084-0115

CONTRACT: 72C65
SHEET 10 OF 13

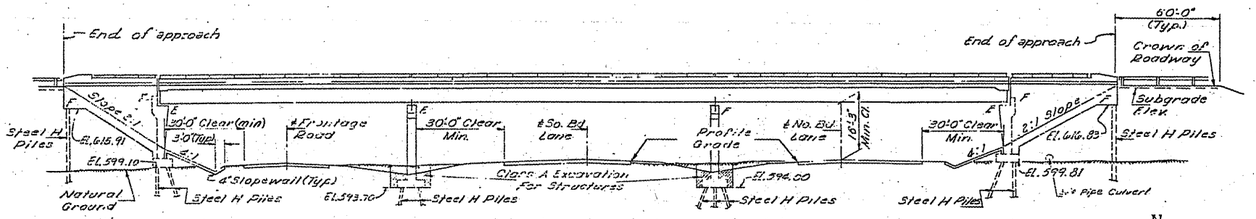
B.M.: #16 Elev 600.29 "Cut in center of Culvert Headwall, Rt 143' Station 302+89

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

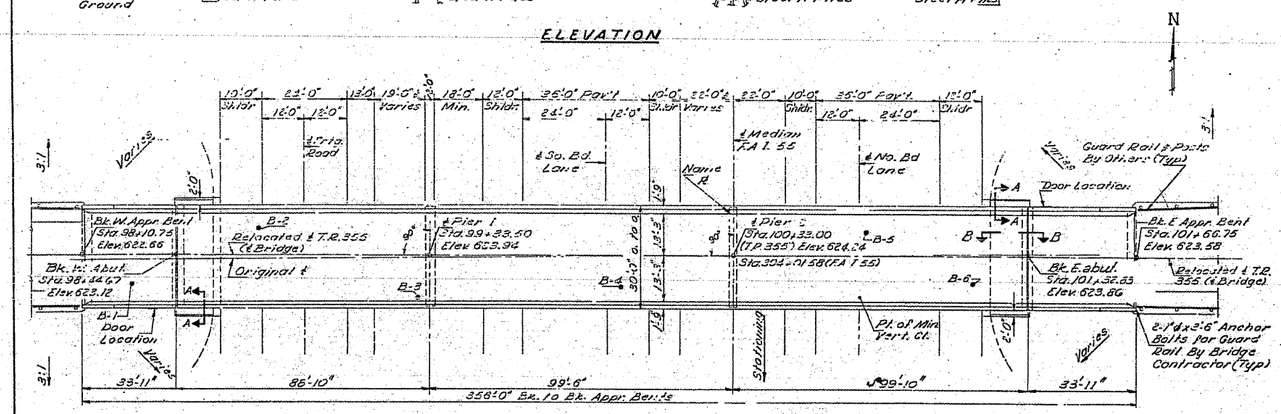
0115

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	84-4-3HB-1	SANGAMON	57	11

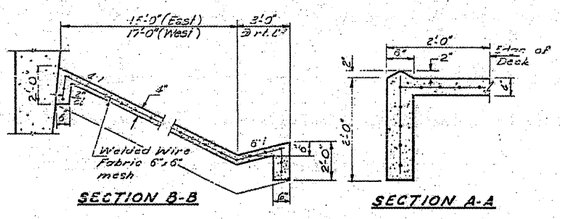
SHEET NO. 1
15 SHEETS



ELEVATION

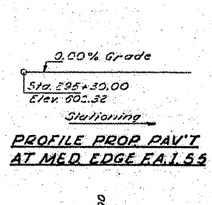


PLAN

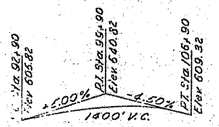


SECTION B-B

SECTION A-A



PROFILE PROP. PAV'T AT MED. EDGE F.A.I. 55



PROPOSED PROFILE TR 355

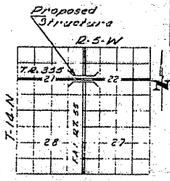
DESIGN STRESSES
PREC. PREST. UNITS

f'c = 5000 psi.
f'ci = 4000 psi.
fs = 248,000 psi. Strands
fsi = 173,600 psi. Strands

FIELD UNITS

f'c = 1200 psi. Slab
f'c = 1400 psi. Sub, Curb & Parapet
Vc = 75 psi. Flgs
fs = 20,000 psi. Reinf.
fs = 20,000 psi. Struct. (A-36)
n = 10
Allowable Deflection: Composite = 1.50

Loading HS 15-44



LOCATION SKETCH

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

Rivets 7/8" ø, open holes 15/16" ø unless otherwise noted.

Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint, and two field coats of paint. See Spl. Prov. for field paint.

Field welding of construction accessories will not be permitted in the bottom flange of beams or girders nor on the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.

Anchor bolts shall be set before riveting cross frames over supports.

Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 sq. ft.

The Contractor shall drive 2 steel test piles in approximate location at the West Abutment & Pier 2 as directed by the Engineer before ordering the remainder of the piles.

An alternate strand pattern using Extra High Strength Prestressing strand (270 K.S.I.) is permitted.

The ex-bankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

Drive all steel piles to refusal.

Excavation for slope wall is incidental to Class A Excavation for structures.

TOTAL BILL OF MATERIAL

Item	Unit	Super.	Sub.	Total
Class A Excav. For Structures	Cu. Yds.		67	67
Class X Concrete	Cu. Yds.	339.8	264.9	604.7
Structural Steel	Lbs.	241,100		241,100
Aluminum Railing	Lin. Ft.	570		570
Reinforcement Bars	Lbs.	70,510	122,590	193,100
Steel Piles (BP 250)	Lin. Ft.		1713	1713
Test Piles Steel (BP 36)	Ea.		2	2
Name Plates	Ea.		1	1
Slope Wall (4")	Sq. Yds.		190	190
Bridge Seal Sealant	L.S.		1	1
Stud Shear Connectors	Each	2,320		2,320
Furnishing & Erecting Precast Prestressed Concrete I Beams (36)	Lin. Ft.	261		261
Protective Coat	Sq. Yds.	1310		1310

*At abutments only

DESIGNED	A.A. Hamoudi	EXAMINED	Mar 3 1969
CHECKED	Uvanja Ikanyi	PASSED	
DRAWN		APPROVED	
CHECKED	Uvanja Ikanyi		

STATION 304+01.58
BUILT IN BY
STATE OF ILLINOIS
F.A.I. RT. 55 SEC. 84-4-3HB-1
F.A. PROJ. I-3-'67(85)
SANGAMON CO. ILL.

NAME PLATE
(See Std. 2113-1)

084 0115

GENERAL PLAN & ELEVATION
PROJ. I-3-(67)85
F.A.I. RT. 55 SEC. 84-4-3HB-1
SANGAMON COUNTY
STATION 304+01.58 (F.A.I. 55)

FOR INFORMATION ONLY

EXISTING PLANS, SN 084-0115
FAI 55 (I-55)
D-6 REHAB BDGE PAINTING 2009
SANGAMON COUNTY