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DETAIL OF TEMPORARY DETOUR

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

METRIC

5m 0 10m

PROJECT REFERENCE NO.	SHEET NO.
R-2413CA	2B-7
R /W SHEET NO.	

CONST.REV.

R /W REV.

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 22606 ENGINEER DAVID C WALLER
4/8/2015

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 19732 ENGINEER SHINCHEN FAN
4/8/2015

NAD 83

-LREVSB_XOVR- POT 97+88.117 =
-LREV_SB- POC 97+88.117

-LREV SB ST 98+72.769 8.1 LT LB =
-LREV_NB POT 98+39.270 7.0 RT LB =
-LREV_END- POT 98+41.554 LA

-LREVSB_XOVR-

S 68°47'42"W 16.077

S 01°45'33" E 47.244

15.92 GR

7.5 BST

EXISTING R/W

R/W MON

98 99 100 101

RETAIN 375mm RCP

RETAIN 375mm HDPE

16 " PVC Rockingham County 400mm PVC

375mm RCP

Piedmont Natural Gas Company Inc, 8 ", PLASTIC
200mm PLASTIC

1500 WW

GRADE TO DRAIN FROM
-LREV NB- 98+39 LT. (INV. 273.9)
TO-LREV NB- 97+20 LT. (INV. 273.4),
SLOPE = 0.42%

-LREV SB-
N 2° 01' 23.3" E

N 1° 41' 26.7" W
-LREV_END

-LREV NB-

GTD

+19.669

+19.660

+30.672

1.2

3.6

EX.

D2

-LREV_END- TS 99+09.106

-LREV_END- SC 99+69.106

-LREV_END-
TEMP WIDENING

RETAIN DI

RETAIN 375mm RCP

1005

CLASS 'B' RIP RAP
EST 1.8 MTONS
EST 5.9 SM
GEOTEXTILE

375 RCP-IV

DI

1004

4.8

TEMPORARY COVER w/STEEL PLATE

-LREVSB_XOVR-
PI Sta 100+22.641
△ = 5° 24' 26.1" (LT)
L = 165.155
T = 82.639
R = 1,750.000

-LREVSB_XOVR- PT 101+05.157
-LREV_END- POT 100+73.477 4.449 RT

-LREVSB_XOVR- PC 99+40.003

RETAIN 375mm RCP

RETAIN 375mm CMP

450mm RCP 98.0°

Z=NN

N

-LREVSB_XOVR- STA 99+01.182 =
-LREV_SB- STA 99+01.182
EL 273.832

-LREVSB_XOVR- STA 100+34.272 =
-LREV_END- STA 100+02.654 3.792 RT
EL 272.964

PI = 99+60.000
EL = 273.434 m
VC = 15 m
K = 70

PI = 99+85.000
EL = 273.237 m
VC = 20 m
K = 54

PI = 100+20.000
EL = 273.025 m
VC = 15 m
K = 36

-0.8484%
-0.5747%
-0.7897%
-0.4191%
-0.8508%
-0.4301%

PI = 99+23.000
EL = 273.647 m
VC = 20 m
K = 73

PI = 100+05.000
EL = 273.153 m
VC = 15 m
K = 35

-LREVSB_XOVR-

282 280 278 276 274 272 270 268 266 264 262 260

+20 +40 +60 +80 100+00 +20

4/7/2015
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ICA ENGINEERING, INC.