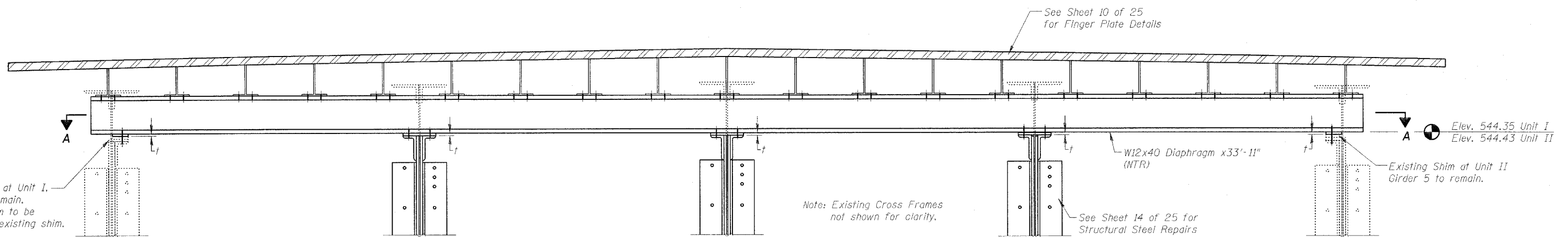
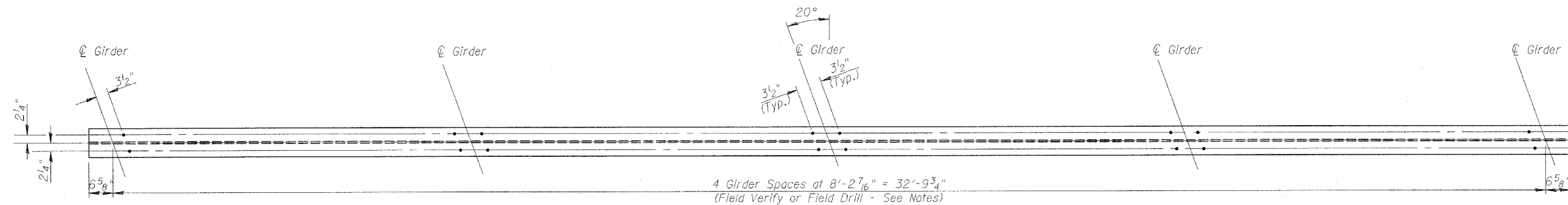


TOP VIEW
(Showing Diaphragm Top Flange)



ELEVATION



SECTION A-A
(Showing Diaphragm Bottom Flange)

NOTES:

Fasteners shall be high strength bolts.

Holes in top flange of Diaphragm for Stool connection shall be 15/16" ϕ , fasteners shall be 7/8" ϕ H.S. Bolts.

Holes in bottom flange of Diaphragm shall be 1" ϕ , fasteners shall be 7/8" ϕ H.S. Bolts. Two hardened washers shall be required.

Existing bolts shall not be reused.

Contractor has option of field verifying girder locations or field drilling 1" ϕ Holes in bottom flange after the diaphragm and finger joint assembly has been set.

The diaphragm and finger joint assembly shall be shop fabricated and shipped as an assembled unit.

Shim Plate Thickness "t" (in.)					
Girder #	1	2	3	4	5
Unit I	-	-	-	-	1/4
Unit II	1/2	5/8	1/2	-	-

Provide in addition to shims listed in table, one 1/4" normal shim, one 1/8" shim and one 1/16" shim for height adjustment at each beam. Cost included with Furnishing and Erecting Structural Steel.

ILLINOIS DEPARTMENT OF TRANSPORTATION

PIER 3 DIAPHRAGM DETAILS

OLD U.S. ROUTE 36 OVER

SANGAMON RIVER

F.A.U. ROUTE 7978

SECTION BR-1

SANGAMON COUNTY

STA. 70+00.00

STRUCTURE NUMBER 084-0052

DATE: JAN. 2005

DRAWN BY: NJV
CHECKED BY: PBB