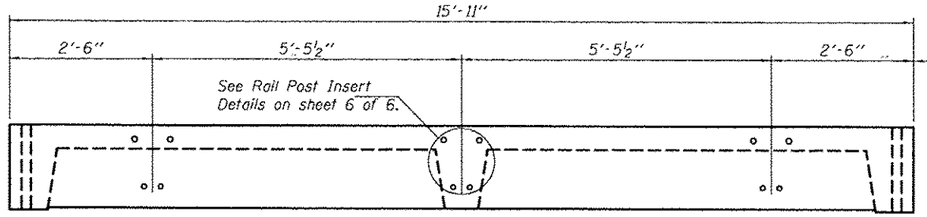
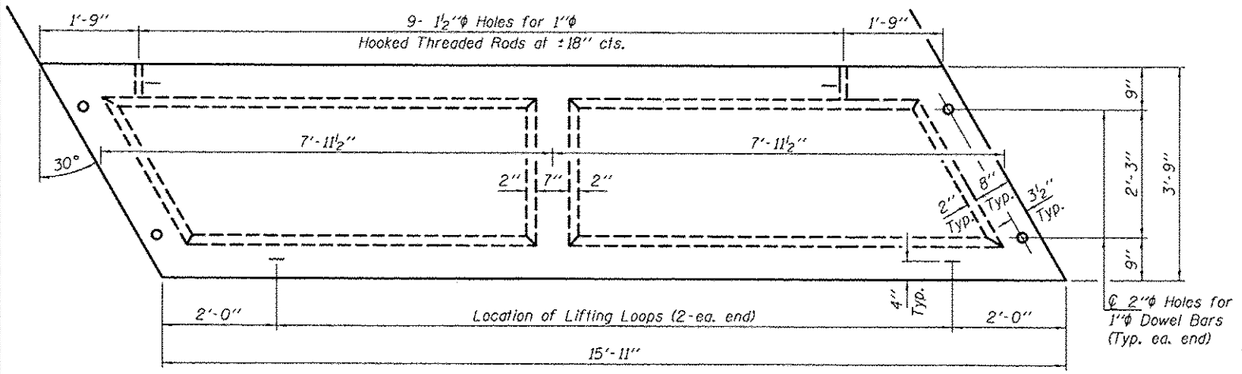
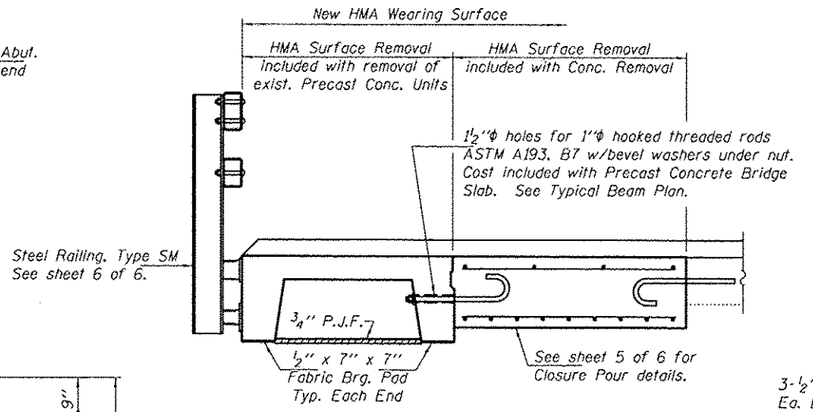


ELEVATION

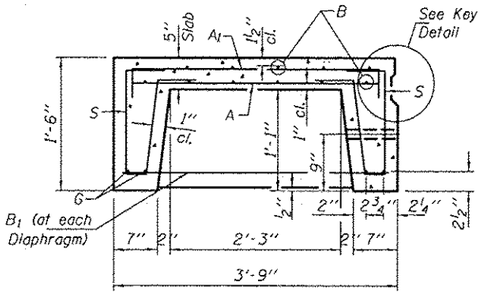
Showing rail post spacing



TYPICAL BEAM PLAN

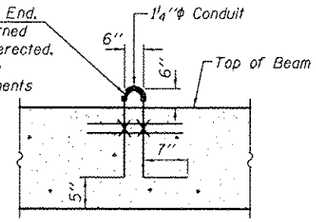


PARTIAL CROSS-SECTION



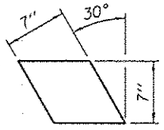
TYPICAL SECTION THRU BEAM

3-½"ϕ Strands/Loop, 2 Ea. End. Ea. Beam. Loop shall be burned off after beams have been erected. Strands shall conform to the requirements to the requirements of AASHTO M 203.



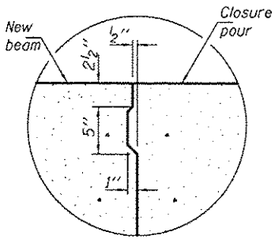
LIFTING LOOP

Approved alternate may be substituted for the above.

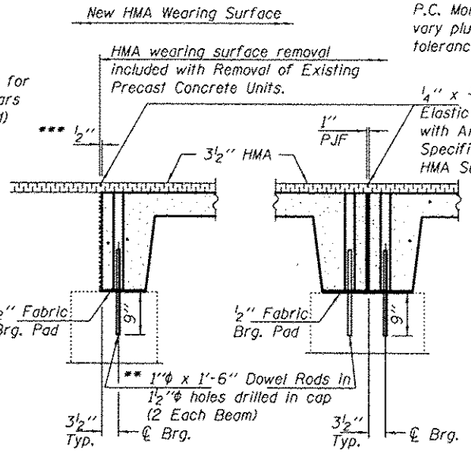


FABRIC BRG. PAD

½" Fabric Pads (4 Req'd. per beam)



KEY DETAIL



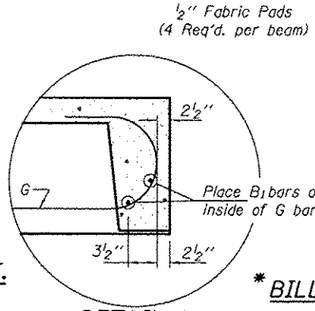
SECTION THRU APPR. CAP

(At Rt. Ls)

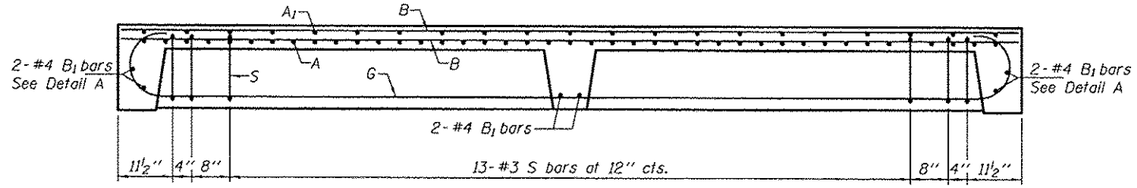
SECTION THRU ABUT.

(At Rt. Ls)

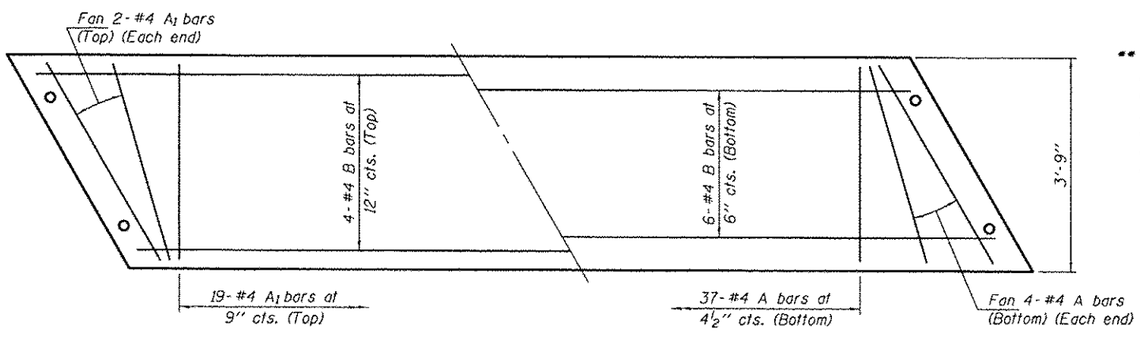
*** ½" joint shall be packed with a very dry mix of 2:1 sand and P.C. Mortar. ½" dimension may vary plus or minus to accommodate tolerance in beam lengths.



DETAIL A

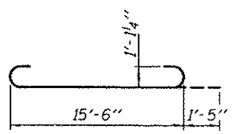


LONGITUDINAL SECTION

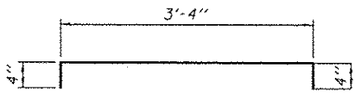


SLAB REINFORCEMENT

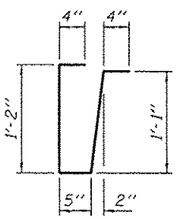
** Existing dowel rods are to be burned off, ground flush, and sealed with epoxy prior to placement of new beams. Cost included in Removal of Existing Precast Concrete Units. After beams have been erected holes shall be drilled into cap and dowel rods placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a minimum of 24 hours prior to grouting the shear keys.



BAR G



BAR A1



BAR S

Note:
Tack welding of stirrups to bottom longitudinal reinforcement bars will not be permitted except as otherwise authorized in writing by the Engineer.

Note:
The surface of the member shall not deviate more than 1/1200 of the full length of the member from a straight line connecting the two end points on the member's surface. (See Special Provision Precast Concrete Structures)

* BILL OF REINFORCEMENT BARS FOR ONE BEAM

Bar	No.	Size	Length	Shape
A	45	#4	3'-3"	
A1	23	#4	4'-0"	
B	10	#4	15'-5"	
B1	6	#4	4'-1"	
G	4	#10	18'-4"	
S	34	#3	3'-4"	

* ESTIMATED QUANTITIES FOR ONE BEAM

	CONCRETE CU. YDS.	RE-BARS POUNDS
One Unit	2.1	640

* For information of suppliers of Precast Slab Units only.

DESIGNED - VHV	EXAMINED	Timothy A. Bradley	DATE - JANUARY 31, 2013	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	APPROACH BEAM DETAILS SN 060-0246		
CHECKED - DAB		ACTING ENGINEER OF STRUCTURAL SERVICES					
DRAWN - Kyle M. Steffen	PASSED	R. Carl Knopp			SHEET NO. 3 OF 6 SHEETS		
CHECKED - VHV DAB		ACTING ENGINEER OF BRIDGES AND STRUCTURES					

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
775	(54, 58, 68)RS-4	MADISON	44	36
		CONTRACT NO. 76F27		
	ILLINOIS	FED. AID PROJECT		