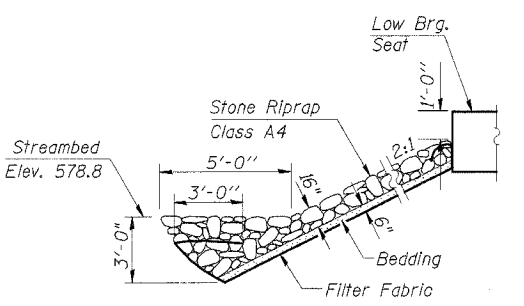
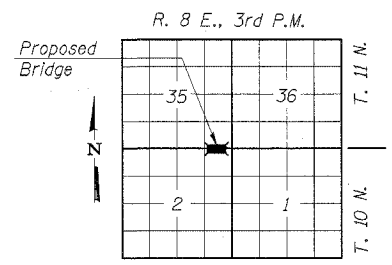
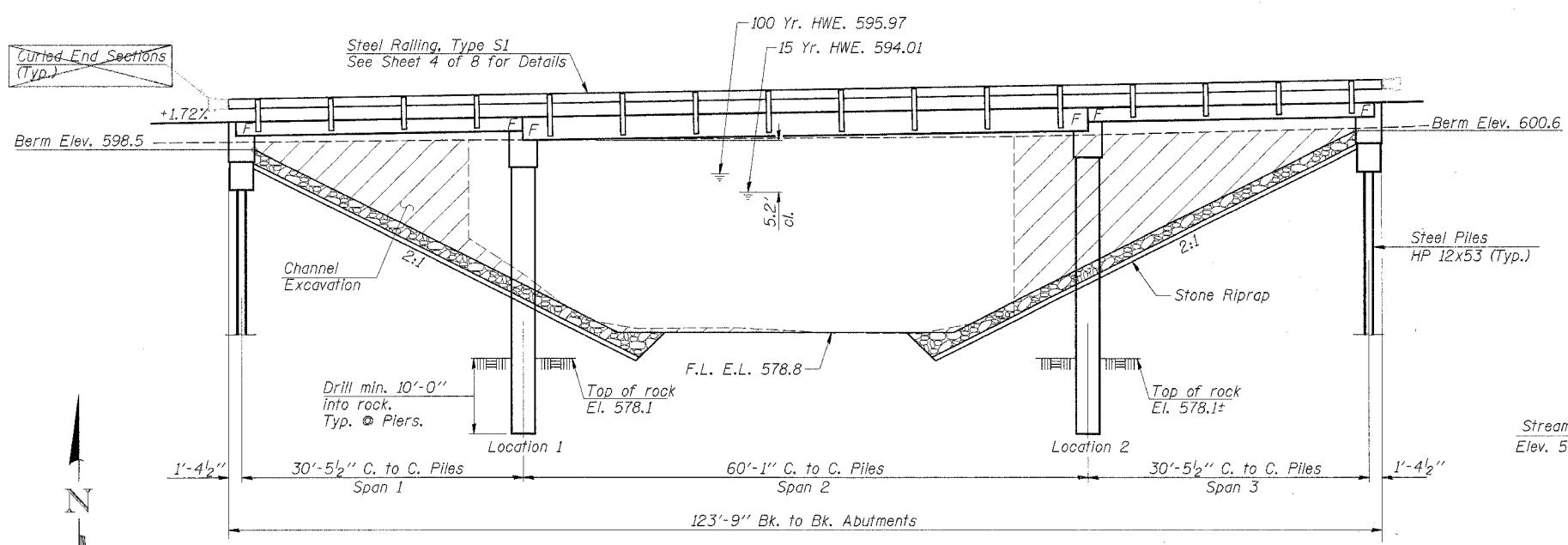


CONTRACT NO. 99-0123				
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 39	99-0123	CUMBERLAND	11	4
ROAD DISTRICT		ILLINOIS	COTTONWOOD	

Sheet 1 of 8



GENERAL NOTES

See Proposal Booklet for Boring data.

Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.

The Contractor shall drive two steel test piles in a permanent location, one at each abutment, as directed by the Engineer, before ordering the remainder of piles.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

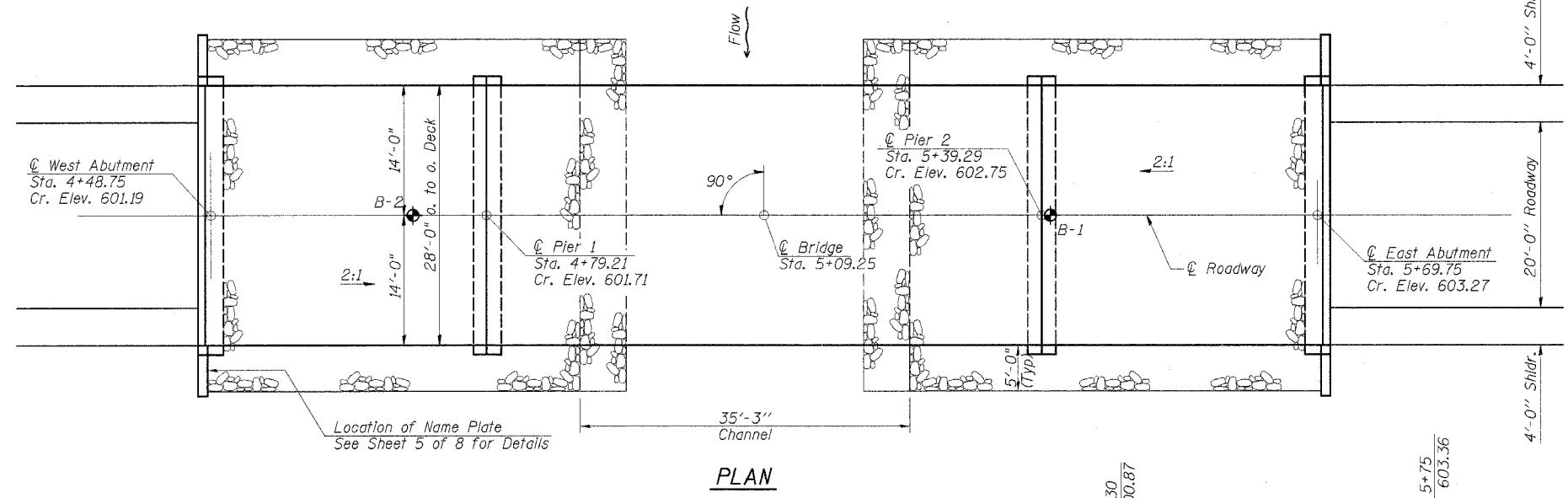
Excavation for structures shall be considered as included in the contract unit price for the class of concrete involved.

MUDDY CREEK
BUILT 200_ BY
COTTONWOOD ROAD DISTRICT
CUMBERLAND COUNTY
SEC. 99-01123-00-BR
STR. NO. 018-3186
LOADING HS20

LETTERING FOR NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	1,736		1,736
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1,680		1,680
Concrete Structures	Cu. Yd.		45.8	45.8
Reinforcement Bars	Pound		5,100	5,100
Steel Railing, Type S1	Foot	245		245
Name Plates	Each		1	1
Furnishing Steel Piles HP12x53	Foot		450	450
Driving Steel Piles HP12x53	Foot		150	150
Test Pile Steel HP12x53	Each		2	2
Stone Riprap, Class A4	Ton	329		329
Filter Fabric	Sq. Yd.		437	437
Concrete Encasement	Cu. Yd.		36.7	36.7
Underwater Structure Excavation Protection Location 1	Each		1	1
Underwater Structure Excavation Protection Location 2	Each		1	1
Setting Piles in Rock	Each		10	10



PROFILE GRADE

"I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current 'AASHTO Standard Specifications for Highway Bridges'."



Fred J. Stone, Jr. (2-20-03)
ILLINOIS STRUCTURAL NO. 2934 (Expires 11/30/04)

Construction Permits:
The requirements of the IDNR - Division of Water Resources have been fulfilled in accordance with Statewide Permit No. 12.

WATERWAY INFORMATION

Drainage Area	29.2 Sq. Mi.
Existing Opening (15 Yr.)	783 Sq. Ft.
Required Opening (15 Yr.)	943 Sq. Ft.
Proposed Opening (15 Yr.)	943 Sq. Ft.
Design Discharge (15 Yr.)	4293 C.F.S.
Created Head (15 Yr.)	0.1 Ft.
100 Year Discharge	6892 C.F.S.
100 Yr. Created Head	0.4 Ft.

DESIGN STRESSES

$f'_c = 5,000$ p.s.i. (Prestressed Beams)
 $f'_{ci} = 4,000$ p.s.i. (Prestressed Beams)
 $f'_c = 1,400$ p.s.i. (Concrete)
 $f'_s = 270,000$ p.s.i. (Prestressed Strands)
 $f'_{si} = 189,000$ p.s.i. (Prestressed Strands)
 $f'_s = 24,000$ p.s.i. (Reinf. Bars -- Field Units)
 $f'_y = 60,000$ p.s.i. (Reinf. Bars -- Field Units)
 $n = 9$ (Concrete)
LOADING HS20-44
Design Specifications: 1996 AASHTO & 1997 - 2002 Interims
50#/Sq. Ft. included in dead load for future wearing surface.

DESIGNED	M.E.B.
CHECKED	F.J.S.
DRAWN	R.S.J.
CHECKED	F.J.S.

GENERAL PLAN & ELEVATION

SECTION 99-01123-00-BR
COTTONWOOD ROAD DISTRICT
CUMBERLAND COUNTY
STATION 5+09.25

4440 ASH GROVE SPRINGFIELD, IL. 62707 (217) 793-8600 oasinc@tamvia.com	OZYURT AND STONE, INC. CONSULTING ENGINEERS	JOB NO.: 0018.5 FILE: GPE.DGN DATE: 02-19-03
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