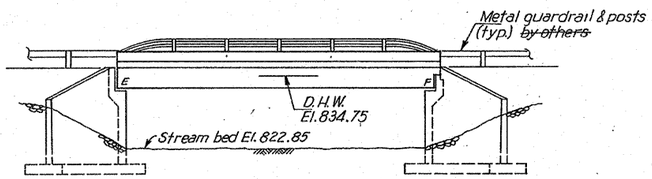
Bench Mark
Rivet in the top of the N.E. Wingwall El. 835.92

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. F.A. 17	126(B-1)R	DEKALB	16	9
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SHEET NO. 1
9 SHEETS 8



ELEVATION

TOTAL BILL OF MATERIALS				
ITEM	UNIT	SUPER.	SUB.	TOTAL
Bituminous Concrete Surface Course, Class I	Tons	35.2	—	35.2
Removal of Existing Superstructure	Each	1	—	1
Concrete Removal	Cu. Yds.	—	2.8	2.8
Expansion Bolts ¾ inch	Each	—	110	110
Protective Coat	Sq. Yds.	85	—	85
Class X Concrete	Cu. Yds.	30.2	27.4	57.6
Precast Prestressed Conc. Deck Beams (21" depth)	Sq. Ft.	2584	—	2584
Structural Steel	Lbs.	2800	—	2800
Aluminum Railing, Type L	Lin. Ft.	98	—	98
Reinforcement Bars	Lbs.	1580	3750	5330
Reinforcement Bars (Epoxy Coated)	Lbs.	1180	—	1180
Name Plates	Each	1	—	1
Temporary Bridge Rail	Lin. Ft.	54	—	54
Preformed Joint Seal 2½"	Lin. Ft.	54	—	54
Stone Riprap	Sq. Yds.	140	—	140
Waterproofing Membrane System	Sq. Yds.	227	—	227
Portland Cement Mortar Fairing Course	Lin. Ft.	810	—	810

STATION 78+50.00
RE-BUILT 198 BY
STATE OF ILLINOIS
F.A. RT. 17 SEC. 126(B-1)R
F.A. PROJ. BH-F-17 (69)
LOADING HS 20
STR. No. 019-0013

NAME PLATE
See Standard 2113

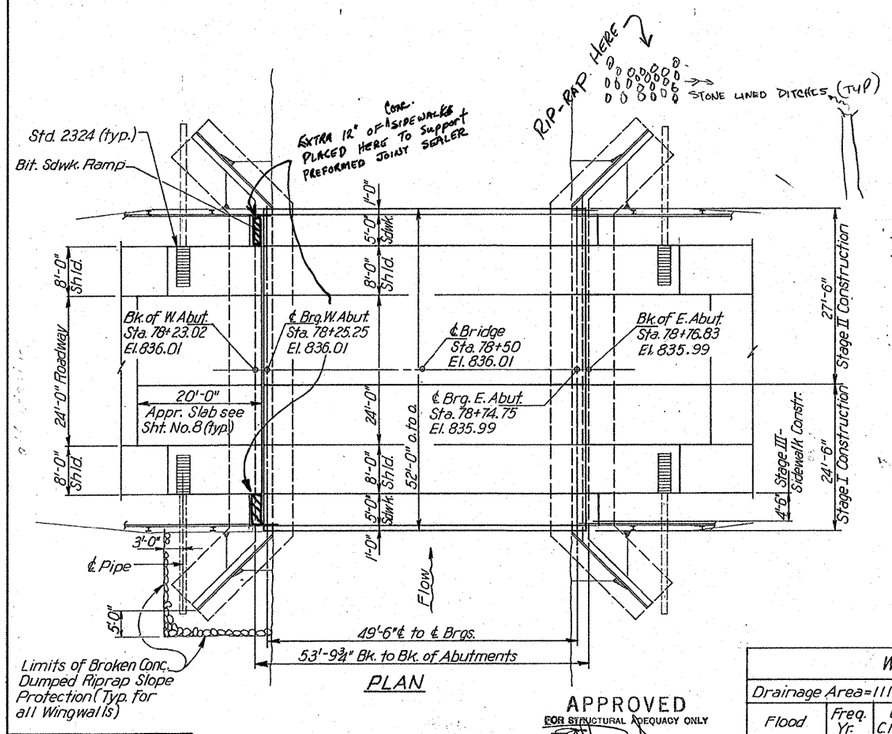
GENERAL NOTES:

DESIGN SPECIFICATIONS:
A.A.S.H.T.O. 1977 Standard Specifications for Highway Bridges, and 1978, 1979 & 1980 Interims.
Standard Specifications for Road and Bridge Construction State of Illinois dated Oct. 1, 1979
DESIGN CRITERIA:
Load Factor Design
Live Load: HS 20-44

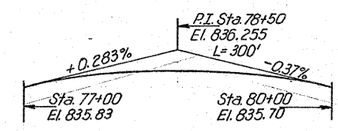
Lateral Load: 50 p.c.f. equivalent fluid pressure with 2 ft. height of surchage.
Allow 25 p.s.f. for future wearing surface.
DESIGN STRESSES:

Reinforced Concrete	Precast Prestressed Units
f'c = 3500 psi	f'c = 5,000 psi
fc = 1400 psi	f'ci = 4,000 psi
	f's = 270,000 psi
	f'si = 189,000 psi

REINFORCEMENT:
fy = 60,000 psi
CONSTRUCTION:
All structural steel shall be shop painted with two coats of basic lead silico chromate paint.
Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions & details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
The top surface 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, and the top edge of keys shall be rounded or chamfered a minimum of ¼".
Expansion bolts shall consist of approved certified expansion anchors, providing certified minimum proof load = 4,080 lbs., and ¾"ϕ x 12" hooked bolts.
Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.
Shoulder transition to wingwall shall be shaped with broken concrete. Cost incidental.
Protective Coat shall not be applied to surfaces to which waterproofing membrane system is applied.
TRAFFIC:
All barricades, signs and other traffic control devices and their placement installed for the purpose of temporarily maintaining traffic during construction shall be in full conformance with the Illinois State Manual on Uniform Traffic Control Devices, unless otherwise noted.
The Contractor shall procure, install and remove all temporary pavement markings as per the traffic phasing shown on the plans or as directed by the Engineer.
A Calcium Nitrite Corrosion Inhibitor, as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.



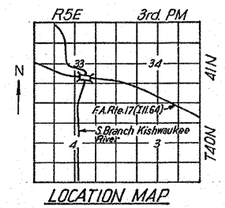
PLAN



PROFILE GRADE @ ℄ F.A. ROUTE 17 (ILL. 64)

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Engineer of Bridge & Structures

WATERWAY INFORMATION										
Drainage Area = 111 Sq. Mi. Low Gr. El. = 835.45 @ Sta. 80+00										
Flood	Freq. Yr.	Q C.F.S.	Opng. Sq. Ft. Exist.	Opng. Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	5590	415	415	834.75		0.25	835.0	835.0
Base	100	6365			835.01		0.19	835.20	835.20
Overtopping	2	1755						832.80	832.80
Max. Calc.	500								



LOCATION MAP

REVISIONS	
NAME	DATE

GENERAL PLAN AND ELEVATION
F.A. ROUTE 17 (ILL. 64)
SECTION 126 (B-1) R
DEKALB COUNTY
STA. 78+50.00

SCALE: VERT. HORIZ.
DATE 7-22-81

DESIGNED	J.M.P.	
CHECKED	S.F.	
DRAWN	K.A.C.	
CHECKED	J.M.P.	

Sandor Ferenci

FILE NAME = sheets03.dgn	USER NAME = randy	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 8/18/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
FOR INFORMATION ONLY

SCALE: | SHEET NO. 7 OF 14 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	126 (B-1)BR	DEKALB	62	45
		CONTRACT NO. 66987		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		