

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

*105(B-DR, B-DR-1, B-DR-2, B-DR-3, B-DR-4)
SHEET NO. 7
105 BR 3

Exist. Struct. Built in 1932 as S.B.I. Rte 143. Sec. 105B of Sta. 1574+00. 2 Span R.C. Deck Girders on R.C. closed abutts. & solid R.C. Pier. Superstructure to be removed, substructure widened and new deck constructed utilizing stage construction. No salvage.
5 Ft. Spikes w/aster in roof 10' Lim. G.C. Lt. Sta. 1574+00 Elev. 358.73

WATERWAY INFORMATION

Drainage Area Saline River 103 Sq. Mi. 23
Banksion Fork 79 Sq. Mi. 23
Character - Rolling, clay, wooded, cultivated
Present Opening for Overflow 90' x 5' Ft.
Reg'd. Opening for Overflow 90' x 5' Ft.
Proposed Opening for Overflow 90' x 5' Ft.
Q(50) Saline River 6550 cfs
Q(50) Banksion Fork 7000 cfs

**PROPOSED PROFILE GRADE
S.B.I. 143**

FIELD UNITS
F_c = 1400 psi (Sub)
F_s = 20000 psi (Reinf)

PRECAST UNITS
F_c = 4300 psi
F_c = 1300 psi
F_s = 20000 psi
n = 8

PRECAST PRESTRESSED UNITS
F_c = 5000 psi
F_c = 4000 psi
F_s = 27000 psi 122 Strands
F_s = 183,700 psi 122 Strands
Allow for 25# 1/2" Ft. for Fut. W.S.
Design Specification 1969 AASHTO
(as applicable)
LOADING HS20-44

GENERAL NOTES

All reinforcement bars shall be lap spliced 100 diameters unless otherwise shown.
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.
Expansion bolts shall consist of hot dipped galvanized anchors and 1/2" dia. hooked bolts. Method bolts shall be set in concrete of 12" into new concrete unless otherwise shown.
Shoulder transition to adjacent shall be sloped with broken concrete. Cast in place.
The top surface of the bms. shall be finished in accordance with Art. 505.06 of the Std. Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depression or high spots with sharp corners.
All structural steel shall be shop painted with two coats of base lead silico chromate paint.

**STATION 1574+00
REBUILT 197 BY
STATE OF ILLINOIS
FAP RTE 16 Spur SEC. 105B-DR-2
FAP PROJ. RF-375(10)
LOADING HS20**

**NAME PLATE
See Std. 215**

**GENERAL PLAN & ELEVATION
BANKSTON FORK SALINE
RIVER OVERFLOW
FAP RTE 16 Spur SEC. 105B-DR-2
SALINE COUNTY
STA. 1574+00**

DESIGNED J. Jacobs
CHECKED J. Jacobs
DRAWN J. Jacobs
CHECKED J.V.

EXAMINED J. Jacobs
PASSED
APPROVED

SEPTEMBER 14 1971

DESIGNER OF RECORD

PROPOSED IMPROVEMENT

LOCATION SKETCH