PROJECT REFERENCE NO.	SHEET NO.
R-3622B	EC-15/CONST-4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

V&M
Vaughn & Melton
Consulting Engineers
Asheville, North Carolina 828-253-2796
Charlotte, North Carolina 704-357-0488
Tri-Cities, Tennessee 423-467-8401
Knoxville, Tennessee 865-546-5800
Middlesboro, Kentucky 606-248-6600
Spartanburg, South Carolina 864-574-4775

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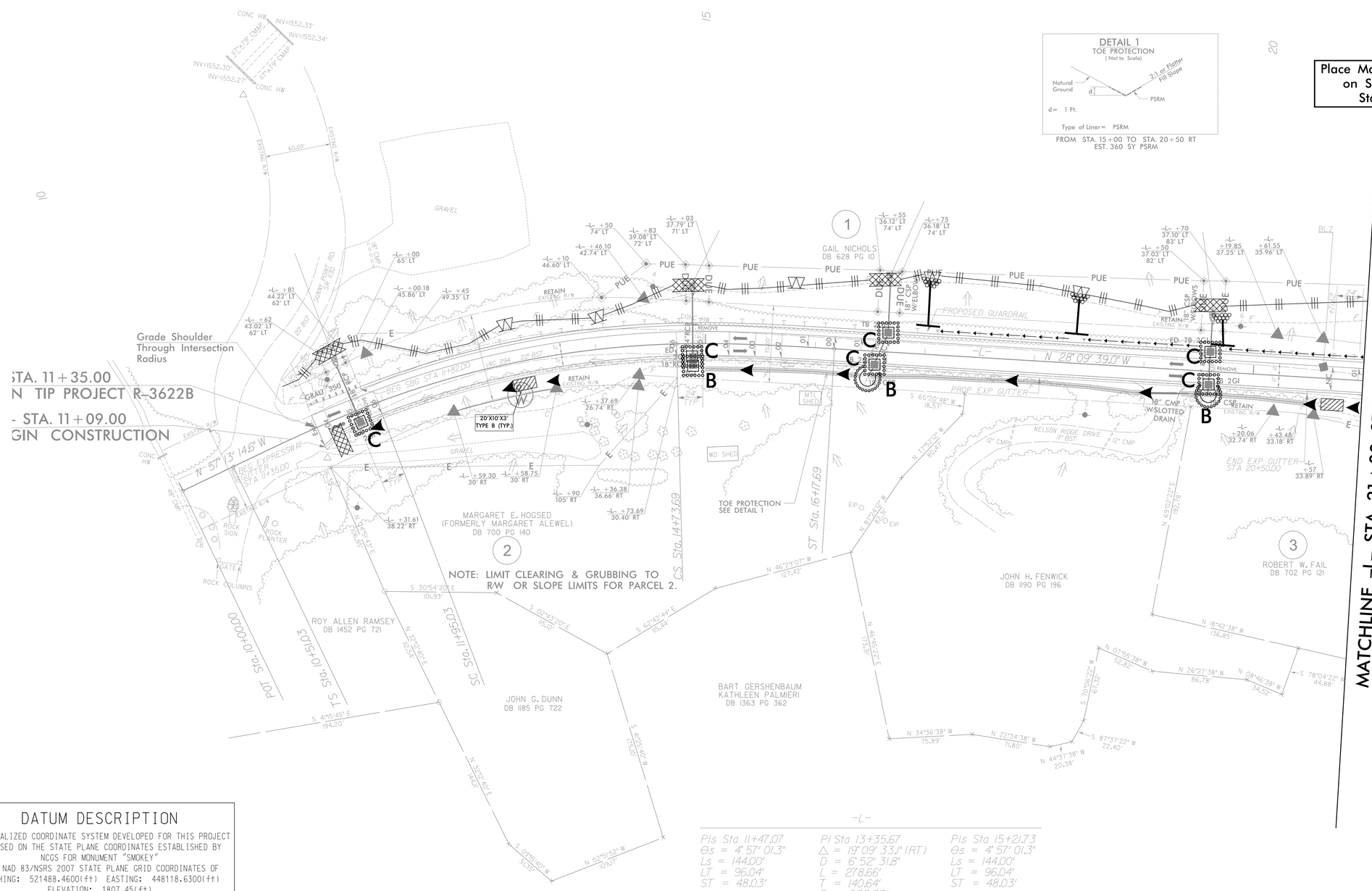
NAD 83/ NSRS 2007

DETAIL 1
TOE PROTECTION
(Not to Scale)

d = 1 Ft.
Type of Liner = PSRM

FROM STA. 15+00 TO STA. 20+50 RT
EST. 360 SY PSRM

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 11+50 – 21+00



NOTE: LIMIT CLEARING & GRUBBING TO R/W OR SLOPE LIMITS FOR PARCEL 2.

-L-

PIs Sta 11+47.07	PI Sta 13+35.67	PIs Sta 15+21.73
θs = 4° 57' 01.3"	Δ = 19° 09' 33.1" (RT)	θs = 4° 57' 01.3"
Ls = 144.00'	D = 6° 52' 31.8"	Ls = 144.00'
LT = 96.04'	L = 278.66'	LT = 96.04'
ST = 48.03'	T = 140.64'	ST = 48.03'
	R = 833.33'	

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "SMOKEY"
WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF
NORTHING: 521488.4600(ft) EASTING: 448118.6300(ft)
ELEVATION: 1807.45(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99979974
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "SMOKEY" TO -L- STATION 10+00.00 IS
S 20°05'53" E 5725.99'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

SEE SHEET 13 FOR -L- PROFILE

REVISIONS
1. ADDED PUE (3-14-2013)
8/17/99