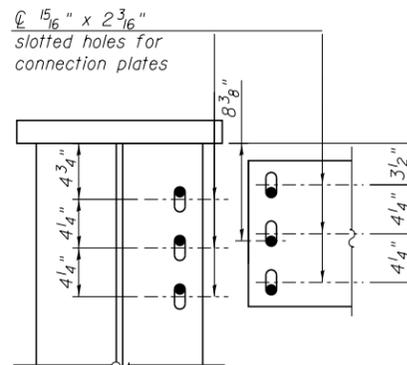


PRIOR TO DECK DEFLECTION  
(steel weight only)

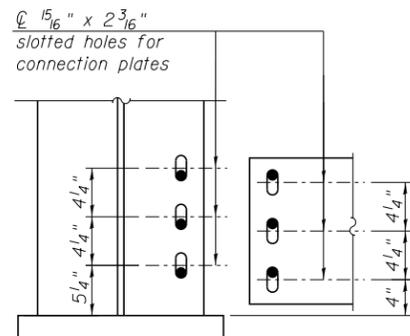


AFTER DECK DEFLECTION

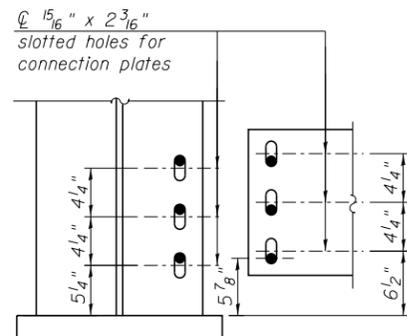
● Indicates bolt location  
○ Indicates slotted hole

**DETAIL J**

(Connection plates shown disconnected for clarity)



PRIOR TO DECK DEFLECTION  
(steel weight only)



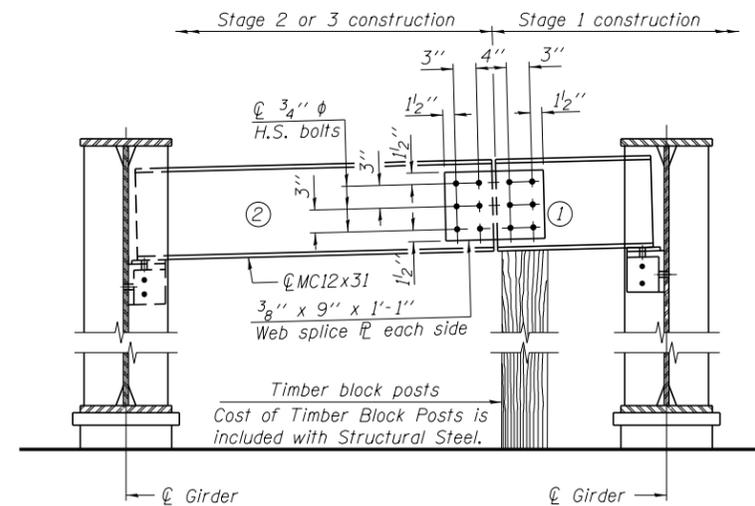
AFTER DECK DEFLECTION

**DETAIL K**

(Connection plates shown disconnected for clarity)

**NOTE:**

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 finish near the opposite end under deck load.

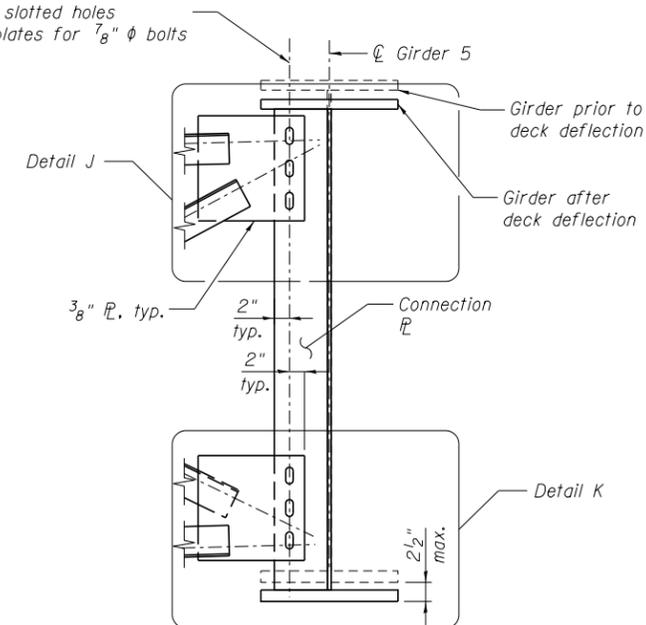


**END DIAPHRAGM**

**END DIAPHRAGM STAGE CONSTRUCTION SEQUENCE**

1. Order diaphragm in two sections.
2. Attach section ① of diaphragm to girder.
3. Place timber block posts between section ① of diaphragm and abutment bearing section.
4. Attach section ② of diaphragm to both girder and section ① of diaphragm during stage 2 or 3 construction with splice plates.
5. Remove timber block posts.

① 15/16" x 2 3/16" slotted holes in connection plates for 7/8" φ bolts



**CROSS FRAME DETAIL AT STAGE CONSTRUCTION**

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



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

FILE NAME =	0900167.68620.27.std3.dgn
USER NAME =	mbecker
PLOT SCALE =	
PLOT DATE =	7/16/2012

DESIGNED -	MFB	REVISED -	
CHECKED -	MRB	REVISED -	
DRAWN -	PRT	REVISED -	
CHECKED -	MRB	REVISED -	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GIRDER DETAILS 3 OF 4  
STRUCTURE NO. 090-0167

SHEET NO. SB27 OF SB65 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-[14R;(14HB-4,14,14HVB)BR]	TAZEWELL	2433	1938
CONTRACT NO. 68620				

ILLINOIS FED. AID PROJECT