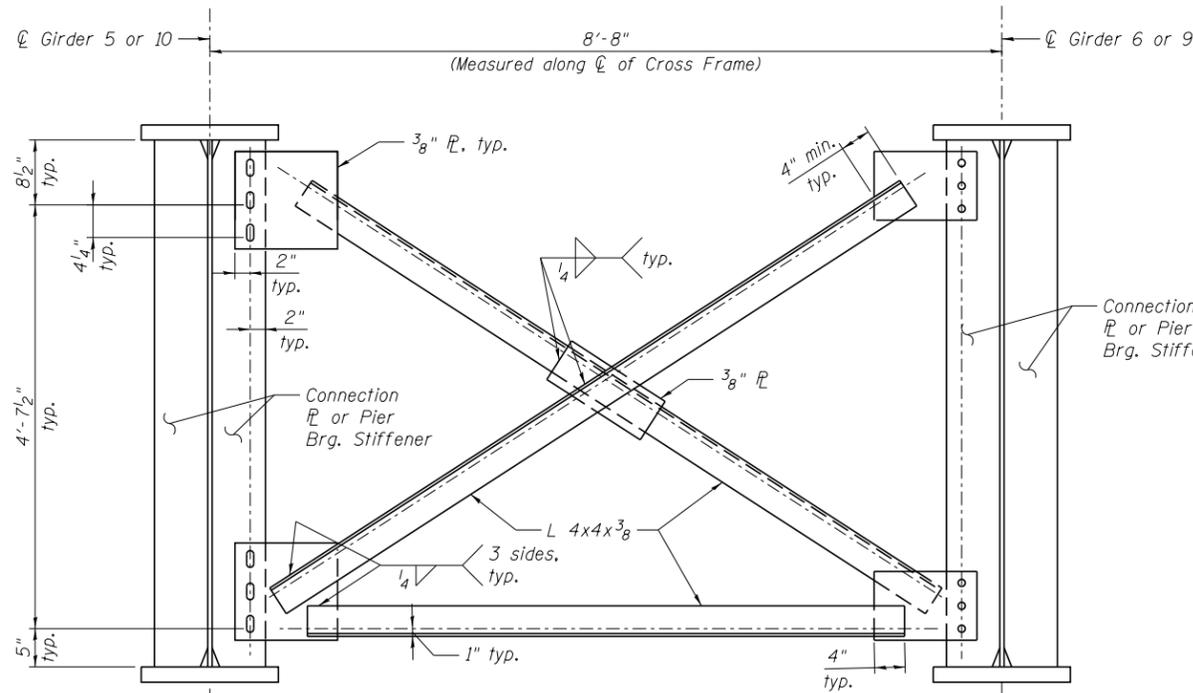


**INTERIOR CROSS FRAME CF1**

(No. cross frames required = 165)

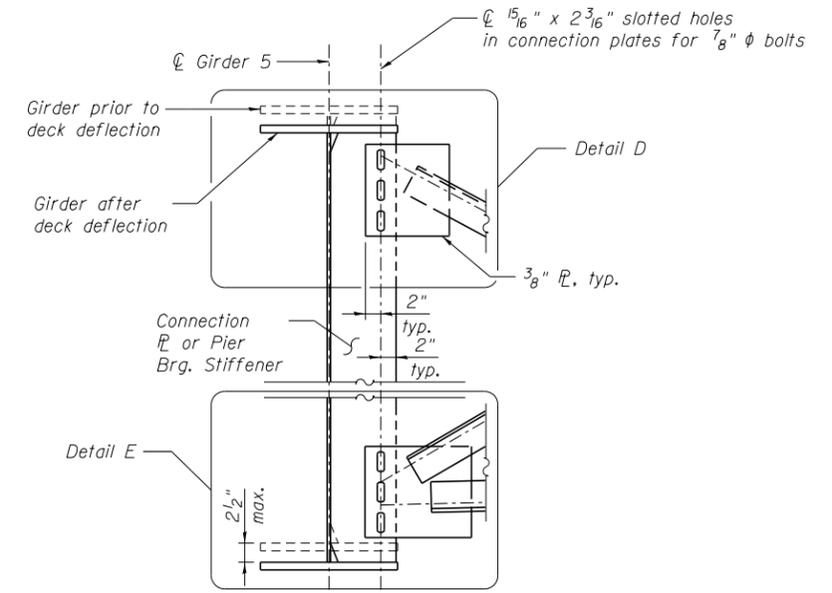


**INTERIOR CROSS FRAME CF2**

(No. cross frames required = 30)

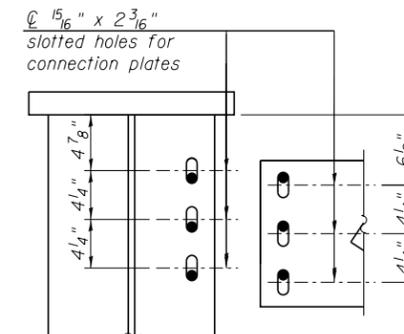
**NOTES:**

- 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.
- Two hardened washers required for each set of oversized holes.
- Bolts in slots shall be finger tight until the second stage pour is complete. Position slots so bolts start at one end with no concrete load and fish near the opposite end under deck load.

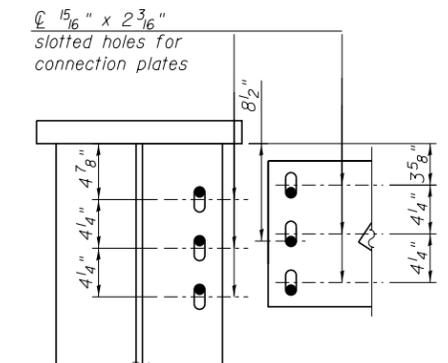


**CROSS FRAME CF2 DETAIL AT STAGE CONSTRUCTION**

(Girders 5 shown looking upstation, Girder 10 opposite hand)  
(Detail shown at maximum deflection location)



**PRIOR TO DECK DEFLECTION**  
(steel weight only)

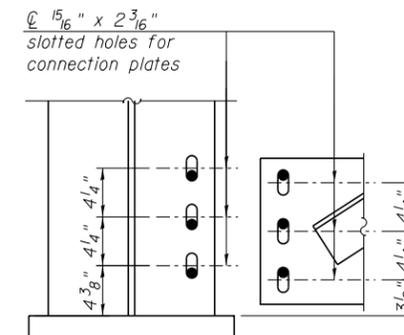


**AFTER DECK DEFLECTION**

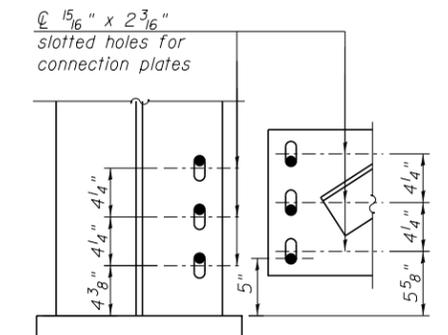
**DETAIL D**

(Connection plates shown disconnected for clarity)

- Indicates bolt location
- Indicates slotted hole



**PRIOR TO DECK DEFLECTION**  
(steel weight only)



**AFTER DECK DEFLECTION**

**DETAIL E**

(Connection plates shown disconnected for clarity)



Alfred Benesch & Company  
205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-565-0450 Job No. 10056

FILE NAME =	USER NAME = mbecker	DESIGNED - JLS/DTS	REVISED -
0900169.68620.31.std12.dgn		CHECKED - MRB	REVISED -
	PLOT SCALE =	DRAWN - PRT	REVISED -
	PLOT DATE = 8/20/2012	CHECKED - MRB	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GIRDER DETAILS 2 OF 4  
STRUCTURE NO. 090-0169**

SHEET NO. SC31 OF SC63 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-[14R;14HB-4,14,14HV;14BR]	TAZEWELL	2433	2007
CONTRACT NO. 68620				
ILLINOIS FED. AID PROJECT				