STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

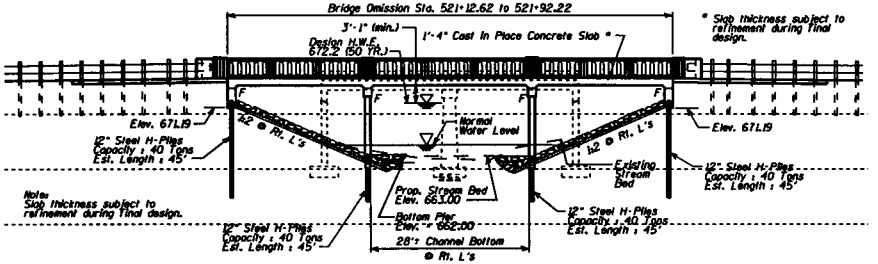
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	-	-		SHEET NO. 1 OF 2 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT -		

BENCHMARK

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

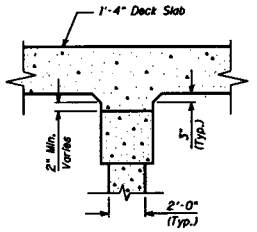
EXISTING STRUCTURE

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 span reinforced concrete slab. The deck measures 47' back to back of abutments and 42'-2" out to out of the deck. The existing structure will be replaced. Stage construction will be utilized to maintain one lane of traffic at all times. No salvage.

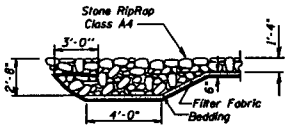


ELEVATION

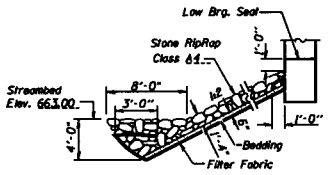
(Looking South)



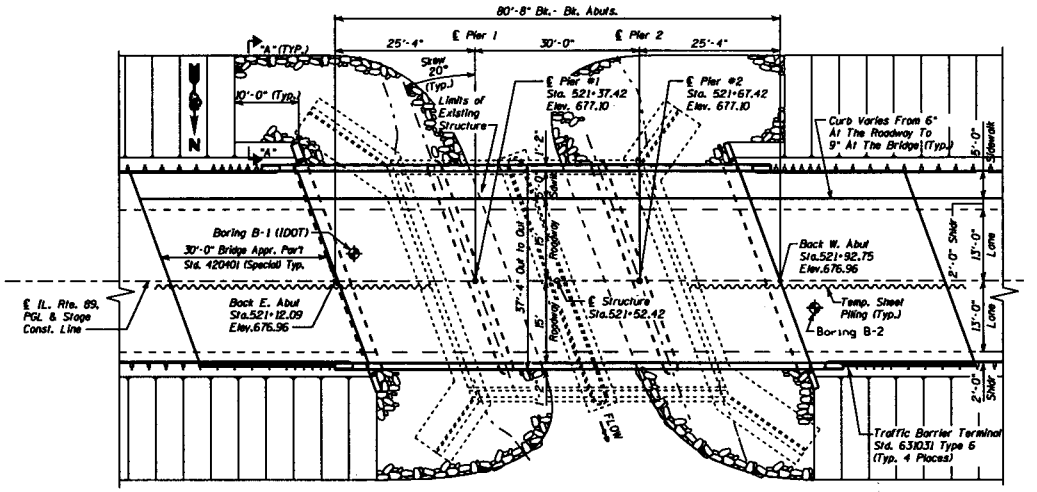
SECTION THRU PIER



SECTION A-A



SECTION THRU SLOPE



PLAN

WATERWAY INFORMATION

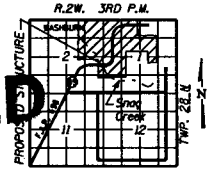
Drainage Area = 22.7 sq. mi. Low Grade Elev. = 676.38 FT.@ Sta. 520+56.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater EL Exist.	Headwater EL Prop.
	10	-	-	-	-	-	-	-	-
Design	50	2050	307	379	672.2	0.2	0.0	672.4	672.2
Base	100	2345	347	400	672.4	0.4	0.1	672.8	672.5
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	3049	350	446	672.9	0.8	0.4	673.7	673.3

APPROVED

AUG 25 2005

AS A BASIS FOR PREPARATION OF DETAILED PLANS



LOCATION SKETCH

HIGHWAY CLASSIFICATION

E.&.P. Rte. 698 - IL Rte. 89
Functional Class: Major Arterial (Non-Urban)
ADT: 3250 (2002); 4550 (2022)
DHV: 325
Design Speed: 30 m.p.h.
Posted Speed: 30 m.p.h.

LOADING HS20-44

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

DESIGN SPECIFICATIONS

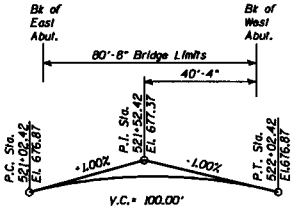
2002 AASHTO Bridge Design Specifications

DESIGN STRESSES

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

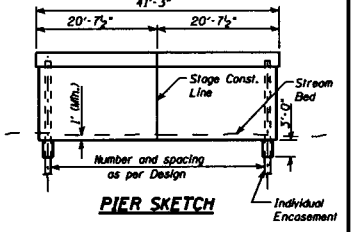
SEISMIC DATA

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



PROFILE GRADE LINE

IL Route 89



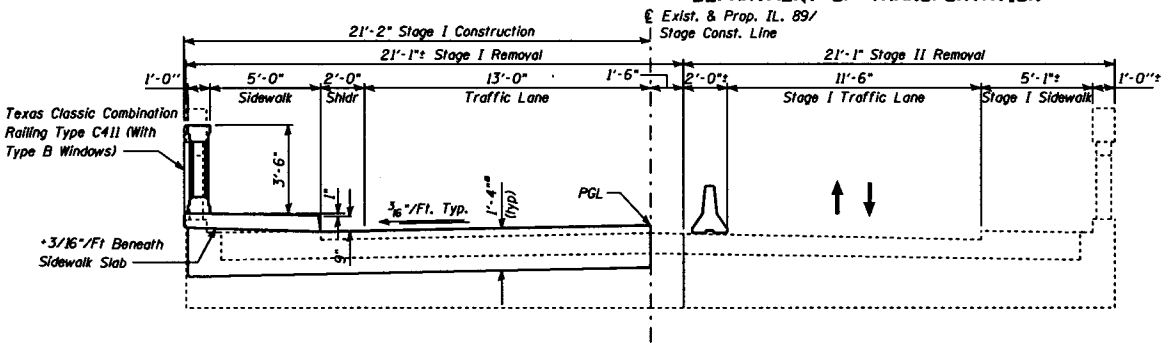
PIER SKETCH

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	-	-		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

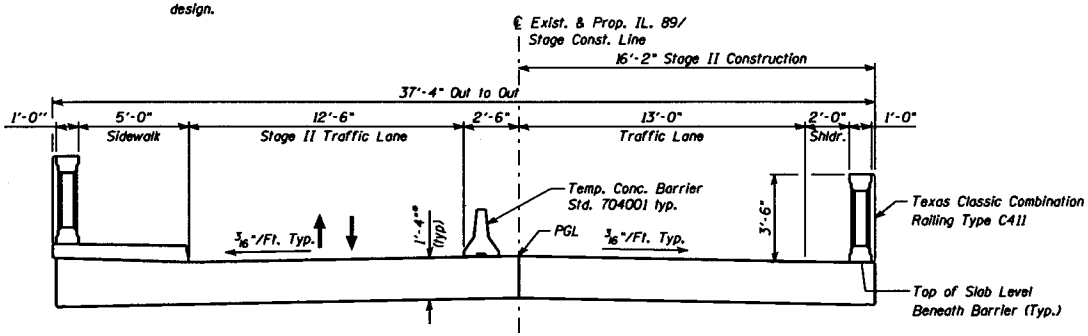
SHEET NO. 2
2- SHEETS



STAGE I CONSTRUCTION

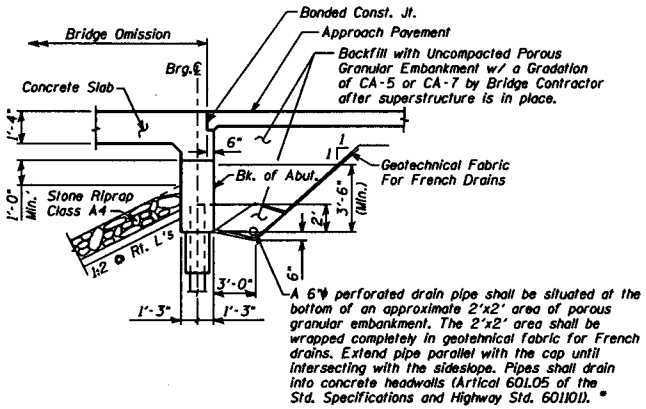
(Looking West)

* Slab thickness subject to refinement during final design.



STAGE II CONSTRUCTION

(Looking West)



SECTION THRU INTEGRAL ABUTMENT

Horiz. Dimensions @ Rt. L's

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