8/17/99

REVISIONS

NOTES: ***ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.***

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

50′ 0′ 50′

ENGLISH

-L-	-DRIVE 10-
PI Sta 135+01.19	PI Sta 10+74.90
△ = 67° 16′ 10.3" (LT)	△ = 6° 35′ 21.5" (RT)
D = 5° 58′ 05.9"	D = 229° 10′ 59.2"
L = 11.27.11′	L = 2.88′
T = 638.66′	T = 1.44′
R = 960.00′	R = 25.00′
R.O. = 220′	
SE = 0.08	

MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER : P-0671

PROJECT REFERENCE NO.	SHEET NO.
W-5512	EC-25/CONST.12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE -L- STA 129+00 SEE SHEET 11

MATCH LINE -L- STA 141+50 SEE SHEET 13

NAD 83

NC GRID

NAVD 83/NAVD 88

130

135

140

14 KENNETH W TEW
DB 7957 PG 816
PB 86 PG 200

15 MICHEAL T REISINGER
DB 5708 PG 339
PB 86 PG 200

11 TEW FAMILY LLC
DB 8414 PG 314

12 DOUGLAS R & WIFE DEBRA WARD
DB 2929 PG 155

13 CUMBERLAND COUNTY
DB 2927 PG 153
PB 53 PG 69

GERALD T TODARO
DB 3545 PG 421
PB 60 PG 4

BILLY RAY COLGAN
DB 8754 PG 514
PB 89 PG 86

ROBERT CARLISLE GOODWIN
DB 4414 PG 682
PB 89 PG 86

-DRIVE 9- POT Sta.10+23.12
BEGIN CONSTRUCTION

POT Sta. 10+00.00

PC Sta. 10+73.46

PT Sta. 10+76.34

-DRIVE 8- POT Sta.10+21.89
END CONSTRUCTION
POT Sta. 10+31.45

-L- POC Sta.138+42.45 =
-DRIVE 8- POT Sta.10+00.00

-L- POC Sta.139+88.01 =
-DRIVE 9- POT Sta. 11+12.63

PT EQUATION:
Sta 139+28.64 BK =
Sta 139+52.08 AH

DETAIL AA
PROPOSED SPECIAL CUT DITCH

DETAIL A
PROPOSED SPECIAL CUT DITCH

DETAIL F
PROPOSED SPECIAL LATERAL V DITCH

DETAIL G
RIP RAP AT PIPE OUTLET

DETAIL F
PROPOSED SPECIAL LATERAL 'V' DITCH

DETAIL K
PROPOSED SPECIAL LATERAL 'V' DITCH

TIE EXISTING DITCH TO PROPOSED DITCH

TIE PROPOSED DITCH TO EXISTING DITCH

GRADE TO DRAIN

RETAIN

REMOVE

REMOVE EXIST. 15" RCP

S 66° 45′ 00.3" E

S 16° 26′ 52.8" E

67° 39′ 53.3" E

GRAU-350

GRAU-450

INV = 82.00

INV = 80.28

75"X67" CSAP BURIED 1' AT INLET

+64 -L- 80' LT & EX. R/W

+33.81 -L- 50' LT & EX. R/W

+04.00 -L- 75' LT & EX. R/W

+59.36 -L- EX. R/W

+75.00 -L- 52.41' RT

+41.23 -L- 50' RT

+69.57 -L- 50' RT

+00.00 -L- 65' RT

+52.08 -L- 50' RT

+52.08 -L- 65' RT

+35.00 -L- 56.22' RT

+35.78 -L-

27.5' INC.

DETAIL AA
SPECIAL CUT DITCH
(Not to Scale)

Natural Ground | 2:1 | D | 3:1 or Flatter | Front Ditch Slope

Min. D = 1.0 Ft.

FROM STA. 128+00 TO STA. 129+74 -L- LT
FROM STA. 130+35 TO STA. 132+00 -L- LT

DETAIL A
SPECIAL CUT DITCH
(Not to Scale)

Natural Ground | 3:1 | D | 3:1 or Flatter | Front Ditch Slope

Min. D = 1.0 Ft.

FROM STA. 132+50 TO STA. 134+00 -L- LT

DETAIL I
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

Natural Ground | 3:1 | D | 3:1 or Flatter | Fill Slope

Min. D = 1.5 Ft.

FROM STA. 127+20 TO STA. 129+50 -L- RT

DETAIL F
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

Natural Ground | 3:1 | D | 3:1 or Flatter | Fill Slope

Min. D = 1.0 Ft.

FROM STA. 135+00 TO STA. 135+50 -L- LT

DETAIL G
PIPE OUTLET CHANNEL
(Not to Scale)

Natural Ground | min. 3:1 to fit Existing Slope | min. 2:1 to 1:1 Match Existing Slope | d | CHANNEL BED (Variable)

Length = 10 Ft.
d = 3 Ft.
Est. = 11 Tons of Class I Rip-Rap, 18 S.Y. GEOTEXTILE

STA. 136+13 -L- LT
DDE = 8 C.Y.

DETAIL K
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

Natural Ground | 2:1 | D | 3:1 or Flatter | Fill Slope

Min. D = 1.0 Ft.

FROM STA. 138+00 TO STA. 141+50 -L- RT

NOTE:
SEE SHEET 20 FOR -L- PROFILE
SEE SHEET 25 FOR -DRIVE 8- & -DRIVE 9- PROFILE

USER NAME = DESIGN
PLOT SCALE = 50.0000 '/ IN.
PLOT TIME = 8:55:00 AM