BENCHMARK: Railroad spike in power pole 31' Lt., Sta. 803+57, Elev. 381.09

EXISTING STRUCTURE: SN 083-0036 was originally built as S.B.I. Rt. 13, Section 8BD, Sta. 802+60 in 1922. Superstructure consisted of a reinforced concrete slab on a 100' long steel truss with a 19'-0" roadway width. In 1969 the superstructure was replaced by a two span precast prestressed concrete deck beam superstructure, 33' out to out, with a new pier. Precast concrete bridge slabs were utilized to widen the approaches. Existing superstructure and approach shoulders to be removed and replaced utilizing stage construction.

No salvage

STATION 802+60.00
REBUILT 20__ BY
STATE OF ILLINOIS
F.A.S. RT. 899 SEC. 8BR-2
LOADING HS20
STR. NO. 083-0036

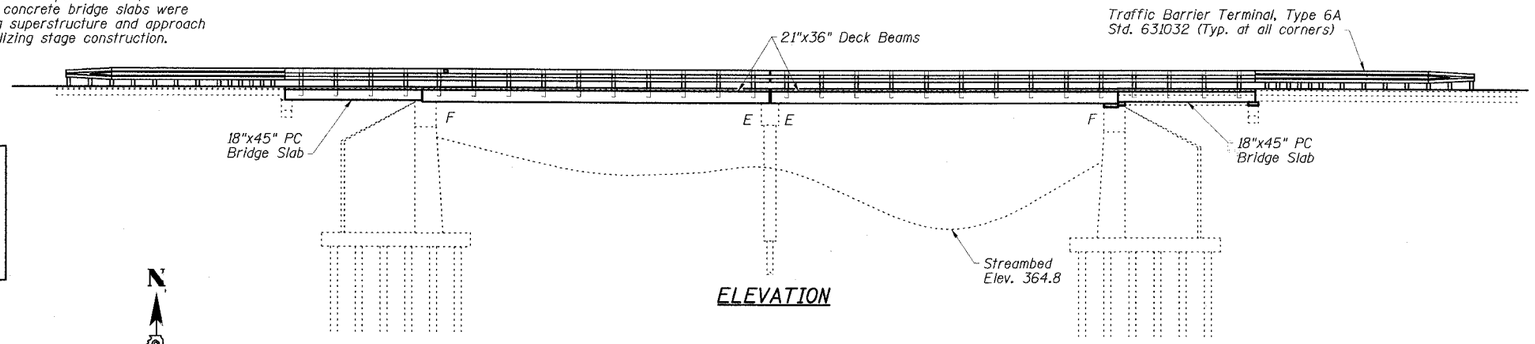
NAME PLATE
See Std. 515001

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 899	8BR-2	SALINE	75	36
FED. ROAD DIST. NO. 9	ILLINOIS	FED. AID PROJECT-		

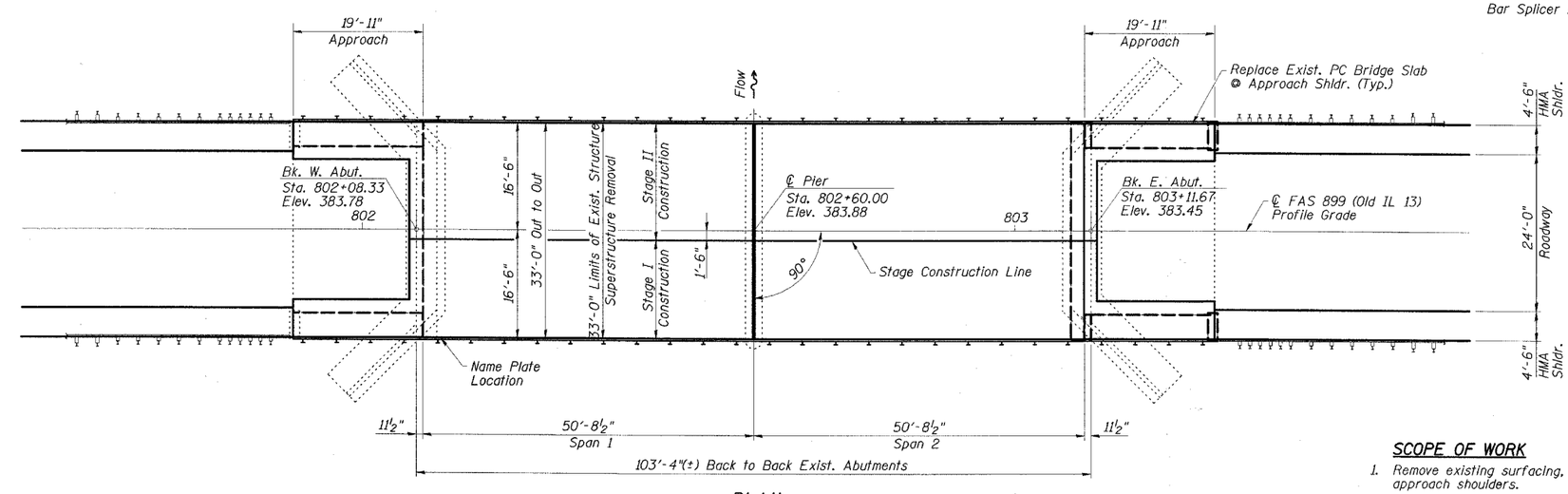
SHEET NO. 1
18 SHEETS

78028

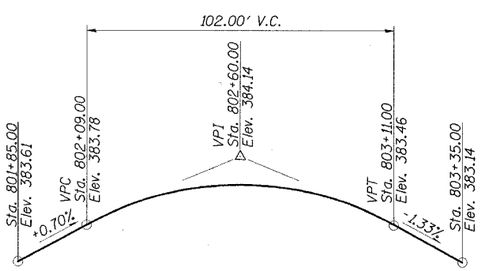


ELEVATION

N



PLAN



PROFILE GRADE
(Along ℄ Roadway)

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
RICHARD D. PAYNE
No. 4647
LICENSED STRUCTURAL ENGINEER

EXPIRES 11-30-08
Richard D. Payne
SIGNATURE
02/29/08
DATE

DESIGN SPECIFICATION
2002 AASHTO

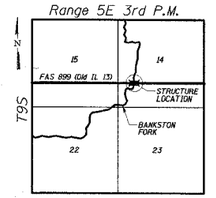
LOADING HS20-44
No allowance for future wearing surface

DESIGN STRESSES

FIELD UNITS
f'c = 5,000 psi (Concrete Wearing Surface)
f'c = 3,500 psi (All concrete except CWS)
fy = 60,000 psi (reinf.)

PRECAST PRESTRESSED UNITS
f'c = 6,000 psi
f'ci = 5,000 psi
f's = 270,000 psi (½"ϕ low lax strands)
fsi = 201,960 psi (½"ϕ low lax strands)

PRECAST UNITS
f'c = 4,500 psi
fy = 60,000 psi (reinf.)



LOCATION SKETCH

STRUCTURE INDEX OF SHEETS

SCOPE OF WORK

1. Remove existing surfacing, steel railing, deck beams, and bridge approach shoulders.
2. Repair beam bearing seats and perform other repairs at abutments and pier as required. Abutment cap and approach caps on east end to be raised.
3. Reconstruct a two-span PPCD beam superstructure with Concrete Wearing Surface and Steel Railing, Type SM. Reconstruct existing approach shoulders with Precast Concrete Bridge Slab with Concrete Wearing Surface and Steel Railing, Type SM.

GENERAL PLAN
OLD IL 13 OVER BANKSTON FORK
FAS ROUTE 899 - SECTION 8BR-2
SALINE COUNTY
STATION 802+60.00
STRUCTURE NO. 083-0036

ESCA CONSULTANTS, INC.		
DESIGNED BY:	JMS	10/07
DRAWN BY:	CJ/HAS	10/07
CHECKED BY:	DAJ/ELH	02/08
APPROVED BY:	RDP	02/08