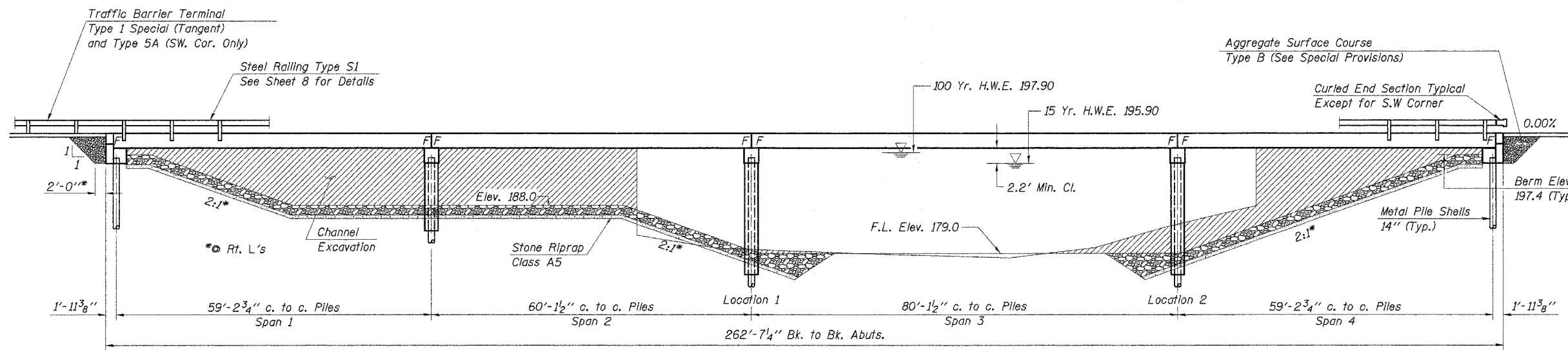
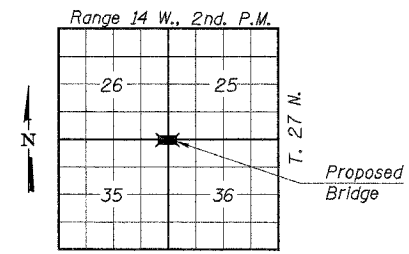


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 159	01-11126-00-BR	IROQUOIS	23	4
DOUGLAS ROAD DIST.	ILLINOIS	BROS-075(128)		

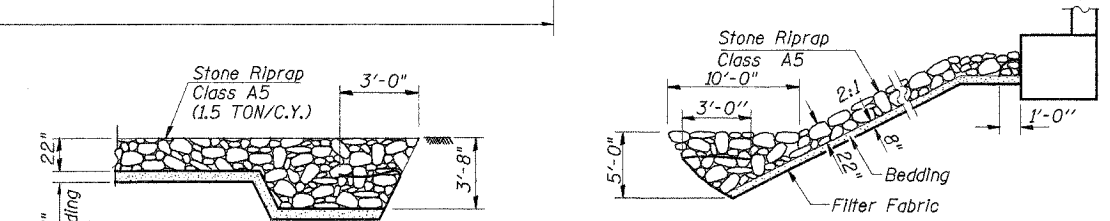
CONTRACT NO. 87300



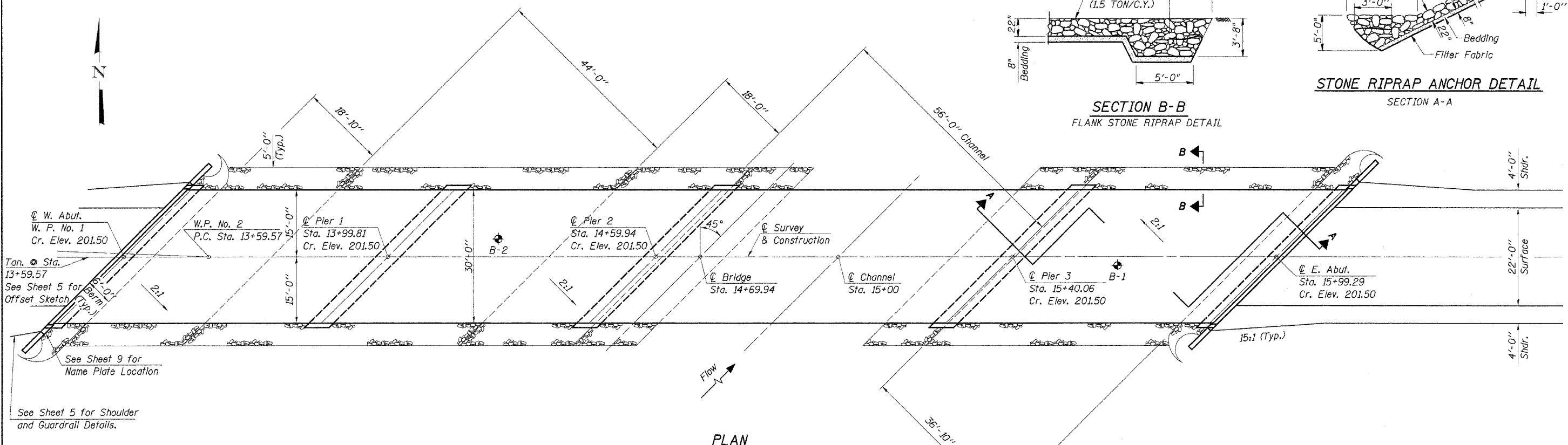
ELEVATION



LOCATION PLAN



STONE RIPRAP ANCHOR DETAIL



PLAN

Note: IDNR - Office of Water Resources has issued Permit No. DS2005013 for construction of this project.

WATERWAY INFORMATION

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

Drainage Area	183.12 Sq. Mi.
Existing Opening (15 Yr.)	1,161 Sq. Ft.
Required Opening (15 Yr.)	1,765 Sq. Ft.
Proposed Opening (15 Yr.)	1,765 Sq. Ft.
Design Discharge (15 Yr.)	4,477 C.F.S.
Created Head (15 Yr.)	0.0 Ft.
100 Year Discharge	6,563 C.F.S.
100 Yr. Created Head	0.1 Ft.

DESIGN STRESSES

$f'_c = 5,000$ p.s.i. (Prestressed Beams)
 $f'_{cb} = 4,000$ p.s.i. (Prestressed Beams)
 $f_c = 1,400$ p.s.i. (Concrete)
 $f'_s = 270,000$ p.s.i. (Prestressed Strands)
 $f_{st} = 201,960$ 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.

"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. (11-19-06)
 ILLINOIS STRUCTURAL NO. 2934 (Expires 11/30/08)



GENERAL PLAN & ELEVATION

SECTION 01-11126-00-BR
 DOUGLAS ROAD DISTRICT
 IROQUOIS COUNTY
 STATION 14+69.94

4440 ASH GROVE SPRINGFIELD, IL 62711 (217) 793-8600 www.fehr-graham.com	FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS REPORTS, RECORDS, SURVEYING, TRANSPORTATION	JOB NO.: 46815 FILE: 02286PE.DGN DATE: 11/06/06
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