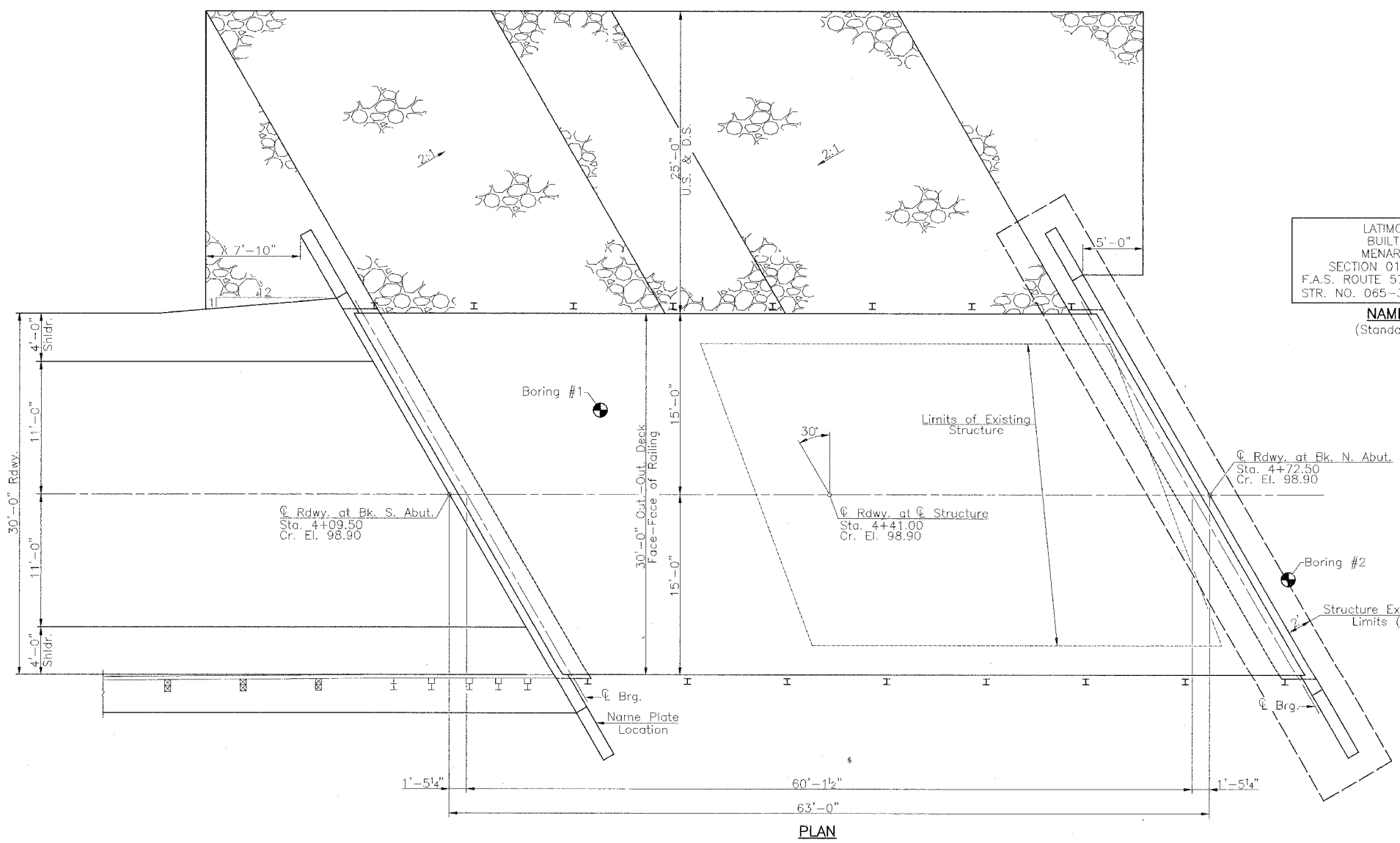
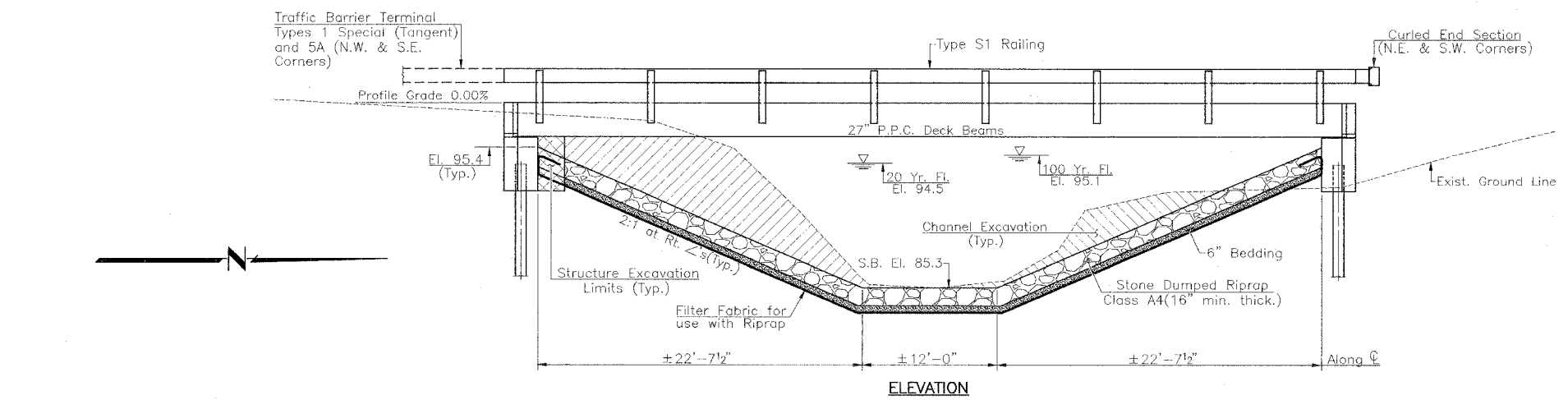


RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 7	*	MENARD	9	4
PROJECT				

\* 01-00050-00-BR

Existing Structure: Single span cast in place concrete deck on steel I-Beams supported by timber abutments on timber piling. ±35'-6" Bk.-Bk. Abutments, ±24'-0" clear deck width, steel channel railing. 20' skew Rt. Forward.  
 Existing Structure No. 065-3006  
 Salvage: To County  
 Existing Structure Estimated Quantities: Concrete 23.0 - Cu. Yds.  
 Structural Steel - 21000 Pounds

Benchmarks: BM#1 - 60d Nail & Washer in Power Pole  
 35' Rt. Sta. 2+40 El. 100.00(Assumed)



**TOTAL BILL OF MATERIAL**

Item	Super	Sub	Total
Channel Excavation			197
Stone Dumped Riprap, Class A4			396
Filter Fabric			665
Removal of Existing Structures			1
Structure Excavation			82
Concrete Structures		37.6	37.6
Precast Prestressed Concrete Deck Beams (27" Depth)	1844		1844
Reinforcement Bars		3645	3645
Steel Railing Type S1	126		126
Furnishing Metal Pile Shells 12"		789	789
Driving and Filling Shells		789	789
Test Pile, Metal Shells		1	1
Name Plates	1		1

**WATERWAY INFORMATION**

Drainage Area = 2.16 Sq. Miles Low Grade Elev. = 98.90 @ Sta. 4+41

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head-Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	20	714	139	251	94.5	0.0	0.0	94.5	94.5
Base	100	1095	157	279	95.1	0.6	0.0	95.7	95.1
Exist. Overtop	Greater than 500 Years								
Prop. Overtop	Greater than 500 Years								
Max. Calc.	500	1481	169	302	95.5	1.5	0.3	97.0	95.8

**DESIGN STRESSES**

**FIELD UNITS**

**PRECAST PRESTRESSED UNITS**

f<sub>c</sub> = 1400 psi  
 v<sub>c</sub> = 56.2 psi  
 f<sub>s</sub> = 24000 psi  
 n = 9

f'<sub>c</sub> = 5000 psi  
 f'<sub>ci</sub> = 4000 psi  
 f'<sub>s</sub> = 270000 psi  
 1/2" Strands f'<sub>si</sub> = 189000 psi

**GENERAL NOTES**

See Proposal for Boring Data.  
 Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31, M-42, or M-53, Grade 60.  
 The layout of the riprap slopedwall 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 South abutment as directed by the Engineer in the field prior to ordering the remainder of piles.

**DESIGN SPECIFICATIONS**

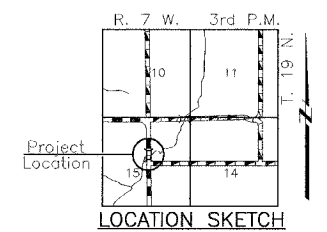
2002 A.A.S.H.T.O. Specifications and 2003 Interim Specifications.

**LOADING HS 20-44**

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

LATIMORE CREEK  
 BUILT 200 BY  
 MENARD COUNTY  
 SECTION 01-00050-00-BR  
 F.A.S. ROUTE 575 -- STA. 4+41.00  
 STR. NO. 065-3111 LOADING HS20

**NAME PLATE**  
 (Standard 515001)



*Allen Henderson* 2/1/05  
 Expiration Date 11/30/2006

**GENERAL PLAN & ELEVATION**  
 F.A.S. 575 - C.H. 7  
 (N. PETERSBURG ROAD)  
 OVER LATIMORE CREEK  
 SECTION 01-00050-00-BR  
 MENARD COUNTY