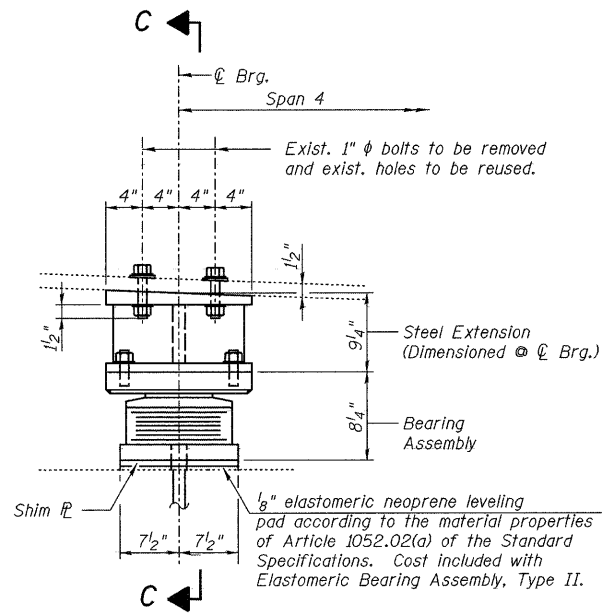
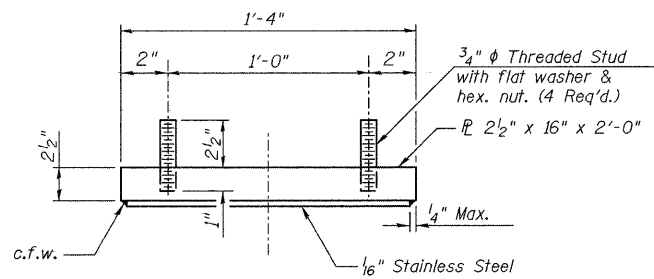


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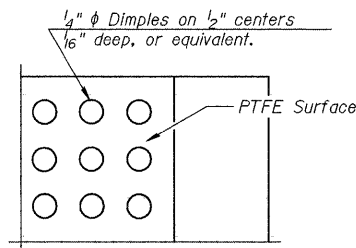


ELEVATION AT PIER 3
(Looking North)

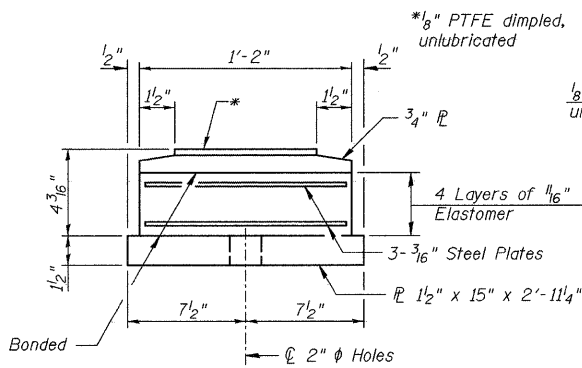
TYPE II ELASTOMERIC EXP. BRG.



TOP BEARING ASSEMBLY



PLAN-PTFE SURFACE

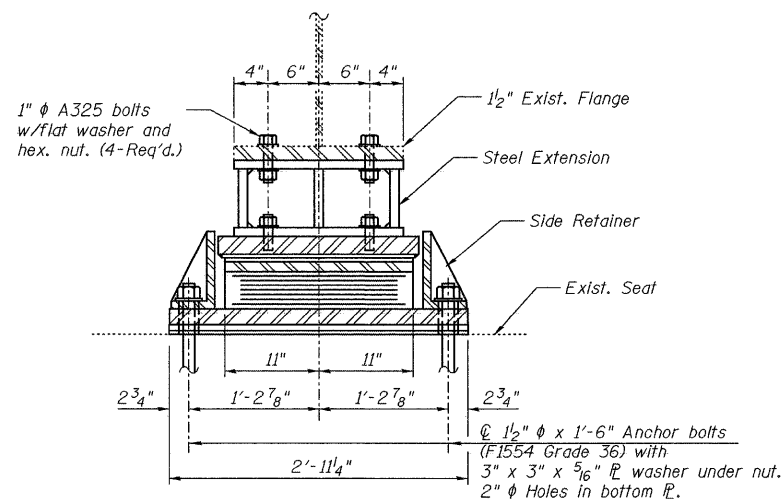


BOTTOM BEARING ASSEMBLY

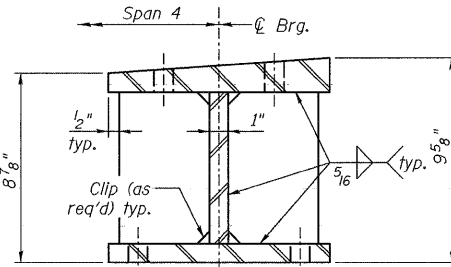
EXISTING BEAM REACTION TABLE

LOCATION	DEAD LOAD	LIVE LOAD	IMPACT LOAD	TOTAL LOAD
Pier 3	139.8	74.5	15.7	230.0

DESIGNED -	JLS
CHECKED -	KWS
DRAWN -	RMG
CHECKED -	KWS



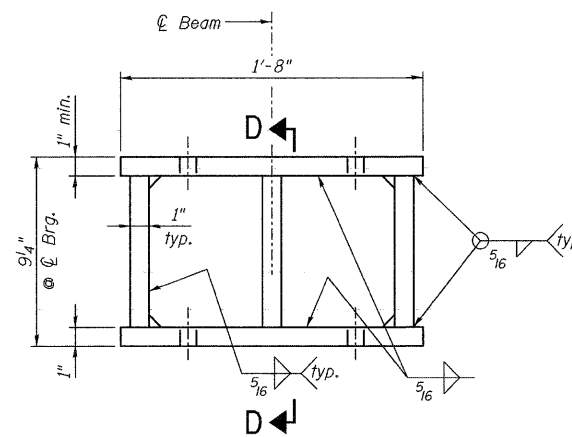
SECTION C-C



SECTION D-D

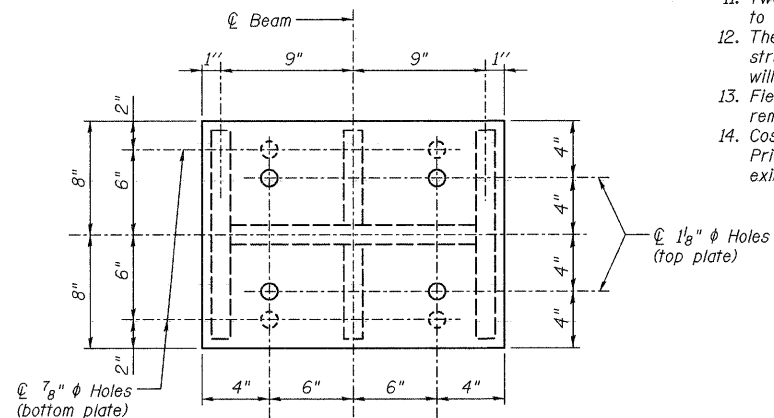
SIDE RETAINER

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

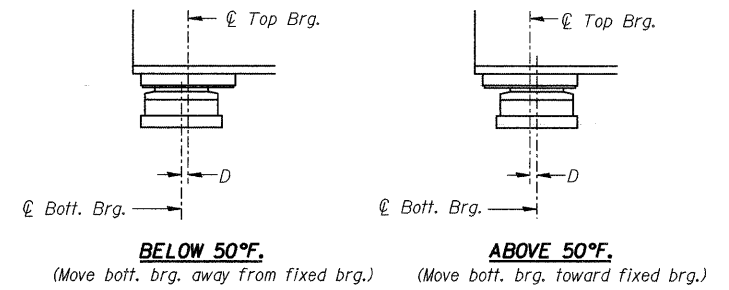


ELEVATION STEEL EXTENSION

(Weight included with Furnishing and Erecting Structural Steel.)



PLAN STEEL EXTENSION



SETTING ANCHOR BOLTS AT EXP. BRG.

$D = \frac{1}{8}$ " per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

Notes:

- See Special Provision for "Jack and Remove Existing Bearings".
- Jacking and cribbing for beams at Pier 3 shall be performed such that they can remain supported while the specified structural repairs are performed. Cost included with Jack and Remove Existing Bearings. See Substructure Repairs sheet.
- The minimum jack capacity for lifting the beams, at each bearing location, shall be 280 kips at Pier 3 under Dead Load only.
- 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 Type II bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after bearings are in place. Side retainers shall be placed after bolts are installed.
- 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 II.
- The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
- Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.
- The structural steel plates of the Bearing Assembly and Steel Extension shall conform to the requirements of AASHTO M 270 Grade 36.
- Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
- The anchor bolt size and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.
- Field drilling for holes is not anticipated, but if necessary, diaphragm removal and reinstallation may be required to facilitate drilling holes.
- Cost included with Furnishing and Erecting Structural Steel. Prior to ordering any material, the Contractor shall verify in the field all existing bearing heights and required Steel Extension dimensions.

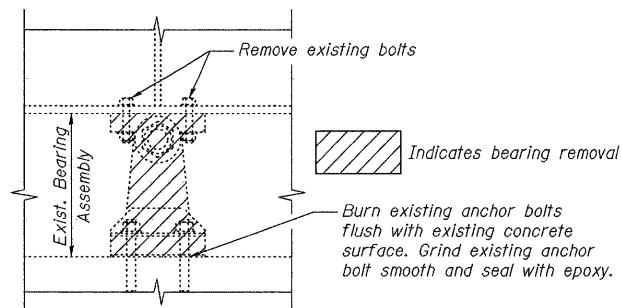
BILL OF MATERIAL

Item	Unit	Total
Jack and Remove Existing Bearings	Each	6
Elastomeric Bearing Assembly, Type II	Each	6
Anchor Bolts, 1 1/2"	Each	12
Furnishing and Erecting Structural Steel	Pound	2,090

BEARING DETAILS 2 OF 2
STRUCTURE NO. 022-0106

EXISTING BEARING REMOVAL AT PIER 3

Cost included with Jack and Remove Existing Bearings.



benesch

alfred benesch & company
Engineers - Surveyors - Planners
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10032.13

SHEET NO. 10 19 SHEETS	F.A.I. RTE. 290	SECTION 2009-115I	COUNTY DUPAGE	TOTAL SHEETS 27	SHEET NO. 15
	FED. ROAD DIST. NO. ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 60J34					