

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Benchmark : Benchmark #1 - cut "□" in top of northwest wingall.
Assumed Elevation = 100.00'

Existing Structure: S.N. 016-2514 built in 1978 as a single span 27"x36" PPC Deck Beam bridge with 2" bituminous wearing surface on closed abutments on spread footings. The structure measures 59'-6" back to back abutments and 87'-5" out to out deck. Bridge was rehabilitated in 2004 with partial beam replacement. Traffic is to be maintained utilizing stage construction. One lane for each direction shall be provided.

Salvage: None

STATION 495+60.00
REBUILT 20_ _ BY
STATE OF ILLINOIS
F.A.U. ROUTE 1320 SEC 581B-1
LOADING HL-93
STRUCTURE NO. 016-2514

NAME PLATE
See Std. 515001

LOADING HL-93

Allow 50 psf for future wearing surface

DESIGN SPECIFICATIONS

2007 AASHTO LRFD 4th Edition

DESIGN STRESSES

FIELD UNITS

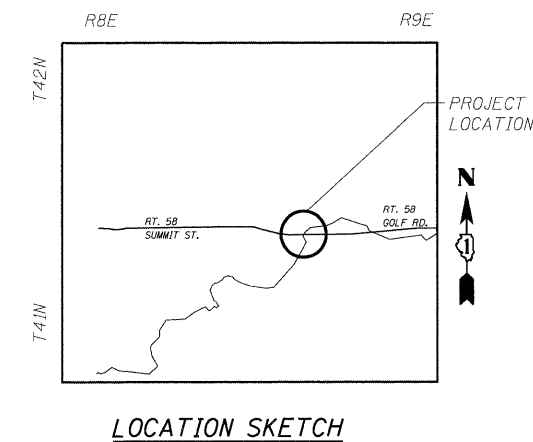
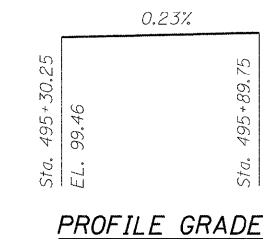
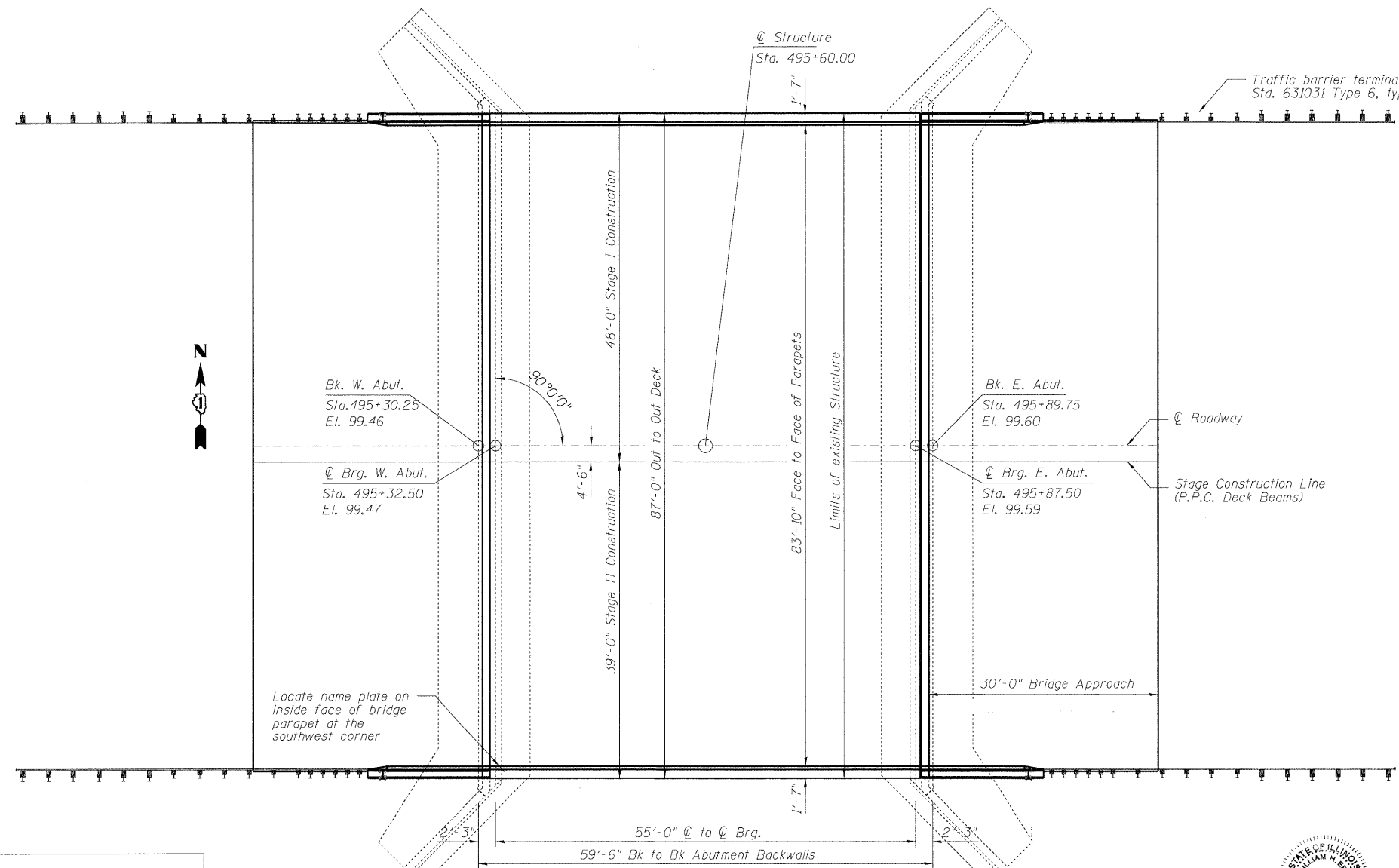
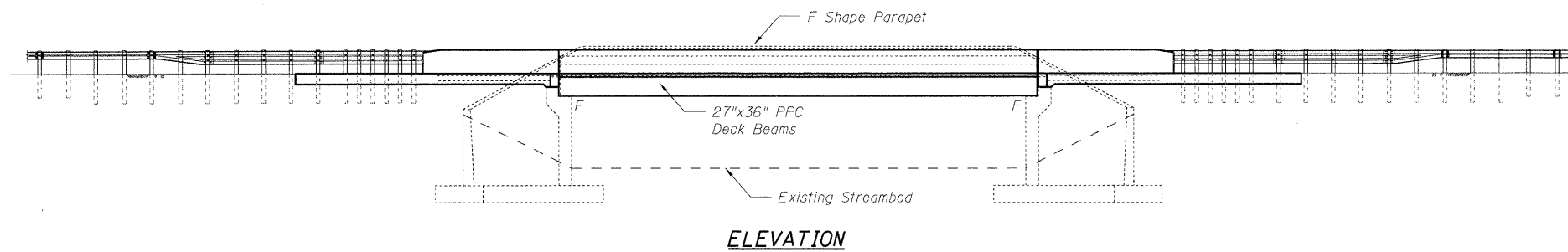
f'c = 3,500 psi
f'c = 5000 psi (Concrete Wearing Surface)
fy = 60000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 6000 psi
f'ci = 5000 psi
f's = 270,000 psi (1/2" ϕ low lax. strands)
f'si = 201,900 psi (1/2" ϕ low lax. strands)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock acceleration coefficient (A) = .04
Site Coefficient (S) = 1.2



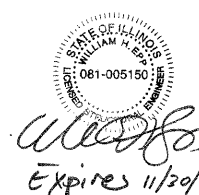
GENERAL PLAN AND ELEVATION
IL RTE 58 OVER POPLAR CREEK
F.A.U. RT. 1320
SECTION 581B-1
COOK COUNTY
STA. 495+60.00
STRUCTURE NO. 016-2514

DESIGNED	SLV
CHECKED	MJM
DRAWN	SLV
CHECKED	MJM

LONCO, INC.
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APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson (TS) ENGINEER OF BRIDGES AND STRUCTURES



SHEET NO. S1 OF S15 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1320	581 B-1	COOK	33	12
D-91-288-09			CONTRACT NO. 60F91		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					