

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET	SHEET NO.
F.A.P. 698	126BR	WOODFORD	56	15	19 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

Contract # 68576

**LOADING HS20-44**

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

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications for Highway Bridges 17th Edition

**DESIGN STRESSES**

**FIELD UNITS**

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)

**SEISMIC DATA**

Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = 0.04g  
Site Coefficient (S) = 1.0

**BENCHMARK**

Chiseled "square" on N.E. wingwall ± Sta. 521+34.80 25' RT., Elev. = 676.38'

**EXISTING STRUCTURE**

S.N. 102-0029 was built in 1928 as SBI Route 698, Section 126, at Station 521+52.42. The superstructure consists of a 2 simple span reinforced concrete slab. The deck measures 47' back to back of Abutments and 42'-2" out to out of the deck. The Abutments are restrained top and bottom. The existing structure will be replaced utilizing stage construction. One lane of traffic and a pedestrian walkway is to be maintained at all times during construction.  
No salvage.

**INDEX OF SHEETS**

- General Plan
- General Notes, Total Bill of Material & Temporary Sheet Piling
- Stage Construction Details
- Temporary Concrete Barrier for stage construction
- Plan of Slab elevations
- Top of Slab elevations
- Top of East Approach Slab elevations
- Top of West Approach Slab elevations
- Superstructure - plan & cross section
- Superstructure Details
- Concrete Bridge Railing, Sidewalk Mounted
- Concrete Bridge Railing details, Sidewalk Mounted
- Temporary Support System
- East Abutment
- West Abutment
- Piers
- Bar Splicer Assembly details
- Steel Pile details
- Soil Barring Logs

**DESIGN SCOUR ELV. TABLE**

	Abuts.	Piers
Design Scour Elev.	671.0	662.0

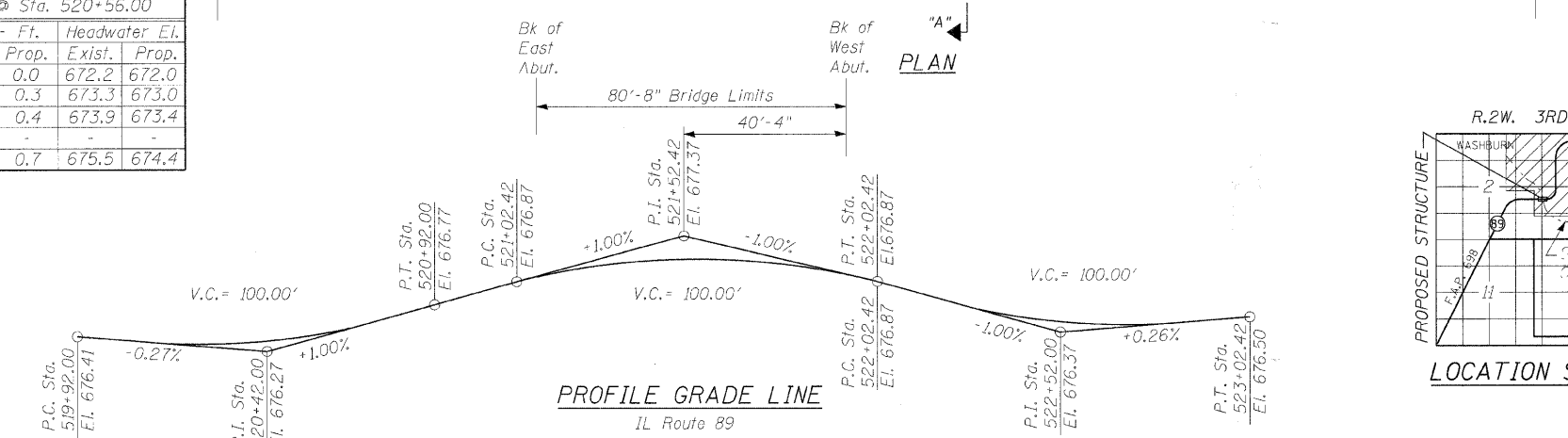
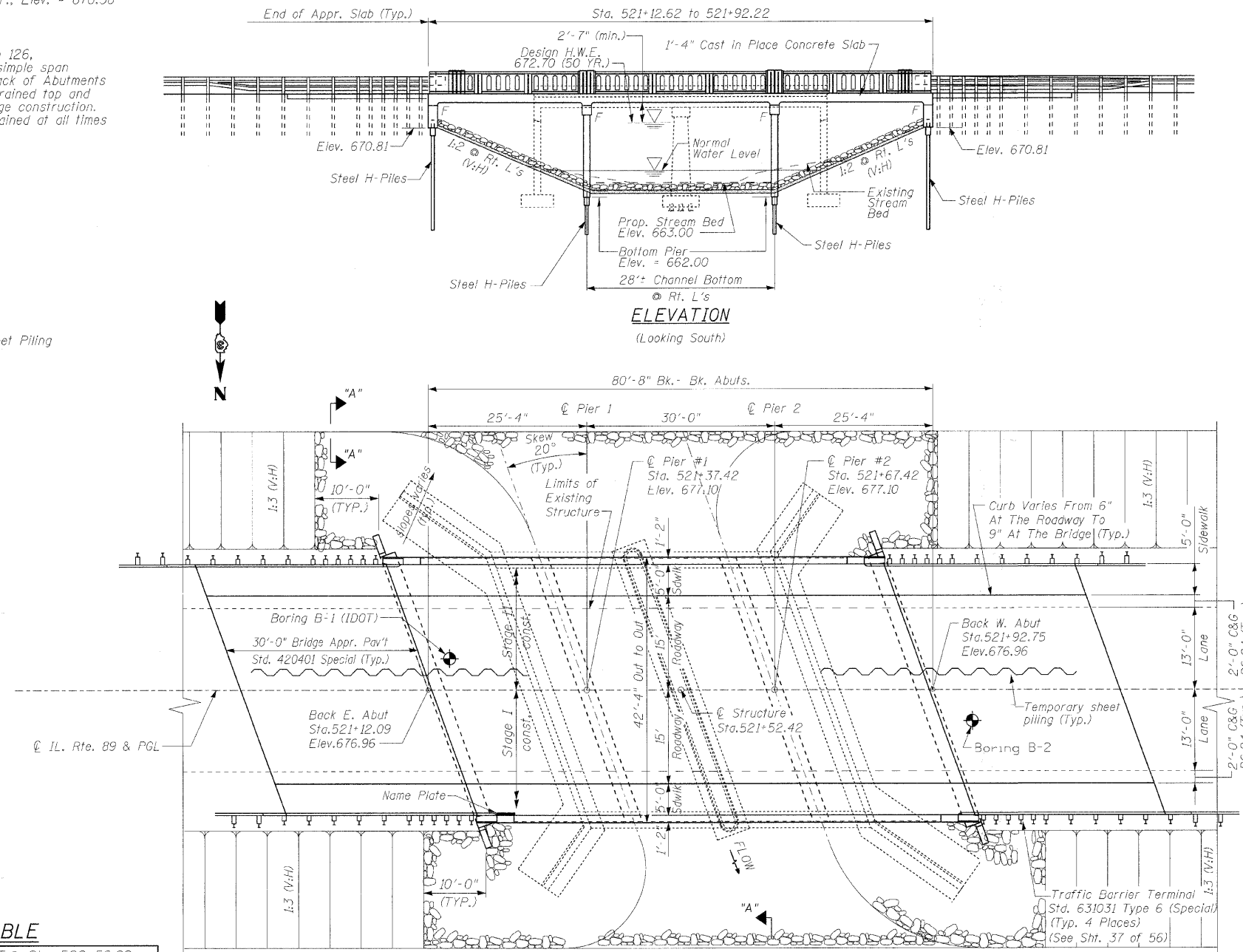
**WATERWAY INFORMATION TABLE**

Drainage Area = 22.7 sq. mi. Low Grade Elev. = 676.4 FT. @ Sta. 520+56.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	1730	300	367	672.0	0.2	0.0	672.2	672.0	
Base	50	2740	325	408	672.7	0.6	0.3	673.3	673.0	
Overtopping	100	3190	336	427	673.0	0.9	0.4	673.9	673.4	
Max. Calc.	500	4260	362	471	673.7	1.8	0.7	675.5	674.4	

10 Yr. Velocity through existing Bridge = 5.8 fps.  
10 Yr. Velocity through proposed Bridge = 4.7 fps.  
All-Time H.W.E. and date : unknown

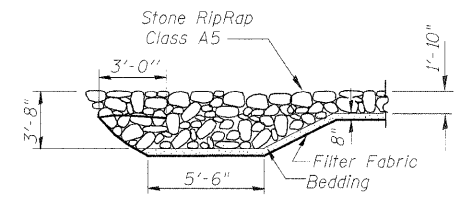
DESIGNED	KRG
CHECKED	MJK
DRAWN	GSJ
CHECKED	MJK



STATION 521+52.42  
BUILT 20 BY  
STATE OF ILLINOIS  
F.A.P. RT. 698 SEC. 126BR  
  
LOADING HS20  
STR. NO. 102-0082

**NAME PLATE**

(See Std. 515001)



**SECTION A-A**



Expires: 11/30/2008

*m. jo Karshenas* 08-08-2008

**APPROVED**  
FOR STRUCTURAL ADEQUACY ONLY

*Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES

**GENERAL PLAN**  
IL. ROUTE 89 OVER  
SNAG CREEK  
F.A.P. ROUTE 698 - SEC. 126BR  
WOODFORD COUNTY  
STATION 521+52.42  
STRUCTURE NO. 102-0082

MID-AMERICA ENGINEERING SERVICES