

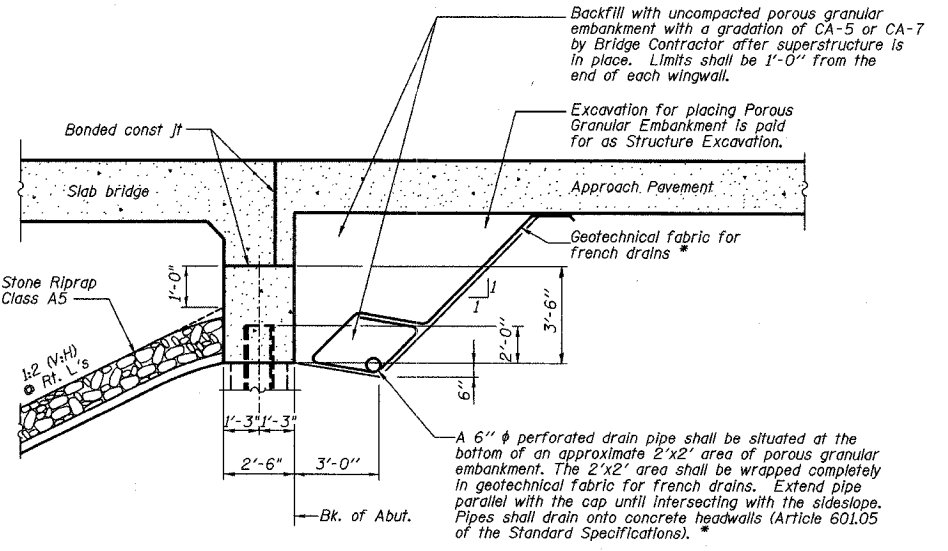
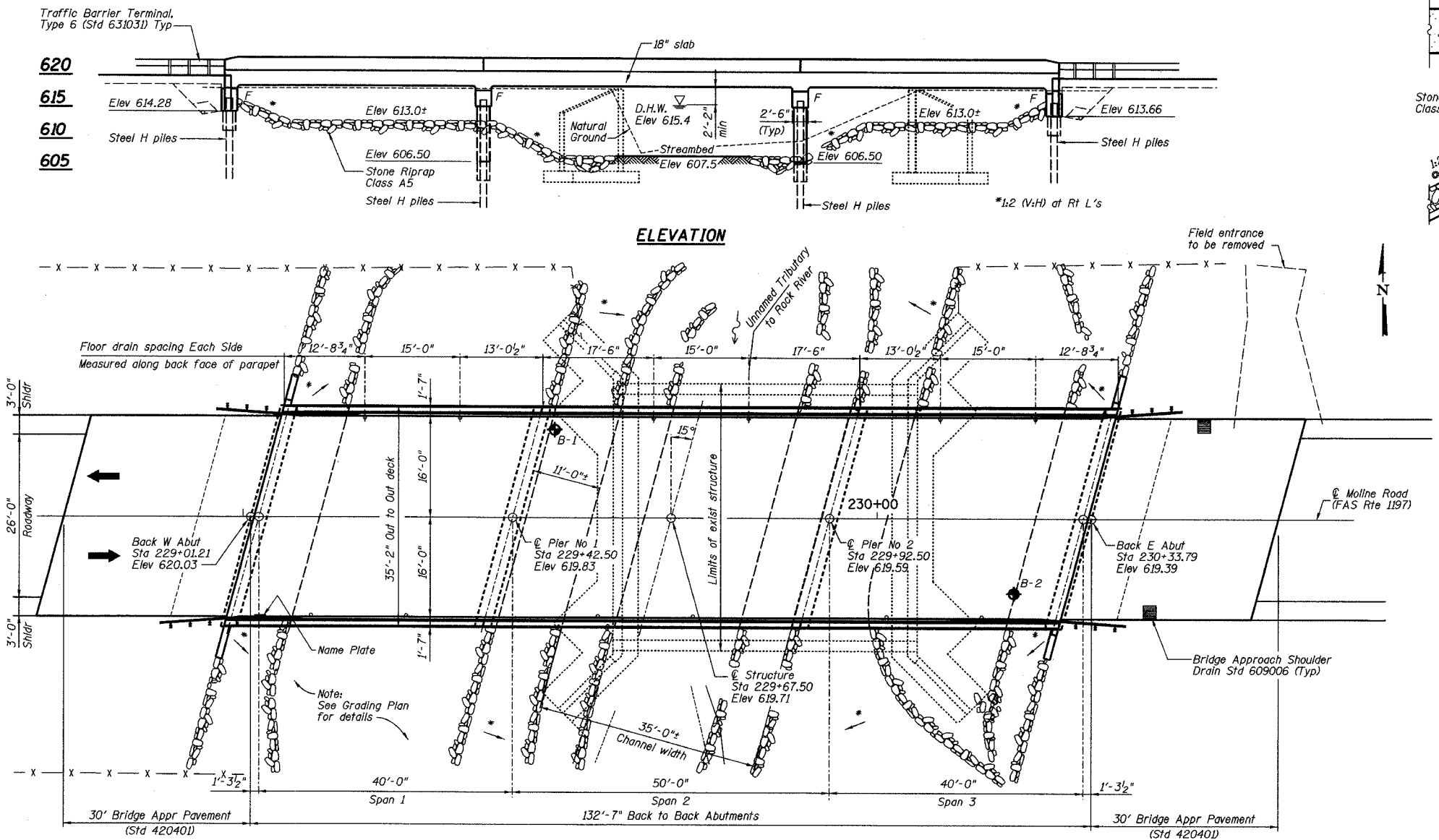
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Sheet No. 1  
of 11 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1197	105BR-2	WHITESIDE	59	16
ROADWAY DIST.	ILLINOIS	PROJECT	CONTRACT 64421	

Existing Structure: SN 098-0027  
Single span, cast in place, concrete tee beam bridge, built on timber pile supported closed abutments, 48' back to back abutts and 42'-4" out to out of deck.  
Contractor shall remove existing structure as required and replace with a 3 span reinforced concrete slab bridge on pile bent piers and abutments.  
Traffic will be detoured during construction.  
No salvage.

Bench Mark:  
406 "□" cut on headwall of culvert  
Sta 214+81.2, 28.5' Lt  
Elev 620.58  
407 "□" cut on top of NE wingwall of bridge  
Sta 230+06.6, 22.3' Lt  
Elev 618.83



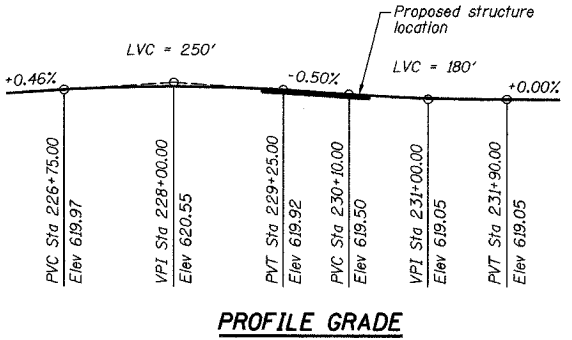
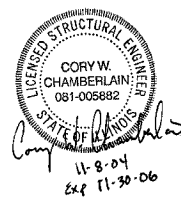
STATION 229+67.50  
BUILT 20 BY  
STATE OF ILLINOIS  
FAS 1197 SEC 105BR-2  
LOADING HS20  
STR. NO. 098-0110

**NAME PLATE**  
See Std. 515001

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

**DESIGN SPECIFICATIONS**  
2002 AASHTO  
**LOADING HS20-44**  
Allow 50#/#sq. ft. for future wearing surface.  
**DESIGN STRESSES**  
FIELD UNITS  
f'c = 3,500 psi  
fy = 60,000 psi

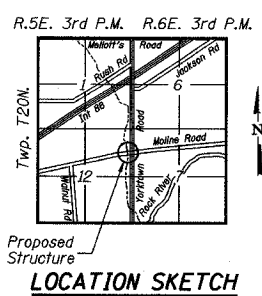
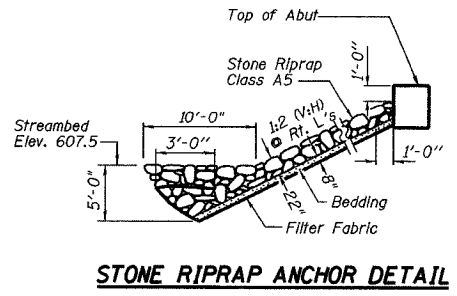
**SEISMIC DATA**  
Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = .034  
Site Coefficient (S) = 1.0



**WATERWAY INFORMATION**

Drainage Area = 10.95 sq mi  
Existing Low Grade Elev. 618.70 @ Sta. 229+50  
Proposed Low Grade Elev. 619.00 @ Sta. 231+00

Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Exist. Head-Ft.	Prop. Headwater El.	Exist. Prop.	Exist. Prop.
Design	10	1459	261	412	614.7	0.4	0.0	615.1 614.7
Base	50	2209	291	489	615.4	1.2	0.0	616.6 615.4
Max. Calc.	100	2522	291	514	615.6	1.6	0.1	617.2 615.7
	500	3262	291	567	616.1	2.6	0.4	618.7 616.5



**GENERAL PLAN AND ELEVATION**

REVISIONS		MOLINE ROAD OVER UNNAMED TRIBUTARY TO ROCK RIVER	DRAWN BY DATE
No.	DATE		INITIALS
1			R King 8/04
2			CHECKED BY DATE
3			CMV 8/04
4			DATE BY DATE
5			CWC 8/04
6			BOOK NUMBER
7			
8			
9			
10			
11			
12			

FAS ROUTE 1197 SECTION 105BR-2  
STA 229+67.50 SN 098-0110 WHITESIDE COUNTY  
HOMER L. CHASTAIN & ASSOCIATES, LLP  
CONSULTING ENGINEERS  
184-001397

PROJECT NO. 4858-3  
SHEET NO.