

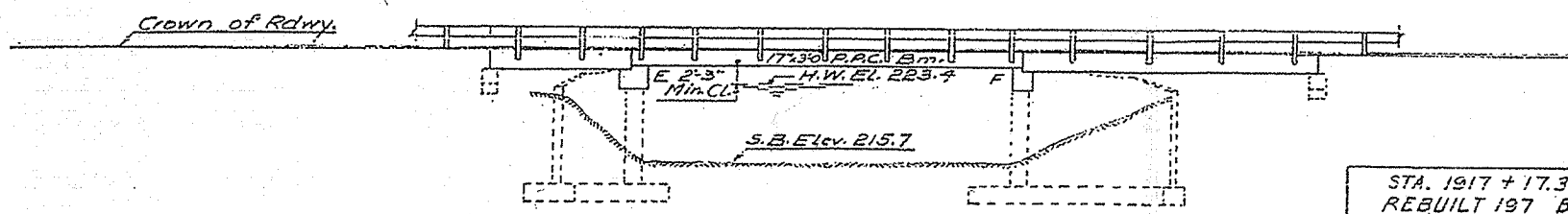
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	DATE	BY
S.B.I.9	*	McLEAN	65 51
* 21, 22 (R, W & RS), 21BR, 21BR-1 & 22BR			

B.M. Square cut in Wingwall, 13' Rt. Sta. 1917+11
Elev. 227.51
Existing Structure No 057-0076 @ Sta. 1917+18
built in 1924 as S.B.I. Rte. 9, Sec. 22.
Existing Conc. Bms to be removed and
replaced with 11-17"x8'-0" P.C. Beams.
Existing Abutments to be rebuilt as
required by Bridge Contractor. Traffic
shall be detoured during reconstruction.
No Salvage.

GENERAL NOTES

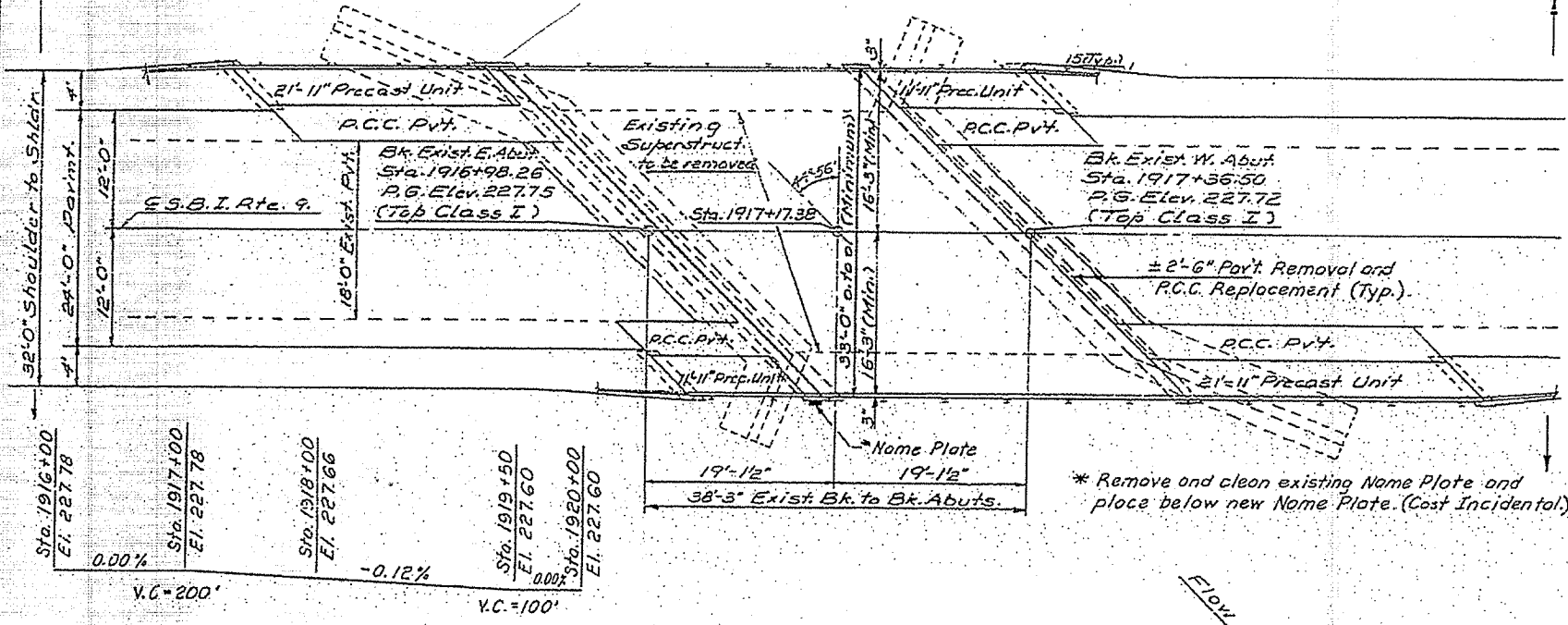
It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.
The top surfaces of the beams shall be finished in accordance with article 505.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.
The limits of Bituminous Concrete Surface Course shall be out to out of deck and 2 feet beyond the back of each abutment.
For Waterproofing Membrane System see Special Provisions.
Expansion bolts shall consist of self drilling expansion anchors and 3/4" x 12" hooked bolts.



STA. 1917 + 17.38
REBUILT 197 BY
STATE OF ILLINOIS
S.B.I. RTE 9 SEC. 22 BR
LOADING HS 20

NAME PLATE
See Std. 2113

ELEVATION



* Remove and clean existing Name Plate and place below new Name Plate. (Cost Incidental)

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Bit. Concrete Surface Course, Mixture D, Class I	Tons	15		15
Portland Cement Concrete Pavt. (10")	Sq. Yds.	23		23
Pavement Fabric	Sq. Yds.	23		23
Concrete Removal	Cu. Yds.		10	10
Expansion Bolts (3/4" Dia.)	Each	80	43	123
Class X Concrete	Cu. Yds.	3.8	23.7	27.5
P.C. Deck Beams (17")	Sq. Ft.	1216		1216
Portland Cement Mortar Facing Course	Lin. Ft.	368		368
Steel Rebar, Type 5	Lin. Ft.	145		145
Reinforcement Bars	Lbs.	150	3140	3290
Waterproofing Membrane System	Sq. Yds.	144		144
Name Plates	Each		1	1
Precast Concrete Bridge Slab	Sq. Ft.	254		254
Furnishing and Erecting Structural Steel	Lbs.	3290		3290
Preformed Joint Sealer (2 1/2")	Lin. Ft.	47		47
Removal of Existing Superstructure	Each	1		1
Pavement Removal and P.C. Replacement, Type 2 (10")	Sq. Yds.	10		10

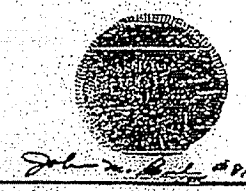
* Includes Surfacing of P.C. Deck Beams only.

PROFILE GRADE SBI RTE. 9

PLAN

DESIGN STRESSES

DESIGNED	G. F. Kogut
CHECKED	J. M. Buba
DRAWN	G. A. Sebastian
CHECKED	G. F. Kogut

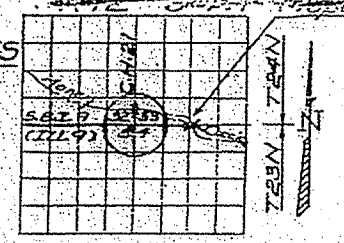


WATERWAY INFORMATION

Drainage Area: 8.1 Sq. miles
Character: Level, Cultivated, Farmland
Present Opening: 177 ft
Required Opening: 177 ft
Proposed Opening: 177 ft
Q₅₀ = 1168 cfs
Δ = 0.27
HWE = 223.4

FIELD UNITS	PRECAST UNITS
f _c = 1400 psi (sub)	f _c = 4,500 psi
f _s = 20,000 psi (Rein.)	f _s = 180,000 psi
n = 10	n = 8

Loading HS20-44 (New Constr.)
1973 AASHTO, 1974 and 1975 Interim Specifications.
Allow 25% for Future W.S.



LOCATION SKETCH

GENERAL PLAN & ELEVATION
SBI RTE. 9 OVER MONEY CREEK
SBI RTE. 9 SEC. 22 BR

McLEAN CO.
STA. 1917 + 17.38

FOR INFORMATION ONLY