Bench Mark: Chiseled "□" top of N.E. wingwall S.N. 097-0031. Elev. 384.69

Existing Structure: S.N. 097-0031 built in 1932 as S.B.I. Route 139, Section 101-B, at Sta. 174+14.21. Super and substructure widened in 1978 as F.A. Route 857, Sec. 101BR-1. Structure consists of 2 spans of PPC deck beams (Spans 1 & 2) & 15 spans of reinf. conc. deck on steel beams (spans 3 thru 17) supported by closed (W) & spill thru pile bent (E) abutments & solid pile (1 & 2) & open conc. pile bent (3 thru 16) piers. 878'-4¾" bk.-bk. abuts. 33'-0" O.-O. deck. Structure to be removed and replaced. Traffic to be maintained on temporary run-around on north side of existing bridge during construction.

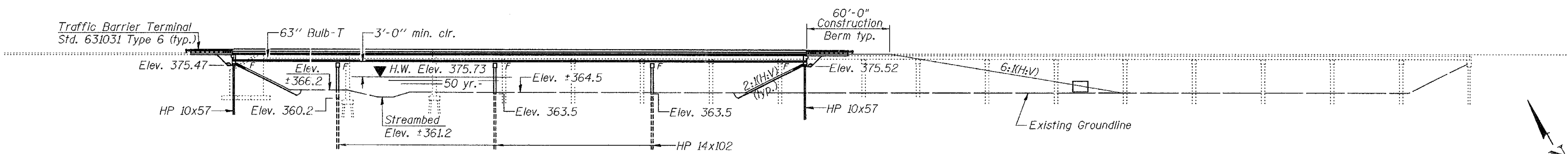
No salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

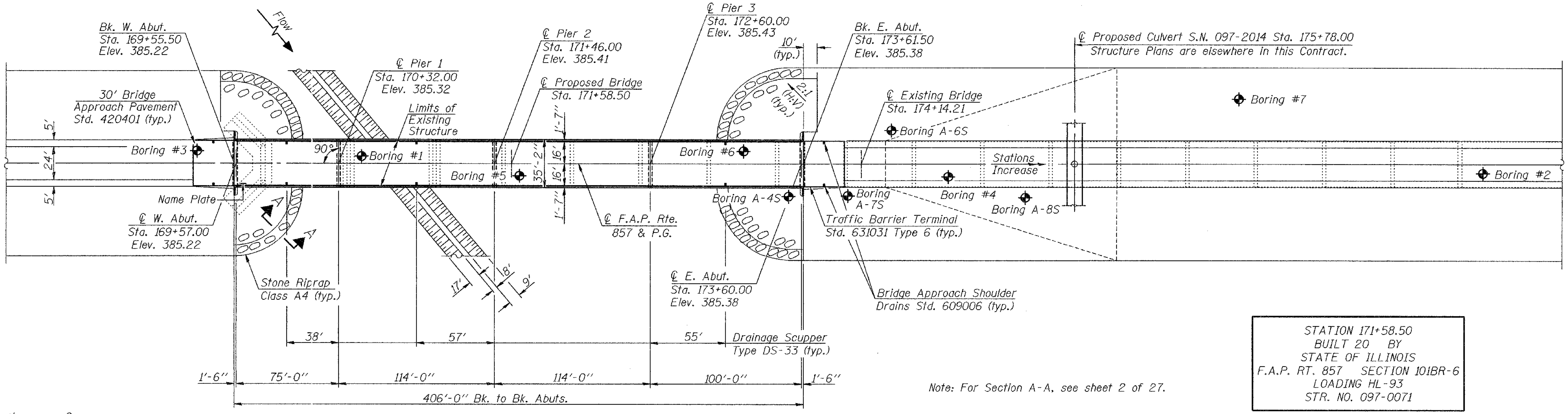
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 857	101BR-6	WHITE	100	20
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
27 SHEETS

Contract #98960



ELEVATION



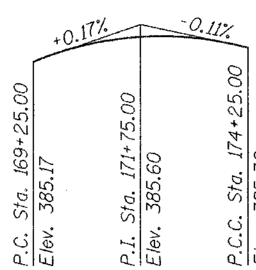
PLAN

Note: For Section A-A, see sheet 2 of 27.

STATION 171+58.50
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 857 SECTION 101BR-6
LOADING HL-93
STR. NO. 097-0071

NAME PLATE

See Std. 515001



PROFILE GRADE

(along € roadway)

Note: "Contractor shall wait 70 days after completion of embankment placement before driving piles".

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

1998 AASHTO LRFD Bridge Design Specification with 1999 thru 2003 Interims

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)

PRECAST PRESTRESSED UNITS

f'_c = 7,000 psi
f'_{ci} = 5,000 psi
f'_s = 270,000 psi (½"φ low lax. strands)
f_{si} = 201,960 psi (½"φ low lax strands)

SEISMIC DATA

Seismic Performance Zone = 2
Bedrock Acceleration Coefficient (A) = 9.5%g
Site Coefficient (S) = 1.2

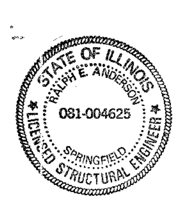
WATERWAY INFORMATION

Drainage Area = 29400.0 sq. mi.
P. Low Grade Elev. 385.1 ft. @ Sta. 169+50
E. Low Grade Elev. 385.1 ft. @ Sta. 169+50

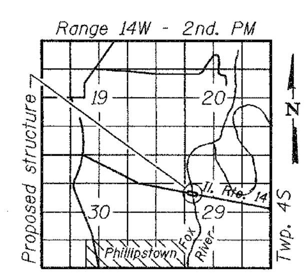
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	8,284	8765	3789	375.7	0.2	0.3	375.9	376.0
Base	100	9,381	9460	4109	376.6	0.3	0.3	376.9	376.9
Overtopping									
Max. Calc.	500	10,424	10021	4370	377.3	0.3	0.4	377.6	377.7

DESIGNED [signature] William A. Besinn
[signature] William A. Besinn / Fosseen Technical
CHECKED
DRAWN R. Sommer
[signature] / Fosseen Technical
CHECKED

December 4, 2006
EXAMINED [signature]
ENGINEER OF BRIDGE DESIGN
PASSED [signature] Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



EXPIRES 11-30-2008



LOCATION SKETCH

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 14 OVER
FOX RIVER
F.A.P. ROUTE 857 - SECTION 101BR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

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