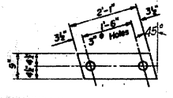
CONTRACT NO. 76949

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1832	5BR-2	WASHINGTON	97	84
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

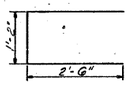
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

16	FAS 1832 SBR-2	WASHINGTON	20	14

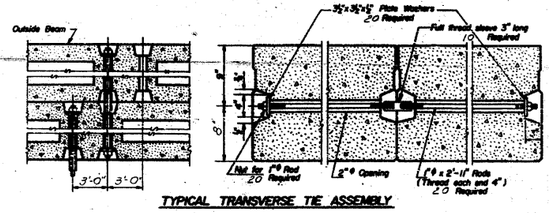
SHEET NO. 2
3 SHEETS



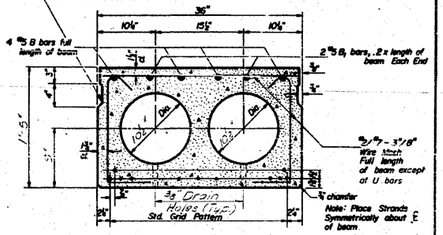
FABRIC BEARING PAD



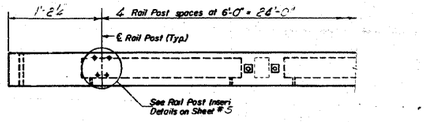
U₁ BAR



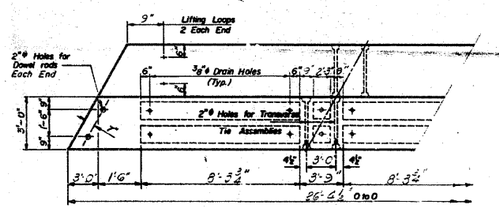
TYPICAL TRANSVERSE TIE ASSEMBLY



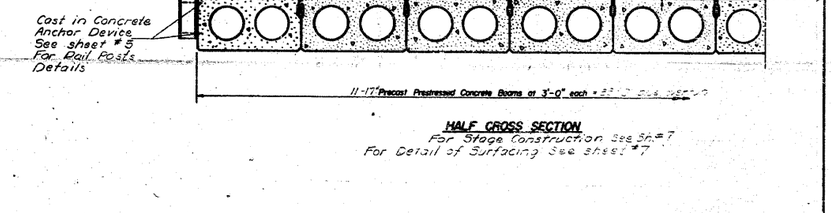
TYPICAL SECTION
11 - ½" ϕ Strands Each Strand Stressed to 18,900 lbs.
9 Strands 15½" up 2 Strands 3½" up



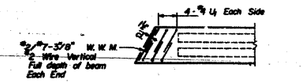
ELEVATION



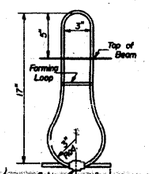
PARTIAL PLAN



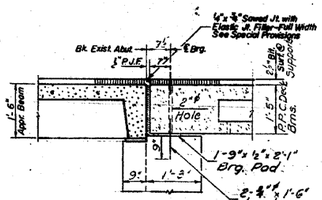
HALF CROSS SECTION
For Stage Construction See Sh. #7
For Detail of Surfacing See sheet #7



END PLAN



LIFTING LOOP DETAIL



SECTION AT ABUTS

GENERAL NOTES

Prestressing steel shall be non-galvanized 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 ¾" diameter 6x19 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 18,700 lbs.
The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads not. 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 dowel anchors shall be drilled into sub-structure Dowel bars shall be grouted in place.

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

BILL OF MATERIAL

Precast Prestressed Concrete Deck Beams	Sq. Ft.	870
Removal of Existing Superstructure	Each	1

SUPERSTRUCTURE

F.A. RT. 16 SEC. 5BR
WASHINGTON COUNTY
STATION 1510+80

DESIGNED	W. Henry
CHECKED	P.M.
DRAWN - JAMES R. CARMEN	
CHECKED	W.H.

EXAMINED — March 24, 1971
PASSED — Director
Patrick J. Quinn

PO-1-L 11-18-69

SR-8 17' or 21" P.R.C. Dk. Bms.

S.N. 095-0078

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS

FAS ROUTE 1832
SECTION 5BR-2
WASHINGTON COUNTY

SCALE: VERT. HORIZ.
DRAWN BY
DATE
CHECKED BY

FOR INFORMATION ONLY

PLOT DATE = 11/29/2007
FILE NAME = c:\projects\sn095105\plan\pln095105e.dgn
PLOT SCALE = 50.0000 ' / IN.
REFERENCE = $REF#