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8/17/99

ICA Engineering
5121 Kingdom Way, Suite 100
Raleigh, NC 27607
NC License No: F-0258

PROJECT REFERENCE NO.	SHEET NO.
R-5311A	5
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 032074 ENGINEER DENA C. SNEAD
DocuSigned by: Dena C. Snead 5/10/2017

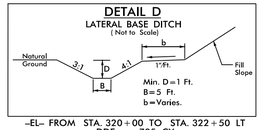
HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 034364 ENGINEER TRENTON J. CORMIER
DocuSigned by: Trenton J. Cormier 5/10/2017

2A683B

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

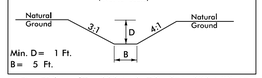
NAD 83/NSRS 2007

DETAIL D
LATERAL BASE DITCH
(Not to Scale)



–EL– FROM STA. 320+00 TO STA. 322+50 LT
DDE = 785 CY

DETAIL E
TAIL DITCH
(Not to Scale)



–EL– FROM STA. 322+50 TO STA. 323+09 LT
DDE = 45 CY, SLOPE 0.99%

–EL–		
PIs Sta 331+87.41	PI Sta 338+07.68	PIs Sta 344+27.08
Θs = 0° 30' 00.0"	Δ = 5° 31' 54.0" (RT)	Θs = 0° 30' 00.0"
Ls = 200.00'	D = 0° 30' 00.0"	Ls = 200.00'
LT = 133.33'	L = 1,106.33'	LT = 133.33'
ST = 66.67'	T = 553.60'	ST = 66.67'
	R = 11,459.16'	

6
TIMBERVEST PARTNERS II
NORTH CAROLINA, LLC

RACHAEL MODLIN

DELANO R. LANG, JR.
2

REPLACE EXISTING WOVEN WIRE FENCE AT LOCATIONS DEEMED APPROPRIATE BY THE ENGINEER.

MATCHLINE –EL– STA 320+00
SEE SHEET 4

S 29°54'10" E
568.31'
108.45
201.36'
61'M
485.00
346.30'
RUINS
EXISTING R/W
TAIL DITCH
SEE DETAIL E
LATERAL 5' BASE DITCH
SEE DETAIL D
CL B RIP RAP PAD
EST. 5 TONS
EST. 14 SY GEOTEXTILE
TIE TO EXISTING DITCH
WOODS
WLB
105+00
–L– FUTURE FREEWAY
110+00
–L– PC Sta. 110+70.96
ECM 330+54.08 –EL– 180.00'
330+54.17 –EL– 179.84' (MON)
SOIL DRIVE
30" RCP
RETAIN
4' PS
12' EXST.
–EL–
N 38° 18' 17.1" E
NC HWY 11 – 32' BST
325+00
330+00
–L– 23
–L– 24
TBM-3
OVERLAY EXISTING ROAD
–EL– STA 310+00.00 TO 355+00.00
400.00'
–EL– TS Sta. 330+54.08
–EL– SC Sta. 332+54.08
MATCHLINE –EL– STA 334+00
SEE SHEET 6
115+00
4
DELANO R. LANG, JR.
N 29°54'10" W
321.08'
108.45
201.36'
RETAIN
30" RCP
ECM 330+54.60 –EL– 220.60'
330+53.60 –EL– 220.22' (MON)

RACHAEL MODLIN

FOR –EL– PROFILE, SEE SHEET 12 & 13

5/1/2017
11:43:08 AM
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PSHEET1 NO.