

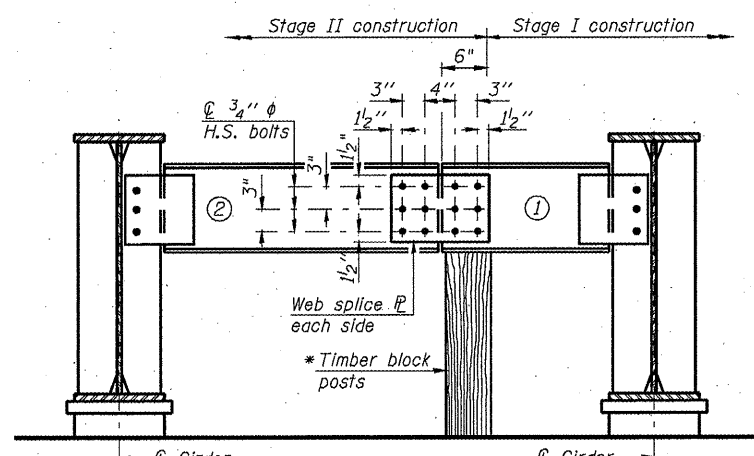
SECTION AT PIER

SECTION AT ABUTMENT

***TOP OF WEB ELEVATIONS**

Location	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6
CL Brg at Pier 3 Unit 2	510.996	511.123	511.225	511.225	511.123	510.996
CL Splice 1	512.000	512.126	512.229	512.229	512.126	512.000
CL Brg at Pier 4	512.402	512.528	512.631	512.631	512.528	512.402
CL Splice 2	512.801	512.927	513.030	513.030	512.927	512.801
CL Brg at W Abut	514.190	514.316	514.419	514.419	514.316	514.190

* For fabrication only



END CROSS FRAME AT STAGE CONSTRUCTION JOINT

(2 required)

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184-001397

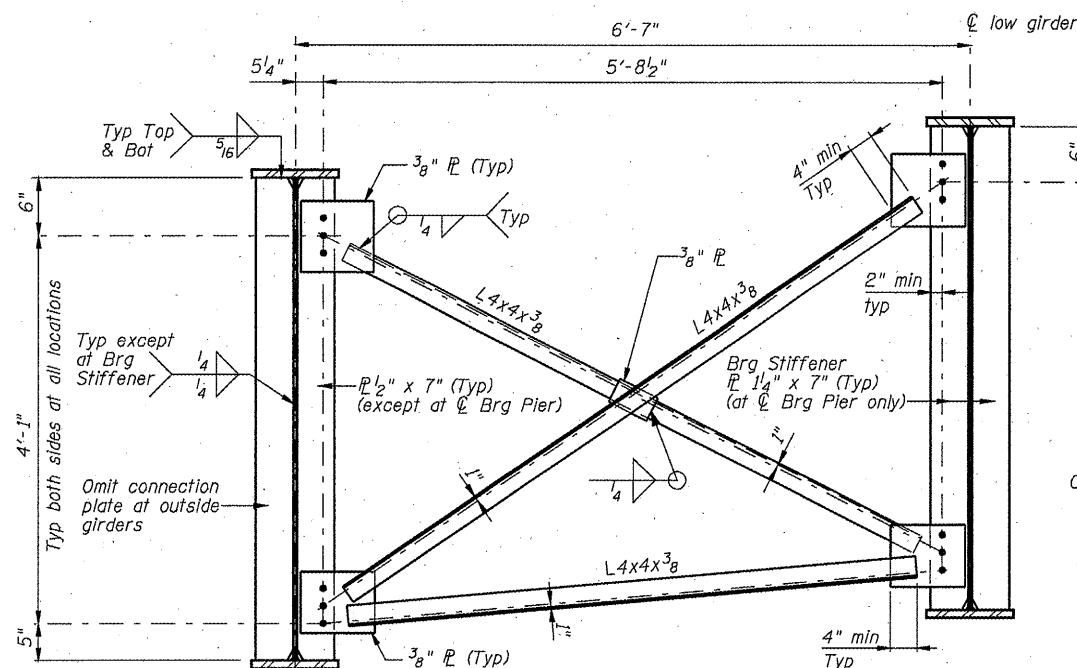
DESIGNED - J.M.B.
CHECKED - T.E.S.
DRAWN - R KING
CHECKED - J.M.B.

END CROSS FRAME STAGE CONSTRUCTION SEQUENCE

- 1.) Order top member in two sections.
- 2.) Attach section ① of top member to girder 3.
- 3.) Place timber block posts between section ① of top member and abutment bearing section.
- 4.) Attach section ② to both girder and section ① of top member during Stage II construction with splice plates.
- 5.) Remove timber block posts.
- 6.) Install lower portion of cross frame members.

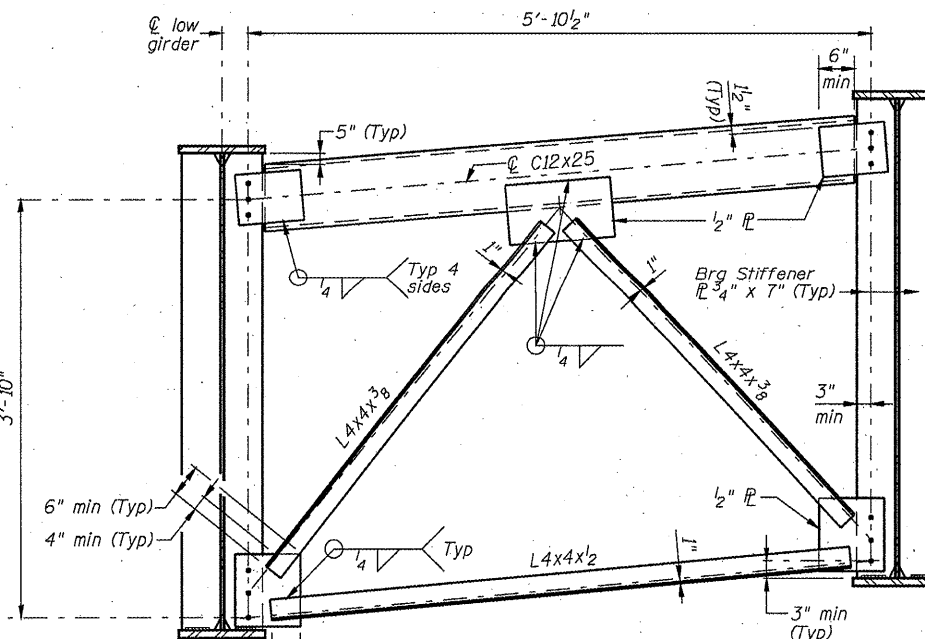
NOTE: Cross frame members not shown for clarity. See Typical End Cross Frame for details. Omit bearing side retainer at Girder 3 until timber block post is removed during Stage II Construction.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



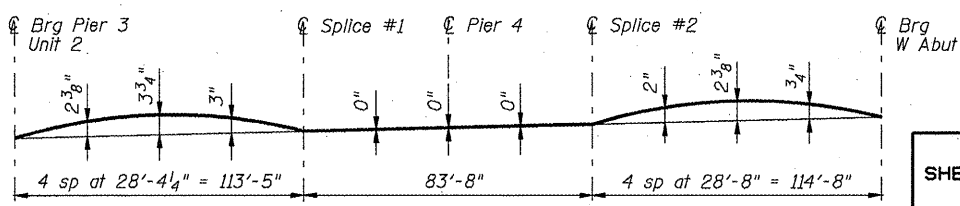
TYPICAL INTERIOR CROSS FRAME - CF-1

(At @ Brg. Pier 4 cross frame shall be connected to Bearing Stiffeners) (65 required)

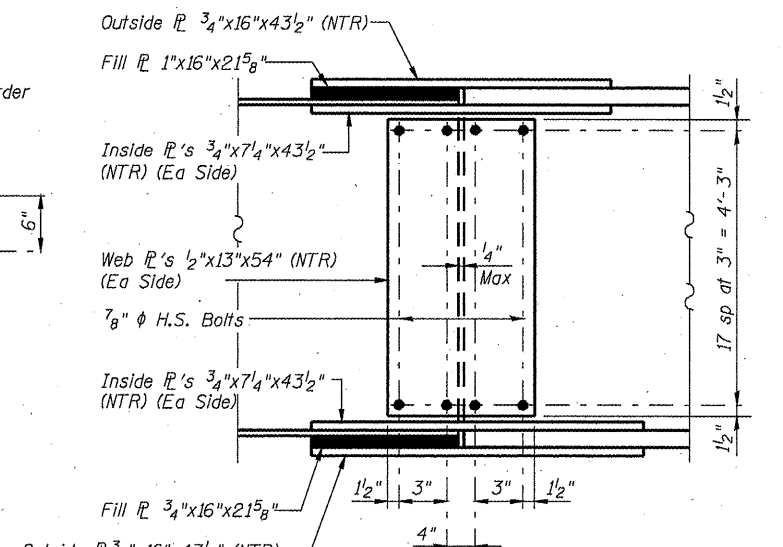


TYPICAL END CROSS FRAME - CF-2

(8 required)



CAMBER DIAGRAM



WEB FLANGE SPLICE PLATE

TOP & BOTTOM FLANGE SPLICE PLATE
FIELD SPLICE DETAILS

NOTES

All cross frames shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames at supports may be temporarily disconnected to install bearing anchor rods. Fasteners for field splices shall be 7/8" AASHTO M164 high-strength bolts in 1 5/16" dia holes.

Fasteners for cross frames shall be 3/4" AASHTO M164 high-strength bolts in 1 5/16" dia holes.

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

Two hardened washers shall be required over all oversized holes.

Place diaphragm with channel flange and outstanding angle legs outward from abutment backwall.

For interior cross frames, connection plates and corresponding full depth connection plates at staged construction line, use slotted 1 3/16" x 1 1/8" holes at one end of bracing and 1 5/16" phi oversized holes at other end. Fabricator to detail to allow at least 2 1/2" of vertical movement. Bolts shall be finger tight until Stage II pour is complete.

**FRAMING DETAILS - UNIT 2
STRUCTURE NUMBER 059-0510**

SHEET NO. 27 OF 51 SHEETS	F.A.P. RTE. 761	SECTION 107B-2	COUNTY MACOUPIN	TOTAL SHEETS 98	SHEET NO. 57
	FAP ROUTE 761 (IL RT 108)		CONTRACT NO. 72A94		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			