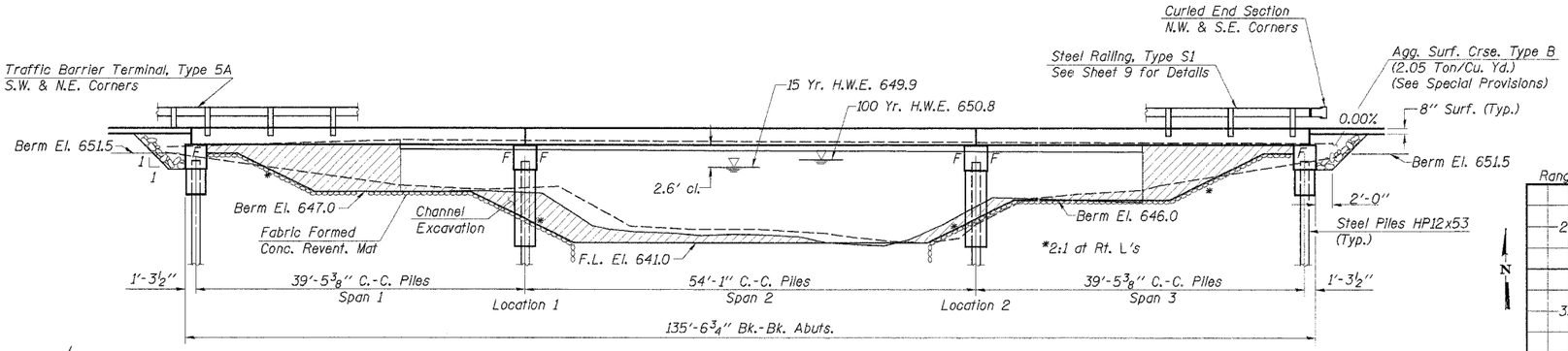
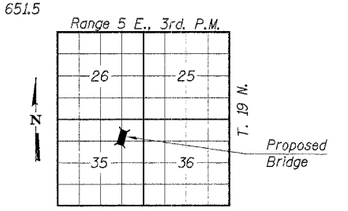
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 66	04-04125-00-BR	PIATT	15	5
ROAD DIST.	ILLINOIS	GOOSE CREEK		

CONTRACT NO. 91309



ELEVATION



LOCATION PLAN

GENERAL NOTES

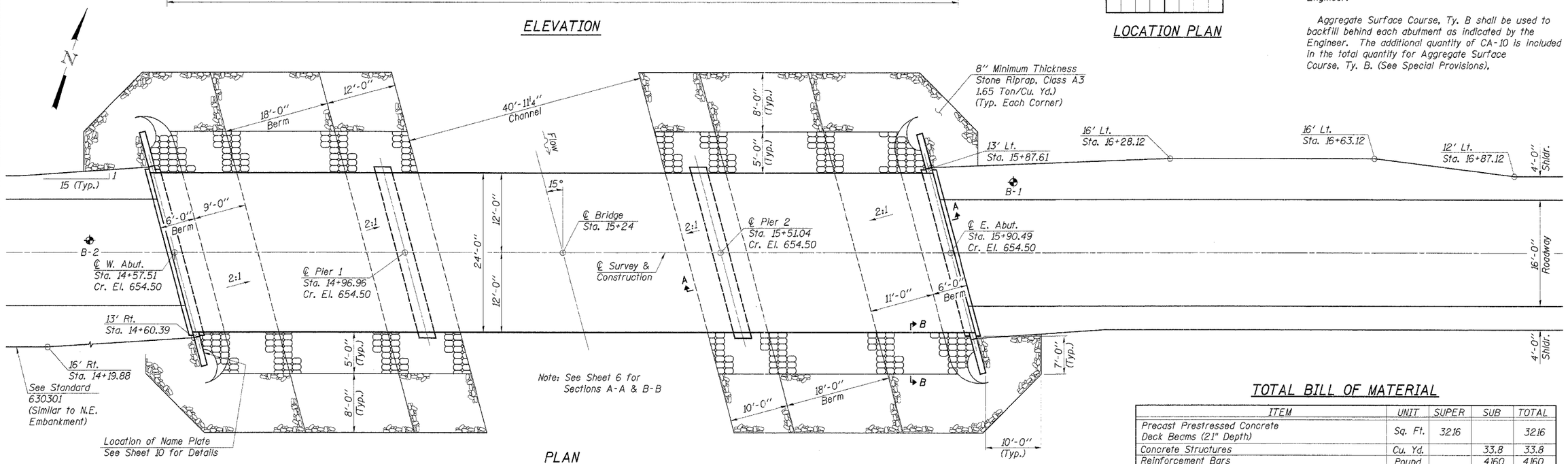
See Proposal Booklet for Boring data.

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

The Contractor shall drive one steel test pile in a permanent location at the West abutment and at Pier #2 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.

Aggregate Surface Course, Ty. B shall be used to backfill behind each abutment as indicated by the Engineer. The additional quantity of CA-10 is included in the total quantity for Aggregate Surface Course, Ty. B. (See Special Provisions),



Note: See Sheet 6 for Sections A-A & B-B

PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	32.16		32.16
Concrete Structures	Cu. Yd.		33.8	33.8
Reinforcement Bars	Pound		4160	4160
Steel Railing, Type S1	Foot	273		273
Name Plates	Each		1	1
Steel Pile HP12x53	Foot		469	469
Test Pile Steel HP12x53	Each		2	2
Stone Riprap, Class A3	Ton		100	100
Concrete Encasement	Cu. Yd.		21.9	21.9
Aggregate Surface Course, Type B	Ton		66	66
Fabric Formed Concrete Revetment Mat	Sq. Yd.			340
Underwater Structure Excav. Protection-Location 1	Each			1
Underwater Structure Excav. Protection-Location 2	Each			1

DESIGNED	S.F.M.
CHECKED	F.J.S.
DRAWN	S.A.P. & J.P.S.
CHECKED	F.J.S.

Note: The requirements of the IDNR-Division of Water Resources have been fullfilled in accordance with statewide permit No. 12.

WATERWAY INFORMATION

Drainage Area	56.89 Sq. Mi.
Existing Opening (15 Yr.)	520 Sq. Ft.
Required Opening (15 Yr.)	669 Sq. Ft.
Proposed Opening (15 Yr.)	669 Sq. Ft.
Design Discharge (15 Yr.)	26.19 C.F.S.
Created Head (15 Yr.)	0.4 Ft.
100 Year Discharge	4120 C.F.S.
100 Yr. Created Head	0.7 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} = 201,960 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: 2002 AASHTO
25#/Sq. Ft. included in dead load for future wearing surface.

GOOSE CREEK
BUILT 200_ BY
GOOSE CREEK ROAD DISTRICT
PIATT COUNTY
SEC. 04-04125-00-BR
F.A. PROJ. BROS-147(59)
STR. NO. 074-3300 LOADING HS20

LETTERING FOR NAME PLATE

See Std. 515001

"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'".

ILLINOIS STRUCTURAL NO. 2934 (Expires 11/30/06)

LICENSED STRUCTURAL ENGINEER
FRED J. STONE, JR.
81-2934
SPRINGFIELD
STATE OF ILLINOIS

GENERAL PLAN & ELEVATION

SECTION 04-04125-00-BR
GOOSE CREEK ROAD DISTRICT
PIATT COUNTY
STATION 15+24

4440 ASH GROVE
SPRINGFIELD, IL. 62711
(217) 793-8600
oasinc@famvid.com

OZYURT AND STONE, INC.
CONSULTING ENGINEERS

JOB NO.: 0324
FILE: 0324GPE.DGN
DATE: 01-05-05