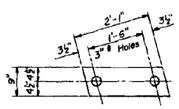
CONTRACT NO. 66647

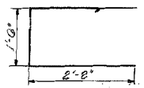
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	123-BR-1	IROQUOIS	39	28
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 5
9 SHEETS

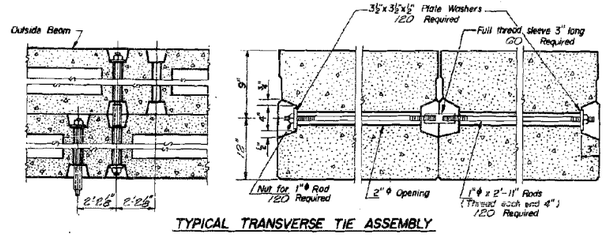


FABRIC BEARING PAD

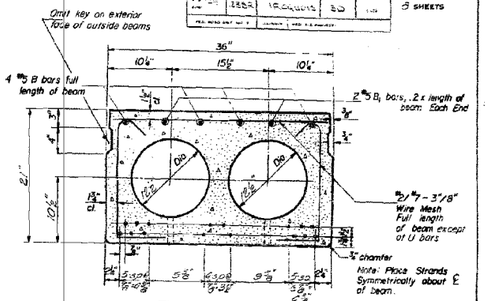


U, BAR

GRAPHITED ASBESTOS BEARING PAD

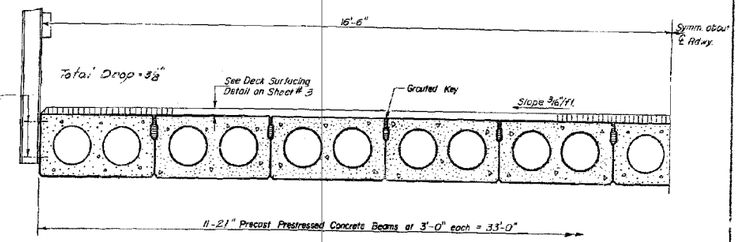


TYPICAL TRANSVERSE TIE ASSEMBLY

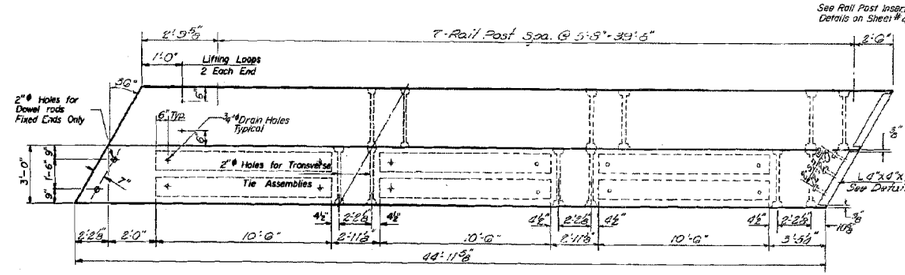


TYPICAL SECTION

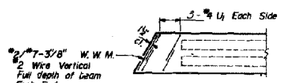
16 - ⅞" ø Strands Each Strand Stressed to 31,700 lbs.
3 Strands 1¾" up 3 Strands 3¼" up



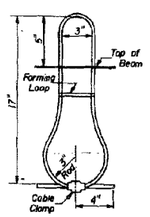
HALF CROSS SECTION



PLAN



END PLAN



LIFTING LOOP DETAIL
(4 Req'd Ea. Brm.)

DESIGNED D.A.R.
CHECKED J.M. Patel
DRAWN J.JOANNELLER
CHECKED J.M.P.
EXAMINED Dec 14 1972
PASSED
APPROVED

PD-1-L 11-19-65 Rev 5-20-68

SR-2 (5-15-71)

GENERAL NOTES

Prestressing steel shall be non-galvanized extra high strength, stress-relieved 7 wire strand. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.109 sq. in..

Lifting loops shall be ⅝" diameter, 6 x 19 Class wire rope with fiber core and shall have a minimum ultimate tensile strength of 29,000 lbs.

The 1" ø 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 70-95.

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 armor angles, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams."

BILL OF MATERIAL

Precast Prestressed Concrete Deck Beams	Sq. Ft.	2968	

SUPERSTRUCTURE
S.B.I. RT 49 SEC. 123 BR
IROQUOIS COUNTY
STA. 1357+76.0

ESCA CONSULTANTS, INC.

DESIGNED BY:	MTD	08/06
DRAWN BY:	HAG	08/06
CHECKED BY:	ELH	08/06
APPROVED BY:	RDP	08/06

FOR INFORMATION ONLY

EXISTING STRUCTURE PLANS
FAP RTE 840 (IL 49)
SECTION 123-BR-1
IROQUOIS COUNTY