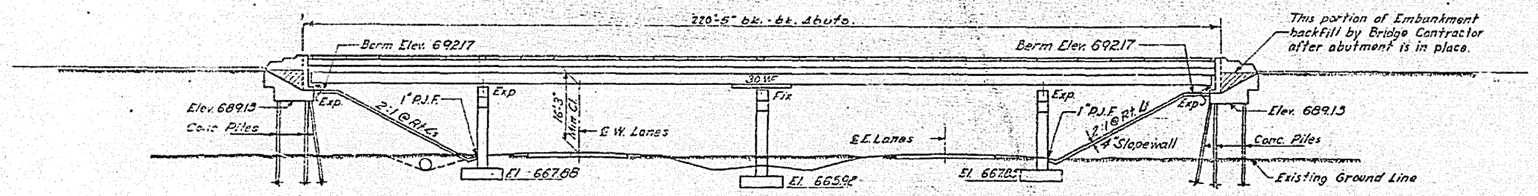
B.M. Concrete Monument 150' Rt. Sta. 1387+11.77
Elev. 675.20

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 57	15, 21-25 HB-1	COLES & DOUGLAS	21	7

SHEET NO. 1
9 SHEETS

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT: I-57-5(72)201

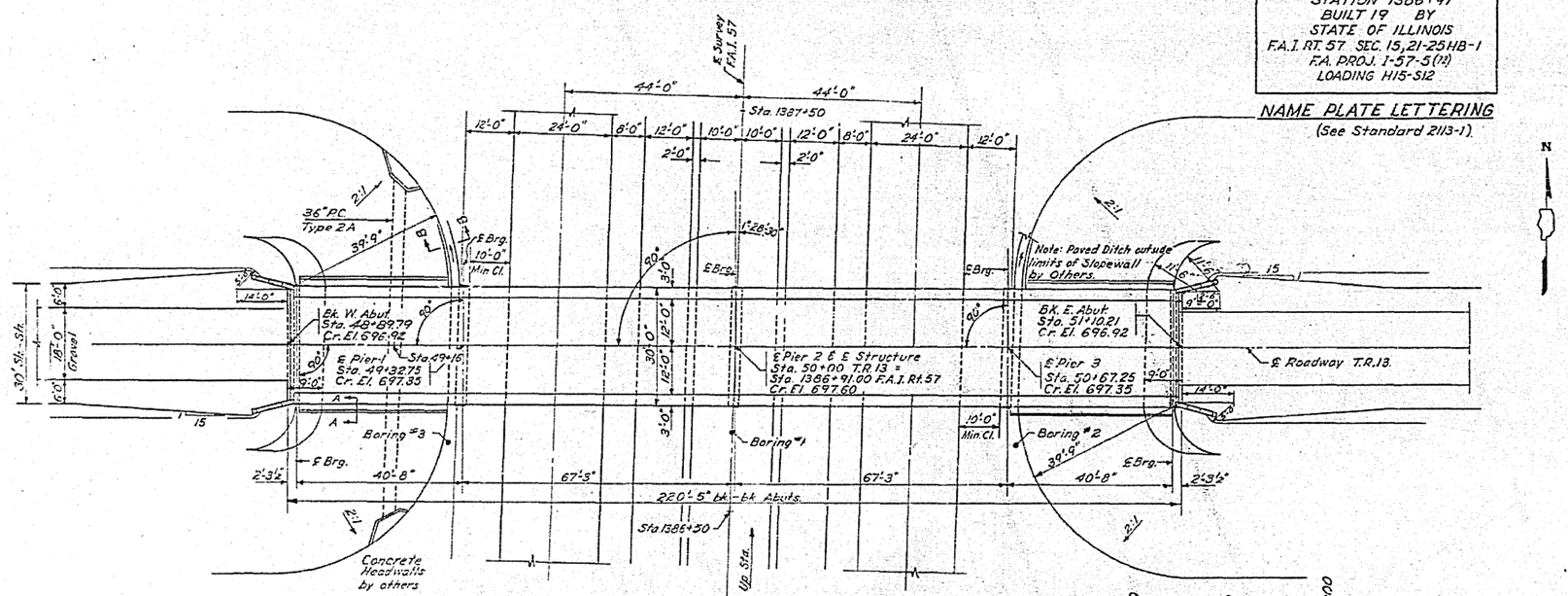


ELEVATION

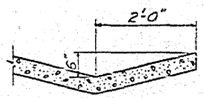
Note: See sheet 5 of 21 of Road Plans for Embankment.

STATION 1386+91
BUILT 19 BY
STATE OF ILLINOIS
F.A.I. RT. 57 SEC. 15, 21-25 HB-1
F.A. PROJ. I-57-5(72)
LOADING H15-S12

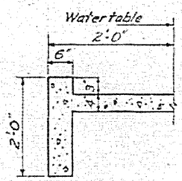
NAME PLATE LETTERING
(See Standard 2113-1).



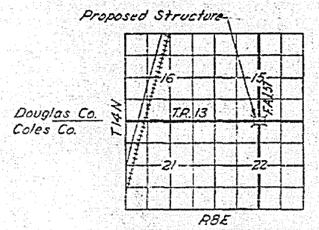
PLAN



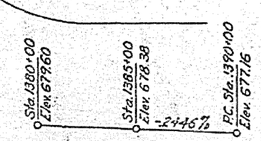
SECTION-B-B



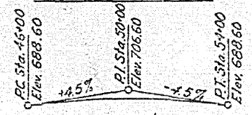
SECTION A-A



LOCATION SKETCH



PROFILE-F.A.I. RT. 57



V.C. 800'

V.C. DATA-T.R. 13

GENERAL NOTES

Coarse aggregate to be used in parapet handrails and end posts 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.

All reinforcement bars shall be lapped 20 diameters unless otherwise shown.

Rivets $\frac{3}{4}$" ϕ, open holes $\frac{13}{16}$" ϕ, unless otherwise noted.

Anchor bolts shall be set before riveting diaphragms over supports.

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 Structural Steel. Est. weight 660 lbs.

Except as otherwise provided, all Structural Steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Article 56.1 to 56.5 inclusive of the Standard Specifications.

The Contractor shall drive one Concrete test pile in a permanent location at W. Abut. as directed by the Engineer before ordering remainder of piles.

Concrete piles at abutments shall be driven in holes precored through the embankment in accordance with Article 60.9 (c) of the Standard Specifications.

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

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

TOTAL BILL OF MATERIALS

ITEM	UNIT	SUPER	SUB	TOTAL
Class A Excavation for Structure	Cu. Yds.		220	220
Class X Concrete	Cu. Yds.	206.3	200.5	406.8
Structural Steel	Lbs.	135,600		135,600
Aluminum Handrail	Lin. Ft.	434		434
Pipe Culvert 36" Type 2A	Lin. Ft.		88	88
Reinforcement Bars	Lbs.	43,120	18,800	61,920
Concrete Piles	Lin. Ft.		510	510
Test Piles (Concrete)	Each		1	1
Name Plates —	Each		2	2
Slope Wall	Sq. Yds.		352	352
Protective Coat	Sq. Yds.	845		845

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. (A-36)
n = 10
Allowable $\frac{1}{4}$ Deflection
$\frac{1}{800}$ non-composite
$\frac{1}{1200}$ composite

LOCATION 3: 015-0063

PROJ. I-57-5(72)201
T.R. 13 OVER F.A.I. RT. 57
F.A.I. RT. 57
SEC. 15, 21-25 HB-1
COLES-DOUGLAS COUNTIES
STA. 1386+91

LOADING H15-S12-44

DESIGNED	Eugene Beatty
CHECKED	Lawrence A. Jaworski
DRAWN	Thomas A. Lewis
CHECKED	Lawrence A. Jaworski

APRIL 5 1963
EXAMINED M. E. Baumann — ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED — ENGINEER OF DESIGN
APPROVED — STATE BRIDGE ENGINEER

Revised 4-6-65 by H.A.H. ~ Borrow Excavation Quantity 22,600 cu.yds. removed. ~ Pipe Culvert 36" Type 2A revised from 70 lin. ft. to 88 lin. ft. ~ Revised 4/9/66 D.L.C. Class X Concrete from 396.7 cu.yds. to 406.8 cu.yds. Revise footing elevations.