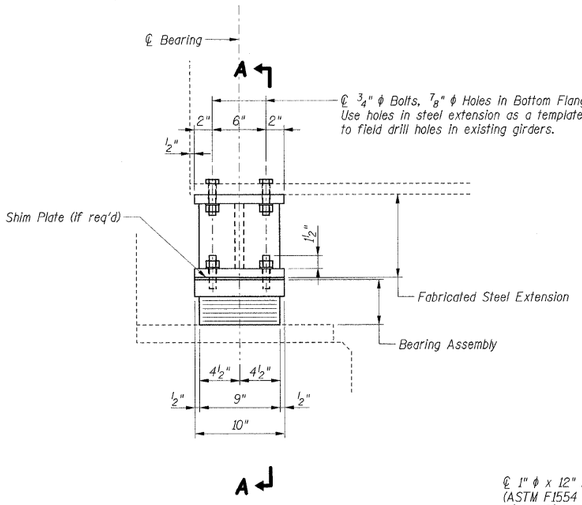
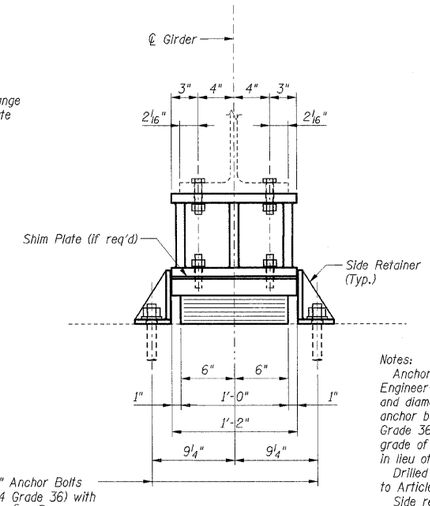
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1920.1B-R	COOK	101	080
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62533



ELEVATION AT ABUTMENT



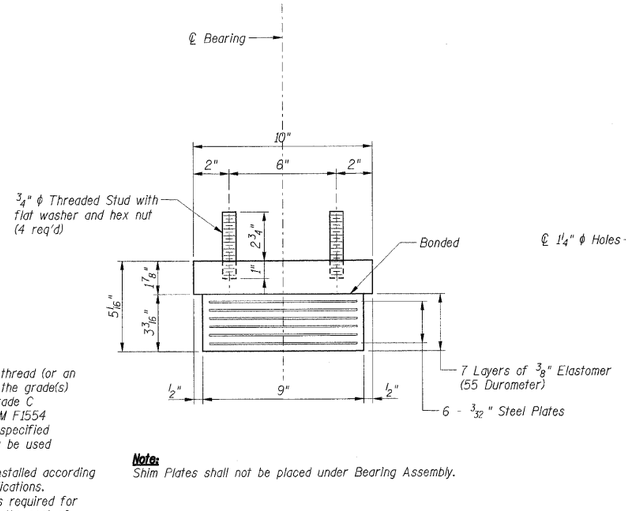
SECTION A-A

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.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

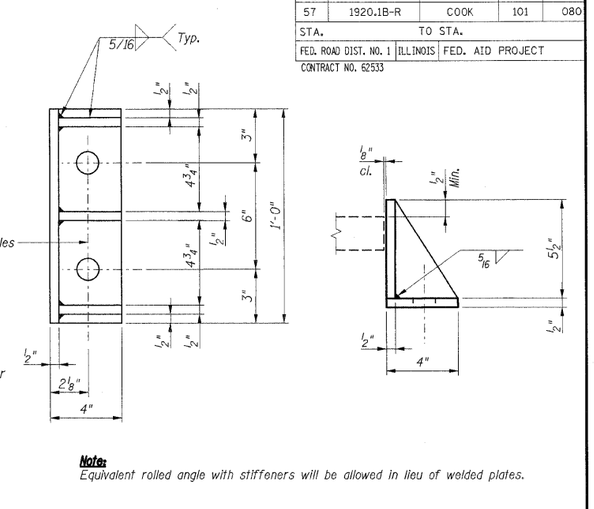
Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

TYPE I ELASTOMERIC EXPANSION BEARING



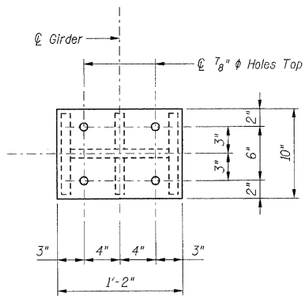
BEARING ASSEMBLY

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

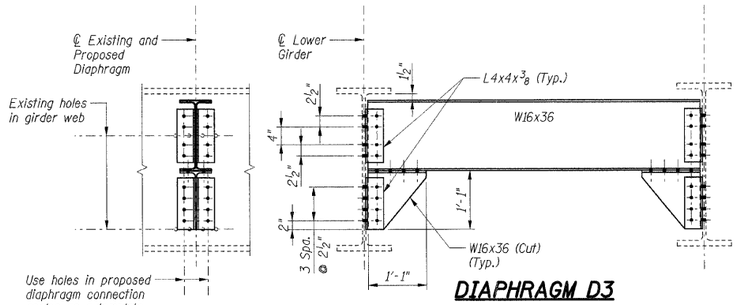


SIDE RETAINER

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

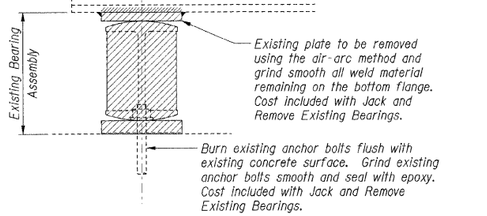


PLAN STEEL EXTENSION



DIAPHRAGM D3

(3 Required)
(3/4" ϕ H.S. Bolts, 13/16" ϕ Holes, Typ. Diaphragm D3)



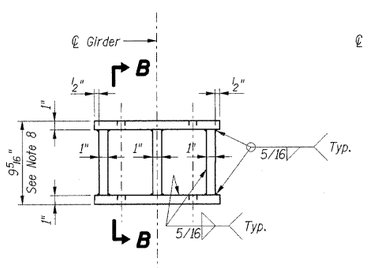
EXISTING BEARING REMOVAL DETAIL

Typical at West and East Abutments

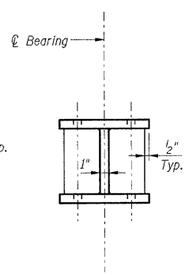
BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	28
Jack and Remove Existing Bearings	Each	28
Anchor Bolts, 1"	Each	112

Notes:
1. The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.
2. Fabricated steel extensions shall be AASHTO M 270 Grade 50.
3. All bolts and threaded studs shall be AASHTO M 164 (ASTM A 325).
4. Two hardened washers shall be required over all oversize holes.
5. For anchor bolt layout detail see Sheets S-015 and S-018.
6. Steel extension height determined from record plans. Prior to ordering any material the Contractor shall verify in the field all bearing height and shim thickness dimensions.
7. It is the responsibility of the Contractor to determine the top of girder elevations in the field prior to jacking and removal of the existing bearings and to rebuild to the field-verified elevations.
8. The Contractor shall submit for approval by the Engineer plans for lifting the existing girders and installing the new bearings prior to commencing any related work. The existing girders shall be lifted only after the existing concrete deck has been removed. The new bearings and steel extensions shall be in place and the jacks shall be lowered before the new concrete deck is placed.



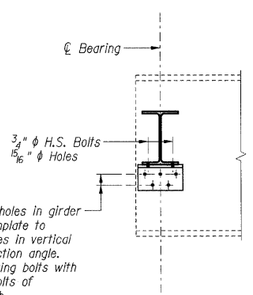
ELEVATION STEEL EXTENSION

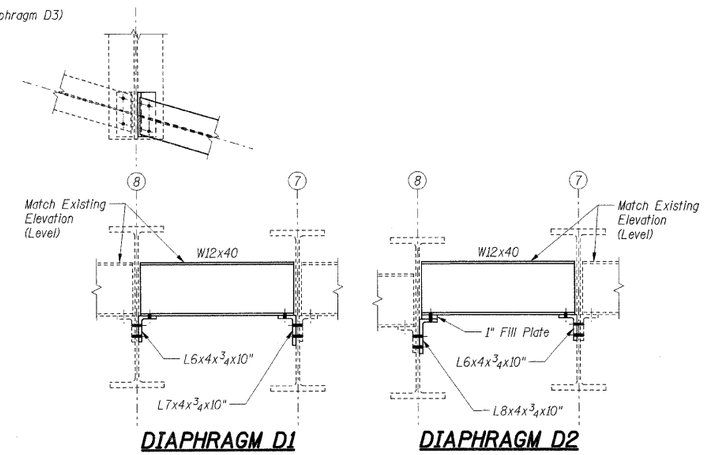


SECTION B-B

Note:
Weight included with Furnish and Erect Structural Steel.

FABRICATED STEEL EXTENSION





DIAPHRAGM D1

(Looking Upstation)

DIAPHRAGM D2

(Looking Upstation)

SHT. S-014

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 57 (INTERSTATE 57)
112TH PLACE BRIDGE DECK REPLACEMENT
112th PLACE OVER I-57
SN 016-0988 STA. 546+15.56
COOK COUNTY

STRUCTURAL STEEL DETAILS

DRAWN BY: CCE
DATE: 01/16/09 CHECKED BY: JLR

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE., CHICAGO, IL 60601
TELEPHONE 312.616.0000

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3-03-2009, 15:08:46 T:\DOCUMENT\930860\STRUCT\DGN\STLOOUTC.DGN HOUGHTM
pen table: N/A color table: K:\STANDARD\TENG\DATA\COLORTABLE.TBL