

Item	Unit	Total
Jack and Remove Existing Bearings	Each	28
Elastomeric Bearing Assembly, Type I	Each	28
Anchor Bolts, 1"	Each	52
Furnishing and Erecting Structural Steel	Pound	5,430

## BILL OF MATERIAL

## Notes:

- 1. For Jacking and Cribbing see special provision for "Jack and Remove Existing Bearings".
- Jacking and cribbing for beams at Piers 1 & 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.
- 3. The tabulated beam reactions were taken from the existing construction plans. The Contractor shall verify that the equipment used to support the beams is sufficient to carry these loads in addition to any temporary construction loads.
- 4. The minimum jack capacity for lifting the beams, at
- each bearing location, shall be 140 klps at Plers 1 & 3.
  5. 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.
- 6. Anchor bolts for side retainers shall be installed in holes drilled in the concrete after bearings are in place. Side retainers shall be placed after bolts are installed.
- 7. Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications. 8. Side retainers and other steel members required for
- the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.
- 9. The structural steel plates of the Bearing Assembly and Steel Extension shall conform to the requirements of AASHTO M 270 Grade 36.
- 10. Two  $l_{B}$ " adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
- 11. 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.
- 12. Omit one side retainer at Beams 1 and 12 due to interference with existing concrete bollards. Remove concrete bollards as necessary to allow for installation of Elastomeric Bearings. Cost included with Elastomeric Bearing Assembly, Type I. See Substructure Repairs - Piers sheet for locations of existing concrete bollards.
- 13. Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.
- 14. Prior to ordering any material, the Contractor shall verify in the field all existing bearing heights and required Steel Extension dimensions.

## BEARING DETAILS STRUCTURE NO. 016-0536

). 8	F.A.I. RTE.	I. SECTION				COUNTY	TOTAL SHEETS	SHEET NO.	<b>310</b>
	94	1010 <b>.</b> 1-I-2			СООК	37	20	3/2(	
TS						CONTRACT	NO. 60	J30	1 Š
	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								ġ.

<sup>7</sup><sub>8</sub>" ¢ Holes