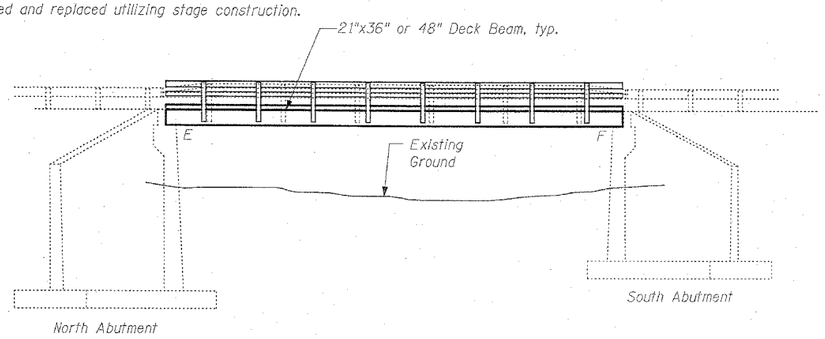
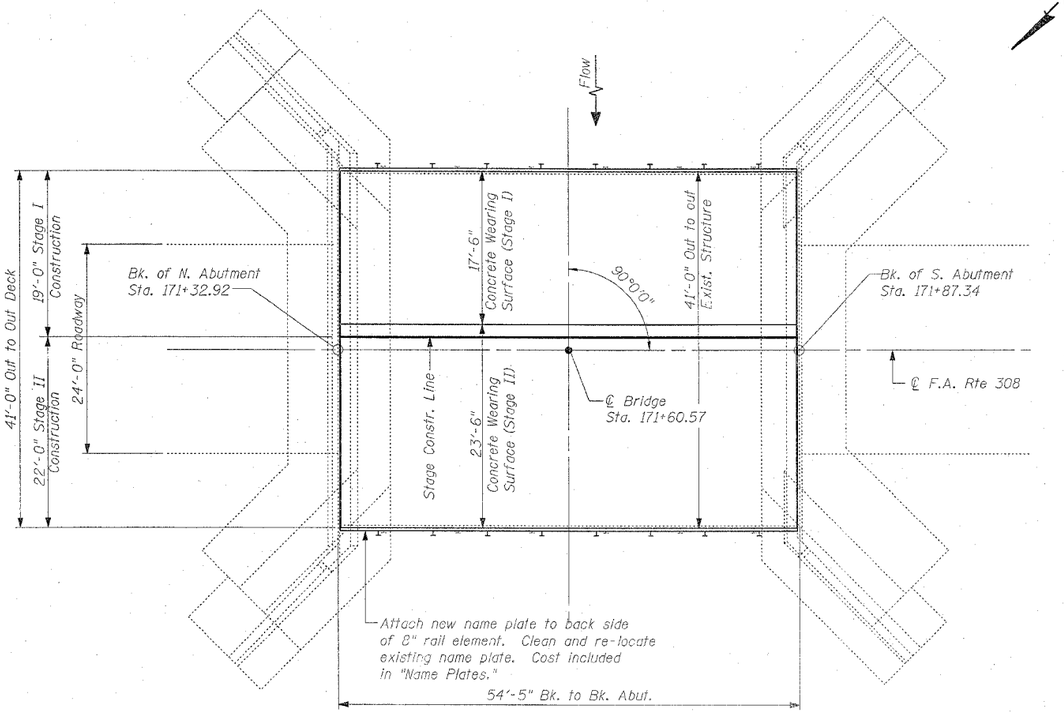
Existing Structure: S.B.I. Rte. 80 Sec. 109 BR was originally built in 1931 as a reinforced concrete deck girder superstructure with reinforced concrete closed abutments. In 1973, the superstructure was rebuilt using 21" PPC Deck Beams and the closed abutment substructure was widened.

The superstructure is to be removed and replaced utilizing stage construction.

No Salvage



ELEVATION



PLAN

NOTE:
See Roadway plans for profile grade information.

INDEX OF SHEETS

STATION 171+60.57
REBUILT BY
STATE OF ILLINOIS
F.A. RTE 308
SEC. 109 BR-4
LOADING HS20
STR. NO. 098-0023

NAME PLATE

See Std. 515001

LOADING HS20-44

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

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
f'_c = 5,000 psi (concrete wearing surface)
f_y = 60,000 psi (reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 5,000 psi
f'ci = 4,000 psi
f's = 270,000 psi (½" ϕ low lax strands)
fsi = 201,960 psi (½" ϕ low lax strands)

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 308	109BR-4	WHITESIDE	47	17
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
13 SHEETS

Contract #64B29

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

All Construction joints shall be bonded.

No in-stream work will be allowed on this project.

The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the exterior face and 9" in on the underside of the fascia beams. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.

The minimum thickness of the Concrete overlay shall be 5" and varies as required to adjust for the new profile grade and beam camber.

The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

Repair of the abutments and pier caps shall be completed prior to placement of the new deck beams.

All structural steel shall conform to AASHTO classification M-270 Gr 36, unless otherwise noted.

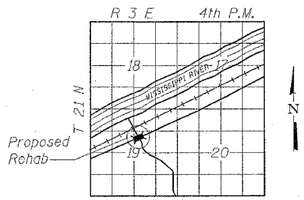
Existing name plate shall be cleaned and relocated adjacent to new name plate. Cost included with "Name Plates."

All structural steel shall be painted with the inorganic zinc rich primer per AASHTO M 300, Type I. Cost included with Furnishing and Erecting Structural Steel.

STATE OF ILLINOIS
MAJID MOBASSERI
081-005058
CHAMPAIGN, ILLINOIS
REGISTERED STRUCTURAL ENGINEER

Majid Mobasseri
Structural Engineer
Clark Dietz, Inc

DATE: 12-22-2005
License Expires 11-30-2006



LOCATION SKETCH

GENERAL PLAN

F.A. 308 (IL 84)
OVER SPRING CREEK
SEC. 109 BR-4
WHITESIDE COUNTY
STATION 171+60.57
STRUCTURE NO. 098-0023

Clark Dietz
CHAMPAIGN, ILLINOIS
CHICAGO, ILLINOIS
EVANSVILLE, INDIANA
INDIANAPOLIS, INDIANA
KENOSHA, WISCONSIN
SPRING GREEN, WISCONSIN

REVISIONS NAME	DATE

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

DESIGNED BY:	S.L.D.	PROJECT NO:	102382
DRAWN BY:	M.E.W.	DATE:	9/05
CHECKED BY:	M.M.		
APPROVED BY:	M.M.		
ACTIVITY	INITIALS		

DRAWING NUMBER
S-1