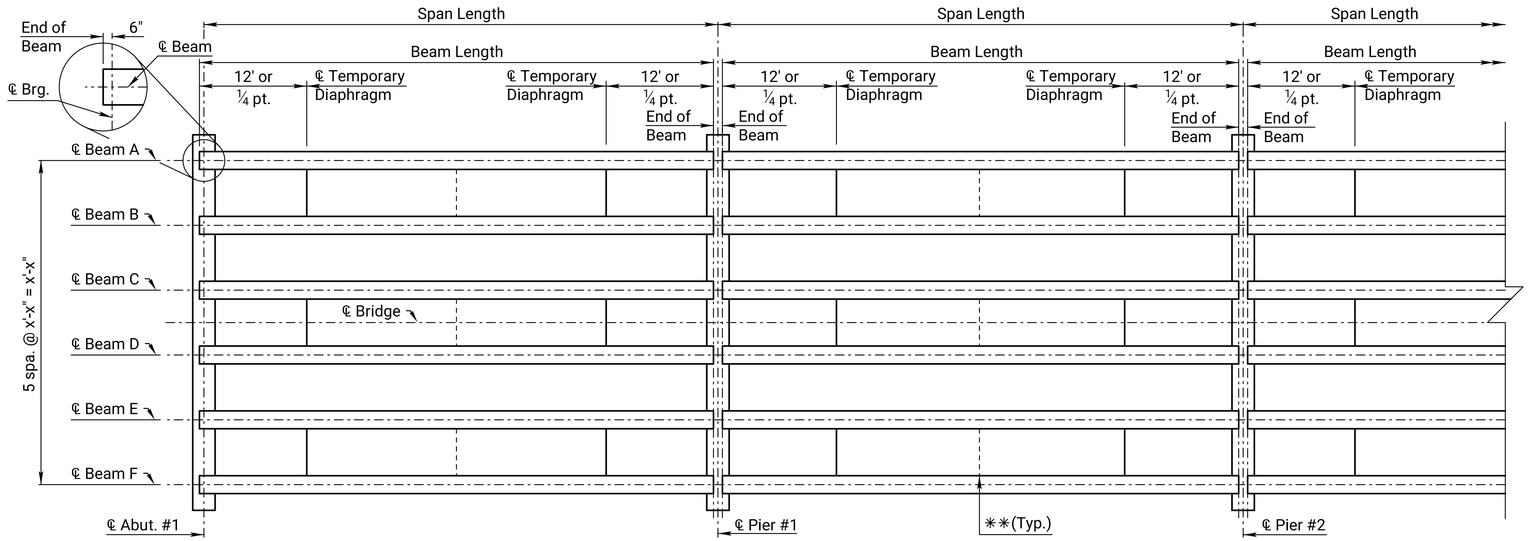
STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	0	0	0	0

Purple color text/dimension/details are designer information to be adapted for each structure. Remove/modify as needed.

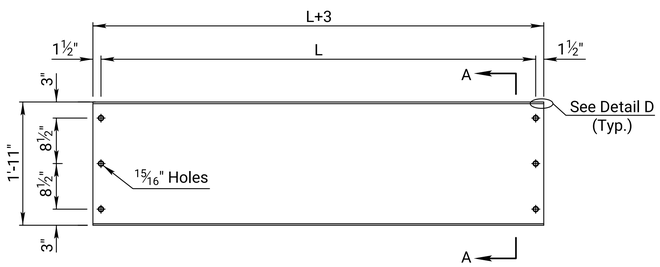
X's to be filled in by the designer



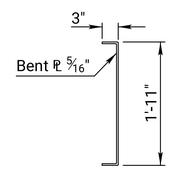
FRAMING PLAN

TEMPORARY DIAPHRAGMS: Use ASTM A709 Gr. 36 steel for all angles and bent plates for temporary diaphragms. All bolts, nuts, and washers for fasteners shall conform to the heavy hex structural requirements of ASTM F3125 Gr. A325, Type 1. Galvanize the angles, bolts, nuts, and washers in accordance with the KDOT Specifications. Use hardened steel washers over any oversized holes. Use 5/16" plate washers over any slotted holes along with hardened washers under the turned elements. Use the turn-of-the-nut tightening method. DTI's are not required. Install the temporary diaphragms, as shown in the details, prior to placing any superstructure concrete. Leave the temporary diaphragms in place until the concrete diaphragms and deck have cured. Remove the angles from the beams and fill the holes in the prestressed beams with an approved epoxy grout. The bent plate diaphragms, angles, nuts, bolts, and washers shall remain the property of the Contractor. Submit shop drawings of the temporary diaphragms to the KDOT Bridge Section for review and approval. The material, equipment, and labor necessary for the installation of the temporary diaphragms, including filling the bolt holes, shall not be paid for directly, but shall be subsidiary to the bid item "Prestressed Concrete Beams."

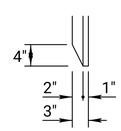
✳✳TEMPORARY DIAPHRAGM SPAN REQUIREMENT	
SPAN	REQUIRED
≤ 80 ft.	1st & 3rd Quarter Points
80 - 120 ft.	All Quarter Points
≥ 120 ft.	Special Design



TEMPORARY DIAPHRAGM
(or equivalent)

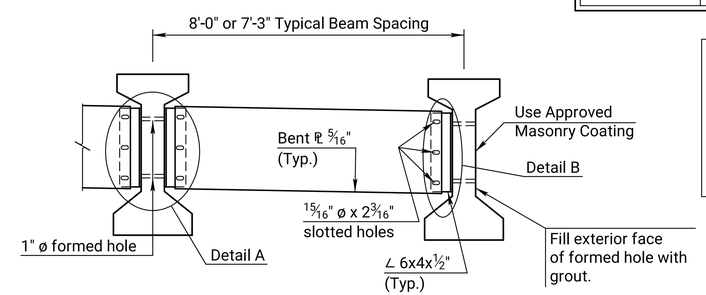


SECTION A-A

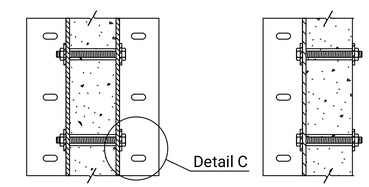


DETAIL D

Note: It is intended that all bays have temp. diaphragms, however, as shown above, bridges with even numbers of beams may have diaphragms in every other bay with beams connected in pairs. Open holes are preferred and shown here, coil inserts may be used for heavily skewed or splayed beams.

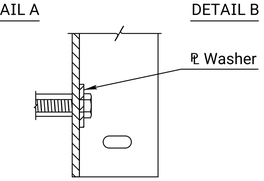


ELEVATION OF TEMPORARY DIAPHRAGMS

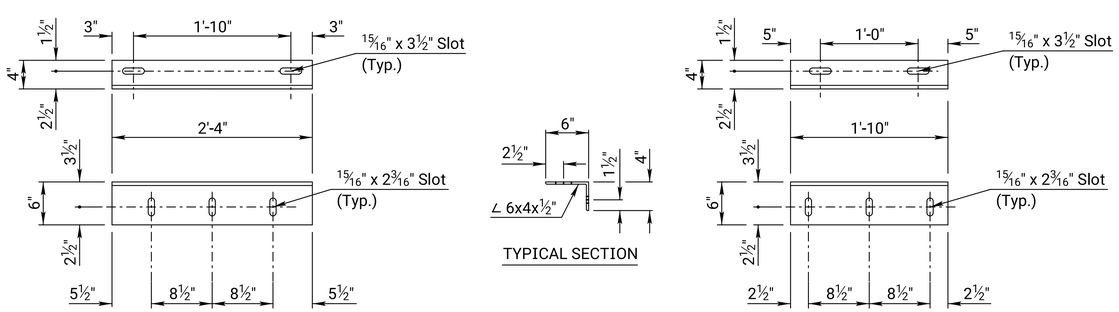


DETAIL A

DETAIL B



DETAIL C



TYPICAL SECTION

2'-4" CONNECTION ANGLE
(– each Req'd.)
(Weight = 37.8 Lb. each)

1'-10" CONNECTION ANGLE
(– each Req'd.)
(Weight = 29.7 Lb. each)

CONNECTION ANGLE DETAILS
(or equivalent)

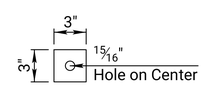
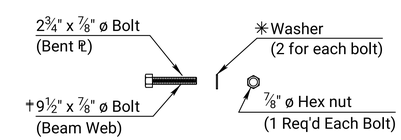


PLATE WASHER



✳ Plate washers required for slotted holes.
† Verify per beam type.

FASTENER DETAILS

NO.	DATE	REVISIONS	BY	APP'D
04	01-27-22	Temporary Diaphragm table update	M.L.L.	M.A.H.
03	02-05-19	Galvanizing clarification	M.L.L.	J.P.J.
02	08-16-18	Update Temporary Diaphragm note	M.L.L.	J.P.J.

KANSAS DEPARTMENT OF TRANSPORTATION

Br. No. Sta.

TEMPORARY DIAPHRAGM DETAILS

Proj. 0 Co.

DESIGNED	DETAILED J.P.J.	QUANTITIES	CADD R.A.A.
DESIGN CK.	DETAIL CK.	QUAN.CK.	CADD CK.

KDOT Graphics Certified 08-10-2022 Sh. No. 0

KDOT Graphics Certified

Plotted by : pwmushock 31-AUG-2022 04:29
File : br305.dgn