

Bench Mark: Chiseled "x" N.E. wingwall of abandoned bridge west of I-57 @ approximate Sta. 26+50, Elev. 698.12

Existing Structure: None

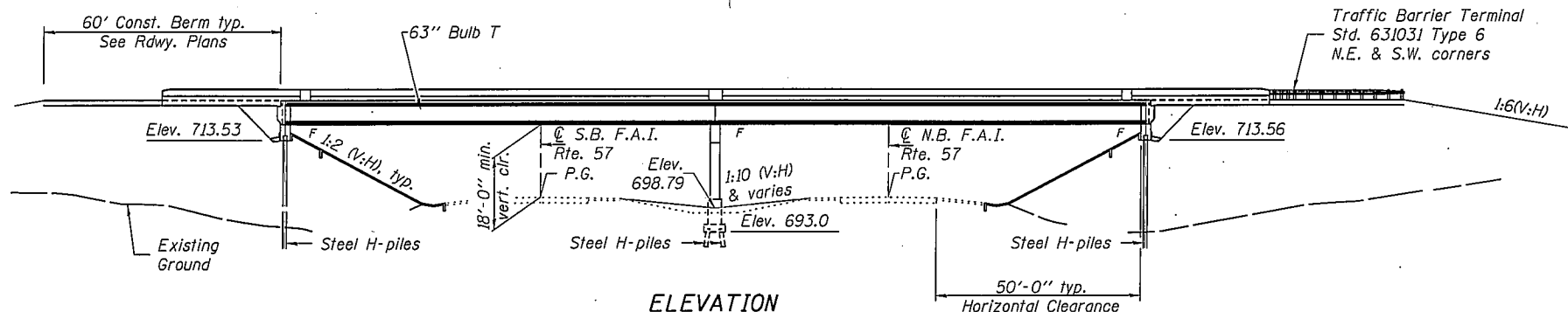
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
F.A.I. 57	10-32HB-3,K	CHAMPAIGN	352	110
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

Contract #90758

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.  
Slope wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.  
The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.  
The Contractor shall drive two (2) HP 12x74 test piles in a permanent location, one at West abut. and one at pier as directed by the Engineer before ordering the remainder of piles.  
All Construction joints shall be bonded.



ELEVATION

INDEX OF SHEETS

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- 2 General Data
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- 14 Framing Plan
- 15-16 63" PPC Bulb T-Beam
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- 18-20 Abutments
- 21-22 Pier
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- 24 Bridge Approach Pavement (Special) Parapet Details
- 25-27 Soil Boring Logs

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		551	551
Structure Excavation	Cu. Yd.		696	696
Driving Steel Piles	Foot		5070	5070
Concrete Structures	Cu. Yd.		367.6	367.6
Concrete Superstructure	Cu. Yd.	785.9		785.9
Bridge Deck Grooving	Sq. Yd.	1662		1662
Protective Coat	Sq. Yd.	2405		2405
Furnishing and Erecting Precast Prestressed Concrete Bulb T-Beams 63"	Foot	3050		3050
Reinforcement Bars, Epoxy Coated	Pound	159250	51780	211030
Slopedwall 4 Inch	Sq. Yd.		928	928
Furnishing Steel Piles HP 12x74	Foot		5070	5070
Test Pile Steel HP 12x74	Each		2	2
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		220	220
Pipe Underdrains for Structures, 4"	Foot		278	278
Conduit Embedded in Structure, 2" φ PVC	Foot		1070	1070
Diamond Grinding (Bridge Section)	Sq. Yd.		2076	2076
Form Liner Textured Surface	Sq. Yd.		169	169
Bar Splicers	Each	180		180

STATION 297+20.45  
BUILT 200 BY  
STATE OF ILLINOIS  
F.A.I. RT. 57 SEC. 10-32HB-3,K  
LOADING HS20-44  
STR. NO. 010-0272

NAME PLATE  
See Std. 515001

LOADING HS20-44  
Allow 50#/sq. ft. for Future Wearing Surface.

DESIGN SPECIFICATIONS  
2002 AASHTO

DESIGN STRESSES

FIELD UNITS

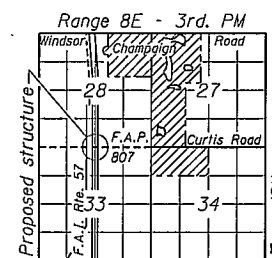
$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$  psi  
 $f'_{ci} = 5,000$  psi  
 $f'_s = 270,000$  psi ( $\frac{1}{2}$ "  $\phi$  low lax. strands)  
 $f_{si} = 201,960$  psi ( $\frac{1}{2}$ "  $\phi$  low lax strands)

SEISMIC DATA

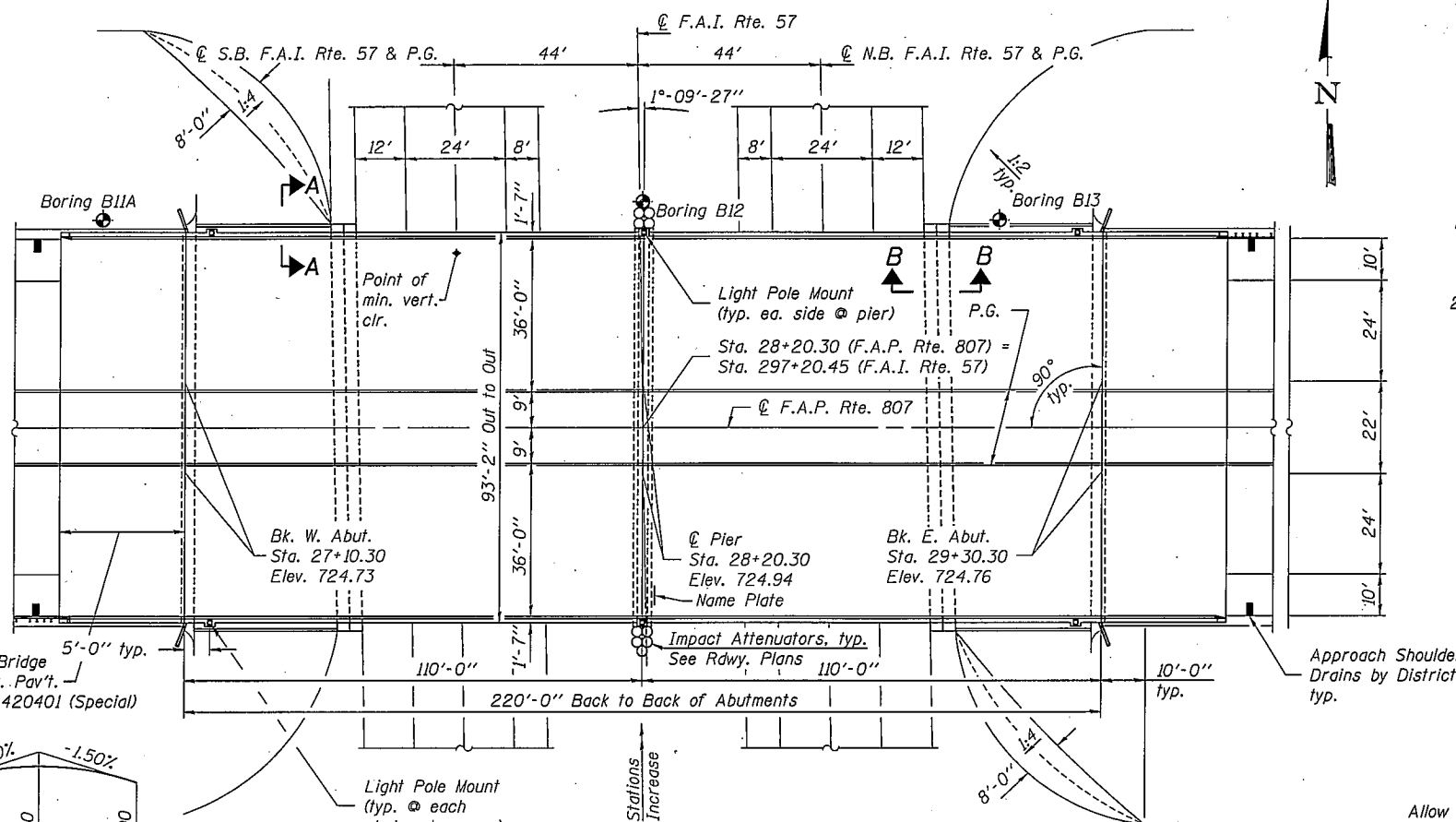
Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = 4.8%  
Site Coefficient (S) = 1.2



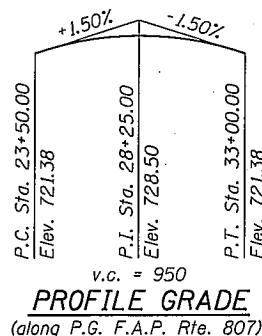
LOCATION SKETCH

GENERAL PLAN & ELEVATION  
CURTIS ROAD (F.A.P. ROUTE 807)  
OVER I-57

F.A.I. ROUTE 57 SEC. 10-32HB-3,K  
CHAMPAIGN COUNTY  
STATION 297+20.45  
STRUCTURE NO. 010-0272



PLAN



PROFILE GRADE  
(along P.G. F.A.P. Rte. 807)

Notes:

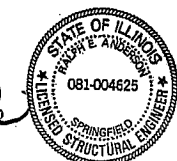
For Sections A-A and B-B, see sheet 2 of 27.  
The profile grade shows the final elevations after grinding.  
Up to  $\frac{1}{4}$ " will be ground off the bridge slab and approach pavement.

Sta. 294+00	Elev. 699.58(NB)	699.67(SB)
Sta. 295+00	Elev. 699.55(NB)	699.66(SB)
Sta. 296+00	Elev. 699.80(NB)	699.91(SB)
Sta. 297+00	Elev. 700.07(NB)	700.13(SB)
Sta. 298+00	Elev. 700.29(NB)	700.34(SB)
Sta. 299+00	Elev. 700.49(NB)	700.53(SB)
Sta. 300+00	Elev. 700.69(NB)	700.72(SB)

PROFILE GRADE  
(along  $\phi$  Rdwy. F.A.I. Rte. 57)

DESIGNED	<i>R. R. Schuch</i>
CHECKED	<i>Richard J. Hays</i>
DRAWN	W.D.C. / M.B.M.
CHECKED	<i>SPR/RZ7</i>

April 28, 2006  
EXAMINED *Thomas J. Dwyer*  
PASSED *Ralph J. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES



EXPIRES 11-30-2006