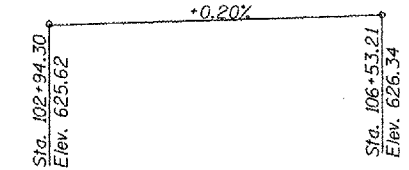
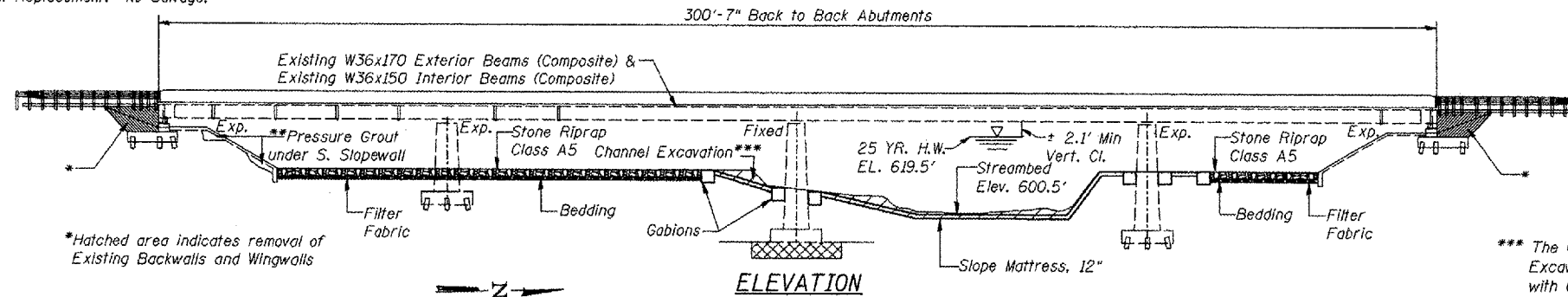


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
220	*	Mercer	50	13
FED. ROAD DIST. NO. 7				ILLINOIS PROJECT
* (23-BR) I				

BENCHMARK
Chiseled "C" on S.E. Corner of Bridge On Abutment Wall, Elev. 626.35

EXISTING STRUCTURE DESCRIPTION
NO. 066-0008
A 4 Span (66'-0", 82'-6", 82'-6", 66'-0") Steel Girder Structure on Spill-Thru Concrete Abutments And Reinforced Concrete Piers At Sta. 104+73.75. Skew 0°. To Be Rehabilitated. Traffic Shall Be Maintained By Stage Construction. New Deck Replacement. No Salvage.



PROFILE GRADE
(ALONG ROADWAY)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Concrete Deck	Each	1		1
Bridge Deck Grooving	Sq. Yd.	996		996
Concrete Superstructure	Cu. Yd.	343.6		343.6
Concrete Structures	Cu. Yd.		12.8	12.8
Reinforcement Bars, Epoxy Coated	Pound	84,450	2220	86,670
Protective Coat	Sq. Yd.	1357		1357
Name Plates	Each	1		1
Floor Drains	Each	30		30
Drainage Scuppers, DS-12	Each	6		6
Jack and Remove Existing Bearings	Each	12		12
Bar Splicers	Each	902		902
Structure Excavation	Cu. Yd.		373	373
Concrete Removal	Cu. Yd.		25.2	25.2
Porous Granular Embankment (Special)	Cu. Yd.		191	191
Elastomeric Bearing Assembly, Type II	Each	12		12
Slopewall Removal	Sq. Yd.		48.9	48.9
Slopewall 6"	Sq. Yd.		48.9	48.9
Temporary Sheet Piling	Sq. Ft.		498	498
Stud Shear Connectors	Each	3744		3744
Furnishing and Erecting Structural Steel	Pound	4166		4166
Pipe Underdrains For Structures 4"	Ft	110		110
Blasting Residue Containment and Disposal	L. Sum	+		+
Power Tool Cleaning Residue Containment and Disposal	L. Sum	+		+
Stone Riprap, Class A5	Ton		1666	1666
Filter Fabric	Sq. Yd.		2794	2794
Gabions	Cu. Yd.		421	421
Slope Mattress, 12"	Sq. Yd.		790	790
Sub-Base Granular Material, Type C	Ton		392	392

* See Special Provisions

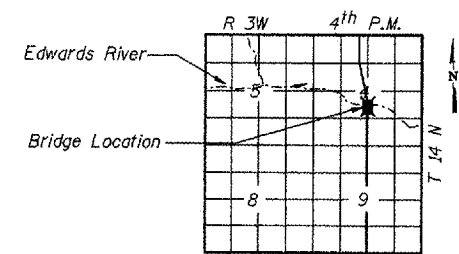
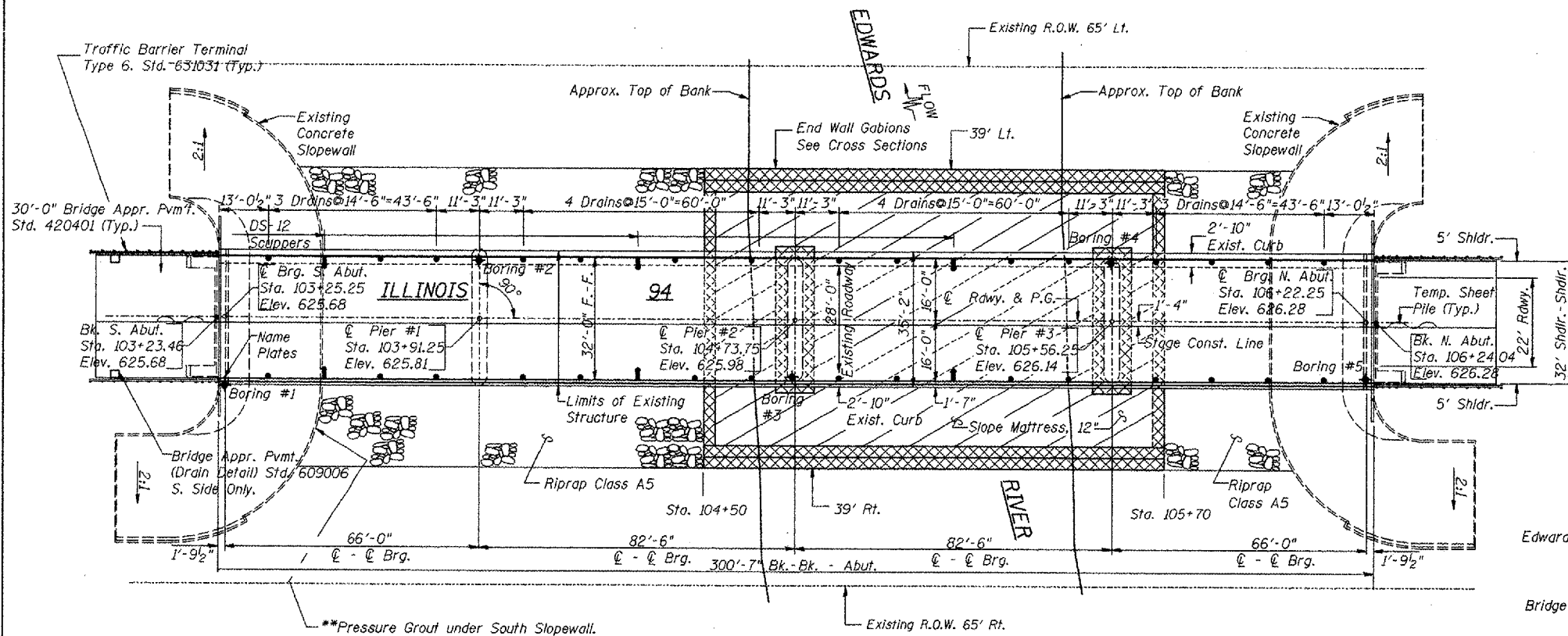
DESIGN SPECIFICATIONS
1996 AASHTO & 1997, 1998, & 1999 Interims.

DESIGN LOADING
HS 20-44 and Allowance for 50 P.S.F. Future Wearing Surface

DESIGN STRESSES
f_c' = 3,500 psi (Concrete)
f_y = 60,000 psi (Prop. Reinforcement)
f_y = 36,000 psi M270 GR 36 (New Structural Steel)
f_y = 33,000 psi (Existing Structural Steel)
f_y = 40,000 psi (Existing Reinforcement)

SEISMIC DATA
S.P.C. A
A = 0.03
S = L0

GENERAL PLAN AND ELEVATION
F.A.S. ROUTE 220 (IL ROUTE 94)
OVER EDWARDS RIVER
SECTION (23-BR) I
MERCER COUNTY
STRUCTURE NO. 066-0008
STATION 104+73.75



LOCATION SKETCH

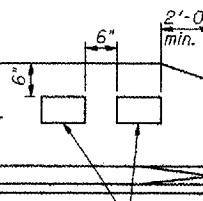
WATERWAY INFORMATION (From Existing Plans)

Drainage Area.....216,300 Acres
Character.....Rolling Hilly & Cult.
Required Opening (25 yr.)...2,650 Sq. Ft.
Proposed Opening.....2,660 Sq. Ft.
Ordinary Water Elev.607.5 +/-
Low Water Elev.602.0 +/-

STATION 104+73.75
REBUILT 200 BY
STATE OF ILLINOIS
F.A.S. RTE. 220 SEC. (23-BR) I
LOADING HS20-44
STR. NO. 066-0008

NAME PLATE
See Std. 515001

Remove, clean and reinstall existing name plate adjacent to new name plate. Cost included with Name Plates.



NAME PLATE
(Elevation View)

Name Plates to be located at South End of East Parapet

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Keith E. Brandau
ENGINEER OF BRIDGES AND STRUCTURES



KEITH E. BRANDAU
Illinois Licensed Structural Engineer Number 4905
License Expires 11/30/04

DESIGNED	K.E. Brandau
CHECKED	R.T. Mumm
DRAWN	L.A. Rolf
CHECKED	K.E. Brandau

FRAUENHOFFER & ASSOCIATES, P.C.