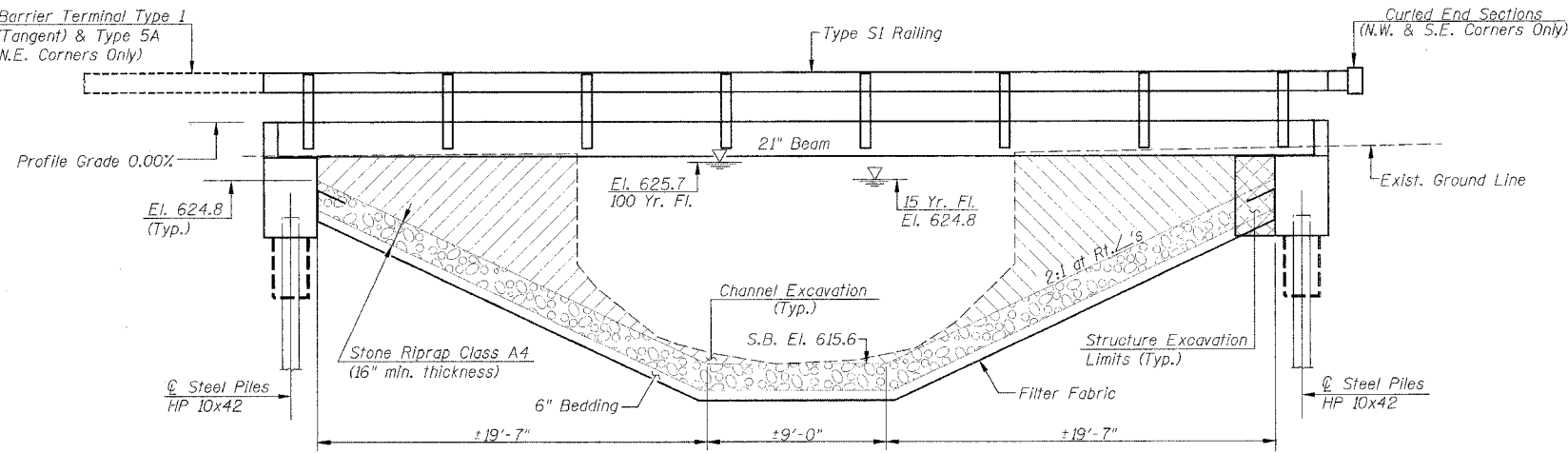


T.R. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335A	06-15129-00-BR	SHELBY	11	4
STA. 20+00		TO STA. 25+00		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

Existing Structure: Single Span Timber Deck Bridge on Steel Stringers
Supported by Timber Abutments Founded on Timber
Piling, ±24'-0" Bk.-Bk. Abutments, ±18'-9" Clear Deck Width.
Benchmarks: BM#1 - PK Nail in West Most Pile
of N.E. Wingwall El. 626.00 (Assumed)

Traffic Barrier Terminal Type 1
Special (Tangent) & Type 5A
(S.W. & N.E. Corners Only)



ELEVATION
(Looking Downstream)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			214
Stone Riprap, Class A4	Ton			305
Filter Fabric	Sq. Yd.			435
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.			85
Concrete Structures	Cu. Yd.	27.8		27.8
Concrete Encasement	Cu. Yd.	2.8		2.8
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	1250		1250
Reinforcement Bars	Pound	2745		2745
Steel Railing Type S1	Foot	107		107
Furnishing Steel Piles HP 10x42	Foot	189		189
Driving Piles	Foot	189		189
Test Pile Steel HP 10x42	Each	1		1
Name Plates	Each	1		1

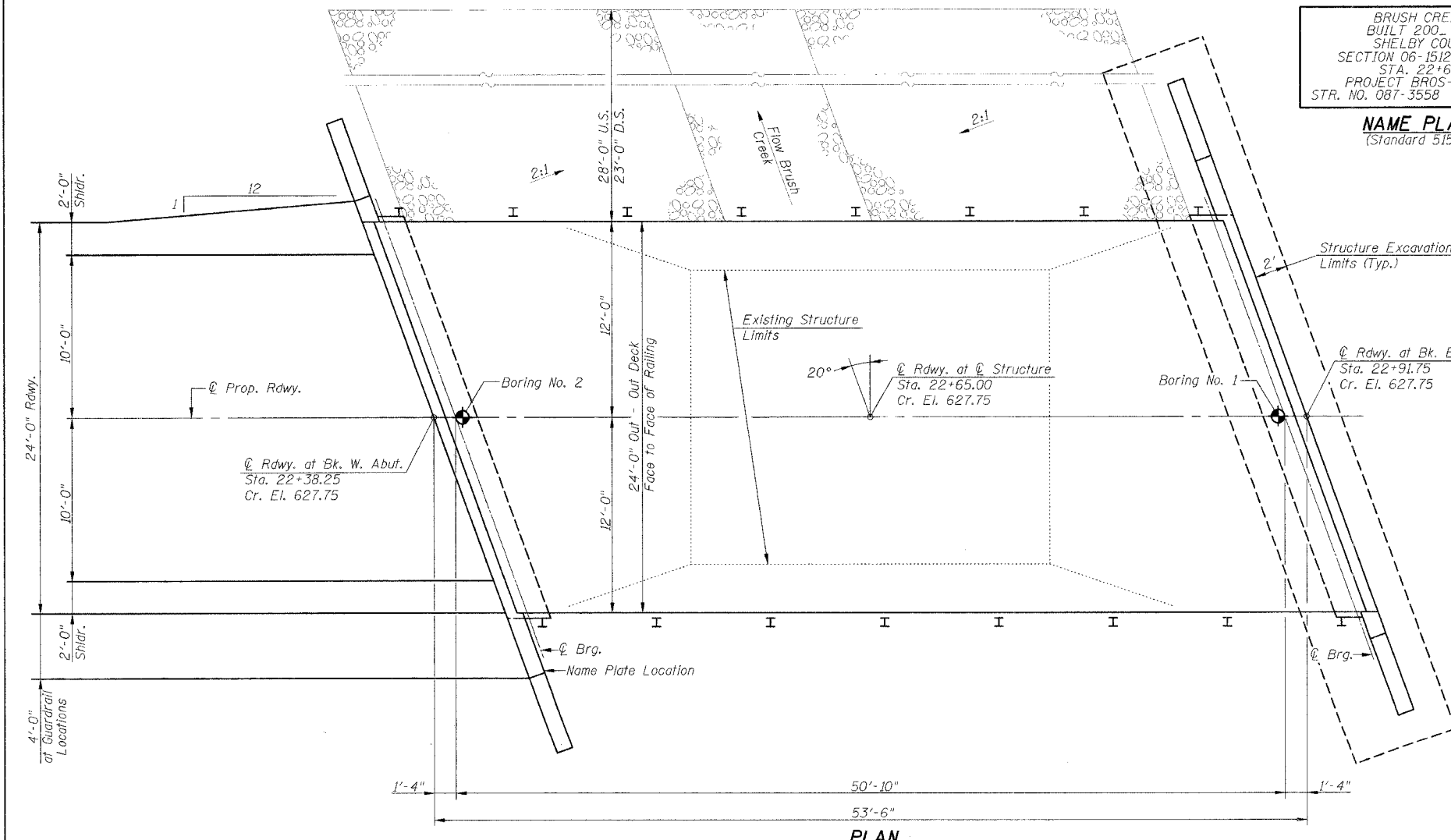
WATERWAY INFORMATION

Drainage Area = 4.24 Sq. Mi. Low Grade Elev. = 624.60 @ Sta. 20+00

Flood	Freq. Yr.	Q	Opening Sq. Ft.		Head - ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	15	1059	147	247	624.8	0.8	0.2	625.6	625.0
Base	100	1806	147	288	625.7	1.3	0.7	627.0	626.4
Exist. Overtop.	10	990							
Prop. Overtop.	12	1025							
Max. Calc.	500	2454	147	313	626.2	1.1	1.3	627.3	627.5

BRUSH CREEK
BUILT 200 BY
SHELBY COUNTY
SECTION 06-15129-00-BR
STA. 22+65.00
PROJECT BROS-173(152)
STR. NO. 087-3558 LOADING HS20

NAME PLATE
(Standard 515001)



PLAN

DESIGN STRESSES

FIELD UNITS

$f_c = 1400$ psi
 $f_s = 24000$ psi

PRECAST PRESTRESSED UNITS

$f'_c = 5000$ psi
 $f'_{ci} = 4000$ psi
 $f'_s = 270000$ psi
 $f'_{si} = 201960$ psi

GENERAL NOTES

See Proposal for Boring Data.
Reinforcement bars shall conform to the requirements of ASTM A706, Grade 60 (IL Modified). See Special Provisions.
The layout of the riprap slopewall may be varied to suit conditions in the field as determined by the Engineer.
The contractor shall drive one test pile in a permanent location at the East Abutment as directed by the Engineer in the field prior to ordering the remainder of piles.

DESIGN SPECIFICATIONS

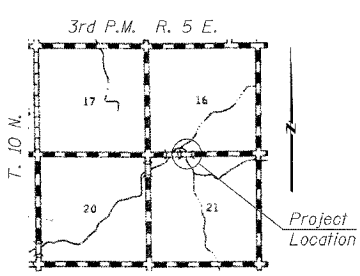
2002 AASHTO Standard Specifications.

LOADING HS 20-44

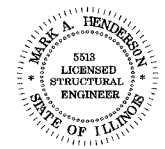
Allow 25#/sq. ft. for future wearing surface.

I certify that to the best of my knowledge, information and belief, this bridge is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "A.A.S.H.T.O. Standard Specifications For Highway Bridges".

Mark A. Henderson 5/24/07
Expiration Date 11/30/2008



LOCATION MAP



PLAT DATE = #DATES
FILE NAME = #FILES