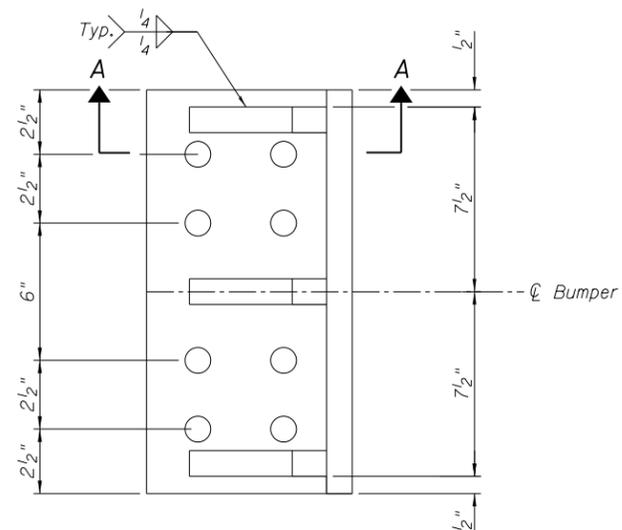
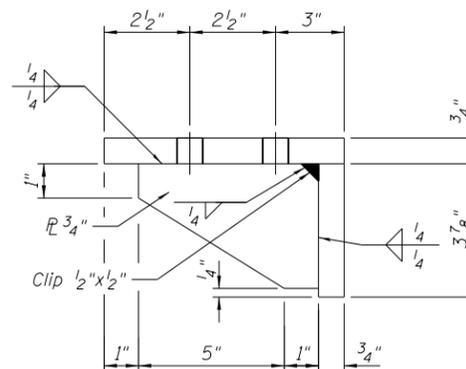


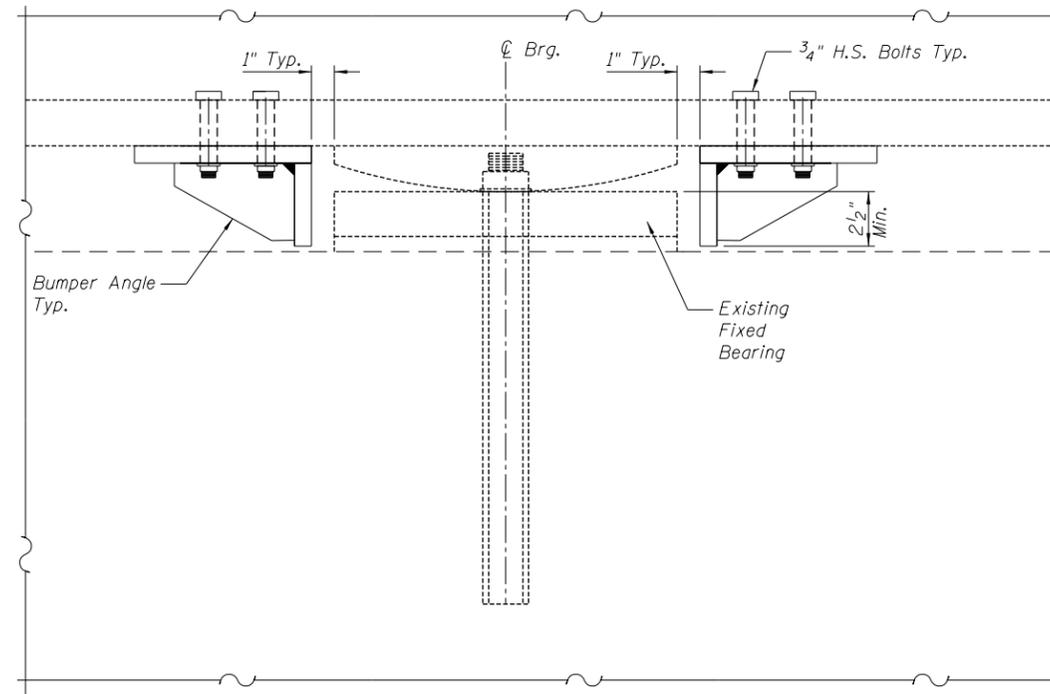
PLAN AT PIER BRG.
Typical each Girder



BUMPER ANGLE



SECTION A-A



ELEVATION AT PIER
FIXED BEARING

NOTES:

1. Use $\frac{13}{16}$ " holes for $\frac{3}{4}$ " ϕ A325 HS bolts.
2. Attach Seismic Bumpers to each Girder at pier 1 (8 required).
3. Cost Of drilling holes in bottom flange of existing Girder shall be included in Furnishing and Erecting Structural Steel.
4. Contractor shall verify all field dimensions necessary for Seismic Bumpers prior to fabrication.
5. $F_y = 50$ Ksi (Structural Steel).
6. Seismic Bumper shall be installed parallel to bearing plate.
7. The Seismic bumpers shall be coated as specified in Article 506.08 (b) of the Standard Specifications.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	450

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FILE NAME = 0600215-76A89-04- Bumper.dgn



USER NAME = DMG\oias	DESIGNED - KRS	REVISED -
PLOT SCALE = 2:8 1" = 1'-0"	CHECKED - FAS	REVISED -
PLOT DATE = 8/24/2012	DRAWN - DMG	REVISED -
	CHECKED - FAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEISMIC BUMPERS
STRUCTURE NO. 060-0215

SHEET NO. 4 OF 4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-(7,8) RS-2	MADISON	261	261
				CONTRACT NO. 76A89

ILLINOIS FED. AID PROJECT