APPROVED

JUN 2 1 2006

AS A BASIS FOR PREPARATION OF DETAILED PLAN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1360	65-BR	WOODFORD	-	-
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		

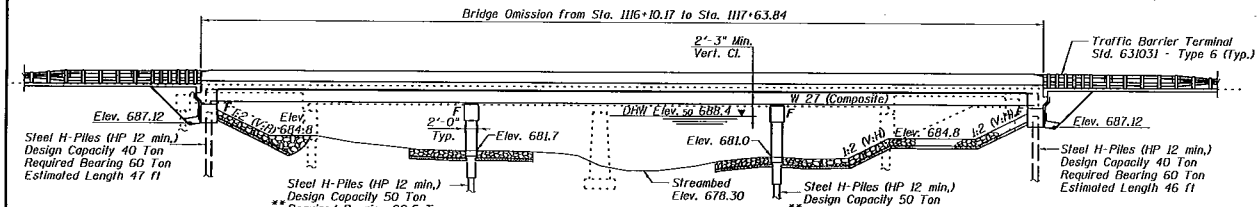
SHEET NO. 1
1 SHEETS

Contract #

Benchmark: Chisled "□" on top of southeast wingwall of S.N. 102-0005. Elev. 694.36.

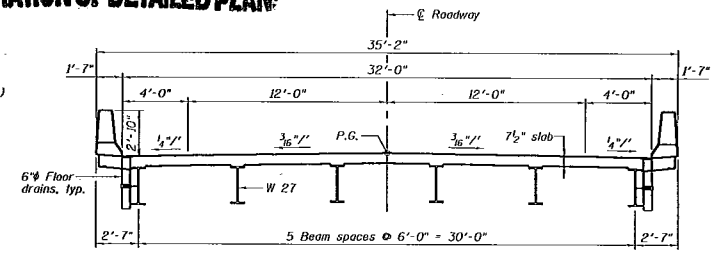
Existing Structure: S.N. 102-0005. Built as S.B.I. Route 2, Section 65-BR in 1963. Four span 153'-8" back to back approach bents, 35'-8" out to out supported on pile bents and solid wall pier. Spans 1 and 4 R.C. slab, spans 2 and 3 noncomposite R.C. deck on rolled steel beams. Road to be closed and traffic detoured during construction.

No Salvage.

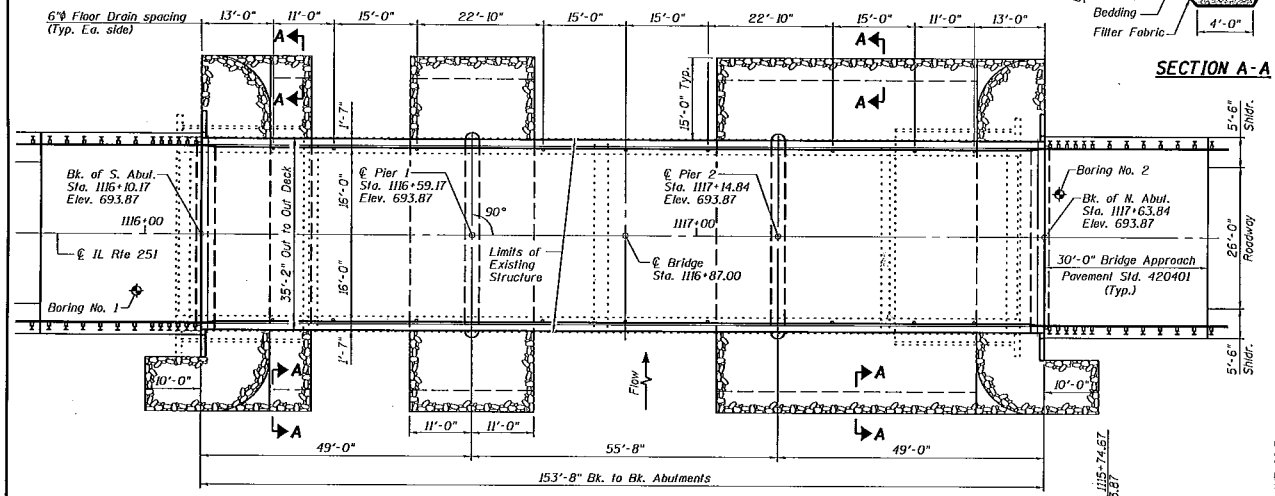


ELEVATION

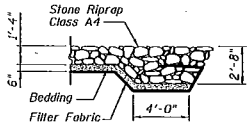
**Design Capacity limited to 50 tons due to scour



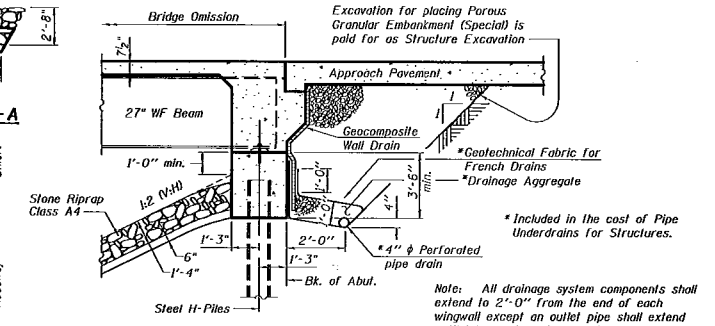
CROSS SECTION



PLAN



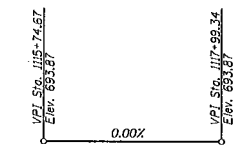
SECTION A-A



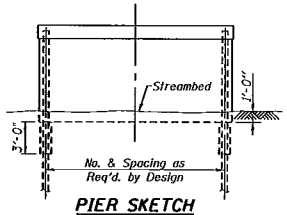
* Included in the cost of Pipe Underdrains for Structures.

SECTION THRU INTEGRAL ABUTMENT

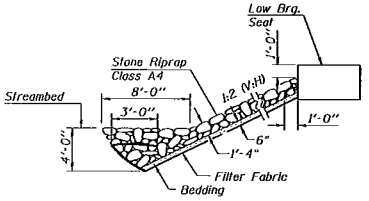
Note: All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



PROFILE GRADE



PIER SKETCH



STONE RIPRAP ANCHOR DETAIL

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft)	S. Abutment	Pier 1	Pier 2	N. Abutment
	687.1	674.1	673.4	687.1

WATERWAY INFORMATION

Drainage Area = 34.46 sq. mi.
Existing Low Grade Elev. 693.75 @ Sta. 1116+00
Proposed Low Grade Elev. 693.87 @ Sta. 1116+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	1777	718	797	687.5	0.2	0.2	687.7	687.7
Design	50	2700	824	921	688.4	0.3	0.3	688.7	688.7
Base	100	3087	860	962	688.7	0.4	0.3	689.1	689.0
Overtopping									
Max. Calc.	500	4007	946	1061	689.4	0.5	0.4	689.9	689.8

HIGHWAY CLASSIFICATION

F.A.S. Rte. 1360 - IL Rte. 251
Functional Class: Major Collector (Rural)
ADT: 1,350 (2003); 1,900 (2023)
Design Speed: 60 m.p.h.
Posted Speed: 55 m.p.h.

LOADING HS20-44

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

DESIGN SPECIFICATIONS

2002 AASHTO

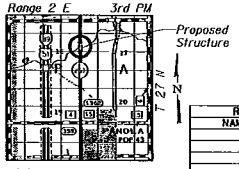
DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)
f_y = 50,000 psi (M270 Gr. 50W)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.043 g
Site Coefficient (S) = 1.2



LOCATION SKETCH

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION

IL RTE 251 OVER PANTHER CREEK
FAS RTE 1360 - SECTION 65-BR
WOODFORD COUNTY
STATION 1116+87.00
S.N. 102-0081

SCALE: VERT. HORIZ.
DATE: 5/31/05

DRAWN BY: LANDREY
DESIGNED BY: SANFORD
CHECKED BY: TRELLO

COMPUTER FILE NO. SN1020081

PROJECT 03236 R06
5/11/06-MML