

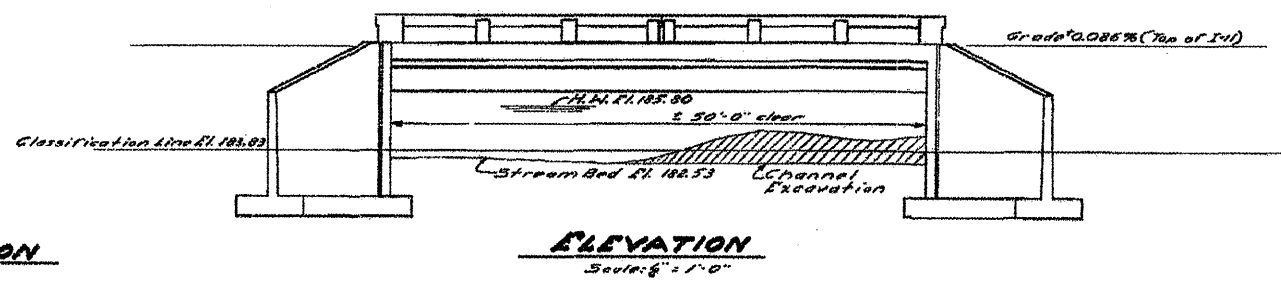
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

PROJECT	68573	SHEET	71
DATE	7/23/53	NO. OF SHEETS	97
DESIGNER	F.M. Schile	DATE	7/23/53
CHECKED	W. H. Sommer	DATE	7/23/53
DRAWN	F.M. Schile	DATE	7/23/53
CHECKED	W.H.S.	DATE	7/23/53

Sheet 71  
of  
97

B.M. : Top of S.M. Wing Wall  
Elevation 193.00

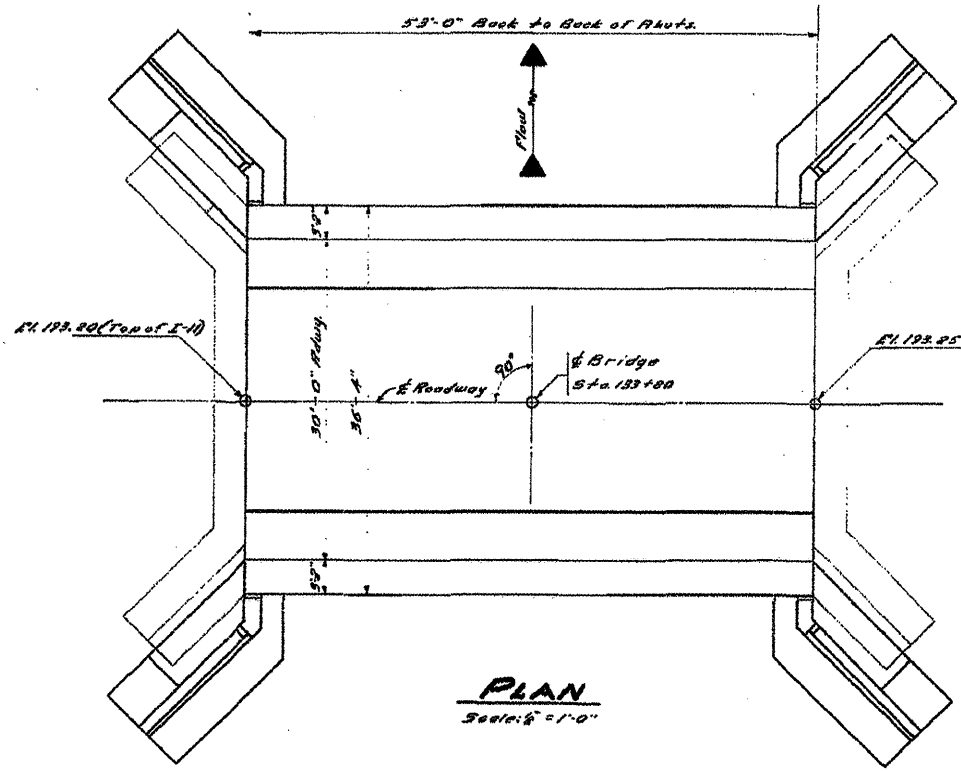
Existing Structure: R.C. Deck Girder  
1 Span @ 50' Sl. OS Roadway  
R.C. Abuts. - To be widened  
Handrail and other concrete to be  
removed as shown on plans.



**WATERWAY INFORMATION**

Drainage Area ..... 1,000 Acres  
Character ..... Level, Clay, Cultivated  
Present Bridge Opening ..... 118.5 sq. ft.  
Proposed Bridge Opening ..... 118.5 sq. ft.

**ELEVATION**  
Scale: 1/2" = 1'-0"



**PLAN**  
Scale: 1/2" = 1'-0"

**GENERAL NOTES**

Class X Concrete shall be used thruout except as noted  
Handrail Concrete shall be used in rails and posts  
The Concrete Girder and Floor Slab shall be poured in  
one continuous operation between joints on either side  
of the existing structure except for work shown to be  
poured after falsework has been removed  
The Floor Slab shall be finished in accordance with the  
applicable provisions of Sec. 29 of the Standard Specs.  
The Handrail shall not be poured until after the  
falsework has been removed.  
The contract unit price for Expansion Bolts shall  
include furnishing, drilling holes, and setting Expansion  
Bolts.  
The back of proposed main walls and wing walls,  
from top of slab, or top of wall, to top of footing  
shall be waterproofed.  
Back filling behind abutments shall be in accordance  
with Art. 50.10 of the Standard Specifications.  
No piles under the existing structure.  
Contractor shall excavate channel as shown  
between limits of right of way.

Boring No. 1  
Sta. 133+06  
25' x 4" S

DEPTH	SOIL DESCRIPTION
186.0	Stiff Black Silty Clay
185.5	Ruptured
180.0	Hard Red & Blue Mottled Gravelly Clay
175.0	Hard Red & Brown Mottled Gravelly Clay
170.0	Hard Red & Gray Mottled Clay
165.0	Soft Brown Gray Shale
160.0	

Boring No. 2  
Sta. 133+35  
25' x 4" S

DEPTH	SOIL DESCRIPTION
184.7	Stiff Blue Silty Clay
185.0	Very Stiff Dark Brown Mottled Clay
180.0	Hard Red Mottled Clay
175.0	Hard Mottled Stony Clay
170.0	Hard Clear Red-Brown Clay
165.0	Hard Red & Gray Interbedded Clay-Clear
160.0	Hard Red & Gray Interbedded Clay - Brittle
155.0	Basal Clay-Shale Contact Zone
150.0	Soft Gray Shale
142.0	

STATION 133+80  
BUILT 195-BY  
STATE OF ILLINOIS  
S.B. RT. 2 SEC. 68 BY  
MARSHALL COUNTY  
LOADING H-20

**NAME & DATA**  
See Standard 613

**TOTAL BILL OF MATERIAL**

ITEM	SUPPLY	SUB	TOTAL
Class X Concrete	Cu. Yds. 55.5	92.0	147.5
Handrail Concrete	Cu. Yds. 8.5		8.5
Reinforcement Bars	Lbs. 9140	5010	14150
Masonry Removal	Cu. Yds. 170	40	210
Expansion Bolts	Pa. 18	48	60
Name Plates	Pa.		1
Class B' Excess for Struct.	Cu. Yds.		56.0
Class B' Excess for Struct.	Cu. Yds.		2470
Bit Cons. Surf. Co. Sub Class III Tons			5
Bit Materials (Prime Coat) Bats.			6
Channel Excavation	Cu. Yds.		300

Note:  
N = Blows per ft. of penetration of  
sampling spoon. Hammer wt. 350 lbs.  
Drop = 18"  
S = Unclassified compressive strength  
in tons per sq. ft.

**STRESSES**

$f_s = 20,000$  p.s.i. Reinf.  
 $f_c = 1,400$  p.s.i. Super  
 $f_c = 900$  p.s.i. Sub.  
 $n = 10$   
Loading H-20-44

DESIGNED F.M. Schile  
CHECKED W. H. Sommer  
DRAWN F.M. Schile  
CHECKED W.H.S.

EXAMINED W. H. Sommer  
PARSED E. H. ...  
APPROVED F.M. Schile

July 23 1953

**GENERAL PLAN & ELEVATION**

S.B.I. RT. 2 SECTION 68 BY  
MARSHALL COUNTY  
STATION 133+80