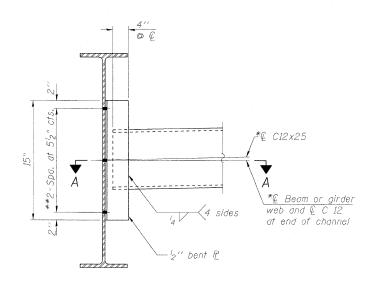
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



INTERIOR DIAPHRAGM

Note:

CHECKED JMH

DRAWN DR

CHECKED JMH

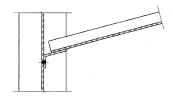
Two hardened washers required for each set of oversized holes.

*C12x30 are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.

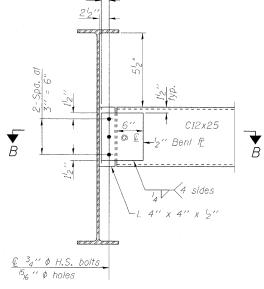
The alternate, if utilized, shall be provided at no additional cost to the Department.

** $^{3}_{4}$ " ϕ HS bolts, $^{15}_{16}$ " ϕ holes

The interior diaphrams below the stage construction line (between beam numbers 6 and 7) require standard long slotted holes ($^{13}_{16}$ " x $^{17}_{8}$ ") in one connection angle. The bolts in the long 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. All holes shall have appropriate hardened or plate washers.



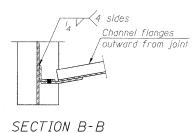
SECTION A-A



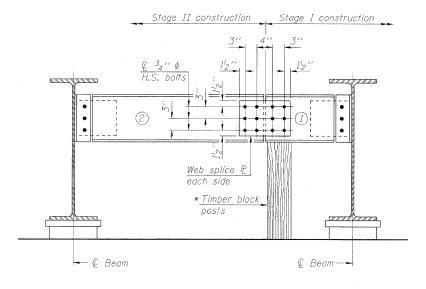
END DIAPHRAGM

Note:

Two hardened washers required for each set of oversized holes.



* Cost of Timber Block Posts is included with Structural Steel.



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.

Note:

All structural steel for diaphragms, connecting plates/angles shall be AASHTO M270 Grade 50W.
All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor

STEEL DETAILS STRUCTURE NO. 016-0581

COLLINS 123 N. WACKER DR., SUITE 300 CHICAGO, IL 60606 ENGINEERS 2 (312) 704-9300 ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993

R., SHEET NO. S18 OF S27 SHEETS

F.A.P. SECTION COUNTY TOTAL SHEETS NO.

339 116-Y-2-BR-1 COOK 74 38

CONTRACT NO. 60J00