

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57		WILL	303	182
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
1991&2) R-389-1B-1-8R-2		CONTRACT: 62253		

ROUTE NO.	SIC.	COUNTY	TOTAL SHEETS	SHEET NO.
EA-1-57	194-1B-1	WILL	37	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
1991&2) R-389-1B-1-8R-2		CONTRACT: 62253		

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

ITEM		SUPER	SUB.	TOTAL
Class X Concrete	Cu Yds.	213.3	208.2	421.5
Reinforcement Bars	Lbs.	61,670	23,077	84,747
Structural Steel	Lbs.	195,520		195,520
Aluminum Handrail	Lin. Ft.	442		442
Name Plates	Each		2	2
Class A Excavation for Structures	Cu Yds.		329	329
Crested Piles (Up to 20')	Lin. Ft.		185	185
Concrete Piles	Lin. Ft.		300	300
Test Piles (Concrete)	Each			
Slope Wall	Sq. Yds.		40	40
Protective Coat	Sq. Yds.	135		135
Bridge Sd. Sealing	Lump Sum			1.0

\* Includes Excavation for Slope Wall  
\*\* Applied @ Abutments Only

SHEET NO.	TITLE
1	INDEX, NOTES AND QUANTITIES FOR BRIDGE
2	GENERAL PLAN AND ELEVATION
3	SLAB PLAN
4	SLAB ELEVATIONS
5	STRUCTURAL STEEL
6 & 7	ALUMINUM HANDRAIL
8	PIERS NO. 1 & NO. 3
9	PIER NO. 2
10	ABUTMENTS-PLAN AND ELEVATION
11	CONCRETE PILING ALTERNATES
12	SORING DATA

STATION 1348+92.13  
BUILT BY  
STATE OF ILLINOIS  
F.A.I. RT. 57 SEC. 99-1-1B-1  
FED. PROJECT 1-57-RVIA  
LOADING H-20-44

LETTERING FOR NAME PLATE  
See Standard 2113-B

GENERAL LEGEND:

- ① Elevation Marker
- Ⓐ Section Marker - the letter identifies a section which is detailed on the same sheet.
- Ⓐ Detail Identification Symbol - the letter identifies a section which is located on the same sheet.
- Ⓜ Section Marker - the letter identifies a section and the number refers to the sheet on which the section is detailed.
- Ⓜ Detail Identification Symbol - the letter identifies the section and the number refers to the sheet on which the section is located.

GENERAL NOTES:

Class X Concrete shall be used throughout. Coarse aggregate which is to be used in and posts placed must be absolutely free of dirt, lumps, clumps, and soft substances.  
The concrete floor slab shall be finished in accordance with Article 51.15 of the Standard Specifications and shall be poured in one continuous operation between construction joints in accordance with Article 51.11.  
Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, #4 wires, weighing 33" per 100 sq. ft.  
Minimum lap for all bar splices shall be 20 diameters unless otherwise noted.  
Rivets 3/8", open holes 1/2", unless noted.  
All bolsters, rockers, bearing plates, lead plates, pintles 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. weight - 8273 lbs.)  
Anchor bolts shall be set before riveting diaphragms over supports.  
Permanent forms will not be permitted in forming the concrete floor. Excavation for portions of structures in the embankment shall not be classified.  
Expansion guards are included in quantity of Structural Steel.  
All surfaces of expansion guards inaccessible after erection shall be given two shop coats of red lead paint. Anchor studs shall not be painted.  
Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of paint. See General Provisions for Field Paint.  
All paint shall be furnished and applied by the Contractor involved.  
Abutment piles, including test piles, shall be driven through precored holes in embankment in accordance with Article 60.9 (e) of the Standard Specifications.  
The Contractor shall drive 2 concrete test piles in permanent locations as directed by the Engineer before ordering or casting the remainder of piles. (One concrete test pile at each abutment as shown on the drawings.)  
The following bridge drawings are not to scale and should not be used for scaling purposes.  
Structural Steel shall conform to ASTM Designation A-36.  
Expansion guards shall be fabricated and erected in accordance with Art. 51-13(d) of the Standard Specifications.  
T-13-67 J.F.J. Rev class x conc from 434.9 to 420.0 cu yds (Rein bars from 74,447 to 84,747 lbs.)

DESIGN NOTES:

**SPECIFICATIONS**  
Design: Standard Specifications for Highway Bridges of A.A.S.H.O. - 1961 Edition.  
Construction: Standard Specifications for Road and Bridge Construction adopted January 2, 1958, State of Illinois and Supplemental Specifications effective March 2, 1964.  
**DESIGN STRESSES**  
fc = 3500 psi  
fc = 1400 psi - Superstructure and Substructure.  
fs = 20,000 psi - (reinforcement)  
fs = 20,000 psi - (structural steel) A-36.  
V = 75 psi - (pier footing).  
n = 10  
Maximum pier soil pressure: 6000 psf.

LOADING

H-20-44  
Future wearing surface - 18 psf.

FIELD WELDING OF CONSTRUCTION ACCESSORIES TO THE BOTTOM FLANGES OR FOR A DISTANCE OF 2' OF THE BEAM EACH WAY FROM FIELD SUPPORTS ON THE TOP FLANGES OF BEAMS OR GIRDERS WILL NOT BE PERMITTED. FIELD WELDING IN THESE AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

DESIGNED	EXAMINED
CHECKED	ENGINEER OF BRIDGE AND STRUCTURES
DRAWN L.S.	ENGINEER OF DESIGN
CHECKED L.S.L.	APPROVED
	CHIEF HIGHWAY ENGINEER

ILLINOIS DIVISION OF HIGHWAYS  
INDEX, NOTES AND QUANTITIES  
FOR BRIDGE  
F.A.I. RT. 57 SEC. 99-1-1B-1  
WILL COUNTY  
STA. 1348+92.10

Rev 11-9-65 Quantity Changes Class A Conc. Sup. 213.9 to 226.6 cu yds. Tot 425.3 to 438.0 cu yds. Reinf Bars, sup 41,856 lbs to 84,747 lbs. Tot 67,077 to 84,747 lbs.  
Struct. Steel 194,220 to 195,520 lbs., Conc Piles 120 to 165 Lin Ft., Slope Wall 436 to 480 sq yds., Prot Coat 670 to 135 sq yds. WLP Rev 2-15-67 Bill of Material Changes Class X Conc. Sup. 214 to 213.3 Cu Yds. Total 425.0 to 421.5 Cu Yds  
Reinf. Bars Sup 40,450 to 84,747 lbs. S.D. 23215 to 236,97 lbs. Total 71,200 to 74,497 lbs. 444

FOR INFORMATION ONLY