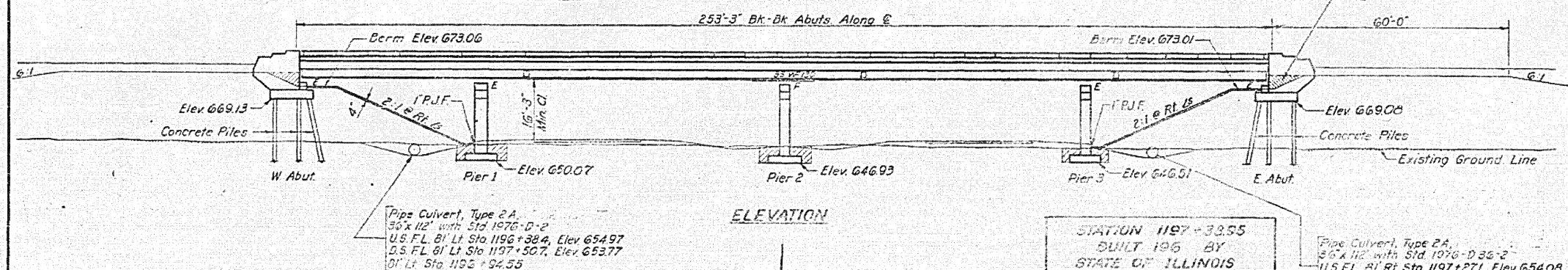


STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
U.S.L. P.A. 57	18-24 NB-1	Colos	24	6

SHEET NO. 1
10 SHEETS



CORNER RADII
 $R = 4'-0"$
 $R_1 = 13'-0"$
 $R_2 = 43'-0"$
 $R_3 = 46'-0"$

STATION 1197-3355
BUILT 196 BY
STATE OF ILLINOIS
EAL 91.57 SEC.15-24 HB-1
EAL PROJ. I-57-460
LOADING 415-512

NAME PLATE LETTERING
See Standard 2113
See Sheets #6 & #7 for location

Pipe Culvert, Type 2A,
36" x 112' with Std. 1076-D 36-2
U.S.F.L. 81' Rt. Sta. 1197+271, Elev. 654.08
D.S.F.L. 51' Rt. Sta. 1198+394, Elev. 653.19
61' Rt. Sta. 1197+53.25

GENERAL NOTES

Class X concrete shall be used throughout.
Coarse aggregate to be used in end post must be absolutely free of chert, flint, limonite, lignite and soft sandstone.

The concrete floor slab shall be finished in accordance with Article 51.19 of the Standard Specifications.

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

Rivets $3/4"$, Open Holes $13/16"$, unless otherwise noted.

All balsters, rockers, bearing plates, lead plates, pintles and anchor bolts shall be fabricated and set in accordance with Article 5115 of the Standard Specifications and are included in quantity of Structural Steel. Est. Weight = 7040#

Anchor bolts shall be set before fastening diaphragms over supports.

Expansion guards shall be fabricated and erected in accordance with Article 51.13(d) of the Standard Specifications.

The exposed surfaces of the expansion guard shall be given two shop coats of red lead paint, the contact surfaces shall be given one coat of red lead paint. Anchor studs shall not be painted.

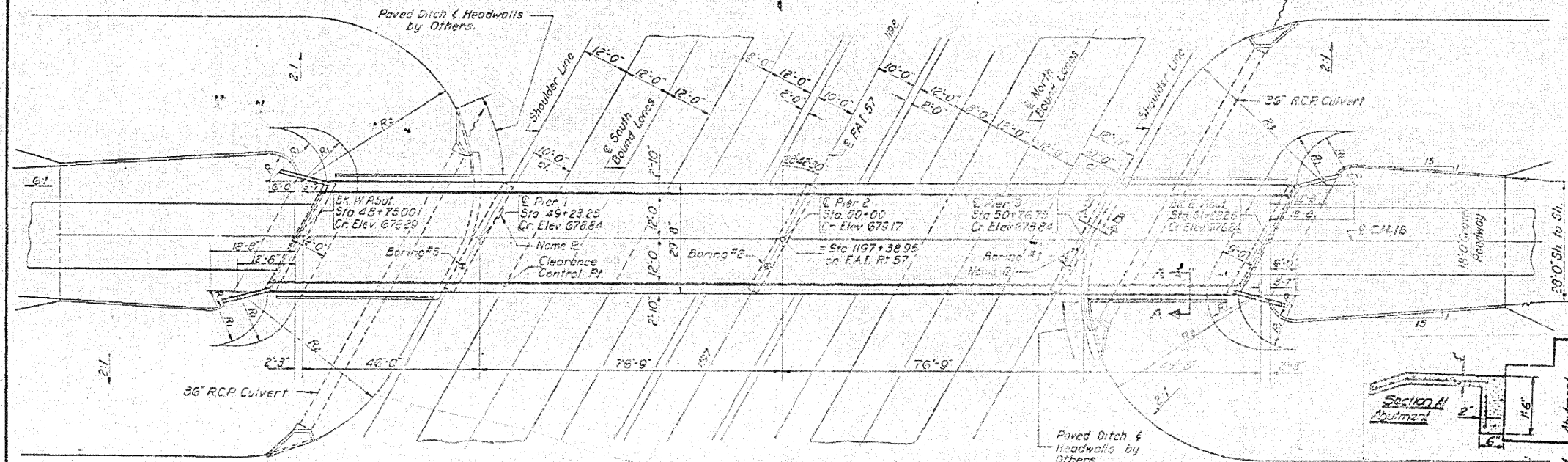
Expansion guards are included in the quantity of Structural Steel
Est. Weight = 760#

Est. Weight: 7600
All structural steel shall conform to ASTM Designation A-36
Except as otherwise provided, all structural steel shall receive
one shop coat of red lead paint and two field coats of aluminum
paint. See Articles 56.1 to 56.5 inclusive of the Standard Specifications.
The Contractor shall drive one concrete test pile in a permanent
location of the East Abutment as directed by the Engineer before
ordering the remainder of piles.

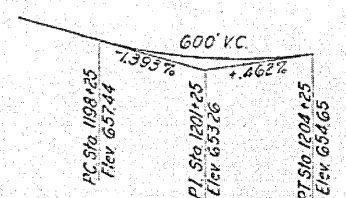
Concrete piles at abutments shall be driven in holes precored through the embankment in accordance with Article G0.9(c) of the Standard Specifications.

Excavation for portions of structures in the embankment shall not be classified.

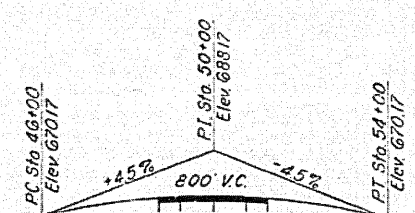
Permanent forms will not be permitted in forming the concrete deck.



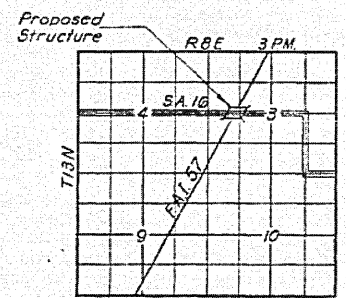
PLAN



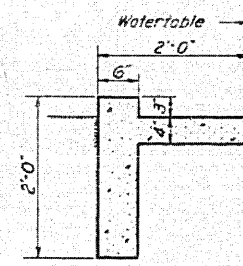
F.A.I. 57 CURVE DATA



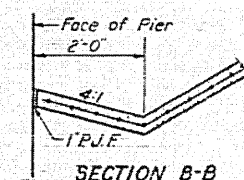
S.A. 16 VERTICAL CURVE DATA



LOCATION PLAN



SECTION A-A



SECTION B-B

DESIGN STRESSES

$f_c = 1400$ psi. Super & Sub
 $v_c = 75$ psi. Ftgs.
 $f_s = 20,000$ psi. Reinf.
 $f_s = 20,000$ psi. Struct.
 $n = 10$ Max. Soil Pressure = $3.6 \frac{7}{8}$ '
 Allowable 4' Defl. = $\frac{1}{1000}$ Non Comp.

LOADING H15-S12-44

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
* Class A Excavation for Structures	Cu.Yds.			370
Class X Concrete	Cu.Yds.	245.7	2770	522.7
Structural Steel	Lbs	195,230		195,230
Alum. Handrail	Lin. Ft			501
Pipe Culvert (Type 2A) 36" ϕ	Lin Ft			224
Reinforcement Bars	Lbs	46,910	19,430	66,340
Concrete Piles	Lin Ft			665
Test Piles (Concrete)	Each			1
Name Plates	Each			2
Slope Wall (4')	Sq.Yds			463

* Includes excavation for Slope Wall.

LOCATION 1 015-0033

PROJ. I-57-4(44)
GENERAL PLAN & ELEVATION
C.H. RT. 16 OVER FAI RT 57
FAI RT. 57 SEC. 15-24 HR-1
COLES COUNTY
STA. 1197+38.95

4 of 12

DESIGNED <i>Bobby Chittin</i>	Aug 15 1963
CHECKED <i>Maria Jancoskie</i>	EXAMINED <i>H. B. Brinson</i> ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES
DRAWN <i>J. L. Armstrong</i>	PASSED <i>E. L. Heston</i> THE STATE ENGINEER
CHECKED <i>U. T.</i>	APPROVED <i>U. E. Smith</i> THE STATE ENGINEER

2/18/66 Changed rail to carpet type. Revised Quantities: Class X Conc. Cu Yds. 494.5 to 522.7;
Reinf Bors Lbs. 61000 to 66340;
Slope Nail 59 yds. 410 to 423 & Removed Protective Coat J.I.V.