

Benchmark: Chiseled "□" on top of N.W. Wingwall of S.N. 006-0071. Elev. 632.93

Existing Structure: SN 006-0071 to be removed.

Originally built in 1936 as S.A. 3 Section 13-X-B. Superstructure was widened and replaced in 1960. Three span prestressed concrete box beam with open abutments on piles and pile bent piers. 147'-8 1/2" Bk. to Bk. Abutments.

Construction to be completed using detour.

No Salvage.

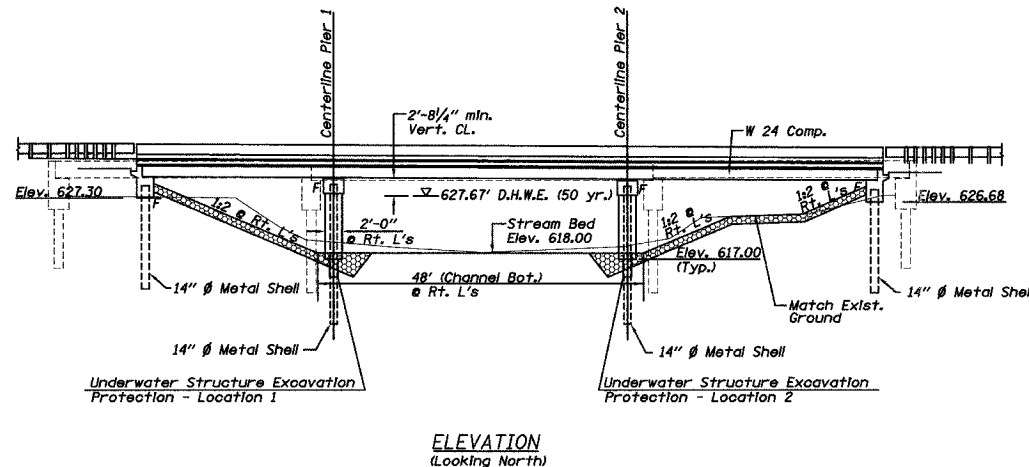
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

See Sheet 2 of 19 for Total Bill of Materials and General Notes.

ROUTE NO.	SECTION	COUNTY	SHEET	DATE
FAS 2247	13X-BR-1	BUREAU	51	13
FAS 2247		ILLINOIS	FAS 2247	

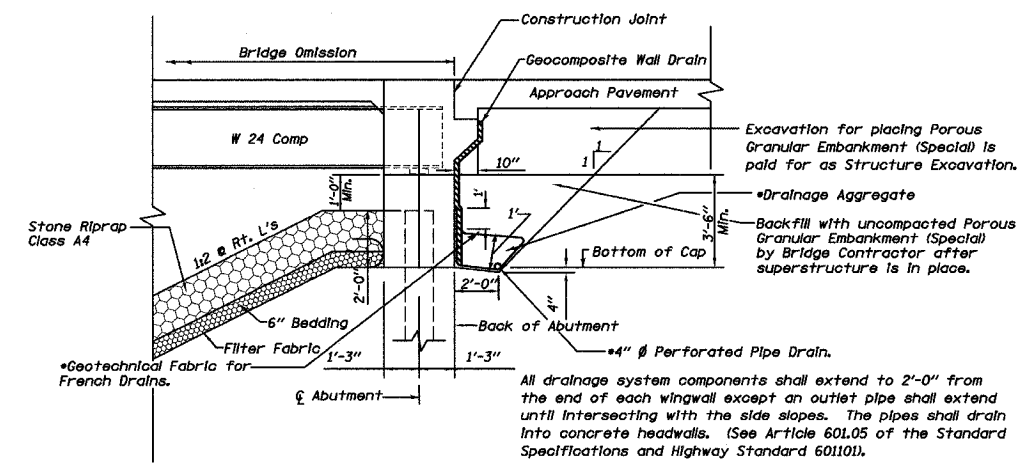
SHEET NO. 1
OF 19 SHEETS

Contract #64938



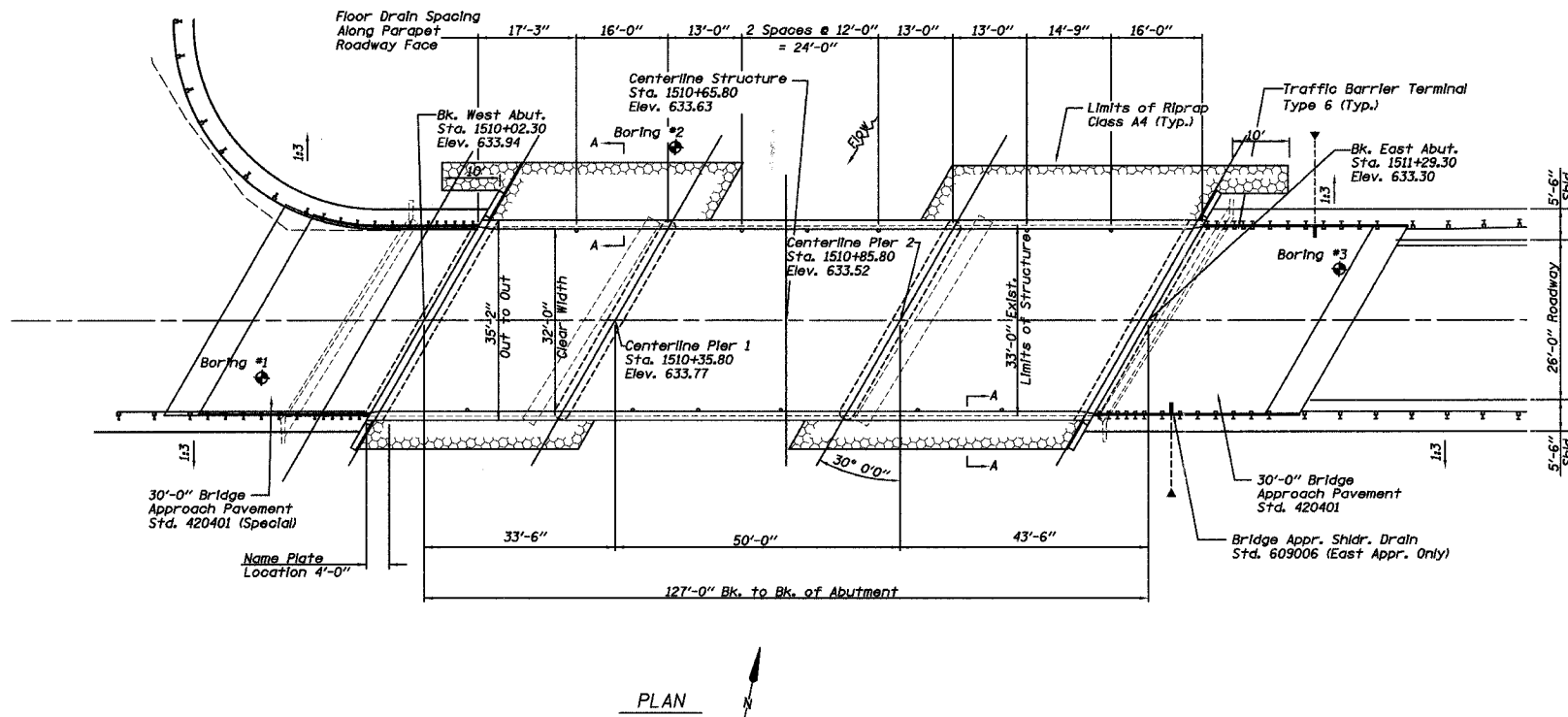
STATION 1510+65.80
BUILT 200_ BY
STATE OF ILLINOIS
F.A.S. RT. 2247 SEC. 13X-BR-1
LOADING HS20
STR. NO. 006-0169

NAME PLATE DETAIL
See Std. 515001

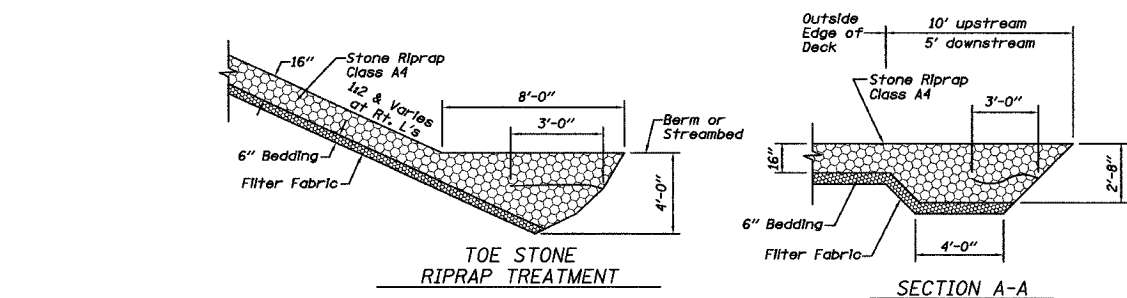


SECTION THRU INTEGRAL ABUTMENT

DIMENSIONS AT RIGHT ANGLES
* Included in the cost of "Pipe Underdrains for Structures"

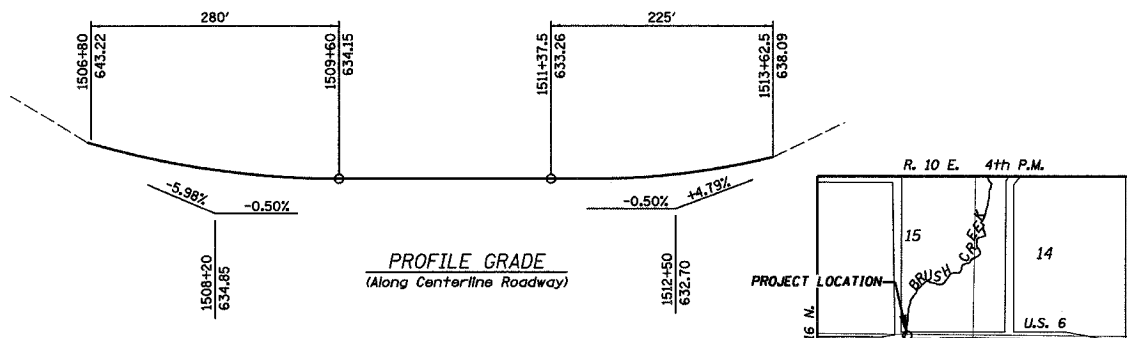


PLAN



TOE STONE RIPRAP TREATMENT

SECTION A-A



PROFILE GRADE
(Along Centerline Roadway)

LOCATION SKETCH

DESIGN SCOUR ELEVATION	W. ABUT	PIER 1	PIER 2	E. ABUT
	627.00	610.00	610.00	626.60

WATERWAY INFORMATION

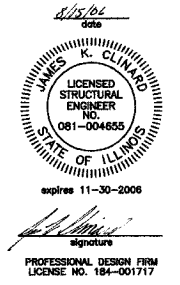
DRAINAGE AREA= 43.1 SQ. MI. Exist. Low Grade Elev.= 632.70 @ Sta. 1510+60.8
Prop. Low Grade Elev.= 633.20 @ Sta. 1511+58.7

FLOOD	FREQ. YR.	Q C.F.S.	OPENING SQ. FT.		HEAD - FT.		HEADWATER EL.		
			EXIST.	PROP.	H.W.E.	PROP.	EXIST.	PROP.	
DESIGN	10	2665	500.75	576.88	626.86	0.12	0.04	626.98	626.90
BASE	50	3922	578.79	657.63	627.67	0.21	0.17	627.88	627.84
OVERTOPPING	100	4436	607.23	685.04	627.92	0.26	0.21	628.18	628.13
MAX. CALC.	500	5634	662.98	738.76	628.41	0.42	0.34	628.83	628.75

10 Year Velocity Through Existing Bridge= 5.17 fps
10 Year Velocity Through Prop. Bridge= 4.60 fps

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson (P.E.)
ENGINEER OF BRIDGES AND STRUCTURES



CHAMLIN ASSOCIATES
PERU ILLINOIS MORRIS

LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface
DESIGN SPECIFICATIONS
2002 AASHTO

DESIGN STRESSES
Field Units
f'_c = 3,500 psi (Substructure)
f'_c = 3,500 psi (Superstructure)
f_y = 60,000 psi (reinforcement)
f_y = 50,000 psi (M270 Grade 50W Structural Steel)

SEISMIC DATA
S.P.C.= A
A= 0.04
S= 1.0

GENERAL PLAN
FAS ROUTE 2247 (U.S. 6)
OVER BRUSH CREEK
SECTION 13X-BR-1
BUREAU COUNTY
STA. 1510+65.80
SN 006-0169