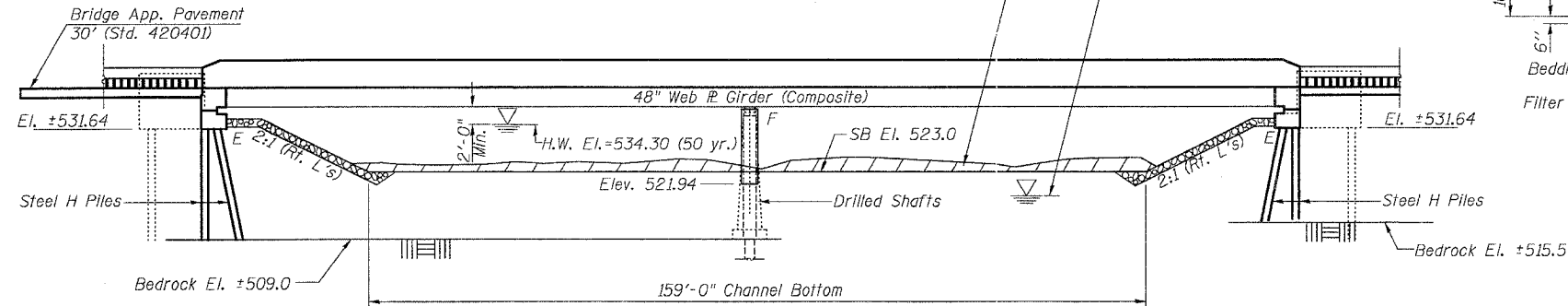
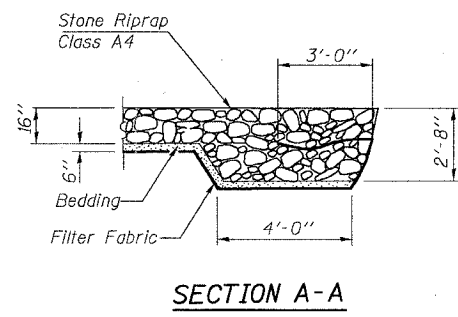


Bench Mark: Chiseled "□" above bridge name plate Elev. = 543.66

Existing Structure: SN 025-0077 built in 1971 as Ill Rte. 32/33 (FAP 774) Sec. 107(BR, BR-1)  
The superstructure consists of RC deck 225'-8" long by 46'-0" wide out to out supported on a two span R girder.  
Traffic shall be maintained during the rehabilitation of the structure by Staged Construction.



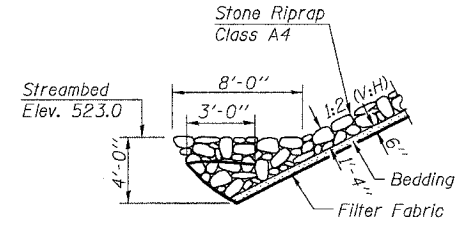
**ELEVATION**



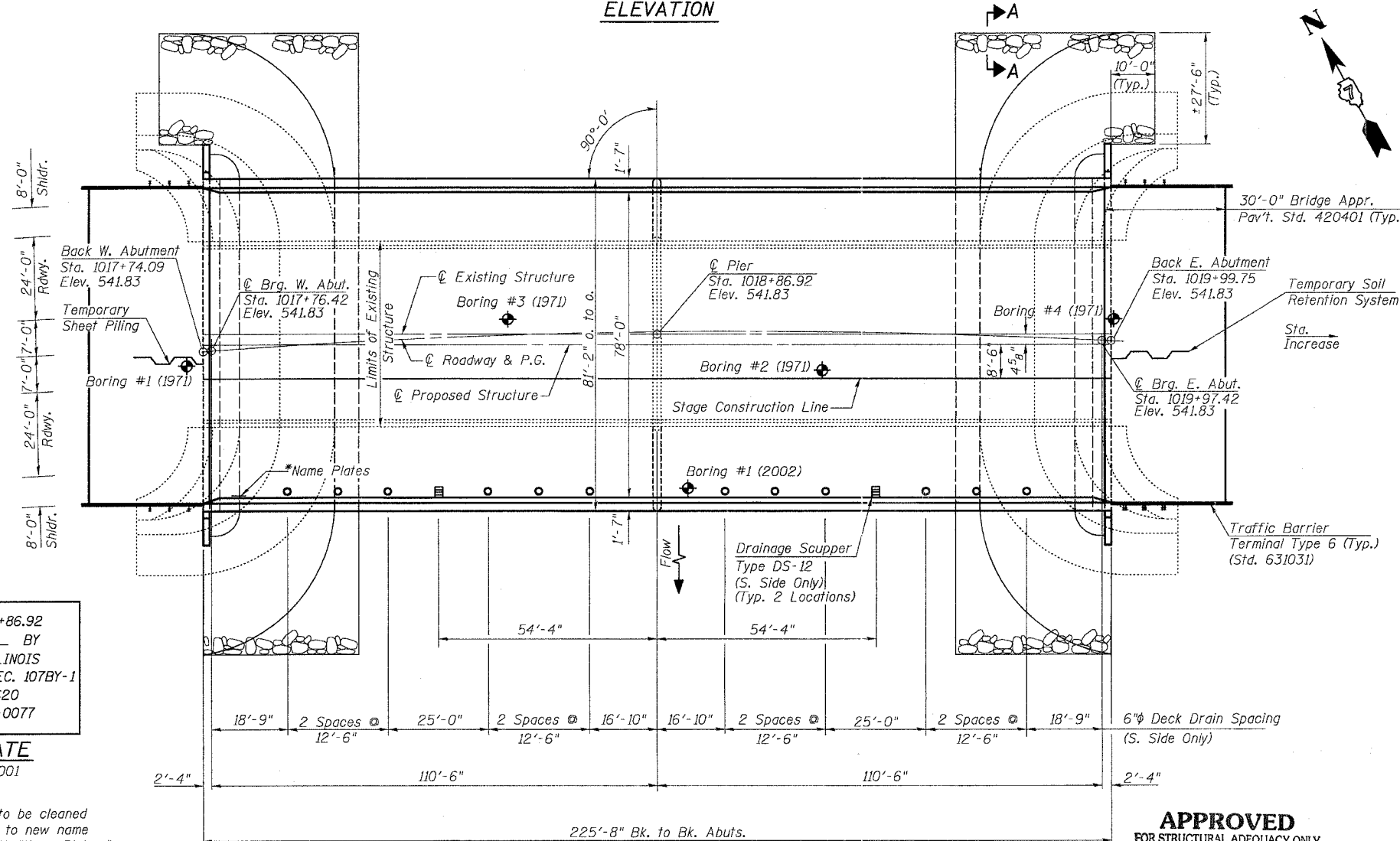
**SECTION A-A**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1 26 SHEETS
F.A.P. RTE.	107BY-1	EFFINGHAM	273	201	
FED. ROAD DIST. NO. 7	ILLINOIS FED. AID PROJECT-				

**CONTRACT NO. 94827**  
**@ Rdwy. Curve Data**  
P.I. = Sta. 1014+09.68  
 $\Delta = 25^{\circ}19'45''$  (RT)  
 $D = 0^{\circ}30'00''$   
 $R = 11,456.75'$   
 $L = 5,064.76'$   
 $T = 2,574.44'$   
 $E = 285.69'$   
 $S.E. = 1.56\%$   
P.C. = Sta. 988+35.24  
P.T. = Sta. 1039+00.00  
SE Attained Sta. 985+68.57 to Sta. 989+68.57  
SE Removed Sta. 1037+66.67 to Sta. 1041+66.67



**STONE RIPRAP ANCHOR DETAIL**



**PLAN**

**PROPOSED PROFILE GRADE**

STATION 1018+86.92  
REBUILT 20\_\_ BY  
STATE OF ILLINOIS  
F.A.P. RTE. 774 SEC. 107BY-1  
LOADING HS20  
STR. NO. 025-0077

**NAME PLATE**  
See Std. 515001

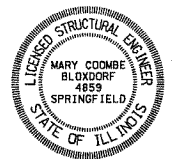
\*Exist. name plate is to be cleaned and relocated adjacent to new name plate. Cost included with "Name Plates."

**WATERWAY INFORMATION**

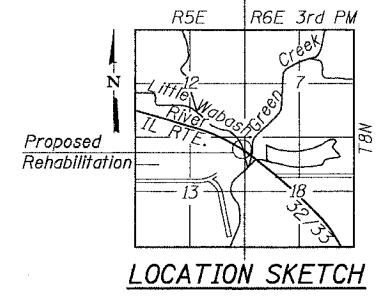
Drainage Area = 220 Sq. Miles Low Grade Elev. = 541.3 @ Sta. 1010+00 Max. Rec. H.W.E. = Unk.

Flood	Freq. Yr.	Opening Sq. Ft.		Nat. H.W.E.		Head-Ft.		Headwater El.		
		Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	50	19,000	7728	1559	1559	534.3	0.5	0.5	534.8	534.9
Base	100	21,700	9010	1724	1724	535.0	0.5	0.5	535.5	535.5
Max. Calc.	500	28,000	11829	2087	1997	536.7	0.6	0.7	537.3	537.4

**APPROVED**  
FOR STRUCTURAL ADEQUACY ONLY  
*Robert E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES



*Mary Louise Bloxdorf*  
Illinois Structural No. 4859  
Expires 11-30-2004  
Date: 12/23/03



**LOCATION SKETCH**

**LOADING HS20-44**  
Allow 50#/sq. ft. for future wearing surface.

**DESIGN SPECIFICATIONS**  
AASHTO 1996 and Interims 1997 Thru 2002 and 1995 Seismic Retrofitting Manual for Highway Bridges FHWA-RD-94-052.

**DESIGN STRESSES**

NEW CONSTRUCTION	EXISTING CONSTRUCTION
$f'c = 3,500$ psi	$f_y = 36,000$ psi St. Steel
$f_y = 60,000$ psi (reinf.)	
$f_y = 36,000$ psi (M270 Grade 36)	

**SEISMIC DATA**  
Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = 0.07g  
Site Coefficient (S) = 1.0

<b>GENERAL PLAN AND ELEVATION</b>		
PROJECT	IL RTE. 32/33 OVER LITTLE WABASH RIVER OVERFLOW F.A.P. RTE. 774 SECTION 107BY-1 EFFINGHAM COUNTY STATION 1018+86.92 STRUCTURE NO. 025-0077	PROJECT NO. 02017
SCALE		DATE
DRAWN BY	TFG	CHECKED BY
KPS/CME/MCB		DRAWING NO.
<b>COOMBE-BLOXDORF P.C.</b> Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703		1 OF 26 SHTS