

Benchmark: BM 4647-68, Chiseled square on top of NE wingwall at NE corner of bridge - Elev. 674.68

Existing Structure: No. 070-0037, built as F.H.P. Rte 170 at Sta. 959+14 in 1980. Single Span, 58'-0" Back to Back Abutments, 33'-0" Out to Out Existing. 21" x 36" PPC Deck Beams and Metal Rail shall be removed and replaced with 21" x 36" PPC Deck Beams, 5" Concrete Wearing Surface, and Type SM Steel Rail.

Salvage: None

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS	SHEET NO.
FAP 770	116 BR-1	Moultrie	46	10	11
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #74183

INDEX OF SHEETS

1. General Plan & Elevation
2. General Notes and Total Bill of Material
3. Stage Construction
4. Temporary Concrete Barrier
5. Deck Cross Section, Section Thru Abutments
6. 21" x 36" PPC Dk. Beams
7. 21" x 36" PPC Dk. Beams Details
8. Rail Post Spacing, Concrete Wearing Surface
9. Steel Railing Type SM
10. Expansion Joint Details
11. Bar Splicer Details

DESIGN SPECIFICATIONS

2004 AASHTO LFRD Bridge Design Specifications with 2005 and 2006 Interims

LOADING HL-93

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

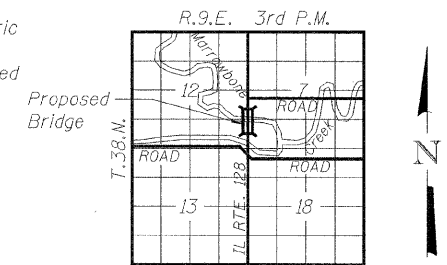
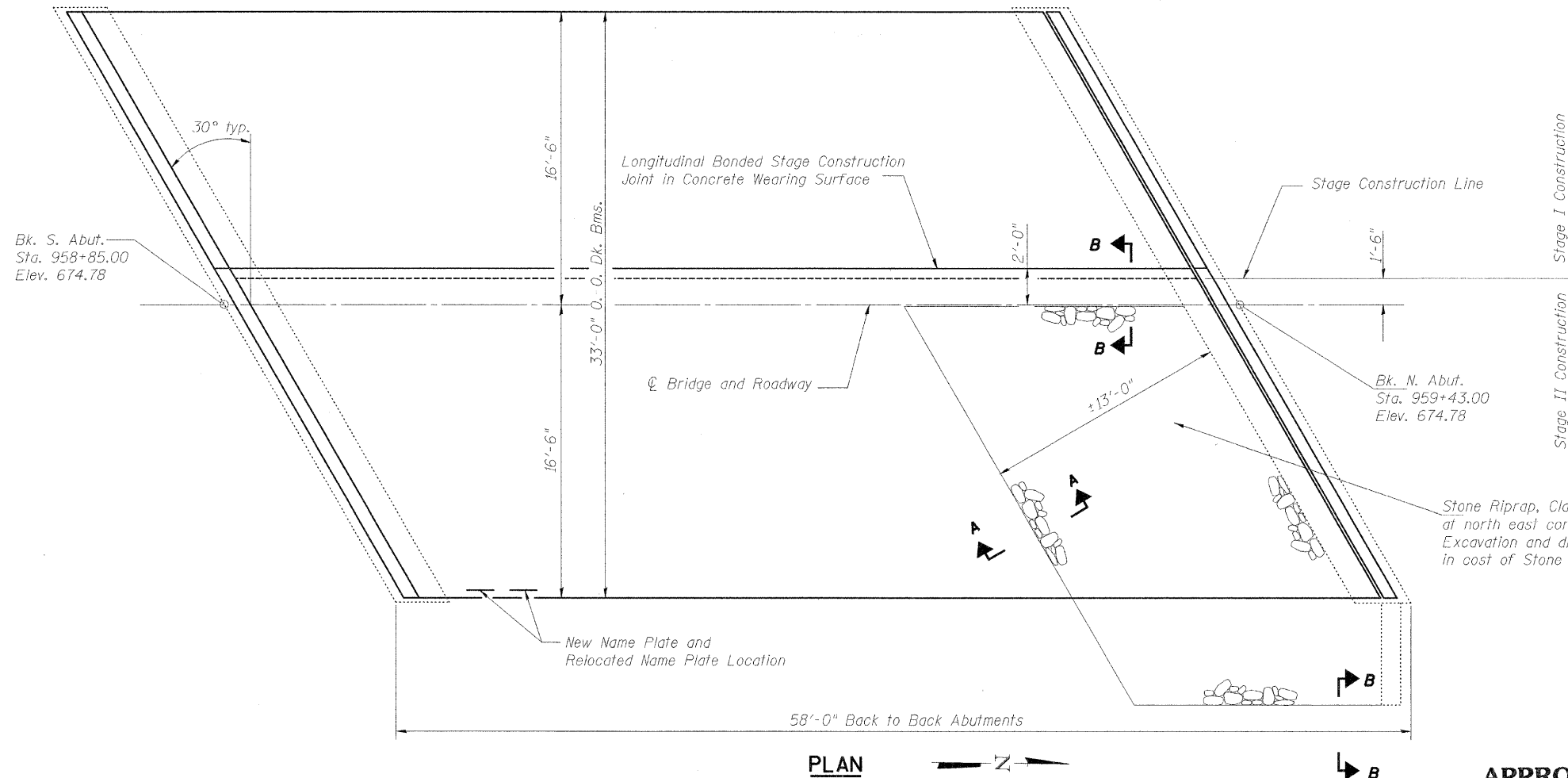
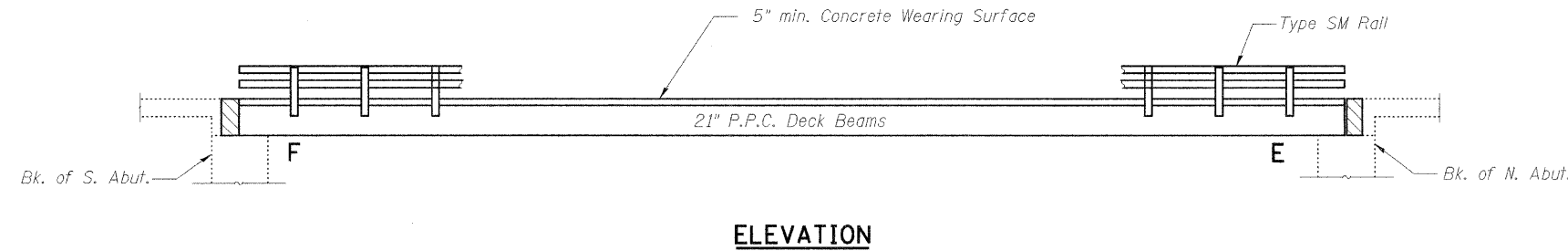
DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

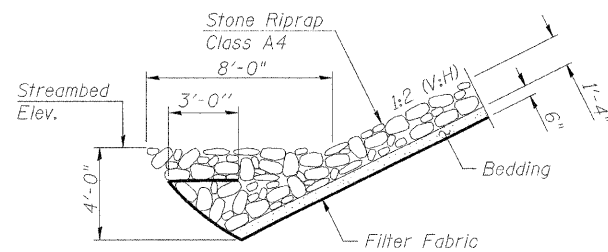
PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f'_c = 5,000$ psi
 $f'_s = 270,000$ psi (1/2" ϕ low lax strands)
 $f'_{si} = 201,960$ psi (1/2" ϕ low lax strands)

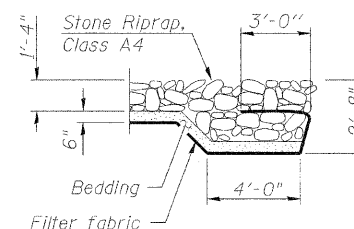


LOCATION SKETCH

DESIGNED	DDB
CHECKED	LLV
DRAWN	MJY
CHECKED	LLV



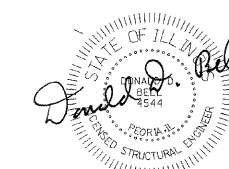
SECTION A-A



SECTION B-B

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Robert Anderson
ENGINEER OF BRIDGES AND STRUCTURES



License Expires: 11/30/08
Date Signed: 1-19-08

GENERAL PLAN & ELEVATION
F.A.P. 770 (IL RTE. 128)
OVER TRIBUTARY TO MARROWBONE CREEK
SECTION 116-BR-1
MOULTRIE COUNTY STA. 959+14.00
STRUCTURE NO. 070-0037

STS | AECOM

111 NE Jefferson Ave.
Peoria, Illinois 61602
Ph(309)676-8464
FAX(309)676-5445
IL Design Firm Reg.
No. 184-001518
www.sts.aecom.com