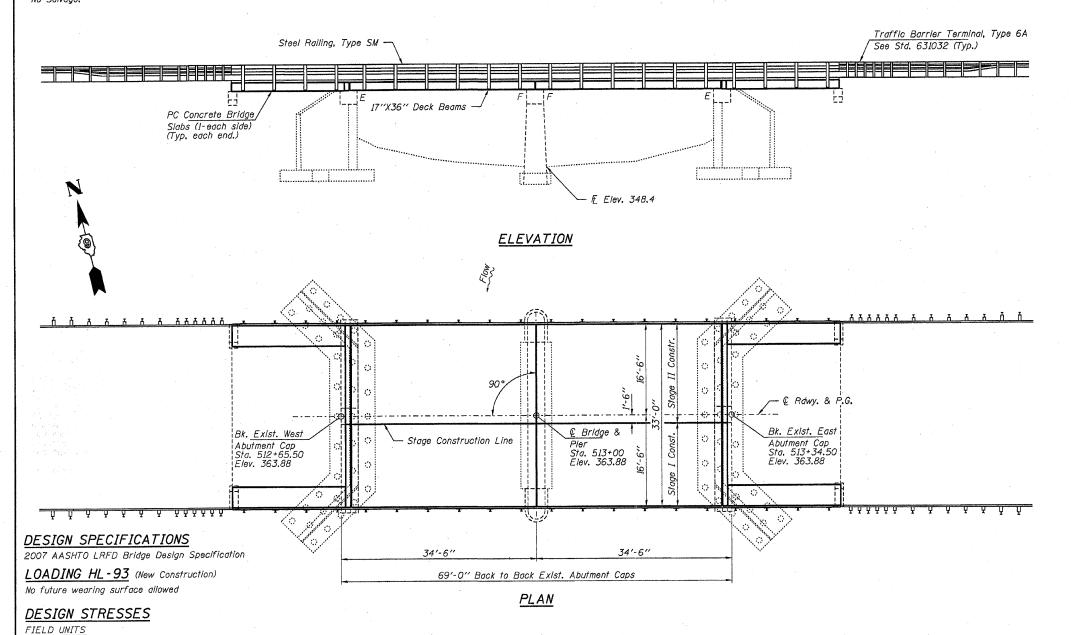
BENCHMARK: BM#1 - Chiseled square on top of wing, S.E. corner SN 044-0022, 18' left, Station 512+63, Elevation 361.733.

#### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE: SN 044-0022 was originally built in 1928 as S.B.I. Route 146, Section 111B. In 1982, the superstructure was replaced and widened, and precast concrete bridge slabs were used to widen the approaches. The superstructure consists of two simple spans of 17"x36" deck beams. The substructure consists of two reinforced concrete closed abutments on timber piles and one solid concrete pier. The back-to-back abutment cap length is 69'-0'; the out-to-out width is 33'-0". The existing superstructure and the existing approach shoulder bridge slabs shall be removed and replaced using stage construction to maintain traffic.



SHEET NO. F.A.P. 885 60 16 SHEETS 94 IIIBR-Johnson FED. ROAD DIST, NG. 7

Contract #78030

# INDEX OF STRUCTURE SHEETS

General Plan & Elevation

General Details
Stage Construction Details
Temporary Concrete Barrier
Superstructure

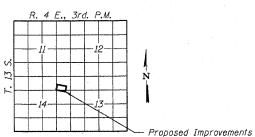
Superstructure Details
Approach Details

Superstructure & Approach Details Steel Railing, Type SM Strip Seal Expansion Joint

9. 10. 11. 12. 13. 14. 15.

West Abutment East Abutment

Bar Splicer Assembly Details



LOCATION SKETCH

PROFILE GRADE (Along & Rdwy.)

## **APPROVED** FOR STRUCTURAL ADEQUACY ONLY

ENGINEER OF BRIDGES AND STRUCTURES

4-24-06

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400 

•	ELGIN . S	PRINGFIELD
ROJECT NUMBER:	12-52-0007-i	DATE: 04/02/08
ESIGNED: P.S.L.	CHECKED: M.D.C.	DRAWN: D.T.M.

GENERAL PLAN AND ELEVATION IL. ROUTE 146 OVER BELL POND F.A.P. ROUTE 885 / SECTION IIIBR-1 JOHNSON COUNTY STATION 513+00 STRUCTURE NO. 044-0022

### SCOPE OF WORK

- Remove existing superstructure, and approach shoulder bridge slabs.
- 2. Repair beam bearing seats and other areas on substructure as specified.
- 3. Reconstruct a two span PPCD beam superstructure with concrete wearing surface and Steel Ralling, Type SM. Reconstruct approach shoulders with Precast Concrete Bridge Slabs with concrete wearing surface.



ILLINOIS STRUCTURAL NO. 081-5984

Expires 11-30-08

PRECAST UNITS

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

f'c = 6,000 psi f'ci = 5,000 psi f's = 270,000 psi ('2''¢ low lax. strands) f'si = 201,960 psi ('2''¢ low lax. strands) fy = 60,000 psi (Reinf.)

PRECAST PRESTRESSED UNITS

f'c = 4.500 psify = 60,000 psi (Reinf.)