PROJECT REFERENCE NO.	SHEET NO.
U-3615B	UC-6

DESIGNED BY: DMP
DRAWN BY: DMP
CHECKED BY: DMP
APPROVED BY:
REVISED:

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

UTILITIES ENGINEERING SEC.
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NORTH CAROLINA PROFESSIONAL SEAL 26457 ENGINEER ANDREW P. LARRICK
DocuSigned by:
10/6/2014

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

25 0 50

-L-

PIs Sta 183+08.94	PI Sta 185+93.34	PIs Sta 188+72.39
Θs = 3° 26' 15.9"	Δ = 21° 14' 35.1" (RT)	Θs = 3° 26' 15.9"
Ls = 150.00'	D = 4° 35' 01.2"	Ls = 150.00'
LT = 100.02'	L = 463.45'	LT = 100.02'
ST = 50.02'	T = 234.42'	ST = 50.02'
	R = 1,250.00'	
	DS = 50 MPH	
	SE = 0.04	
	RO = SEE PLANS	

GRASS SWALE DATA

b = 2'
m = 3:1 & 3:1, n = 0.040
s = 0.5%
min. d = 1.5'
V10 = 1.3 fps
V2 = 1.2 fps
therefore, d10 = 0.51', d2 = 0.45'
min. length of swale = 97'
req. L = 50'

I2 = 4.4 in./hr., Q2 = 1.8 cfs
I10 = 5.6 in./hr., Q10 = 2.3 cfs
DA = 0.50 ac.
Tc = 10 min.
Avg. c = 0.82

DETAIL 9 (Not to Scale)

FROM STA. 189+42 TO STA. 190+35 -L- (LT)

DETAIL AB
LATERAL BASE DITCH
(Not to Scale)

Min. D = 3.5 Ft.
d = 3.5 Ft.
B = 6.0 Ft.
b = 5.0 Ft.
*When B is > 6.0'
Std. No. 876.01
Type of Liner = CLASS "B" Rip-Rap

FROM STA. 182+10 TO STA. 185+50 -L- (LT)

DETAIL 2A
STANDARD 2.5' BASE DITCH
(Not to Scale)

Min. D = 2.5' Ft.
B = 2.5' Ft.
Type of Liner = CLASS "I" RIPRAP

FROM STA. 186+10 TO STA. 186+16 -L-(LT)
(DDE 18 CY, EST. QTY. 16 TONS RIPRAP)
(36 SY GEOTEXTILE)

-L- ST Sta.189+72.37
Station Equation
Sta 189+72.37 BK =
Sta.189+75.30 AH

-L- POT Sta.191+82.28=
-DRIVEWAY- POT Sta.10+00.00

-L- POT Sta.193+98.77=
-Y30A- POT Sta.10+00.00

STREAM RELOCATION
SEE NATURAL STREAM
DESIGN PLANS

1200' TRANSITION 3-LANES TO 4-LANES

HIGH POINT CITY LIMITS (IN)

BASIN #10
SEE DETAIL
SHT. 2-F

GRASS SWALE
SEE DETAIL "9"

2.5'-BASE DITCH
SEE DETAIL "2A"

LATERAL BASE DITCH
SEE DETAIL AB

FILL OR REMOVE

MH LOCATION PER PLANS
NOT FIELD LOCATED

5' CONCRETE SIDEWALK (TYP.)

2'-6" C&G (TYP.)

N 85° 46' 36.2" E

MATCHLINE STA.198+00.00
SHEET UC-7

MATCHLINE STA.184+00.00
SHEET UC-5

PROP. - 1 - 6" TAPPING VALVE

PROP. - 1 - RELOCATE FIRE HYDRANT

PROP. - 1 - RELOCATE FIRE HYDRANT

PROP. - 1 - RELOCATE WATER METER

PROP. - 1 - RELOCATE WATER METER

PROP. - 120 L.F. OF 12" WATER LINE (SEE SHT. UC-18 FOR PROFILE)

(RELOCATE AS SHOWN TO THE RIGHT)

PLACE SAFETY FENCE AROUND SPRING HOUSE

HISTORICAL SPRING HOUSE NOT TO BE DISTURBED

"THE CONTRACTOR SHALL FULLY RESTORE EASEMENT AREA TO A CONDITION EQUAL TO OR BETTER THAN WHAT EXISTED PRIOR TO THE PROJECT"

HISTORICAL PROPERTY BOUNDARY

TOE PROTECTION W/ PSRM LINER
SEE DETAIL "14"

13 LEE VARRISK-MOORE, JR
DB 5101 PG 0102
PB 077 PG 055

15 JASON ERIC HARRIS
DB 4273 PG 0377
PB 077 PG 055

17 WILLIAM J. NAGY
DB 4664 PG 1594
PB 077 PG 055

19 LINDA SIMMONS MANSFIELD
DB 4614 PG 1042
PB 077 PG 055

22 ROBERT C. HIGHTOWER
DB 3819 PG 1218
PB 093 PG 093

KAREN & KEVIN DILL
DB 6121 PG 1424
PB 093 PG 083

20 KEITH & SARAH CHARLES
DB 6093 PG 2252
PB 145 PG 073

18 MOHAMMAS & GHULAN KHAN
DB 6721 PG 344
PB 138 PG 149

16 CLAUDE EUGENE LEWIS
DB 4842 PG 0459
PB 080 PG 089

14 ARLAND A. BLAIR, JR
DB 2991 PG 729
DB 6854 PG 1101
PB 056 PG 134

-DRIVEWAY- STA.191+82 RT.

PI Sta 10+55.41	PI Sta 11+04.83
Δ = 33° 29' 38.5" (LT)	Δ = 40° 42' 12.1" (RT)
D = 190° 59' 09.4"	D = 190° 59' 09.4"
L = 17.54'	L = 21.31'
T = 9.03'	T = 11.13'
R = 30.00'	R = 30.00'

FROM STA.183+78 TO STA.185+78-L-(RT)

GRASS SWALE DATA (from basin #1)

b = 2'
m = 3:1 & 3:1, n = 0.040
s = 0.3%
min. d = 2'
V10 = 1.75 fps
V2 = 1.65 fps
therefore, d10 = 1.4', d2 = 1.4'
min. length of swale = 192'*
req. L = 272'

I2 = 4.4 in./hr., Q2 = 12.0 cfs
I10 = 5.6 in./hr., Q10 = 15.2 cfs
DA = 2.72 ac.
Tc = 10 min.
Avg. c = 0.86
* Maximum length possible

FROM STA.185+78 TO STA.186+57-L-(RT)

GRASS SWALE DATA

b = 2'
m = 3:1 & 3:1, n = 0.040
s = 0.4%
min. d = 2'
V10 = 1.13 fps
V2 = 1.05 fps
therefore, d10 = 0.49', d2 = 0.43'
min. length of swale = 76'
req. L = 42'

I2 = 4.4 in./hr., Q2 = 1.5 cfs
I10 = 5.6 in./hr., Q10 = 1.9 cfs
DA = 0.42 ac.
Tc = 10 min.
Avg. c = 0.79

DETAIL 9 (Not to Scale)

DETAIL 1
STANDARD 'V' DITCH
(Not to Scale)

Min. D = 1.5 Ft.

DETAIL 14
TOE PROTECTION
(Not to Scale)

d = 1 Ft.
Type of Liner = PSRM

FROM STA. 194+50 TO STA. 195+96 -L- (RT)
FROM STA. 196+15 TO STA. 197+96 -L- (RT)
FROM STA. 198+09 TO STA. 198+26 -L- (RT)

FROM STA. 183+55 TO STA. 185+83 -L- (RT) (DDE 37 CY)

EXISTING SIGNAL

REVISIONS

8/17/99

UTILITY CONSTRUCTION PLANS PREPARED BY:
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