
Jack and Remove Existing Bearings	Each	16

FILE NAME = I:\022003\_Central\_Ave\Structural\CA00 Sheets\0160P17-17-bearing\_det.pers.dgn



USER NAME = 100T  
PLOT SCALE = 50.000000 ' / IN.  
PLOT DATE = 12/10/2011

DESIGNED - J.C.N./B.N.S.  
CHECKED - B.N.S.  
DRAWN - F.M.  
DATE - DECEMBER 9, 2011

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS-PIERS 1 & 3  
STRUCTURE NO.016-2458

SHEET NO. S17 OF S24 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	1415-803HB-R	COOK	51	32
CONTRACT NO. 60P17				
ILLINOIS FED. AID PROJECT				