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8/17/99

REVISIONS

PLANS PREPARED BY :
PARSONS
5540 CENTERVIEW DR., SUITE 217
RALEIGH, NORTH CAROLINA 27606
NC LICENSE NO: F-0246
FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

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	12
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 37874 ENGINEER TIMOTHY D. GRIMES
Docusigned by: Jim D. Grimes, PE
ACB0C8B8B0A14EB...
3/26/2015

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 038683 ENGINEER MELANIE CHI NGUYEN
Docusigned by: Melanie Nguyen
C9130A7A0B8F4E7...
3/26/2015

-L-
PI Sta 135+01.19
△ = 67° 16' 10.3" (LT)
D = 5° 58' 05.9"
L = 1127.11'
T = 638.66'
R = 960.00'
R.O. = 220'
SE = 0.08

-DRIVE 10-
PI Sta 10+74.90
△ = 6° 35' 21.5" (RT)
D = 229° 10' 59.2"
L = 2.88'
T = 1.44'
R = 25.00'

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

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

NAD 83

130

135

140

S 80°34'18" W 265.16'
S 48°23'16" W 282.39'
S 81°42'05" E 51.15'
S 73°06'05" E 74.50'
N 59°33'46" W 50.66'
N 55°26'27" W 55.17'
N 65°58'35" W 32.34'
N 55°00'56" W 57.92'
N 51°08'59" W 64.69'
N 47°30'23" W 155.00'
N 09°23'23" W 563.65'
N 09°25'42" W 163.30'
N 67°12'13" E 185.22'
N 67°02'21" E 93.46'
N 79°40'04" E 104.80'
N 84°53'09" E 115.59'
N 09°33'26" W 115.44'
S 16° 26' 52.8" E
W 67° 39' 53.3" E

GERALD T TODARO

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

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

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

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

EQUATION:
Sta 139+89.64 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 K
PROPOSED SPECIAL LATERAL 'V' DITCH

DETAIL F
PROPOSED SPECIAL LATERAL 'V' DITCH

TIE EXISTING DITCH TO PROPOSED DITCH

TIE PROPOSED DITCH TO EXISTING DITCH

95"X67" CSPA BURIED 1' AT INLET

GRADE TO DRAIN

RETAIN

REMOVE

REMOVE EXIST. 15" RCP

+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
+50.00 -L- 65.00' RT
+35.00 -L- 56.22' 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

27' UTILITY EASEMENT DB 1303 PG 140

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. 2:1 to 16' Existing Ground, min. 2:1 to 16' Natural Ground, 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

09-MAR-2015 11:41
S:\WE20_Projects\W-5512\Rdy\Proj\W-5512_Rdy_PSH_12.DGN
$$$$USERNAME$$$$