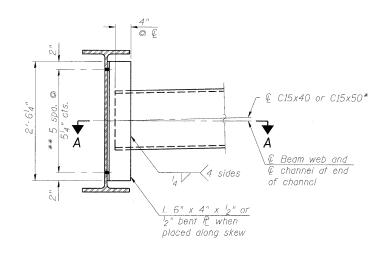
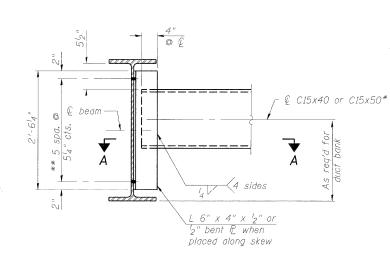


SECTION A-A



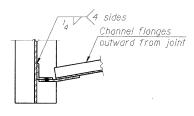
INTERIOR DIAPHRAGM - D1

(Between beams 2 thru 10)

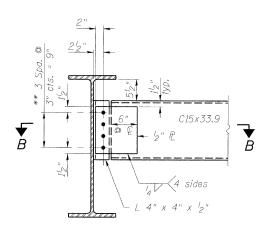


INTERIOR DIAPHRAGM - D2

(Between beams 1 and 2, 10 and 11)



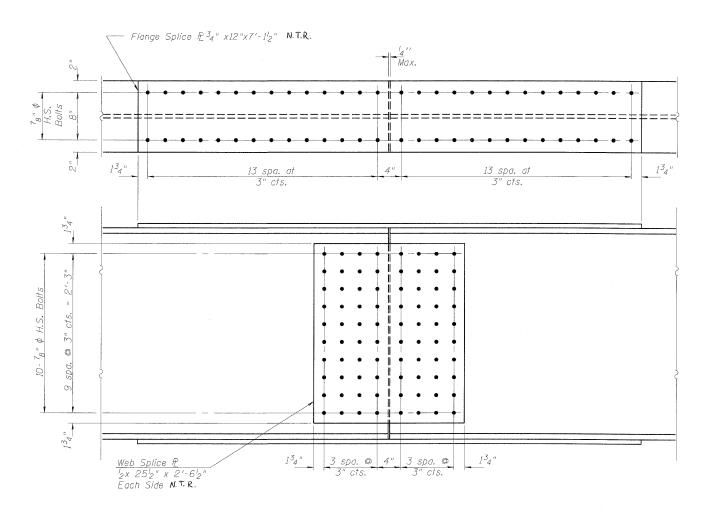
SECTION B-B



END DIAPHRAGM

NOTES:

- All structural steel for diaphragms shall be AASHTO M270 Grade 36.
- Two hardened washers required for each set of oversized holes,
- All new structural steel shall be hot dip galvanized in accordance with the Special Provision for "Hot Dip Galvanizing for Structural Steel."
- Cost of Timber Block Posts is included with Structural Steel.
- * Alternate channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.
- ** ³4" ¢ HS bolts, ¹⁵16" ¢ holes
- ** At Beam 6 only: 3_4 " ϕ H.S. bolts, ${}^{13}_{16}$ " \times 1^{7}_8 " slotted holes in beam web and connection angles. Position slots so bolt is at the top end of the near diaphragm connection angle slot and bottom end of the associated slot in the beam web and far diaphragm connection angle. This will allow maximum vertical displacement without laterally stressing the beam. Provide appropriate plate washers for each slotted hole. Slotted holes not required for end diaphragms.



FIELD SPLICE DETAIL

Stage II construction Stage I construction (1)C15x33.9 50 Web splice ₽ Timber block posts each side (see notes) <mark>——</mark> € Веат Beam →

END DIAPHRAGM

END DIAPHRAGM STAGE CONSTRUCTION SEQUENCE

- 1.) Order Diaphragm in two sections.
 2.) Attach section (1) of Diaphragm to Beam.
 3.) Place Timber Block Posts between section (1) of diaphragm and
- abutment bearing section.

 4.) Attach section ② of diaphragm to both Beam and section ① of diaphragm during Stage II Construction with splice plates.
- 5.) Remove Timber Block Posts.

FILE NAME = Ø161Ø64-SA18-STL2.dgn		DESIGNED - JRW	REVISED -		STRUCTURAL STEEL DETAILS II		F.A.P.	SECTION	COUNTY TOTAL SHEET	
		DRAWN - JRW REVISED - STATE OF II	STATE OF ILLINOIS	F.A.P. 392 FRANKLIN CONNECTOR (AT 26th STREET)			392	1717-2-3B-R	COOK 114 65	
JACOBS		CHECKED - MBC	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 016-1064			CONTRACT NO. 62197		
	PLOT DATE = 1/12/2009	DATE - 1/13/09	REVISED -		SCALE: NTS	SHEET NO. SAIR OF SA31 SHEETS	STA. 11+81.01			AID PROJECT