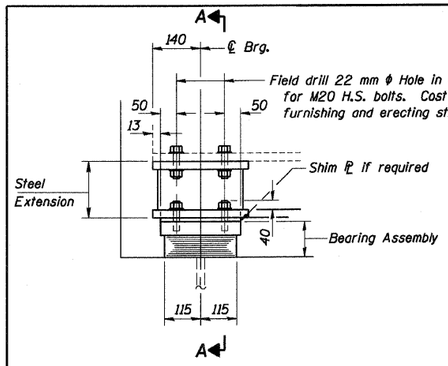
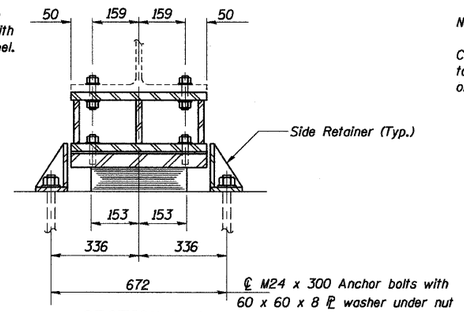
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 1584	•	COOK	119	86
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. S13
S23 SHEETS

• 068-1919.2-CF CONTRACT 60371

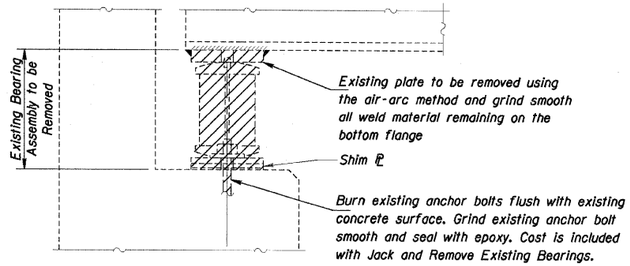


ELEVATION AT ABUT.



SECTION A-A

Notes:
Existing top bearing plate welded to existing beam at abutments must be removed. Contractor must exercise caution as not to damage bottom flange. Existing top plate to be removed using the air-arc method and grind smooth all weld material remaining on the bottom flange.
See Sheet S20 of S23 for Anchor Bolt installation.
All dimensions are in millimeters (mm) except as noted.



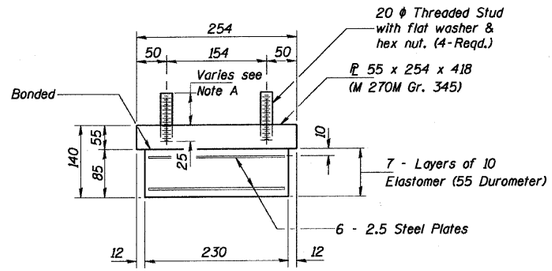
EXISTING ABUTMENT BEARING REMOVAL DETAIL

Contractor must exercise caution as not to damage bottom flange.

PROCEDURE FOR JACKING EXISTING SUPERSTRUCTURE:

1. The Contractor shall submit for approval by the Engineer, plans for jacking prior to commencing any work at the bearings.
2. Jack and remove bearings shall be done after removal of existing deck is complete.
3. The maximum differential lift between beams at any one substructure unit shall be limited to 7 mm ($\frac{1}{4}$"). If simultaneous jacking of all beams at a substructure unit is utilized, then the maximum total lift shall be limited to 19 mm ($\frac{3}{4}$").
4. The maximum reaction per bearing is 48.6 kN at the abutments. Minimum jack capacity at the abutments is 97.2 kN.
5. The new bearings shall be in place and the jacks lowered before the new concrete deck is poured.

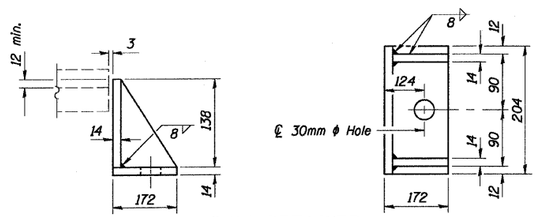
TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

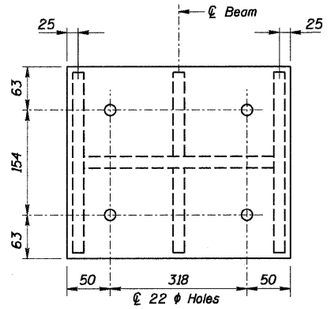
Notes:
Shim plates shall be the same length and width of the new elastomeric bearing top plate.
Shim plates shall not be placed under Bearing Assembly.

Note A:
Height of stud = 72 minimum plus shim plate thickness

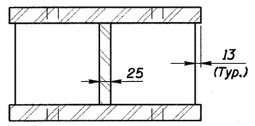


SIDE RETAINER

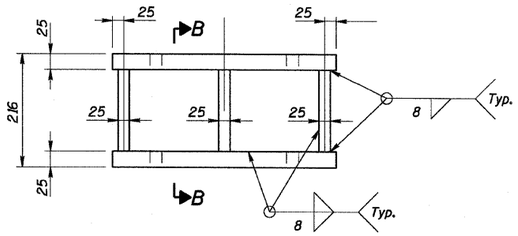
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.



PLAN STEEL EXTENSION



SECTION B-B



ELEVATION STEEL EXTENSION

Note:
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions.

TABLE OF SHIM PLATES

LOCATION	BEAM 1	BEAM 2	BEAM 3	BEAM 4	BEAM 5	BEAM 6	BEAM 7	BEAM 8	BEAM 9	BEAM 10	BEAM 11	BEAM 12	BEAM 13	BEAM 14
East Abutment	11	8	10	4	21	24	39	28	16	22	23	23	20	9
West Abutment	10	22	20	23	18	30	18	19	9	14	15	21	9	4

The shim plate thicknesses have been determined from elevations on As-Built drawings and are subject to nominal construction variations. It is the Contractor's responsibility to verify the shim plate thicknesses required for each bearing location and make the necessary approved adjustments prior to ordering materials. Any variations shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid for the quantity of shim plates furnished at the unit bid price for Furnishing and Erecting Structural Steel.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Elastomeric Bearing Assembly Type I	Each	28
Jack and Remove Existing Bearings	Each	28

REVISIONS	
NAME	DATE

COLLINS ENGINEERS, INC.
123 North Wacker Drive
Suite 300
Chicago, IL 60606
(312) 704-9300
www.collinsengr.com
ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993

ILLINOIS DEPARTMENT OF TRANSPORTATION
115 TH. STREET OVER FAI 57
FAU RTE. 1584 SEC. 068-1919.2-CF
COOK COUNTY
STATION 2+382.915
STRUCTURE NO. 016-2037

BEARING DETAILS

DRAWN BY KAC
CHECKED BY MDK/DCS DATE: JANUARY 16, 2009

29040008