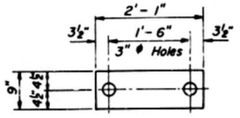
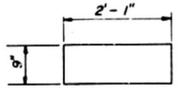
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
... 22	48B-1	KNOX	8	6

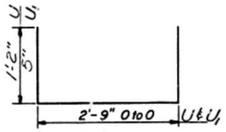
SHEET NO. 6
7 SHEETS



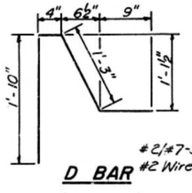
FABRIC BEARING PAD



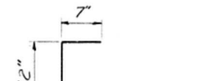
GRAPHITED ASBESTOS BEARING PAD



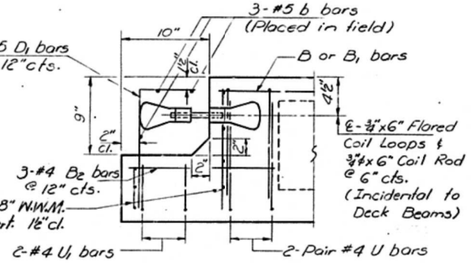
U & U1 BAR



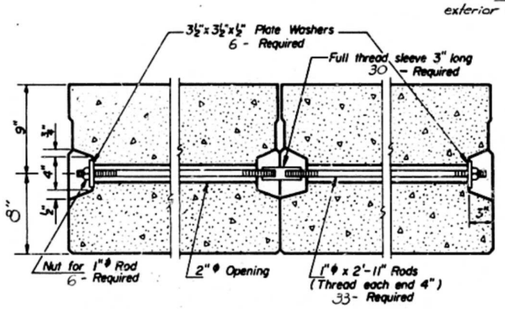
D BAR



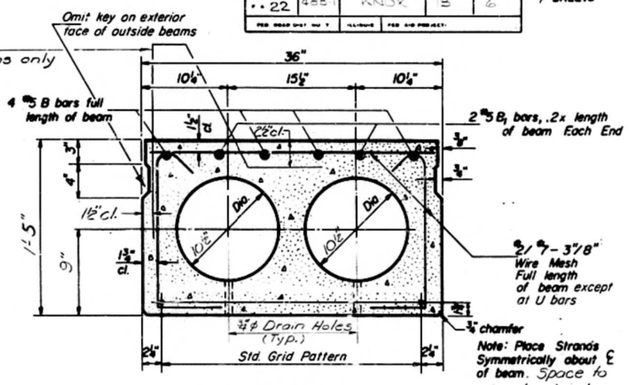
BAR D



END OF BEAM DETAIL
(Expansion End)

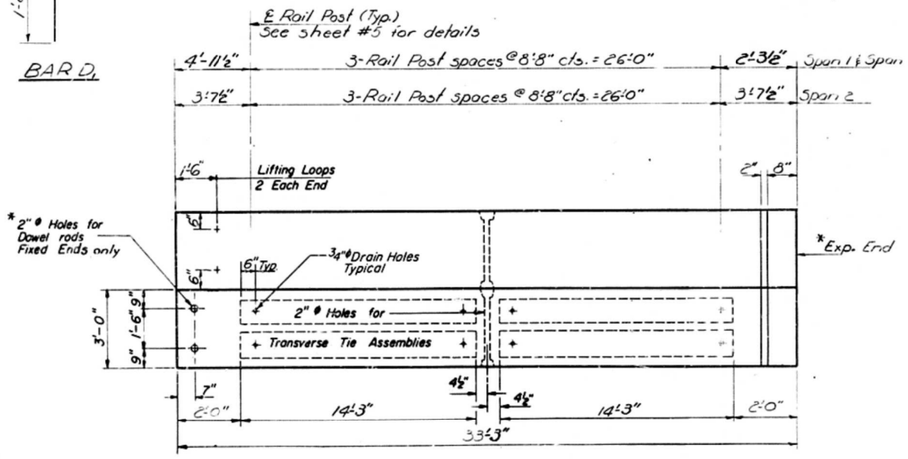


TYPICAL TRANSVERSE TIE ASSEMBLY



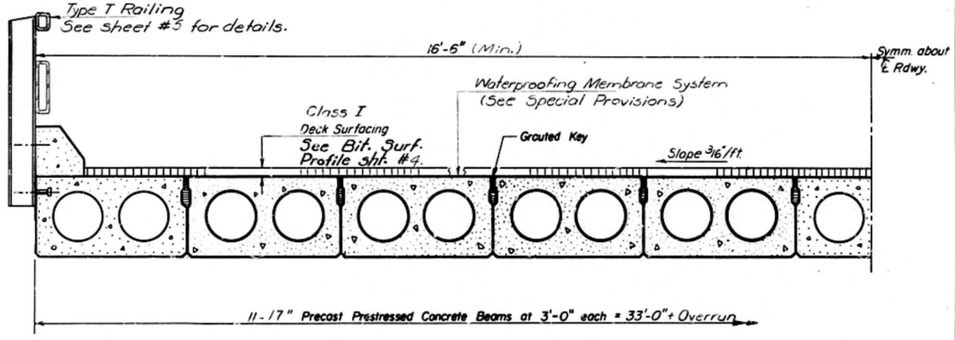
TYPICAL SECTION

7/16" ϕ Strands Each Strand Stressed to 21,700 lbs.
10-3 strands 1⅜" rip

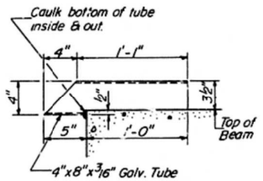


PLAN

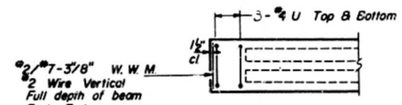
* For locations of fixed and expansion ends see sheet #4.



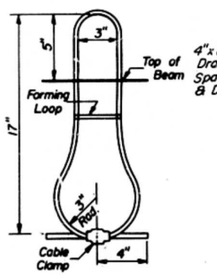
HALF CROSS SECTION



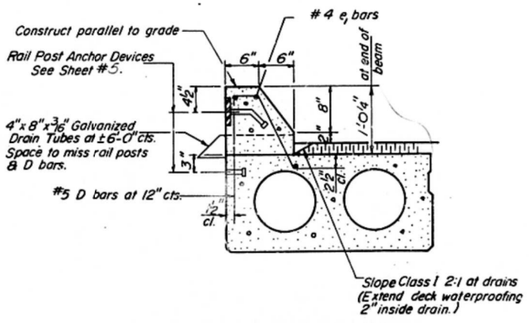
DRAIN DETAIL
(Cost Incidental)



END PLAN
(Fixed End)



LIFTING LOOP DETAIL



SECTION THRU CURB

Curbs shall be poured in the field. Class X Concrete & e, bars for curbs are billed on Sheet #5.

GENERAL NOTES

Prestressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand, Grade 270. The nominal diameter shall be 7/16" and the nominal cross-sectional area shall be 0.115 sq. in.. Lifting loops shall be ½" diameter, 6x25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 21,000 lbs.

The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside beam shall be filled with grout after transverse tie assembly is in place.

Longitudinal shear keys shall be packed with a very dry mix of 2:1 sand and P.C. mortar.

After beams have been erected, holes for the dowel anchors shall be drilled into the sub-structure, and the anchor dowels shall be grouted in place.

Dowel rods shall be A.S.T.M. A-306 or A.S.T.M. A-615. Transverse tie rods shall be A.S.T.M. A-306, Grade 70-80.

After fabrication the transverse tie assemblies (tie rods, nuts, washers and sleeves) shall be hot-dipped galvanized in accordance with A.S.T.M. Designation: A153.

Cost of reinforcement and accessories cast into the beam, of bearing pads, of dowel rods, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams."

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b	6	#5	32'-9"	
Precast Prestressed Concrete Deck Beams			Sq. Ft.	3292
Class X Concrete			Cu. Yd.	1.5
Reinforcement Bars			Pound	200

DESIGNED	John A. Morris	EXAMINED	March 4 1975
CHECKED	for Edwards	PASSED	
DRAWN	R. Doty	APPROVED	
CHECKED	A.M. J.A.M.		DIRECTOR OF HIGHWAYS

SUPERSTRUCTURE
S.B.I. RT. 8 SEC. 48B-I
KNOX COUNTY
STA. 1441+00.00

W-SR-1 (11-15-71)

FILE NAME p:\plan\com.dot.illinois.gov\PWIDOT\Documents\IDOT Offices\District 4\Projects\04-68758\CADData\CADSheets\IL78 Structural - IDOT Copies\For info only.dgn

CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS 184-001397	USER NAME = jacobsmr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FOR INFORMATION ONLY
	PLOT TIME = 4:53:26 PM	CHECKED -	REVISED -		SHEET NO. 24 OF 24 SHEETS
	PLOT SCALE = 2.0000 ' / in.	DRAWN -	REVISED -		
	PLOT DATE = 5/9/2019	CHECKED -	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	48[(B-1)BR;CR]	KNOX	94	52
		CONTRACT NO. 68758		
	ILLINOIS FED. AID PROJECT			