NOTES

1. CONSTRUCT NEW LINE.
2. PRESSURE TEST.
3. BACTERIOLOGICAL TEST.
4. TIE NEW LINE TO EXISTING LINE.
5. DEWATER EXISTING WATER LINE AND DECHLORINATE. DEWATER EXISTING FORCE SEWER LINE AND DISPOSE OF AT TREATMENT FACILITY.

THE ABOVE PROCESS IS INCIDENTAL TO THE NEW 400mm WATER PIPE AND THE NEW 200mm FORCE SEWER PIPE.

-LREV-
PIs Sta 62+68.352
θs = 2° 56' 47.9"
Ls = 90.000
LT = 60.008
ST = 30.008

-LREV-
PI Sta 66+99.236
Δ = 49° 13' 51.2" (RT)
L = 751.836
T = 400.892
R = 875.000
Se = 0.06
DS = 105 km/h

-LREV-
PIs Sta 70+80.188
θs = 2° 56' 47.9"
Ls = 90.000
LT = 60.008
ST = 30.008

METRIC
5 0 10

PROJECT REFERENCE NO.	SHEET NO.
R-0977A	UC-10
R /W SHEET NO.	

CONST.REV.
R /W REV.

Municipal Services Engineering Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 249 BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 1488 WILMINGTON, N.C. 28402
NORTH CAROLINA PROFESSIONAL SEAL 16701 ENGINEER JIMMY D. WOODIE
1/15/2004

UTILITY CONSTRUCTION DRAWINGS

CHARLES H. WEST
WILLIAM J. WELLS
DB 438 PG 90
DB 320 PG 76
DB 559 PG 43

PROP. 1- 50mm AIR RELEASE VALVE AND MANHOLE

PROP. 268.7M OF 400mm D.I. WATER PIPE, PC 1.73MPa WP

-L- SC Sta.62+51.681

-LREV- SC Sta.62+51.681

+98.344 -LREV-
50.000 (164.00 ft)

LINE 4

FALSE CUT
1.0m 1.8m 4.5m
4:1 Max. 6:1 6:1
FROM -LREV- STA. 63+78 TO STA. 63+84 LT.

2.0M

3.05M MIN.

PROP. 1- 50mm AIR RELEASE VALVE AND MANHOLE

PROPOSED 268.5M OF 200mm D.I. FORCE SEWER PIPE, PC 2.41MPa WP

TIE TO EXIST. 400mm WATER LINE USING 1- 400mm x 400mm TAPPING SLEEVE VALVE AND VALVE BOX, 1.38MPa WP

PROP. 1- 400mm D.I. 45° BEND

400mm LINE STOP AND D.I. PLUG

+40.000 -LREV-
65.000 (213.20 ft)

CHORD

+00.000 -LREV-
65.000 (213.20 ft)

TIE TO EXIST. 200mm FORCE SEWER PIPE USING 1- 200mm x 200mm TAPPING SLEEVE VALVE AND VALVE BOX, 1.73MPa WP

ROCK CROSSVANE

OBLITERATE

REMOVE APPROX. 18m OF 150 PIPE D.I.P.

400 mm

ABANDON

REMOVE

200mm LINE STOP AND D.I. PLUG

PROP. 1- 200mm D.I. 45° BEND

6-15° ELBOWS

TEST HOLE # 3

SLOPE STAKES LINE

(FUTURE) SLOPE STAKES LINE

(FUTURE) 2-GI

(FUTURE) FALSE SUMP

(FUTURE) 375mm RCP

(FUTURE) GUARDRAIL

FUTURE LANES

FALSE CUT

FALSE SUMP

2-GI

151

152

157

-L-

-LREV-

152.5 m P.I. APPROX.

135'

+25 BEGIN SHLD. BERM GUTTER

PROP. SHLD. BERM GUTTER

+69 END SHLD. BERM

GRAU-350

8d TAPER

150

375mm RCP

450mm CSP W/ ELBOWS

CLASS "B" RIP RAP (1 M TON) FILTER FABRIC (5 SM)

12.0m D.I.P.

3.0 STONE DRIVE

ACCESS POINT

+49.000 -LREV-
40.541 (132.97 ft)
BEG. WW. FENCE

+98.344 -LREV-
40.000 (131.20 ft)

+31.000 -LREV-
40.357 (132.37 ft)
END WW. FENCE

+49.000 -LREV-
48.000 (157.44 ft)

TEMP. CONST. EASEMENT

FILL OR REMOVE 302.2M OF ABANDONED 400mm PIPE

DEWATER, FILL OR REMOVE 300M OF ABANDONED 200mm FORCE SEWER PIPE

400 PVC 900 U/G

200 PVC 900 U/G

ABANDON

ENDWALL

CL.T RIP RAP (4 M TONS) FILTER FABRIC (14 SM)

1200mm CSP (10-GAUGE) W/ 25 CORR. TYPE "B" COATING W/ METHOD "B" INSTALLATION

450mm CSP

SPECIAL FALSE SUMP

450mm CSP W/ ELBOW

154

OTCB

155

TOE OF FILL PROTECTION

400mm CSP

ROCK SILT CHECK TYPE "B"

156

SEE SPECIAL DITCH DETAIL

SPECIAL DITCH GRADE

OBLITERATE

+15.000 -LREV-
67.000 (203.41 ft)

+00.000 -LREV-
67.000 (219.81 ft)
END W.W. FENCE
BEGIN CL. FENCE

+20.000 -LREV-
73.000 (239.50 ft)

EARTH BERM SEE X-SECTIONS

+53.000 -LREV-
60.000 (196.85 ft)

+80.000 -LREV-
61.000 (200.13 ft)
END CL. FENCE
BEGIN W.W. FENCE

+40.000 -LREV-
35.000 (114.80 ft)
END W.W. FENCE

+60.000 -LREV-
35.000 (114.80 ft)
BEGIN W.W. FENCE

3.0 STONE DRIVE

ACCESS POINT

3.0R

375mm

14.0

12.0

7.2

15.0

21

CHARLES H. WEST
WILLIAM J. WELLS
DB 438 PG 90
DB 320 PG 76
DB 559 PG 43

ROBERT J. LIZEE
DB 712 PG 146
23

MATCH LINE -LREV- STA 62+25.000
SEE SHEET UC-9

MATCH LINE -LREV- STA 66+05.000
SEE SHEET 19 (ROADWAY PLANS)

62+00 63+00 64+00 65+00 66+00