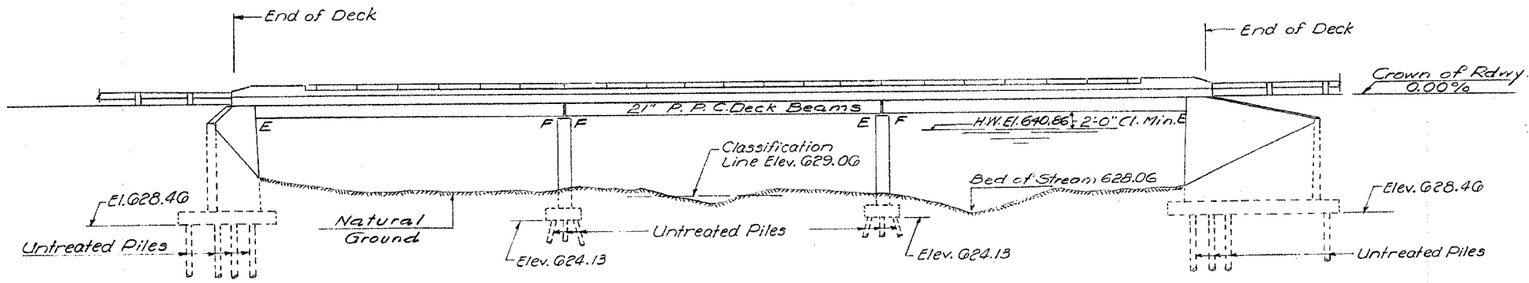
B.M.: "a" S.W. Corner Bridge Abut. Elev. 645.46
Existing Structure: Steel thru truss
24'-8" x 140'. Built in 1930 as Sec. 102 C
SBI 88. Closed R.C. Abuts. Bridge Contractor
to remove existing superstructure.
No Salvage. Temporary bridge required.

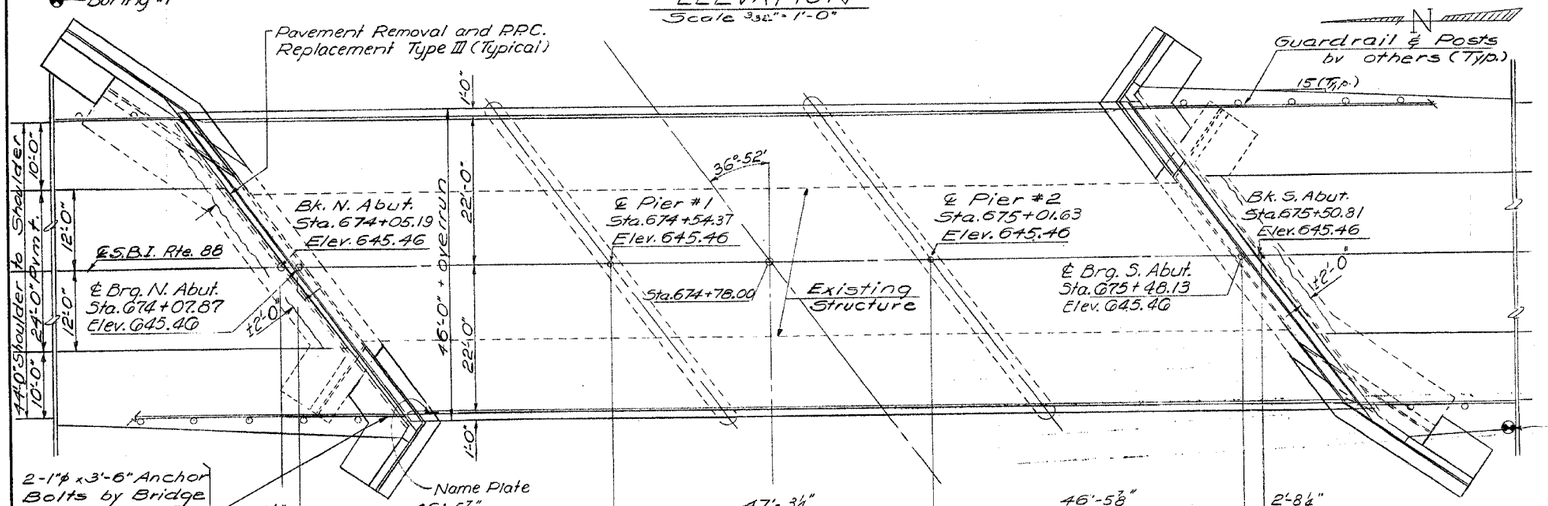
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 646	(102)BR-2	WHITESIDE	69	46
CONTRACT #64427				

SHEET NO.
SHEETS



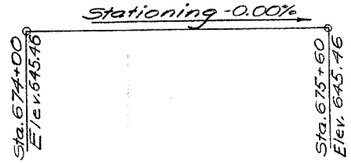
ELEVATION
Scale 3/32" = 1'-0"



STATION 674+78
BUILT 197 BY
STATE OF ILLINOIS
S.B.I. RT. 88 SEC. 102BR
LOADING H520

NAME PLATE
See Std. 2113-1

Stationing - 0.00%



PROPOSED PROFILE S.B.I. RTE 88

PLAN

Flow

DESIGNED	Stanley Shum Tsai Lin	
CHECKED	R. L. mathur	
DRAWN	jacobs	
CHECKED	R. L. mathur	

EXAMINED May 13 1970
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED W. E. Bonnamann
ENGINEER OF DESIGN
APPROVED Richard H. Hotterman
CHIEF HIGHWAY ENGINEER

WATERWAY INFORMATION

Drainage Area	233,600 Acres	
Character	Rolling, Sand, Wooded, Cultivated	
Required Opening	(50 Yr. Fl.)	1270 Sq. Ft.
Present Opening		1270 Sq. Ft.
Proposed Opening		1270 Sq. Ft.

Q(50) = 8110 c.f.s.

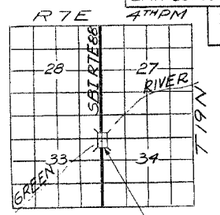
PRECAST PRESTRESSED UNITS

f'c = 5,000 psi
fci = 4,000 psi
f's = 248,000 psi (Strands)
fsi = 173,600 psi (Strands)

DESIGN STRESSES

fs = 20,000 psi (Reinf. & Struct.)
fc = 1,400 psi (Curb & Parapet)
fc = 1,000 psi (Wings & Sub.)
v = 90 psi
n = 10

LOADING H520-44



LOCATION SKETCH

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

The Contractor shall drive 2 timber test piles in a permanent location 1 at Pier 2 and 1 at S. Abutment as directed by the Engineer before ordering the remainder of piles.

It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.

An alternate strand pattern using Extra High Strength Prestressing strand (270 k.s.i.) is permitted.

The concrete rail section above the top of PPC. Deck Beams shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

Protective Coat shall not be applied to surfaces to which Coal Tar Interlayer Protective Coat is applied.

Expansion bolts shall consist of self drilling expansion anchors and ¾"ϕ x 12" hooked bolts.

TOTAL BILL OF MATERIAL

Item	Unit	Super.	Sub.	Total
Bituminous Concrete Surface Course, Class I	Tons	61		61
Removal of Existing Super-Str.	Each	1		1
Concrete Removal	Cu. Yds.		21	21
Expansion Bolts ¾"	Each		216	216
Class A Excav. for Structures	Cu. Yds.		550	550
Class B Excav. for Structures	Cu. Yds.		250	250
Protective Coat	Sq. Yds.	110		110
Test Pile Timber	Each		2	2
Class X Concrete	Cu. Yds.	30.5	397.0	427.5
Aluminum Railing	Lin. Ft.	254		254
P.P. Concrete Deck Beams (21")	Sq. Ft.	6509		6509
Reinforcement Bars	Lbs.	3160	42190	45350
Name Plates	Each	1		1
Coal Tar Interlayer Prot. Coat	Sq. Yds.	670		670
Pavement Removal & P.C.C. Replacement, Type III, 10"	Sq. Yds.			13
Untreated Piles Up to 30'	Lin. Ft.		2310	2310
Untreated Piles 30.1 to 45'	Lin. Ft.		2625	2625
Temporary Bridge Complete	Each			1

GENERAL PLAN & ELEVATION

S.B.I. RTE. 88 OVER GREEN RIVER
S.B.I. RTE 88 - SECTION 102 BR
WHITESIDE CO.
STA. 674+78