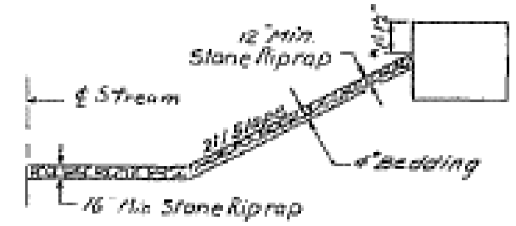
B.M. - Railroad spike in telephone pole 38.5' Rt. Sta. 25+77 Elev. 100.00'
Existing structure: #053-0069 Bu. 'l as S.B.I. Rte. 116 Sec. 115 OR at Sta. 24+85, in 1928 - 32'-4" Bk.-Bk. R.C. single span slab structure supported on closed abutments, and 32'-1" o. to o. of slab. Contractor shall remove the existing superstructure and part of substructure and replace it with 21" P.P.C. Dk. Bms. The Rd. will be closed during construction. No salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

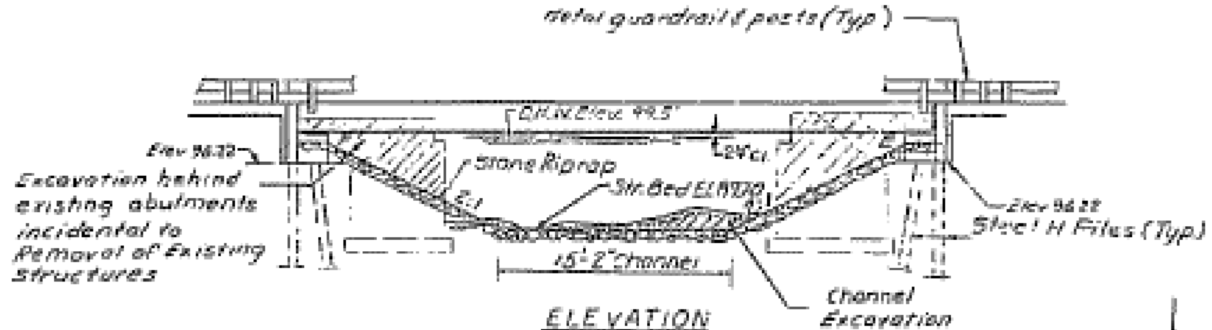
Sheet No. 1 / 4 Sheets



SEC. THRU STONE RIPRAP
* Below low seat elevation

GENERAL NOTES

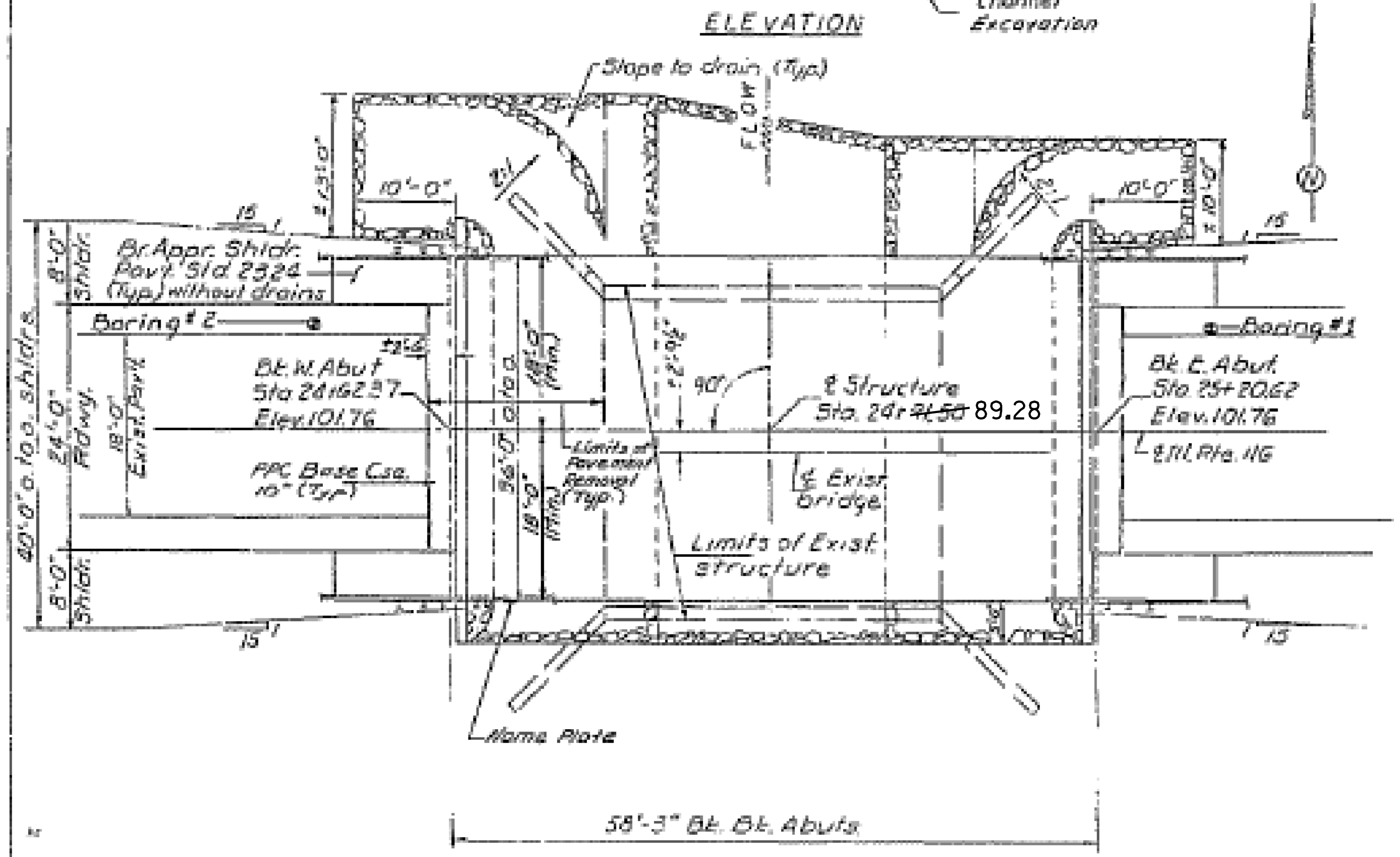
See Proposal for Boring Data.
All structural steel shall be shop painted with two coats of basic lead silico chromate paint.
Layout of stone riprap may be varied in the field to suit ground conditions as directed by the Engineer.
The Contractor shall drive one steel test pile in a permanent location of East Abut. as directed by the Engineer before ordering the remainder of piles.
The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Spec. except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of ¼".
Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.
A Calcium Nitrite Corrosion Inhibitor, as covered in the Spec. Prov., shall be used in the concrete for PPC. deck beams.



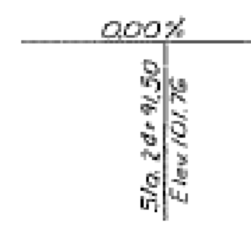
ELEVATION

STATION 24+~~91.50~~ 89.28
BUILT 198 BY
STATE OF ILLINOIS
F.A. RT. 681 SEC. 113BR
F.A. PROJ. M-BR-F-681(9)
LOADING HS20
STR. NO. **

NAME PLATE
See Std. 2113
** Struct. No. to be supplied by the District



PLAN



PROFILE GRADE
Along ℄ Rdwy.

TOTAL BILL OF MATERIAL

ITEM	Unit	Super	Sub.	Total
Pavement Removal	Sq. Yds.	62		62
Bit. Concrete Surface Course, Class I	Tons	21		21
Port. Cement Concr. Base Course 10"	Sq. Yds.	14		14
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yds.		90	90
Class X Concrete	Cu. Yds.	6.4	42.1	48.5
PPC. Deck Beams (21" depth)	Sq. Ft.	1984		1984
Structural Steel	Lbs.	2560		2560
Steel Railing, Type S-1	Lin. Ft.	117		117
Reinforcement Bars	Lbs.	110	3200	3310
Steel Piles HP 8x36	Lin. Ft.		280	280
Test Pile Steel HP 8x36	Each		1	1
Name Plates	Each	1		1
Stone Riprap	Sq. Yds.			360
Port. Cement Mortar Fairing Course	Lin. Ft.	606		606
Preformed Joint Seal 2½"	Lin. Ft.	37		37
Waterproofing Membrane System	Sq. Yds.	224		224

WATERWAY INFORMATION

Drainage 11.01 Sq. Mi. Low Grade Elev. 101.76 (Prop.) 101.0 (Exist.)									
Flood	Freq. Yrs.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	1854	217	320	99.3	1.74	0.0	101.04	99.3
Base	100	2125	217	332	99.7	1.78	1.0	101.48	100.7
Max. Calc.	500	2755		352	100.1		1.58		101.68

DESIGN STRESSES

PRECAST PRESTRESSED UNITS

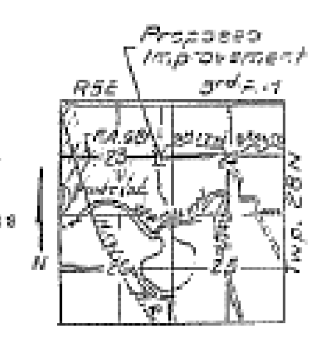
f'c = 5,000 p.s.i.
f'ci = 4,000 p.s.i.
f's = 270,000 p.s.i. ½" ϕ strands
fsi = 189,000 p.s.i. ½" ϕ strands

Design Specifications: 1977 AASHTO 1978, 1979, 1980 & 1981 Interim Specifications

FIELD UNITS

f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (Reinf.)

LOADING HS20-44
Allow 25 lbs./sq. ft. for future wear. surf.



LOCATION PLAN

DESIGNED	Robert T. Dow
CHECKED	Stuart K. Drumm
DRAWN	F.M.
CHECKED	SKD

January 7, 1982
EXAMINED ... PASSED ... APPROVED

GENERAL PLAN
ILL. RTE. 116 OVER SMITH BRANCH
F.A. RTE. 681 SEC. 113 BR
LIVINGSTON COUNTY
STA. 24+~~91.50~~ 89.28

1-1-83 2-1-83, 2-8-83 Rev. RTB Rev. 2/16/83 EAS

FILE NAME = c:\pw_work\pwidot\schwankerg\dms31786\D366832-sht-existing-bridge-plans.dgn	USER NAME = schwankerg	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/11/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
FOR INFORMATION ONLY

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
681	(113 BR)BR & (113 BR-1)BR	LIVINGSTON	123	53
		CONTRACT NO. 66832		
	ILLINOIS FED. AID PROJECT			