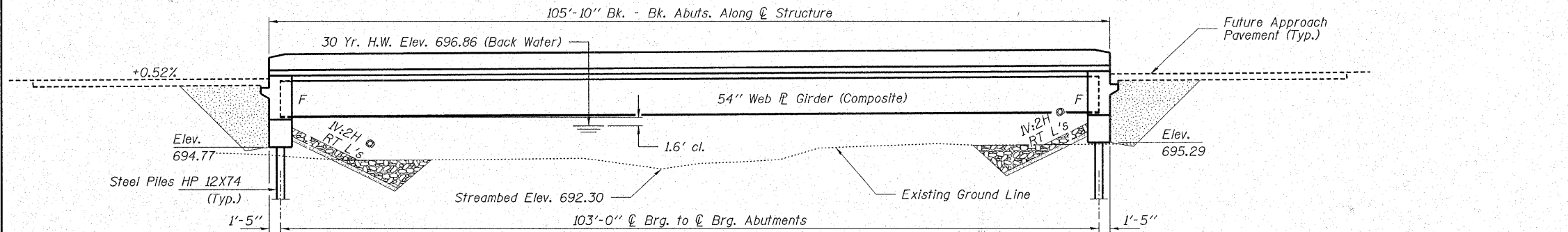


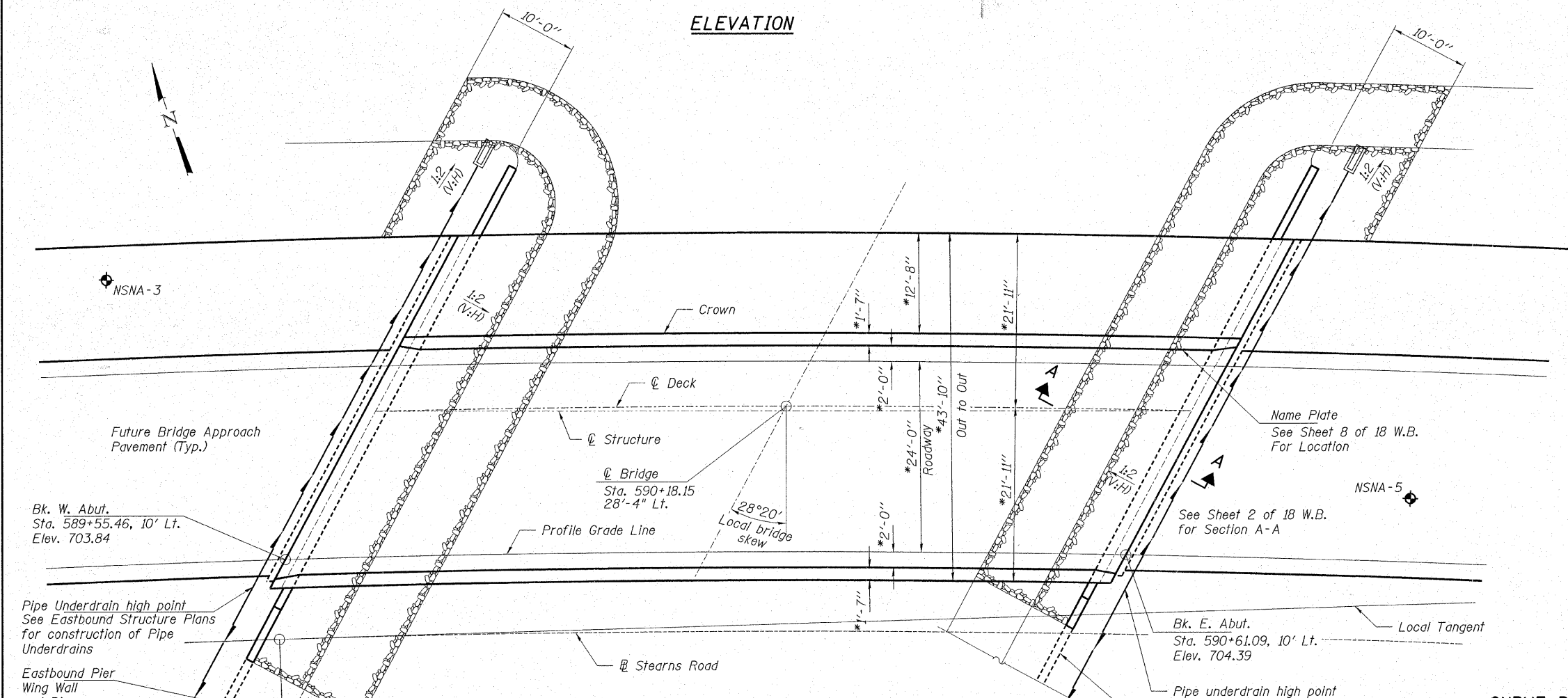
Bench Mark: 16 (TMB 65) "Bench Tie" (yellow) set in north face of 36" tree, 25'± east of the east bank of the Fox River, south of RR bridge and at the back of Midwest Ground Covers Property (MGC property). Elev. 693.886

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.U. 361	06-00214-08-BR	KANE	50	15
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
		CONTRACT NO. 83978 Sheet 1 of 18 W.B.		

Existing Structure: None



ELEVATION



PLAN - WESTBOUND

* Dimension are radial

LOADING HS 20-44
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

$f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (Reinforcement)
 $f_y = 50,000$ p.s.i. (Structural Steel) (M270 GR. 50 W)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.037g
Site Coefficient (S) = 1.0

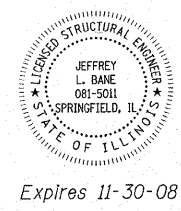
WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	80	N/A	205.8/323.1	696.29	N/A	0.01	N/A	696.30	696.88
Base	50	116	N/A	315.8/539.9	697.40	N/A	0.01	N/A	697.41	697.84
Overtopping	100	134	N/A	364.7/585.3	697.82	N/A	0.02	N/A	697.84	702.70
Max. Calc.	>500	376	N/A	427.3/621.8	N/A	N/A	N/A	N/A	702.70	698.64
	500	179	N/A	425.8/621.8	698.62	N/A	0.02	N/A	698.64	

Note:
Waterway Information Table provided by Christopher B. Burke Engineering, LTD. 07/16/07

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".

10-12-07
ILLINOIS STRUCTURAL NO. 081-5011



Expires 11-30-08

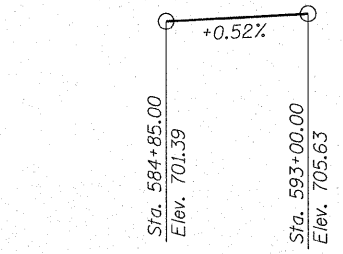
INDEX OF STRUCTURE SHEETS

1. General Plan & Elevation
2. General Notes, Details & Total Bill of Material - Westbound Bridge
- 3.-5. Top of Slab Elevations
6. Superstructure
- 7.-9. Superstructure Details
10. Bicycle Railing
11. Structural Steel
12. Structural Steel Details
13. West Abutment
14. East Abutment
15. Bar Splicers
16. Steel H Pile Details
- 17.-18. Borings

BREWSTER CREEK
BUILT 200 BY
KANE COUNTY
SEC. 06-00214-08-BR
F.A.U. ROUTE 361 / NEW STEARNS ROAD
F.A. PROJ. BRM-000
STR. NO. 045-3165 LOADING HS 20

NAME PLATE
See Std. 515001
DESIGN SCOUR ELEVATION TABLE

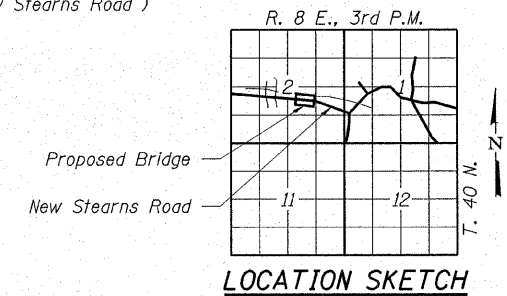
Design Scour Elevation (ft.)	W. Abut.	E. Abut.
	688.66	686.61



PROFILE GRADE
(New Stearns Road)

CURVE DATA

P.I. STA. 589+36.38
 $\Delta = 20^\circ 44' 34.04''$ (RT)
 $D = 2^\circ 36' 15.67''$
 $T = 402.64'$
 $R = 2,200.00'$
 $L = 796.46'$
 $E = 36.54'$
P.C. STA. 585+33.74
P.T. STA. 593+30.20
S.E. = 0.028'/'



HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 548-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-05-0077-1 DATE: 09/20/07
DESIGNED: T.P.L. CHECKED: J.L.B. DRAWN: P.J.L.

GENERAL PLAN AND ELEVATION
SECTION 06-00214-08-BR
F.A.U. ROUTE 361 / NEW STEARNS ROAD
OVER THE NORTH ARM OF BREWSTER CREEK
KANE COUNTY
STRUCTURE NO. 045-3165 (W.B.) / STATION 590+18.15