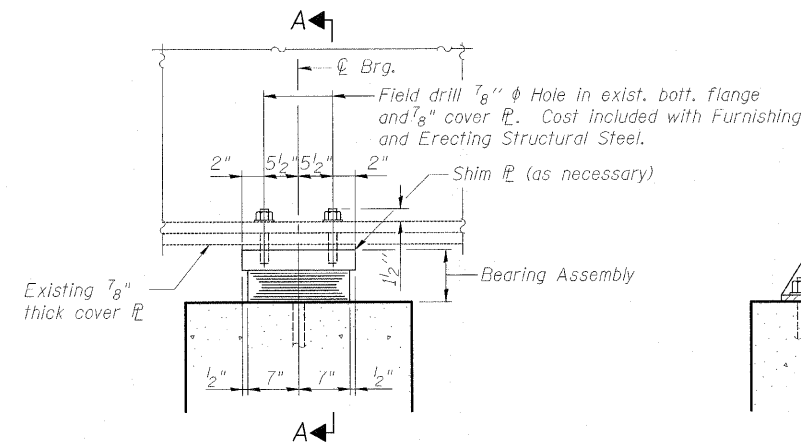
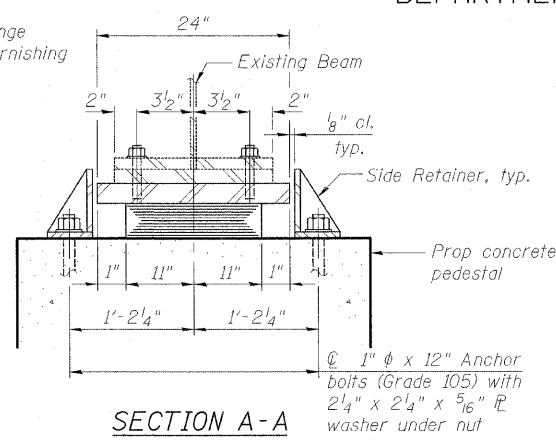


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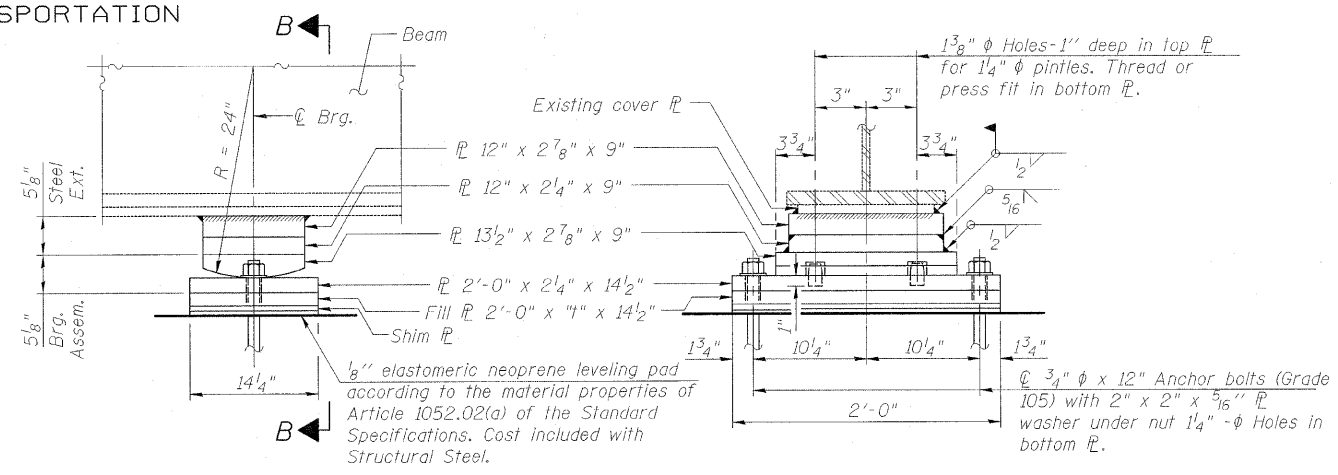


ELEVATION AT PIER

TYPE I ELASTOMERIC EXP. BRG. AT PIER 1



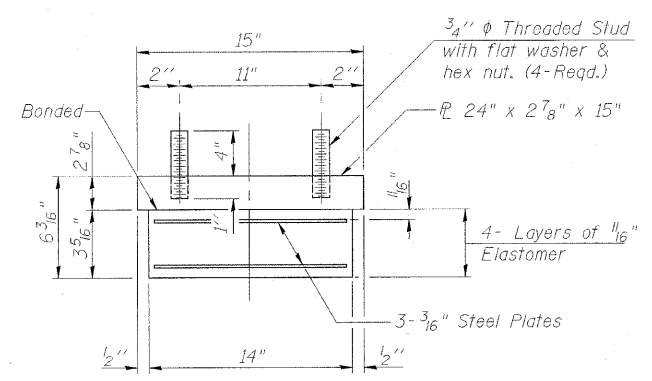
SECTION A-A



ELEVATION AT PIER

FIXED BEARING AT PIER 2

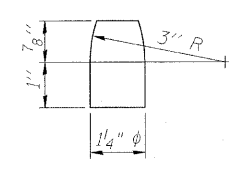
SECTION B-B



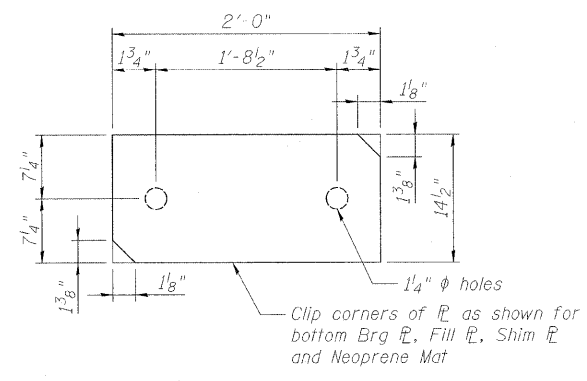
BEARING ASSEMBLY

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 may be used in lieu of ASTM 1554 Grade 36 (Fy = 36 ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
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 bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.
The cost for fabricating and installing the fixed bearing assembly, steel extensions, fill plate and shim plate shall be included in the cost of Furnishing and Erecting Structural Steel.



PINTLE



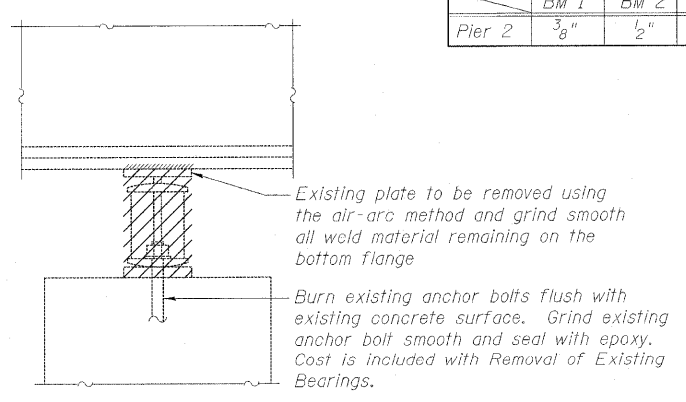
BOTTOM PLATE PLAN

SUPERSTRUCTURE JACKING PROCEDURE

- Jacking of existing superstructure shall be done after deck is removed and diaphragm between Beams 6 & 7 have been removed.
- The Contractor shall submit for approval by the Engineer, plans for jacking existing beams, removing and installing bearings prior to commencing any related work. The maximum dead load reaction per beam (weight of steel only) and minimum jack capacities are as follows:

	Dead Load (one bearing)	Min. Jack Capacity
Abutments	6.5 kips	10 kips
Piers	22.5 kips	34 kips

- Prior to ordering any material, the Contractor shall verify steel extensions, fill plate and shim plate thickness required at each bearing.
- There shall be at least one jack per bearing and the jack shall be placed close to the bearing. The jacking operation shall follow procedures outlined in the special provision "Jacking Existing Superstructure." The beams shall be blocked in position until after the completion of the installation of new bearings.
- The new bearings and steel extensions shall be in place and the jacks shall be lowered before the new concrete is poured.



BEARING REMOVAL

(Pier 1 shown, Pier 2 similar)

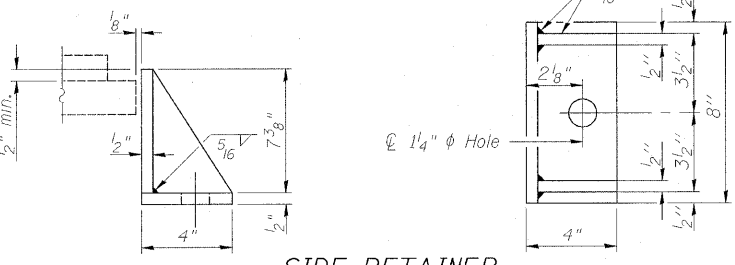
FILL PLATE THICKNESS "I"

	BM 1	BM 2	BM 3	BM 4	BM 5	BM 6	BM 7	BM 8	BM 9	BM 10	BM 11	BM 12
Pier 2	3/8"	1/2"	1/4"	3/4"	1/2"	3/8"	-	-	-	-	1/4"	1/2"

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12
Anchor Bolts, 1"	Each	24
Anchor Bolts, 3/4"	Each	24
Furnishing and Erecting Structural Steel	Pound	6,250
Removal of Existing Bearings	Each	24

PIER BEARING DETAILS
STRUCTURE NO. 045-0016



SIDE RETAINER

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

DESIGNED - DF
CHECKED - TL
DRAWN - LAM
CHECKED - DF

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbainc.com
Job No. 910

SHEET NO. S-24	F.A.U. RTE. 3887	SECTION R-VB-R	COUNTY KANE	TOTAL SHEETS 83	SHEET NO. 58
S-34 SHEETS	CONTRACT NO. 60C06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					