

**THIS DETAIL IS INCLUDED FOR INFORMATION ONLY**

B.M. Top of R.O.W. Marker Right  
Sta. 71+90 Elev. 102.38

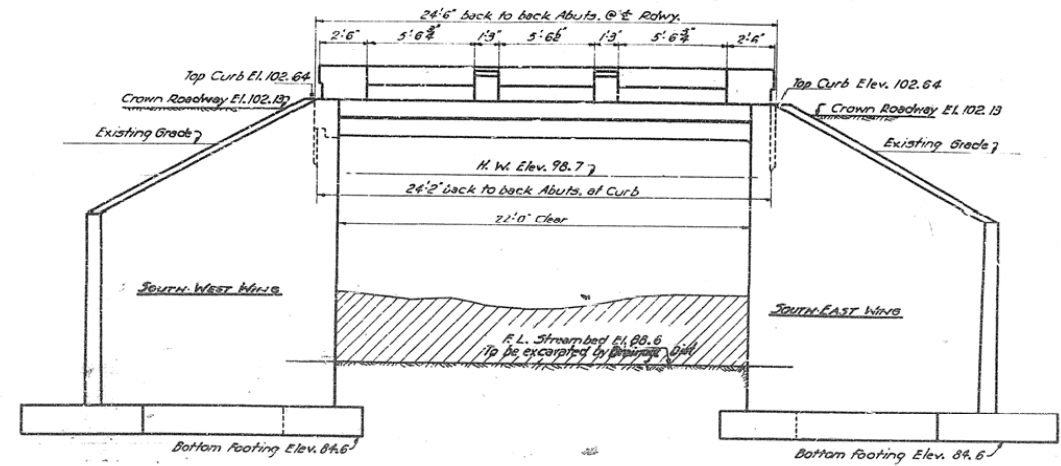
Existing Structure: 22'-0" R.C. 36" x 39'-0" Roadway  
on R.C. Substructure. To be removed  
before new Bridge is built

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

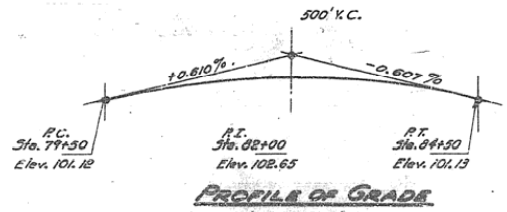
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
121	143 BR	DOUGLAS	11	4
SHEET NO. 1				
3 SHEETS				

**GENERAL NOTES**

Class X Concrete shall be used throughout except in Handrail.  
Handrail Concrete shall be used in Handrails.  
The concrete floor slab shall be finished in accordance with the  
applicable provisions of the Standard Specifications.  
The following surfaces of the bridge shall be waterproofed:  
the back of abutments and wingwalls from ground line to the top of footing.  
Waterproofing shall be done in accordance with Art 51.20 of the Standard Specifications.  
Drain Holes shall be constructed in accordance with Art 51.5 of the Standard Specifications.  
Boring Data are shown only, as a guide to bidders in estimating  
soil conditions which may be encountered in the work.



**ELEVATION**  
Scale: 1/4" = 1'-0"



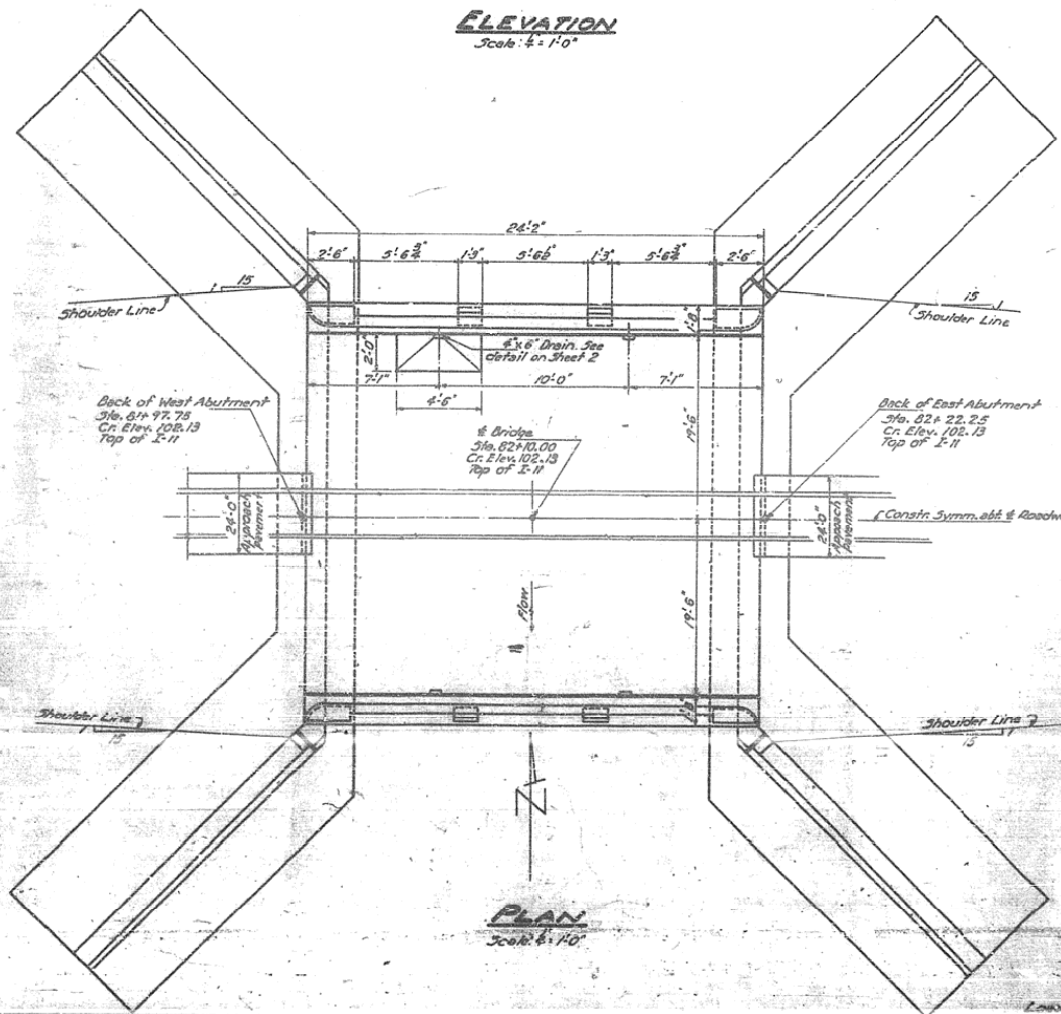
**PROFILE OF GRADE**

**WATERWAY INFORMATION**

Drainage Area: 30.80 Acres  
Character: Level Cultivated  
Required Opening (C133 Method): 136 Sq. Ft.  
Present Opening: 147 Sq. Ft.  
Proposed Opening: 222 Sq. Ft.

**DESIGN STRESSES**

Jc: 1400 lbs./sq. in.  
Jc: 800 lbs./sq. in. (Substr.)  
Jc: 20000 lbs./sq. in. (Rebar)  
n: 10



**PLAN**  
Scale: 1/4" = 1'-0"

BORING	STATION	DEPTH	SOIL DESCRIPTION
BORING 1	27+14.8 Sta. 82+20	0-10	Top Soil
BORING 2	26+14.8 Sta. 82+00	0-10	Top Soil
BORING 3	26+14.8 Sta. 81+22	0-10	Top Soil
BORING 4	26+14.8 Sta. 82+00	0-10	Top Soil

Weight Hammer 170 Lbs.  
Drop 2'-0"  
N - number blows per foot  
Cu - unconfined compressive strength tons per sq. ft.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER.	SUB	TOTAL
Class-X Concrete	Cu. Yds.	64.0	148.8	192.8
Handrail Concrete	Cu. Yds.	1.3		1.3
Reinforcement Bars	Lbs.	10940	18840	24780
Removal of Existing Structure	Each		1	1
Name Plates	Each		1	1
Class-B Exc. For Structures	Cu. Yds.		124.0	124.0

STATION 82+10  
BUILT 195 BY  
STATE OF ILLINOIS  
S.B.I. RT. 121 - SEC. 143 BR.  
LOADING H20-516

LETTERING FOR NAME PLATE  
See Standard 2113

DESIGNED: J. P. Sabatino  
CHECKED: J. P. Sabatino  
DRAWN: J. P. Sabatino  
CHECKED: J. P. Sabatino

APPROVED: W. B. Hamstra  
APPROVED: J. P. Sabatino  
APPROVED: J. P. Sabatino

DATE: April 27, 1954

**GENERAL PLAN & ELEVATION**  
S.B.I. RT. 121 - SEC. 143 BR.  
DOUGLAS COUNTY  
STATION 82+10