

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

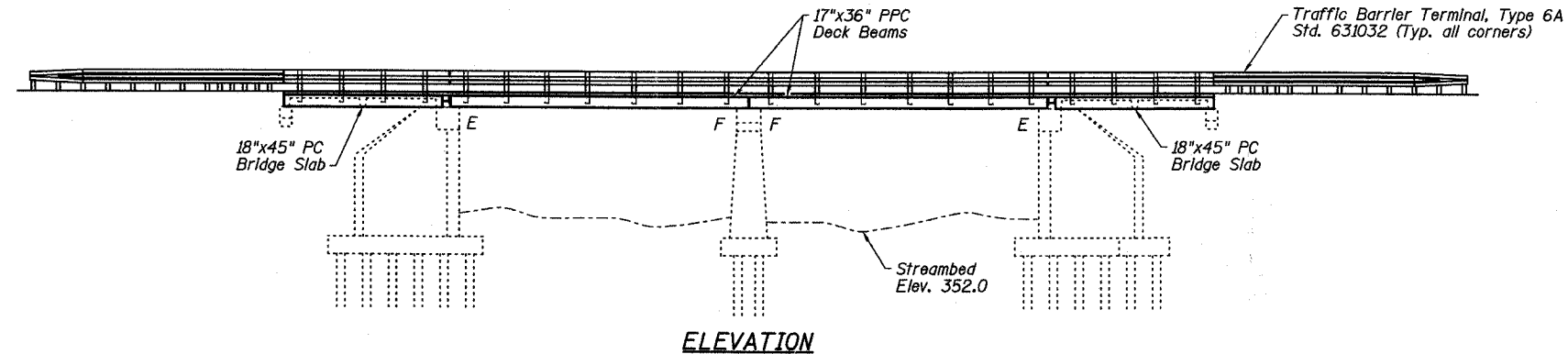
|                       |         |          |                        |       |           |
|-----------------------|---------|----------|------------------------|-------|-----------|
| ROUTE NO.             | SECTION | COUNTY   | SUBDIV.                | SHEET | SHEET NO. |
| FAP 869               | 105BR-3 | SALINE   | 11B                    | 83    | 17 SHEETS |
| FED. ROAD DIST. NO. 4 |         | ILLINOIS | FED. AID PROJECT - 482 |       |           |

78031

BENCHMARK: Chiseled square on the southwest wingwall of SN 083-0039, Station 1574+42.5, 18.0' Rt., Elev. 366.19

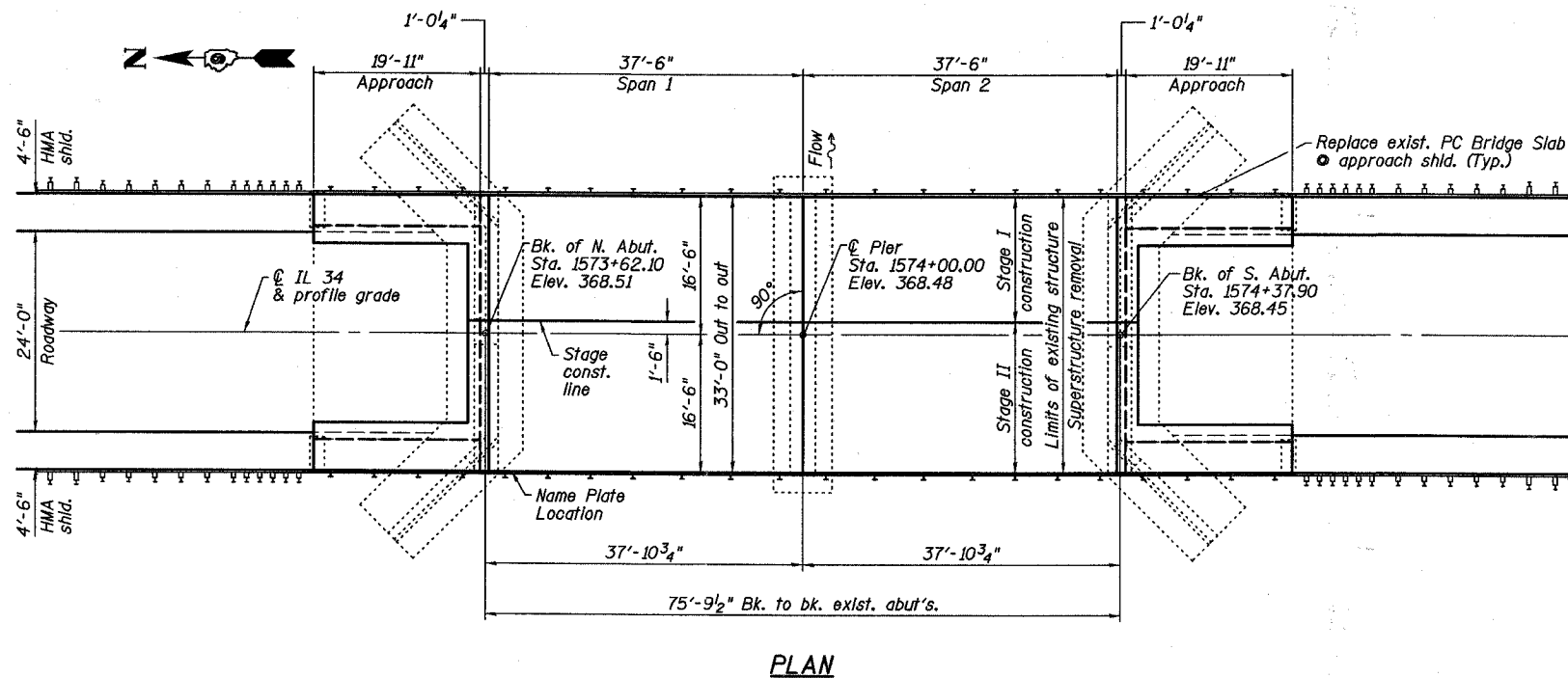
EXISTING STRUCTURE: SN 083-0039 was originally built in 1932 as S.B.I. Route 143, Section 105B. The superstructure was replaced in 1972, and precast concrete bridge slabs were utilized to widen the approaches. The superstructure consists of two simple spans, 17" PPC deck beams. The substructure consists of two reinforced concrete closed abutments on timber piles, and a single solid concrete pier supported on timber piles. The back-to-back abutments length is 75'-9 1/2", the out-to-out width is 33'-0". The existing superstructure and the existing approach shoulder bridge slabs shall be removed and replaced utilizing stage construction.

No salvage.



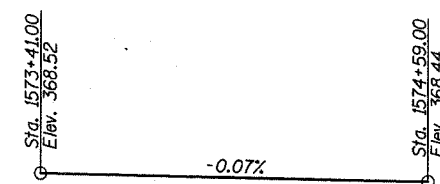
STRUCTURE INDEX OF SHEETS

|                                     |                      |
|-------------------------------------|----------------------|
| General Plan                        | Dwg. No. 1 of 17     |
| General Data                        | Dwg. No. 2 of 17     |
| Stage Construction Details          | Dwg. No. 3 of 17     |
| Temporary Concrete Barrier          | Dwg. No. 4 of 17     |
| Superstructure                      | Dwg. No. 5 of 17     |
| Superstructure Details              | Dwg. No. 6 & 7 of 17 |
| Approach Details                    | Dwg. No. 8 of 17     |
| Superstructure and Approach Details | Dwg. No. 9 of 17     |
| Steel Railing, Type SM              | Dwg. No. 10 of 17    |
| Strip Seal Expansion Joint          | Dwg. No. 11 of 17    |
| North Abutment                      | Dwg. No. 12 of 17    |
| South Abutment                      | Dwg. No. 13 of 17    |
| Abutment Details                    | Dwg. No. 14 of 17    |
| Pier                                | Dwg. No. 15 of 17    |
| Pier Details                        | Dwg. No. 16 of 17    |
| Bar Splicer Assembly Details        | Dwg. No. 17 of 17    |



STATION 1574+00.00  
REBUILT 200\_ BY  
STATE OF ILLINOIS  
F.A.P. RT. 869 SEC. 105BR-3  
LOADING HS20  
STR. NO. 083-0039

NAME PLATE  
See Std. 515001



SCOPE OF WORK

1. Remove existing surfacing, steel railing, deck beams, and approach shoulder bridge slabs.
2. Repair beam bearing seats and perform other repairs at abutments and pier as required.
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 Slabs with Concrete Wearing Surface and Steel Railing, Type SM.

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'cl = 5,000 psi  
f's = 270,000 psi (1/2" low lax strands)  
f'sl = 201,960 psi (1/2" low lax strands)

PRECAST UNITS

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

APPROVED  
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson  
ENGINEER OF BRIDGES AND STRUCTURES

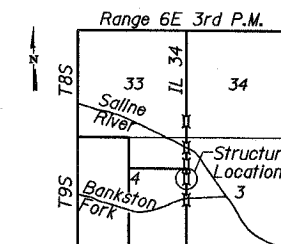


EXPIRES 11-30-08

SIGNATURE  
04/04/08  
DATE

ESCA  
CONSULTANTS, INC.

|              |     |       |
|--------------|-----|-------|
| DESIGNED BY: | ELH | 02/08 |
| DRAWN BY:    | HAS | 02/08 |
| CHECKED BY:  | ELH | 04/08 |
| APPROVED BY: | RDP | 04/08 |



GENERAL PLAN  
IL 34 OVER BANKSTON FORK AND  
SALINE RIVER OVERFLOW  
FAP ROUTE 869 - SECTION 105BR-3  
SALINE COUNTY  
STATION 1574+00.00  
STRUCTURE NO. 083-0039