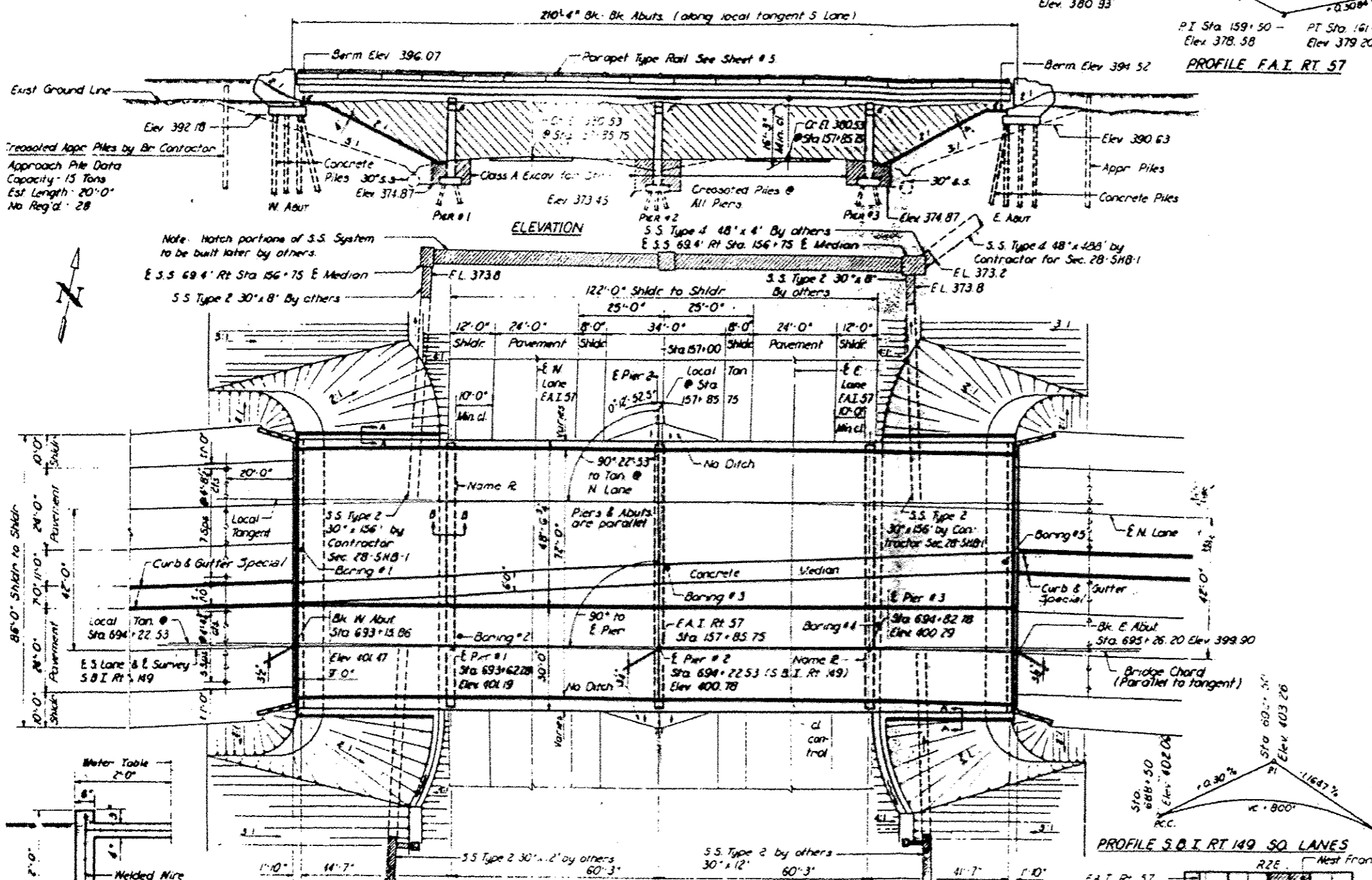


B.M. R.R. Spike in P.P. 28 Ft. R.I. S.B.I. Rt. 149
Sta 70+35 Elev 395.55

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

PROJECT	FRANKLIN	100	34	13
SHEET NO.				1



PROFILE F.A.I. RT. 57

GENERAL NOTES

Class X Concrete shall be used throughout. Coarse aggregate which is 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 #4 wires, weighing 58# per 100 Sq. Ft.

Rivets 3/4" dia, open holes 1/2" dia, unless noted.

Structural Steel shall conform to ASTM specifications designation A-7.

All bolsters, rockers, bearing plates, lead plates, shim plates, pinies and anchor bolts shall be fabricated and set in accordance with Article 51.15 of the Standard Specifications and are included in quantity of Structural Steel. Est. Wt. 17950#.

Anchor bolts shall be set before riveting diaphragms over supports.

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

Expansion guards are included in quantity of Structural Steel. Est. Wt. 3580#.

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.

All outside faces of vertical legs of angles in expansion guards shall be given two shop coats of red lead paint.

All paint shall be furnished & applied by Contractor involved.

The Contractor shall drive one concrete test pile at the West Abutment in a permanent location and one timber test pile in the vicinity of Pier 3 as directed by the Engineer before ordering the remainder of Piles.

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

TOTAL BILL OF MATERIAL
SEC 28-5HB-1

Item	Unit	Super	Sub	Total
Class A Excavation for Str.	Cu Yds		620	620
Class X Concrete	Cu Yds	468.2	527.7	995.9
Erecting Structural Steel	Lbs	433,570		433,570
Aluminum Handrail	Lbs	416		416
Reinforcement Bars	Lbs	104,070	45,500	149,570
Crested Piles	Each		3385	3385
Test Piles (Timber)	Each		1	1
Concrete Piles	Lbs		2025	2025
Test Piles (Concrete)	Each		1	1
Name Plates	Each		2	2
Slope Wall 4"	Sq Yds		870	870
Protection	Sq Yds	196		196

* Includes slope wall excavation.

TOTAL BILL OF MATERIAL
SEC 28-5HF-1

Furnishing Structural Steel	Lbs	433,570
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FOR INFORMATION ONLY

GENERAL PLAN AND ELEVATION
PROJECT I-57-2(40)64
S.B.I. RT 149 OVER
F.A.I. RT 57 SEC 28-5HB-1
FRANKLIN COUNTY
STA 157+85.75

SECTION A-A

DESIGNED	J. A. Schuman
CHECKED	F. K. J.
DRAWN	E. S.
CHECKED	F. K. J.

DESIGN STRESSES
F_c = 1,400 p.s.i. Super & Sub
F_c = 75 p.s.i. Footing
F_s = 20,000 p.s.i. Reinf
F_s = 18,000 p.s.i. Str. Jc
1-10 Max All 6" dia

LOADING H20-S16-44

CURVE DATA
F.A.I. RT 57
R = 8° 31' 00"
D = 0° 24' 00"
L = 323.97
T = 2129.17
E = 066.55
E = 39.55

3 Lanes
CURVE DATA
S.B.I. RT 149
J = 3° 13' 07"
D = 0° 34'
L = 567.86'
T = 284.00'
R = 10,111.06

