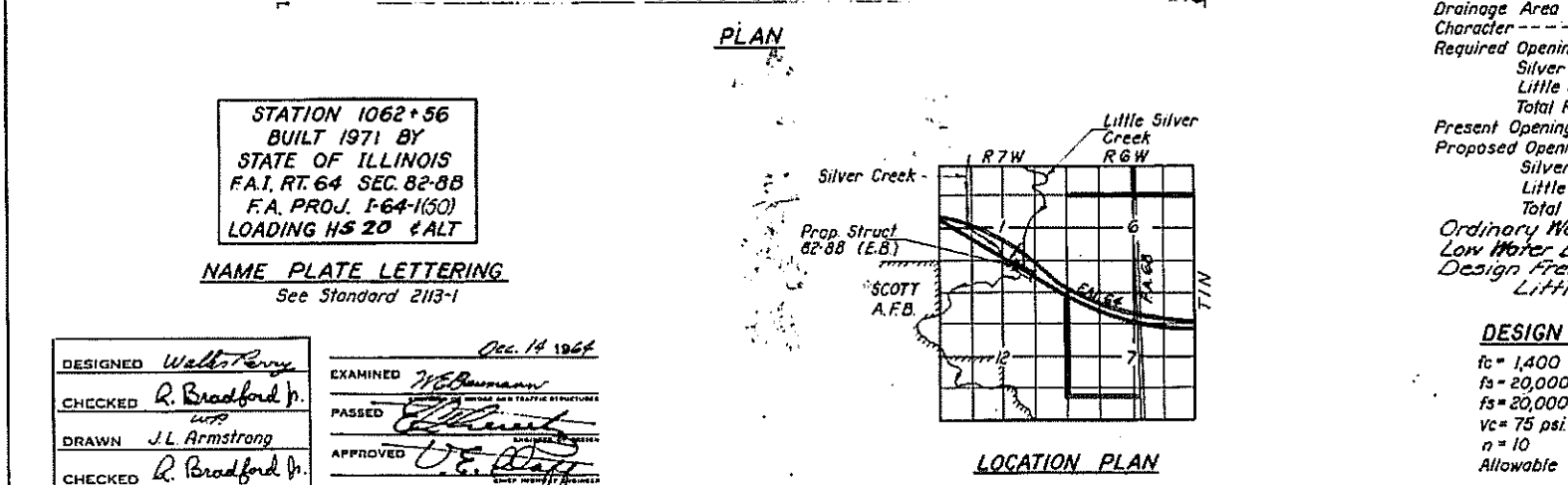
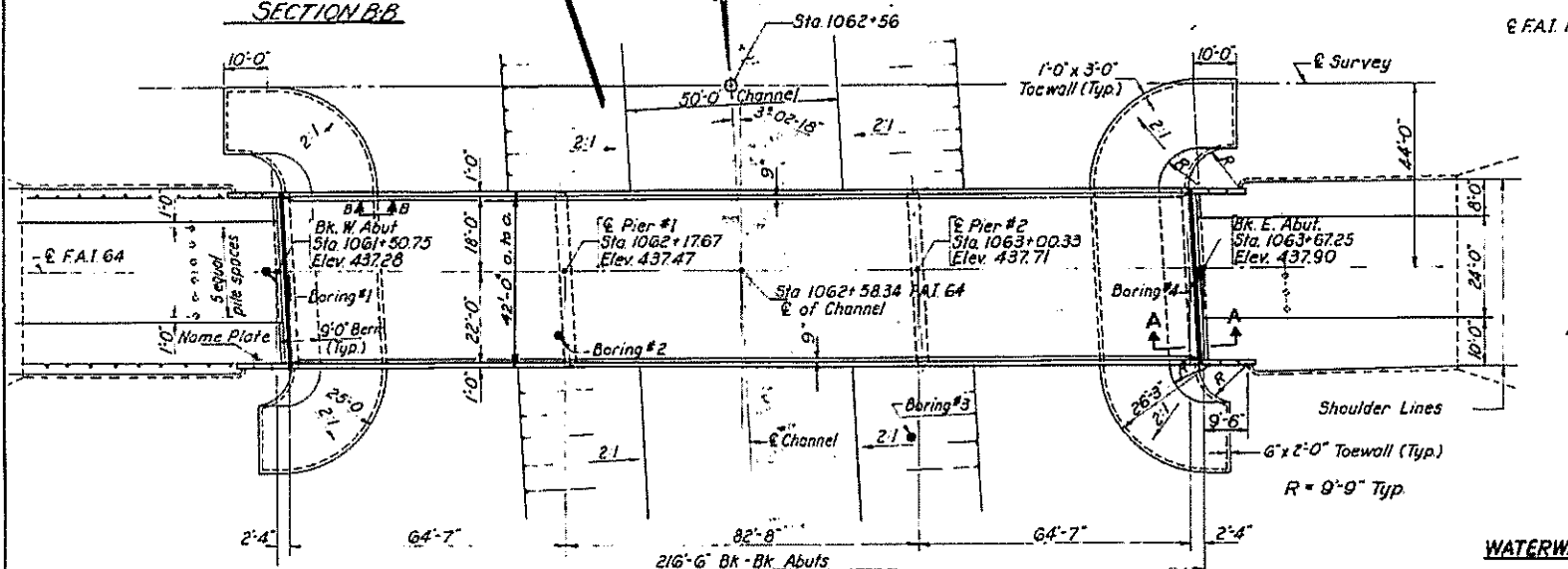
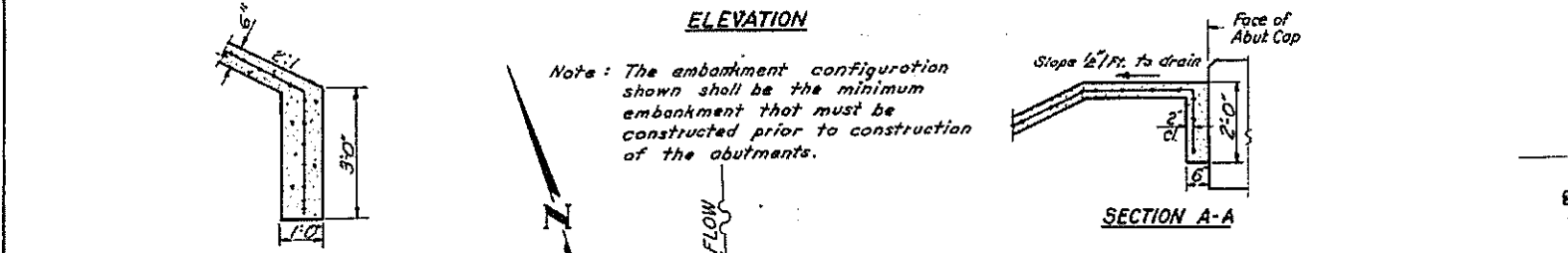
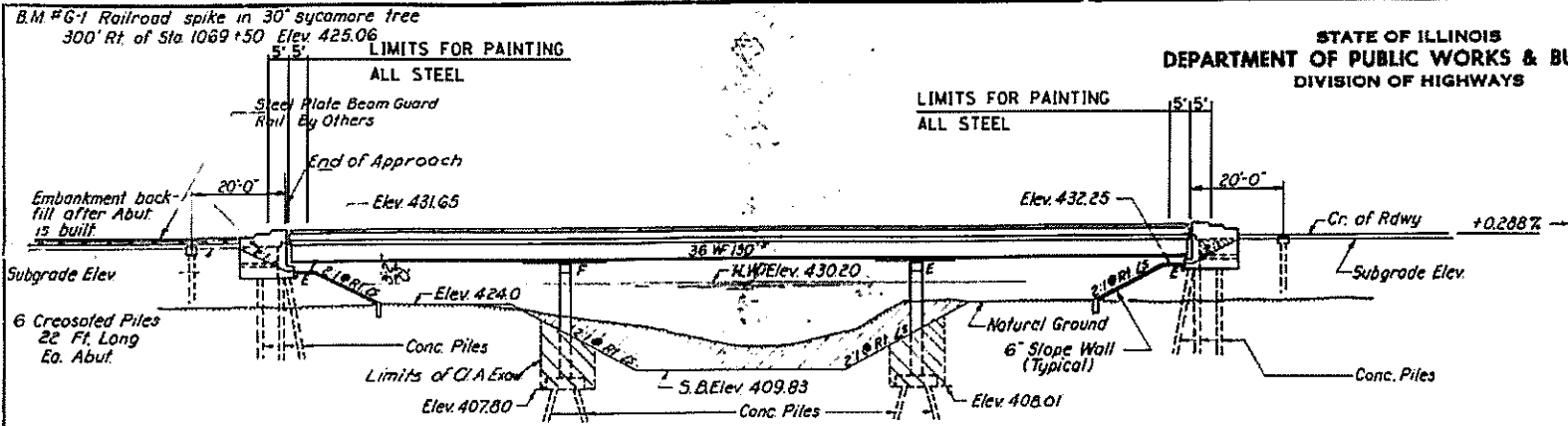


STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

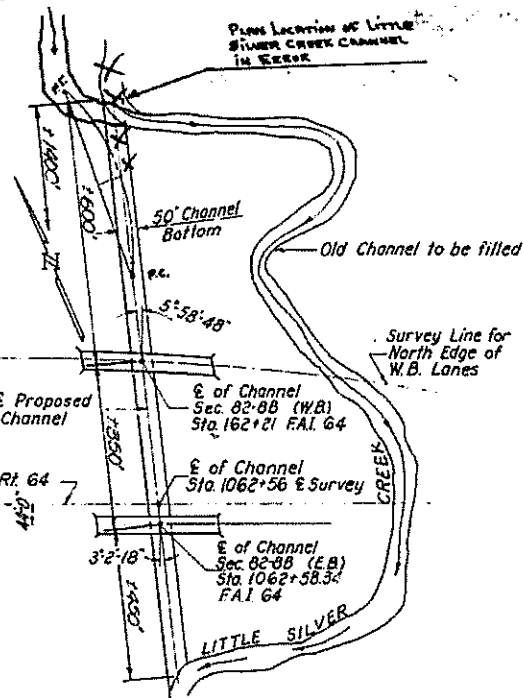
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 64	82-88	ST. CLAIR	107	61
SHEET NO. 1 9 SHEETS				



STATION 1062+56  
BUILT 1971 BY  
STATE OF ILLINOIS  
F.A. RT. 64 SEC. 82-88  
F.A. PROJ. 1-64-1(50)  
LOADING HS 20 & ALT

NAME PLATE LETTERING  
See Standard 2113-1

DESIGNED	Walter Perry	EXAMINED	W. E. Schumann
CHECKED	R. Bradford Jr.	PASSED	[Signature]
DRAWN	J.L. Armstrong	APPROVED	[Signature]
CHECKED	R. Bradford Jr.		



PROPOSED CHANNEL CHANGE  
Note: Piles shall be jettied if necessary to reach minimum tip elevations shown.

**WATERWAY INFORMATION**

Drainage Area (Total)	249,700 Acres
Character	Rolling, wooded, cultivated
Required Opening (50 Yr. Fl.)	
Silver Creek	3,240 Sq. Ft.
Little Silver Creek	2,160 Sq. Ft.
Total Req'd Opening	5,400 Sq. Ft.
Present Opening	None
Proposed Opening	
Silver Creek	3,240 Sq. Ft.
Little Silver Creek	2,160 Sq. Ft.
Total Prop. Opening	5,400 Sq. Ft.
Ordinary Water Elev.	416.0
Low Water Elev.	418.5
Design Frequency Discharge:	
Little Silver Creek, 100	9600 cfs

**DESIGN STRESSES**

$f_c$	1,400 p.s.i. Super & Sub
$f_s$	20,000 psi Reinf.
$f_s$	20,000 psi Struct.
$v_c$	75 psi Flgs.
$n$	10
Allowable 4 Defl.	L/1000 Non Composite

LOADING HS 20-44 & ALT.

GENERAL NOTES

Slope Wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 Sq. Ft.  
Layout of slope walls may be varied to suit ground conditions in the field as directed by the Engineer.  
All reinforcement bars shall be lapped 24 diameters unless otherwise shown.  
Anchor bolts shall be set before bolting diaphragms over supports.  
Fasteners shall be high strength bolts. Bolts 3/4"  $\phi$ , open holes 1/2"  $\phi$ , unless otherwise noted.  
Calculated Wt. of Structural Steel = 269,740 lbs.  
The Basic Lead Silico Chromate paint system shall be used for shop and field painting of Structural Steel.  
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.  
The Contractor shall drive one concrete test pile at the East Abutment and one concrete test pile at Pier 1 in permanent locations as directed by the Engineer before ordering the remainder of piles.  
The Contractor shall drive the piles to the capacity on plans and to the following minimum elevations:  
West Abut - Elev. 381.0  
Pier 1 - Elev. 382.0  
Pier 2 - Elev. 386.0  
East Abut - Elev. 387.0

FIELD WELDING OF CONSTRUCTION ACCESSORIES TO THE BOTTOM FLANGES OR FOR A DISTANCE OF 1/2 OF THE SPAN EACH WAY FROM PIER SUPPORTS ON THE TOP FLANGES OF BEAMS OR GIRDERS WILL NOT BE PERMITTED. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

**TOTAL BILL OF MATERIAL**

Item	Unit	Super	Sub	Total
Class A Excavation for Structures	Cu. Yds.		446.02	446.02
Structural Steel	Lump Sum			
Class X Concrete	Cu. Yds.	250.7	86.5	337.3
Class A Concrete	Cu. Yds.		234.3	234.3
Reinforcement Bars	Lbs.	67,939	17,505	85,504
Creosoted Piles (20' to 30')	Lin. Ft.			
Concrete Piles	Lin. Ft.		1814.0	1814.0
Test Piles (Concrete)	Each			
Aluminum Hoisting	Lin. Ft.	426.7		426.7
Name Plates	Each			
Slope Wall 6"	Sq. Yds.		667.39	667.39
Protective Coat	Sq. Yds.	1,111.99		1,111.99
Bridge Seat Sealant	Lump Sum			

\* Applied at Abutments  
\*\* Includes excavation for Slope Walls.

PROJ. 1-64-1 (50) 17  
GENERAL PLAN & ELEVATION  
F.A. RT. 64 SEC. 82-88 (EB)  
ST. CLAIR COUNTY  
STA. 1062+56

Rev. 11-16-66 R.B. Jr. Wingwall's straightened. In Total Bill quantity of Reinf. Bars in Super revised from 58,390 to 62,710, Sub 15,760 to 16,190 & Total 74,150 to 78,900#; Class X Conc. in Sub revised from 305.7 to 307.5 & Total 543.7 to 545.5 Cu. Yds.  
Rev. 9/21/67 - S.D.: Changed Reinf. Bars, Lbs., from 62,710 to 66,930 & 16,900 to 18,120. Rev. 9-4-68 Raa G.K. Rev. 8-11-70 C.I.X. Conc., Cu. Yds., from 239.0 to 246.6 & 345.5 to 354.1. Rev. 7-14-70 Raa G.K. Rev. 7-7-70

FILE NAME	USER NAME	DESIGNED	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE DETAILS STRUCTURE NO. 082-0189	F.A. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILE#	*USER#	DRAWN	REVISIONS			64	82-88-P	ST. CLAIR	29	24
		CHECKED	REVISIONS			CONTRACT NO. 76683				
		DATE	REVISIONS			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				