

Bench Mark - 4598-11 Chiseled square on the north wingwall of the east abutment, 29.6' Lt. Sta. 237+34.0 SN 092-0063 El. 659.76.

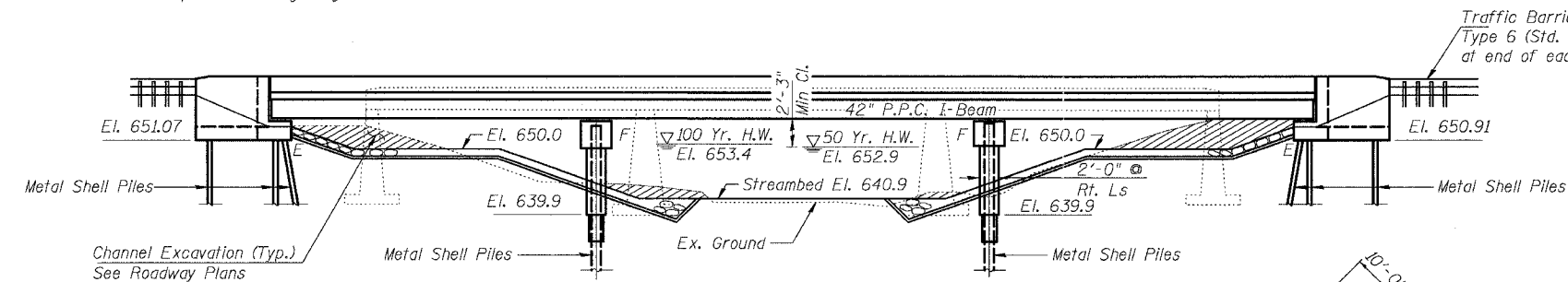
Existing Structure: Structure No. 092-0063 was built in 1932 as SBI Route 119, Section 115B. The Superstructure was replaced and the Substructure was widened in 1972 as Section 115BY. The existing structure is a 3 span, precast prestressed concrete deck on concrete spill thru abutments and solid concrete piers. The structure is 52'-0" o. to o. of deck, 164'-5 1/4" bk. to bk. of abutments and is skewed 45° L.F.. The existing structure shall be removed and replaced utilizing staged construction.

No Salvage.

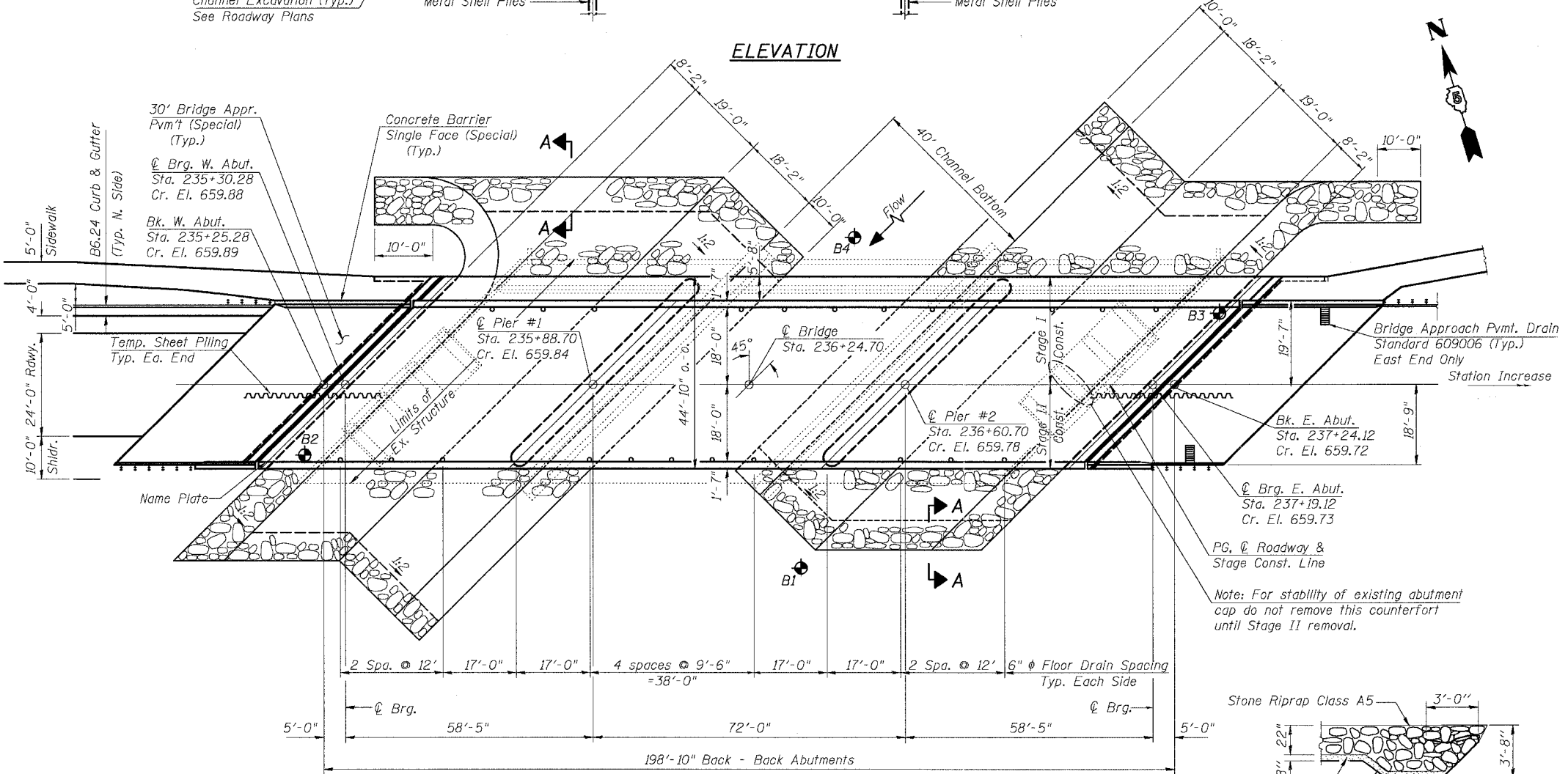
FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1 28 SHEETS
711	115(BY)BR	VERMILION	93	28	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT- CONTRACT NO. 90843					

**INDEX OF SHEETS**

- 1) General Plan and Elevation
- 2) General Notes and Total Bill of Material
- 3) Stage Construction Details
- 4) Temporary Concrete Barrier for Stage Construction
- 5-6) Top of Slab Elevations
- 7-8) Superstructure
- 9-10) Superstructure Details
- 11) Diaphragm Details
- 12) Continuous Seal Type Neoprene Expansion Joint
- 13) Bicycle Railing
- 14) Framing Plan
- 15) Beam Details-Span 1 & 3
- 16) Beam Details-Span 2
- 17) Bearing Details
- 18) West Abutment
- 19) East Abutment
- 20-21) Abutment Details
- 22) Piers
- 23) Concrete Pile Details
- 24) Bar Splicer Details
- 25) Anchor Bolt Details
- 26-28) Boring Logs



**ELEVATION**



**PLAN**

STATION 236+24.70  
BUILT 20\_\_ BY  
STATE OF ILLINOIS  
FAP RTE. 711 SEC. 115(BY)BR  
LOADING HS20  
STR. NO. 092-0200

**NAME PLATE**

See Std. 515001

**LOADING HS20-44**

Allow 50#/sq. ft. for future wearing surface.

**DESIGN SPECIFICATIONS**

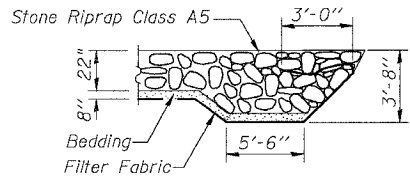
2002 AASHTO

**DESIGN STRESSES**

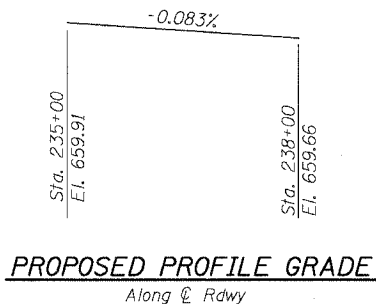
<b>FIELD UNITS</b>	<b>PRECAST PRESTRESSED UNITS</b>
$f'_c = 3,500$ psi	$f'_c = 6,000$ psi
$f_y = 60,000$ psi (reinf.)	$f_{ci} = 5,000$ psi
	$f'_s = 270,000$ psi (1/2" $\phi$ low relaxation Strands)
	$f_{sl} = 201,960$ psi (1/2" $\phi$ low relaxation Strands)

**SEISMIC DATA**

Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = 0.047 g  
Site Coefficient (S) = 1.5



**SECTION A-A**



**PROPOSED PROFILE GRADE**

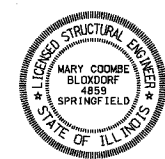
**WATERWAY INFORMATION**

Drainage Area = 36.7 Sq. Mi. Low Grade Elev. 659.5 @ Sta. 238+00

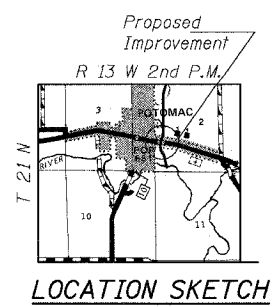
Flood Yr.	Freq. C.F.S.	Q	Opening Sq. Ft.	Nat. Prop.	Head - Ft. H.W.E.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.		
Design	50	4635	796	848	652.9	0.4	0.3	653.3	653.2
Base	100	5212	843	911	653.4	0.5	0.3	653.9	653.7
Max.	500	6598	951	1049	654.5	0.7	0.3	655.2	654.8

**APPROVED**  
FOR STRUCTURAL ADEQUACY ONLY

*Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES



*Mary Coombe Bloxdorf*  
ILLINOIS STRUCTURAL NO. 4859  
EXPIRES: 11/30/04  
DATE: 6/10/04



**LOCATION SKETCH**

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE GENERAL PLAN AND ELEVATION	
PROJECT US RTE 136 OVER BLUEGRASS CREEK FAP ROUTE 711 SECTION 115(BY)BR VERMILION COUNTY STATION 236+24.70 STRUCTURE NUMBER 092-0200	PROJECT NO. 01054 SCALE DATE 05/18/04 DRAWN BY CFC/TEG CHECKED BY KPS/CME/MCB DRAWING NO.
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	1 OF 28 SHTS