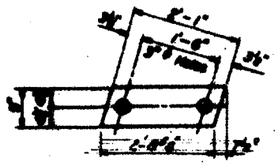
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

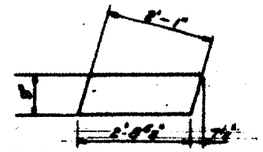
ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 646	(102)BR-3	WHITESIDE	57	38
CONTRACT #64426				

SHEET NO. 2

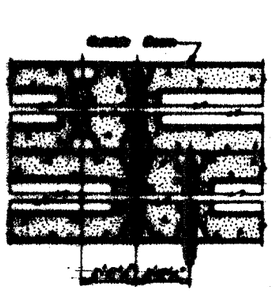


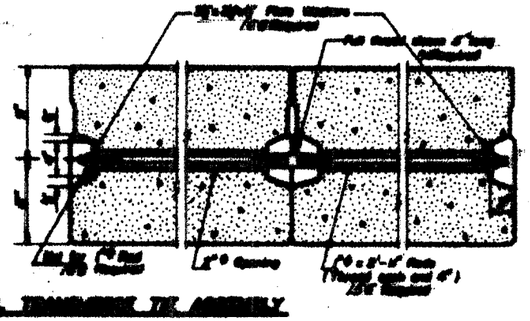
FIXED BEARING END

EXPANSION BEARING END

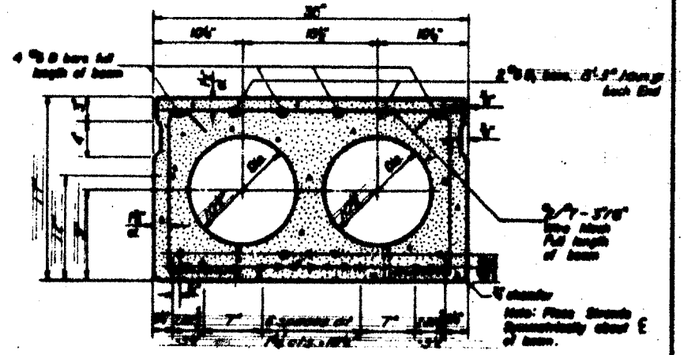


BRACKETED ABUTMENT BEARING END



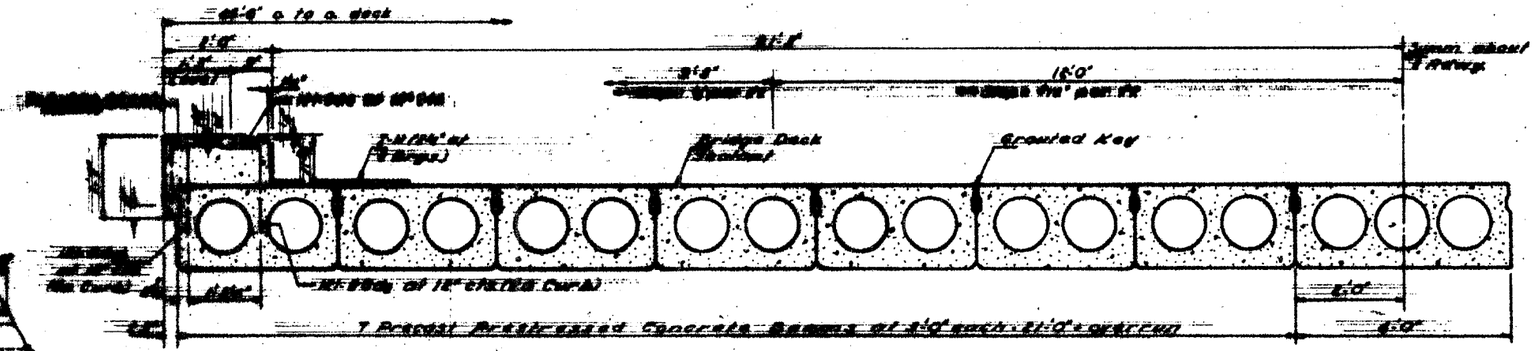


TYPICAL TRANSVERSE TIE ASSEMBLY



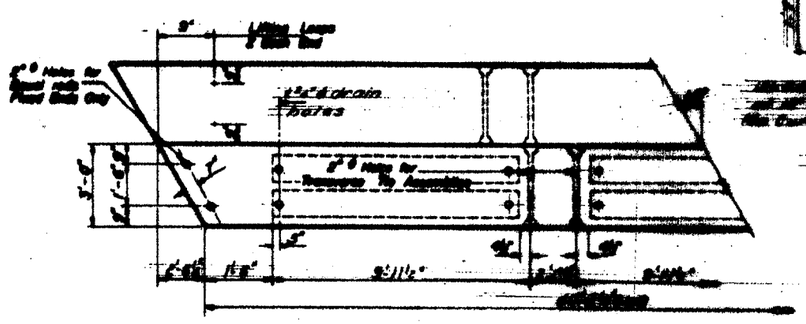
TYPICAL SECTION

½" Strands Each Shield Stressed to 18,900 lbs.
5 Strands 10"ctrs 5 Strands 20"ctrs 5 Strands 12" up

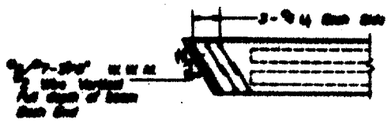


½" Prestressed Concrete Beams at 5'-0" each, 41'-0" overall

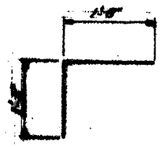
HALF CROSS SECTION



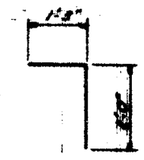
PLAN



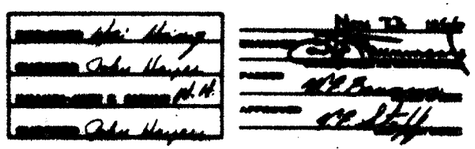
END PLAN

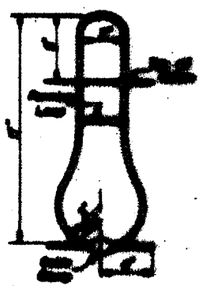


BAR E



BAR G1





LATERAL ARCH BRACE

PD-1-R 11-10-65

GENERAL NOTES

Prestressed steel shall be non-galvanized high strength stress-relieved 7-wire strand. The nominal strength, strip or cut, of the original strand, uncoated and shall be 0.496 sq in. Lifting loops shall be ½" diameter, Grade 40 steel rods with floor nuts and shall have a minimum ultimate tensile strength of 21,000 lbs.

The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the nuts put. Rubber end washers between the bar on outside beam shall be filled with grout after tightening to assembly is in place.

Longitudinal steel keys shall be grouted with a neat 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.

Steel for dowel rods, connectors to rails and other angles shall be S.A.E. 1020, structural steel A.S.T.M. Designation A36, or approvable grade A.S.T.M. Designation A15. Alloy reinforcing bars shall be A.S.T.M. Designation A432, Grade 60 (deformed) steel bars, Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement.

Cost of reinforcement and connections will be in beam of bearing pads of cover angles, underplating, longitudinal steel keys is included in unit price bid for "Precast Prestressed Concrete Bridge Deck."

Bars d, f & dc are cast into curb units only, and extend 10" long into field concrete.

For Memorandum see Sheet #4.

BILL OF MATERIAL

Mark	No.	Size	Length	Weight
C	242	#4	2'-3"	
Precast Prestressed Concrete Bridge Deck (17")			Sq. Ft.	5160
Class X Concrete			Cu. Yds.	18.6
Reinforcement Bars			Lbs.	2780

SUPERSTRUCTURE (5'-0" UNIT)
S.B.I. RT 88 SEC 102B-1
WHITESIDE COUNTY
STATION 558+37.80