98676

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 778	(2B-1)-1	SALINE	74	43
FED. ROAD DIST. NO. 9	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
8 SHEETS

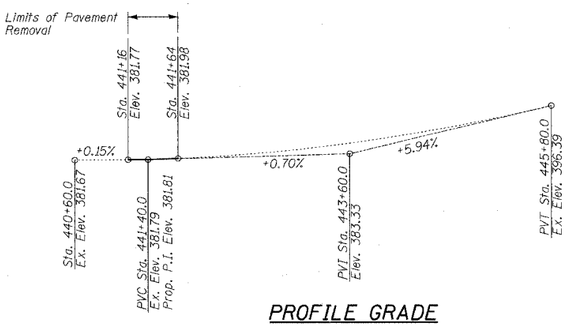
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Bench Mark: I. Pin w/Cap Sta. 442+24±, 34' Lt. El. 384.42

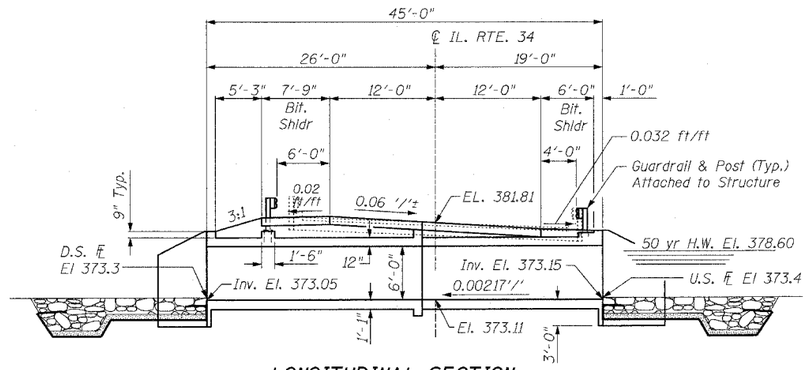
Existing Structure: S.N. 083-0047 built in 1923 as a single span closed abutment structure with a reinforced concrete slab measuring 20'-0" clear face to face of abutments, and out to out deck width of 32'-3" , and 0° skew. Structure to be removed and replaced.

Traffic to be maintained utilizing stage construction

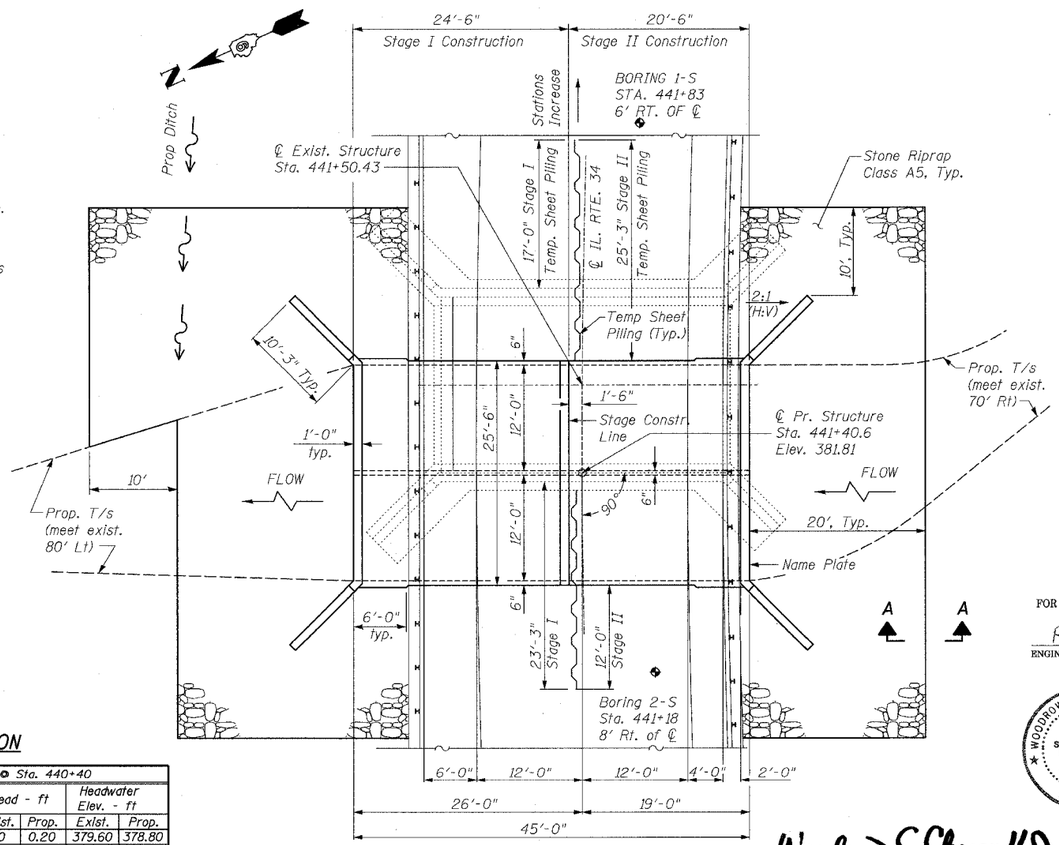
No Salvage



PROFILE GRADE
(Along ℄ Roadway)
(Existing & Proposed)



LONGITUDINAL SECTION



PLAN

GENERAL NOTES

1. *Reinforcement bars shall conform to the requirements of AASHTO M 31, M 42 or M 53 Grade 60.*

2. *Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.*

3. *All construction joints shall be bonded.*

4. *Excavation behind existing abutment walls shall be done before removing the existing superstructure. The contractor shall sawcut the existing abutments at the stage removal line before Stage I removal.*

5. *Precast alternate is not allowed.*

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A5	Sq. Yd.	339
Filter Fabric for use with Riprap	Sq. Yd.	339
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	23400
Temporary Sheet Piling	Sq. Ft.	846
Temporary Bridge Rail	Foot	23
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	127.0
Steel Plate Beam Guardrail Attached to Structures	Foot	63
Bar Splicers	Each	122

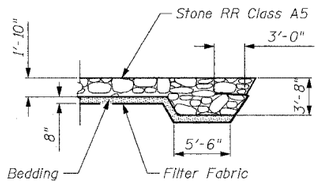
EXIST. RTE 34
PI STA. = 438+50.65
Δ = 34° 11' 51" (RT)
D = 5° 05' 12"
R = 1,126.42'
T = 346.51'
L = 672.31'
E = 52.09'
P.C. STA. = 435+04.15
P.T. STA. = 441+76.46

HORIZONTAL CURVE DATA

LOADING HS20-44
Allow 50#/sq ft for future wearing surface.

DESIGN SPECIFICATIONS
AASHTO (1996) with 1997 thru 2002 Interims

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinf.)



SECTION A-A FLANK DETAIL

STATION 441+40.60
BUILT 200 BY
STATE OF ILLINOIS
F.A.P. 778 SEC. (2B-1)-1
LOADING HS20
STR. NO. 083-2016

NAME PLATE
See Std. 515001

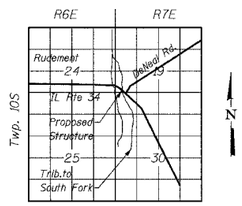
WATERWAY INFORMATION

Drainage Area = 0.57 mi² Low Grade Elev. 381.65 ft ℄ Sta. 440+40

Flood	Freq. Yr.	Q ft³/s	Opening Sq. ft Exist.	Opening Sq. ft Prop.	Nat. H.W.E. ft	Head - ft Exist.	Head - ft Prop.	Headwater Elev. - ft Exist.	Headwater Elev. - ft Prop.
Design	50	830	62.2	124.8	378.60	1.00	0.20	379.60	378.80
Base	100	960	64.2	127.2	378.70	1.00	0.20	379.70	378.90
Overtopping									
Max. Calc.	500	1280	66.3	129.6	378.80	1.30	0.30	380.10	379.10

DESIGNED	SBM
CHECKED	KMN
DRAWN	MSJ
CHECKED	WCC

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



LOCATION SKETCH

WOODROW C. CHENAULT, JR. 081-003567 LICENSED STRUCTURAL ENGINEER OF CHAMPAIGN ILLINOIS

Woodrow C Chenault Jr 11-19-03
WOODROW C. CHENAULT, JR., S.E. — DATE
IL REGISTERED STRUCTURAL ENGINEER
ILLINOIS NO. 3567 EXPIRES NOVEMBER 30, 2004

GENERAL PLAN AND ELEVATION
IL. ROUTE 34 OVER UNNAMED TRIBUTARY
TO SOUTH FORK SALINE RIVER
FAP ROUTE 778 - SEC. (2B-1)-1
SALINE COUNTY
STATION 441+40.60
STRUCTURE NO. 083-2016

Prepared by: DAILY & ASSOCIATES, ENGINEERS, INC. CHAMPAIGN & PEORIA, ILLINOIS & LOUISVILLE, KENTUCKY

D&A Job 308.25