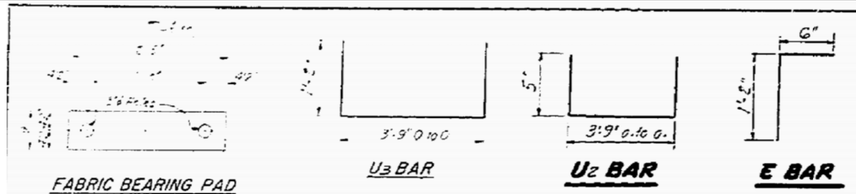
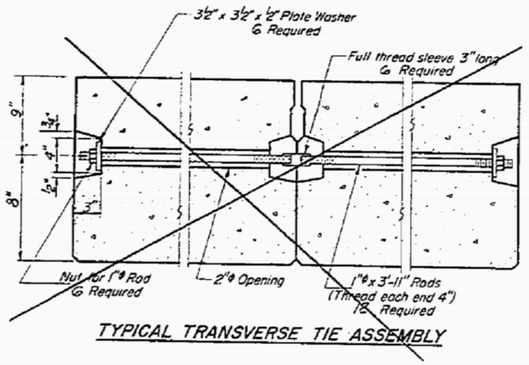
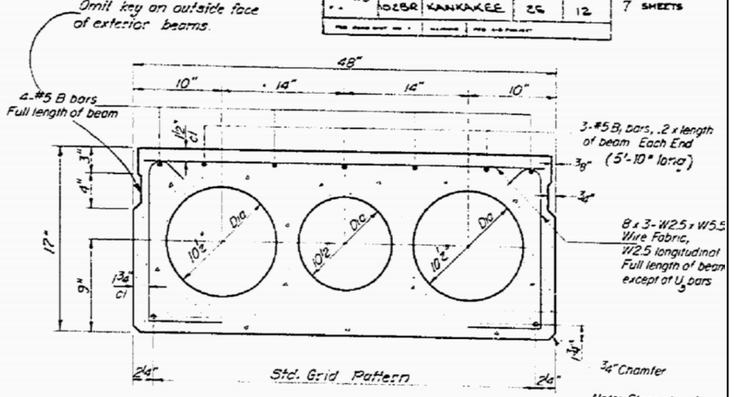
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

				SHEET NO. 2
1323	102BR	KANKAKEE	25	12
				7 SHEETS



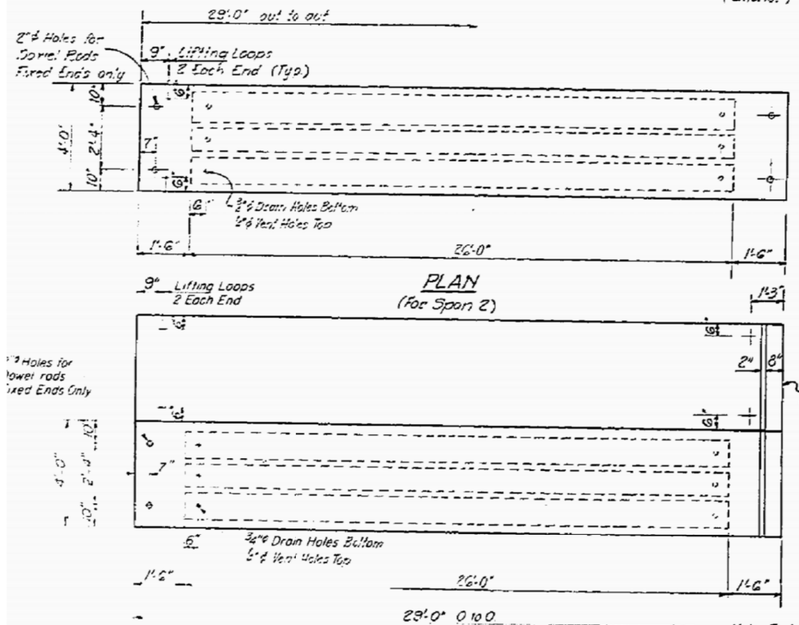


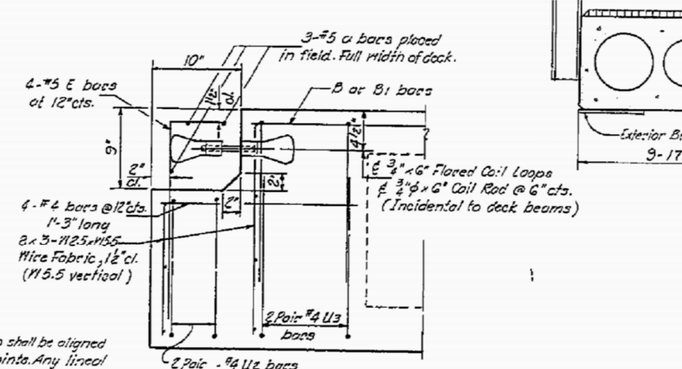
TYPICAL TRANSVERSE TIE ASSEMBLY



TYPICAL SECTION

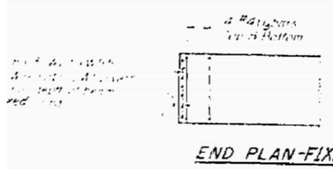
7-½"ø Strands, Each Strand Stressed to 28,900 Lbs
7 - Strands 1¾" up.

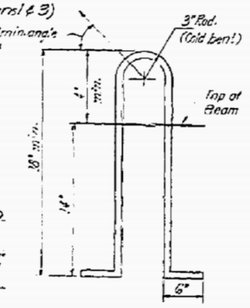


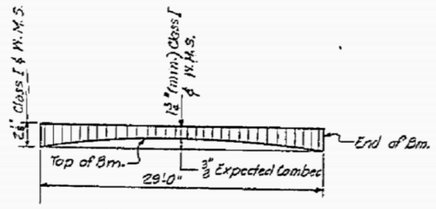


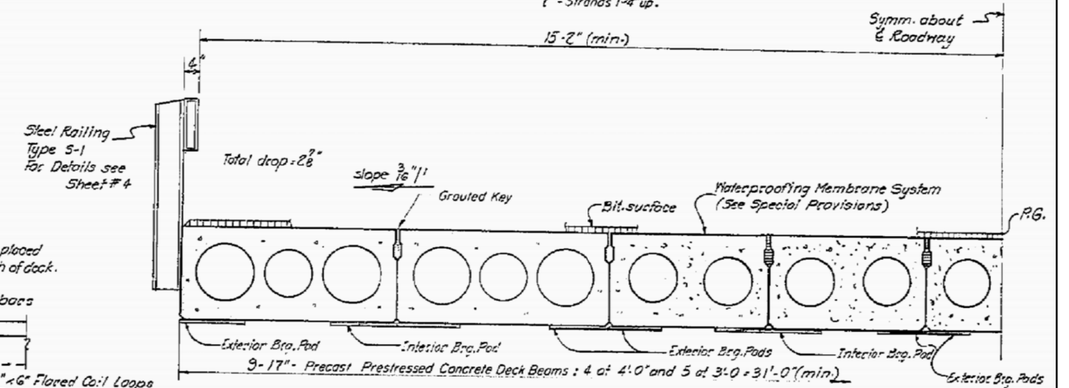
EXP. END OF BEAM

Note: Ends of beams shall be aligned at the expansion joints. Any lineal variation in the beam lengths shall be placed at the fixed joints.









HALF CROSS SECTION

NOTES

Prestressing steel shall be non-galvanized high strength, stress relieved 7 wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq in.

Lifting loops shall be ½" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 21,000 lbs or 2-½"ø 270 ksi strands as shown.

~~The 1"ø rods in the transverse tie assembly shall be tightened to a snug fit and the through cut pockets that receive transverse tie bar assemblies shall be filled with grout after beam erection, tie assembly is in place.~~

After beams have been erected, holes for the dowel anchors shall be drilled into the substructure and the anchor dowels shall be grouted in place and allowed to cure prior to grouting the shear keys.

Reinforcement bars shall conform to AASHTO M 31 or M 53 Grade 60.

The bearing surfaces shall be adjusted by shimming to assure firm and even bearing.

Two ¼" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

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

Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.

BILL OF MATERIAL

Bar	No	Size	Length	Shape
a	6	#5	31'-0"	
Precast Prestressed Concrete Deck Beams (17"x 48")			Sq Ft	1,392
Class 'X' Concrete			Cu. Yd.	1.4
Reinforcement Bars			Pound	190

SUPERSTRUCTURE
S.B.I. RT. 115 SEC. 102 BR
KANKAKEE COUNTY
STA. 603+08.00

DESIGNED C. Manning
CHECKED Dale F. Schaub
DRAWN S.B.
CHECKED D. F. Schaub
EXAMINED
PASSED
APPROVED
June 25 1980

Revised 6-9-1982 S.V.B.

FILE NAME = c:\pw_work\pwidot\duncanbd\dms68355\EP04404-sht-F10.dgn	USER NAME = duncanbd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 8/12/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INFORMATION ONLY
EXISTING STRUCTURE

SCALE: | SHEET 2 OF 6 SHEETS | STA. | TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1323	102 BR	KANKAKEE	53	40
		CONTRACT NO. 66B66		
		ILLINOIS	FED. AID PROJECT	