

B.M. - Engineer to set temporary benchmark in field as necessary.

Existing Structure - Structure No. 016-0107, built as S.A. Edens Superhighway, Section 263-0102.1-15D of Station 23+63.00 in 1949. The structure was rehabilitated and widened in 1979 as FAI Route 94 (Edens Expressway), Section 1975-118-R & BR. The existing structure consists of a three span continuous steel multi-beam structure supporting a 7 1/2" reinforced concrete deck. The deck is composite with the steel beams in the positive moment areas of the spans. The structure is flared with one beam line termination. The steel beams consist of W36 rolled shapes. The substructure consists of reinforced concrete spill-thru type abutments (1979 widening) supported on concrete drilled shaft foundations and reinforced concrete counterfort type abutments (original construction) supported on concrete piles and reinforced concrete multi-column piers supported by concrete piles.

Stage construction shall be utilized to maintain traffic during construction.

Salvage Existing Drainage Scupper Grates

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 94	2006-043 RS	COOK	135	118
FED. HIGH. DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract # 62747

DESIGN SPECIFICATIONS
2002 AASHTO

DESIGN STRESSES

FIELD UNITS
f_c = 3,500 psi
f_y = 60,000 psi (reinforcement)

SCOPE OF WORK

1. Provide Protective Shield with limits as indicated.
 2. Perform substructure repairs (structural repair of concrete and epoxy crack injection).
- Stage II:
3. Close Stage II construction areas to traffic.
 4. Hydro-Scarify the deck slab.
 5. Remove and replace expansion joints and surrounding concrete (including parapets).
 6. Perform deck slab repair.
 7. Adjust existing scuppers and install new grate.
 8. Place Overlay.
 9. Place temporary roadway transitions.
 10. Open Stage II Removal area to staged traffic.
- Stage III:
11. Close Stage III Removal areas to traffic.
 12. Repeat steps 4-9 but for Stage III construction.
 13. Open bridge to traffic.

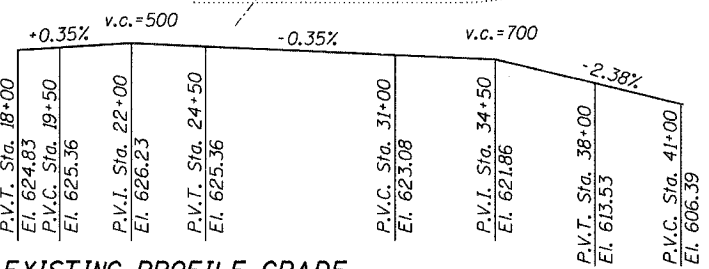
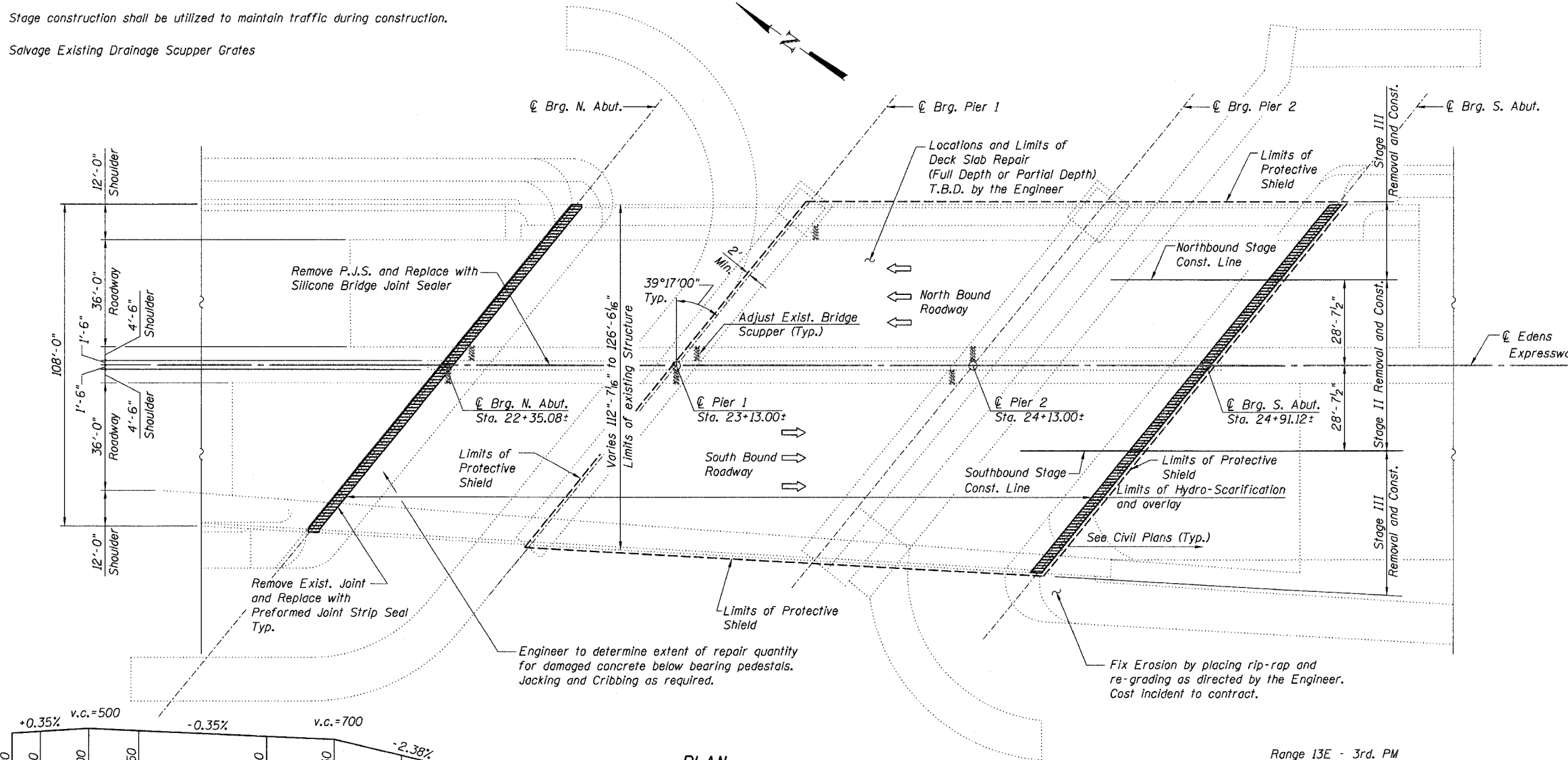
NOTES

1. For joint removal and replacement plans and details, see Sheet No. 121 thru 122b
2. See Structural Notes on Sheet No. 118a

LEGEND

- Protective Shield Limits
- ▨ Concrete Removal / Joint Reconstruction

GENERAL PLAN & ELEVATION
F.A.I. 94/ (EDENS EXPRESSWAY)
OVER NORTH BRANCH
COOK COUNTY
STATION 23+63.00
STRUCTURE NO. 016-0107



PLAN

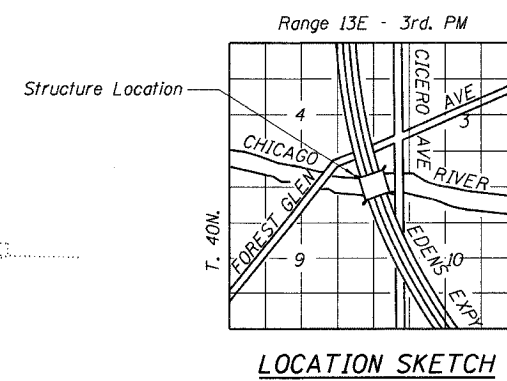
EXISTING PROFILE GRADE
EDENS EXPRESSWAY

DESIGNED	DWH
CHECKED	JSD
DRAWN	EF
CHECKED	JSD

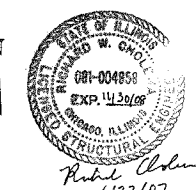
LOCHNER
H.W. LOCHNER, INC., CHICAGO, ILLINOIS

ELEVATION
(Looking East)

Substructure repair locations
T.B.D. by the Engineer (Typ.)



LOCATION SKETCH



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