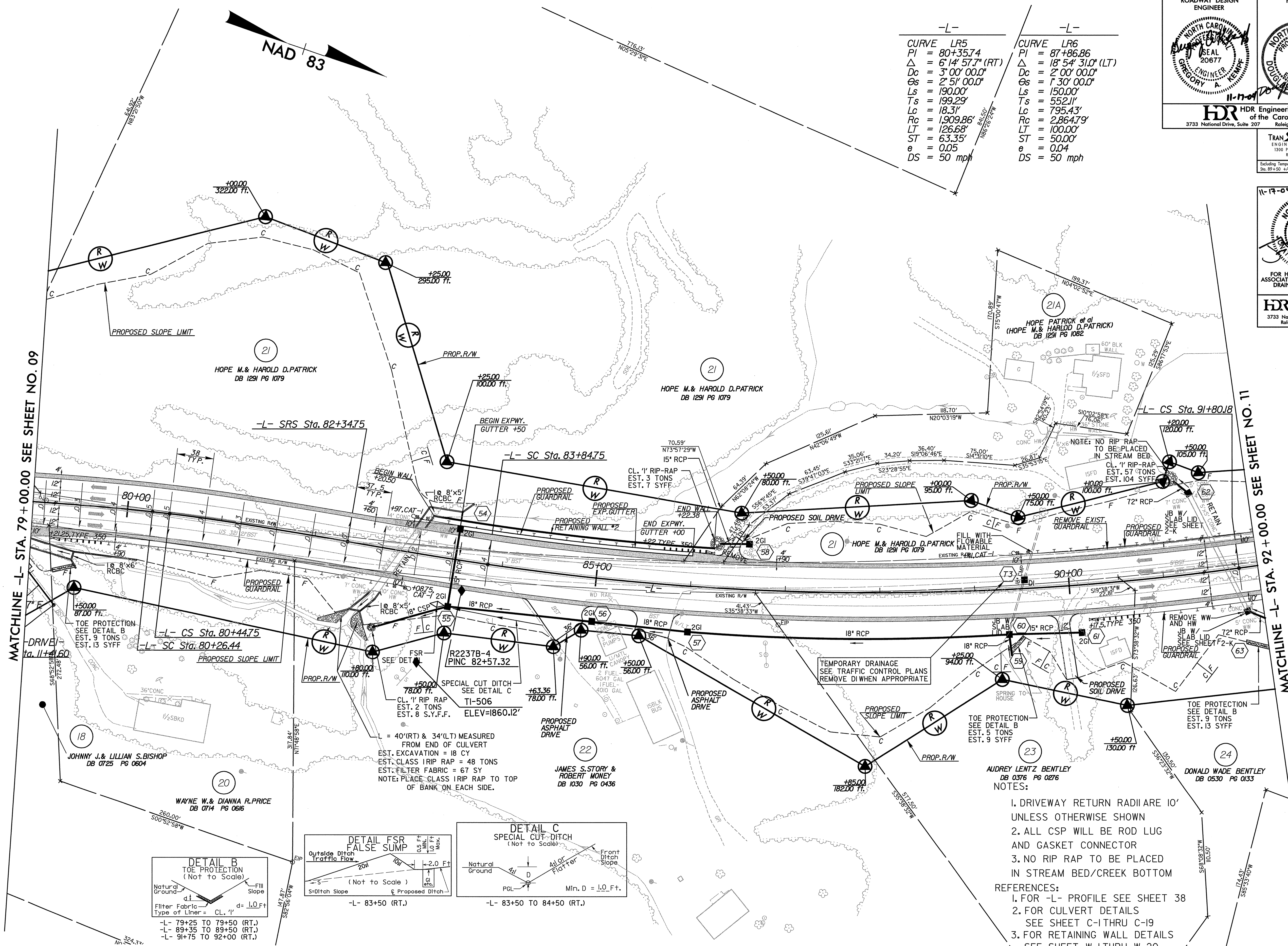


TRAN SITE CONSULTING
ENGINEERS, INCORPORATED
1300 Piedmont Drive, Suite G-10
Raleigh, N.C. 27609
Excluding Temporary Drainage Structure Number T3
Sta. 89+50 thru 91+00

11-17-04

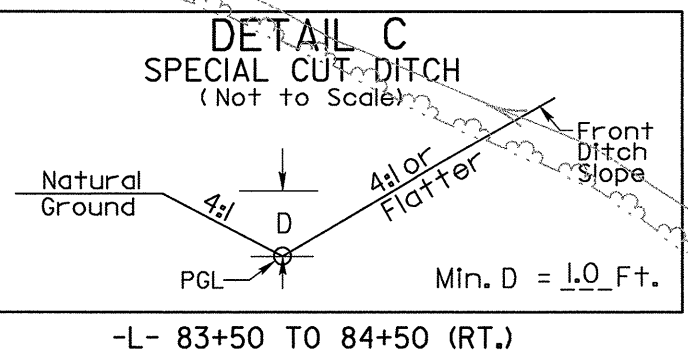
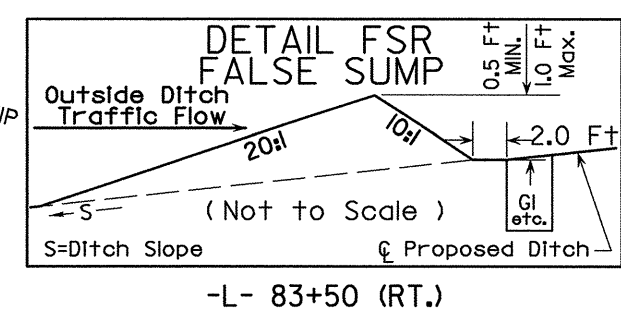
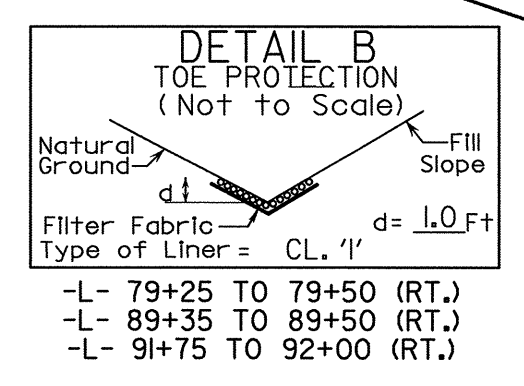
ENGINEER
WILLIAM R. HENDERSON
FOR HYDRAULIC DESIGN
ASSOCIATED WITH TEMPORARY
DRAINAGE STRUCTURE
NUMBER T3
HDR Engineering, Inc.
of the Carolinas
3733 National Drive, Suite 207
Raleigh, N.C. 27612

-L-		-L-	
CURVE	LR5	CURVE	LR6
PI	= 80+35.74	PI	= 87+86.86
Δ	= 6° 14' 57.7" (RT)	Δ	= 18° 54' 31.0" (LT)
Dc	= 3' 00' 00.0"	Dc	= 2' 00' 00.0"
Es	= 2' 51' 00.0"	Es	= 1' 30' 00.0"
Ls	= 190.00'	Ls	= 150.00'
Ts	= 199.29'	Ts	= 552.11'
Lc	= 18.31'	Lc	= 795.43'
Rc	= 1,909.86'	Rc	= 2,864.79'
LT	= 126.68'	LT	= 100.00'
ST	= 63.35'	ST	= 50.00'
e	= 0.05	e	= 0.04
DS	= 50 mph	DS	= 50 mph



MATCHLINE -L- STA. 79 + 00.00 SEE SHEET NO. 09

MATCHLINE -L- STA. 92 + 00.00 SEE SHEET NO. 11



- NOTES:
1. DRIVEWAY RETURN RADI ARE 10' UNLESS OTHERWISE SHOWN
 2. ALL CSP WILL BE ROD LUG AND GASKET CONNECTOR
 3. NO RIP RAP TO BE PLACED IN STREAM BED/CREEK BOTTOM
- REFERENCES:
1. FOR -L- PROFILE SEE SHEET 38
 2. FOR CULVERT DETAILS SEE SHEET C-I THRU C-19
 3. FOR RETAINING WALL DETAILS SEE SHEET W-I THRU W-20

REVISIONS

11/16/2004 12:05:20 PM C:\p2237b\Drawings\Roadway\Sheet10.dwg