

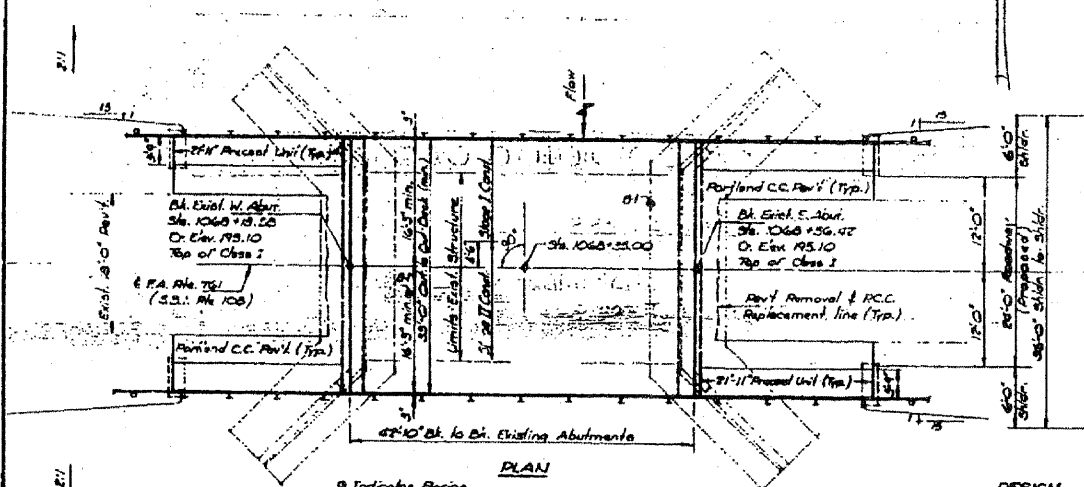
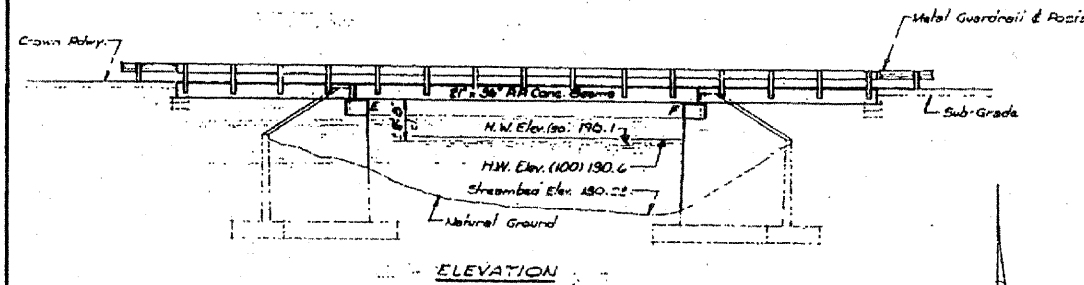
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHKD	APPD	NO.
12/18/2008	herbaugh	herbaugh	herbaugh	1

3.01: Cut in N.E. Wingwall left Sta. 1068+35 Elev. 196.04
Existing Structure: @ Sta. 1068+22, built in 1929 as S.B.1, Rte 100 Section 104-B. Existing Superstructure to be removed & replaced with RA Conc. Deck Beams. Utilizing stage construction. Abutments to be widened to accommodate the new Superstructure. Structure No. 031-0024
Stage Construction shall be utilized so as to maintain oneway traffic at all times.

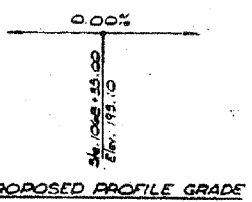
GENERAL NOTES

See the proposal for Boring Data.
All structural steel shall be shop painted with two coats of basic lead silico chromate paint.
Expansion guards which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07(c) of the Standard Specs. and are included in quantity of Structural Steel.
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 surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specs. except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners.
Expansion bolts shall consist of self drilling expansion anchors and 1/2" x 1" hooked bolts.
Reinforced bars in the field units shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.



STATION 1068+35
REBUILT BY
STATE OF ILLINOIS
FA. RT. 761 SEC. 104-BR-1
EA. PROJ.
LOADING HS-20
STR. LD. 031-0024

GRADE PLATE
(See 304.2113)



TOTAL BILL OF MATERIAL

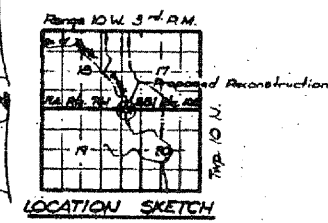
Item	Unit	Super.	Sub.	Total
Continuous Concrete				
Surface Course Class 1	Tons	15.7		15.7
Portland Cement Concrete				
Placement (10')	Sq. Yds	37		37
Removal of Existing	Sq. Yds	37		37
Superstructure	Cash	1		1
Concrete Removal	Cu. Yds		9.9	9.9
Expansion Grout 3/4"	Cash	34		34
Class 1 Concrete	Cu. Yds	7	20.5	27.5
Pre-Cast Beams (10')	Sq. Yds	1400		1400
Reinforcing Bars 3/8"	Sq. Yds	165		165
Structural Steel	Lbs.	2300		2300
Steel Plates 3/8"	Lbs.	175		175
Reinforcing Bars	Lbs.	110	2240	2350
Formwork	Cash	1		1
Removal of P.C.C.				
Reinforcement Top 1 (10')	Sq. Yds	10		10
Temporary Overhaul	Lbs.	45		45
Painting & Seal (RT)	Lbs.	35		35
Portland Cement Mortar	Lbs.	414		414
Formwork	Sq. Ft.	379		379

WATERWAY INFORMATION
Drainage Area = 4.65 Sq. Mi.
Required Opening = 346 Sq. Ft.
Existing Opening = 346 Sq. Ft.
Proposed Opening = 346 Sq. Ft.
Q₅₀ = 5000 cfs.
Q₂₀ = 2300 cfs.
Created Head = 1.5'

DESIGN STRESSES
FIELD UNITS
f_c = 4,500 psi
f_t = 1,800 psi
f_s = 20,000 psi
n = 8

PRECAST UNITS
f_c = 5,000 psi
f_t = 4,000 psi
f_s = 270,000 psi (1/2" Strand)
f_s = 188,000 psi (3/8" Strand)

LOADING HS-20-44
Allow 65' span for future wearing surface.
Design Specification: AASHTO 1973, 1974, 1975, 1976 and 1977 Interim Specifications.



GENERAL PLAN & ELEVATION
FA. RT. 761 (S.B.1 Rte. 100) Over
Approach of TAYLOR CREEK
FA. RT. 761 SECTION 104-BR-1
GREENE COUNTY
Sta. 1068+35.00
0024

FOR INFORMATION ONLY

FILE NAME = c:\p\work\PIWIDOT\HARBAUGH\RD\dms51689\m01506a.dgn	USER NAME = herbaugh	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION DETAILS (SN 031-2012)	SCALE: NTS	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.	F.A.P. RTE. 761	SECTION 104-BR-2	COUNTY GREENE	TOTAL SHEETS 82	SHEET NO. 35
PLOT SCALE = 1/8" = 1' IN.	CHECKED -	REVISED -	CONTRACT NO. 76987											
PLOT DATE = 12/18/2008	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT											