PROJECT REFERENCE NO.	SHEET NO.
R 5130	21
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

METRIC

5 0 10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV. _____

R/W REV. _____

PREPARED BY:
CATLIN
ENGINEERS and SCIENTISTS
WILMINGTON, NORTH CAROLINA

TGS ENGINEERS
ADAPTED FROM:
TGS ENGINEERS
SUITE 141
975 WALNUT STREET
CARY, NC 27511

-Y9-
Pls Sta 21+41.706
Θs = 5°43'46.5"
Ls = 60.000
LT = 40.021
ST = 20.019

-Y9-
Pl Sta 22+13.264
Δ = 19°30'38.7" (LT)
L = 102.158
T = 51.578
R = 300.000
SE = 8%

-Y9-
Pls Sta 22+83.863
Θs = 5°43'46.5"
Ls = 60.000
LT = 40.021
ST = 20.019

-Y9-
Pls Sta 15+81.476
Θs = 0°44'10.3"
Ls = 46.000
LT = 30.667
ST = 15.334

-Y9-
Pl Sta 17+74.523
Δ = 11°20'22.7" (RT)
L = 354.266
T = 177.714
R = 1790.000
SE = 2%

-Y9-
Pls Sta 19+66.409
Θs = 0°44'10.3"
Ls = 46.000
LT = 30.667
ST = 15.334

-L-
Pls Sta 308+86.745
Θs = 1°36'30.2"
Ls = 100.000
LT = 66.670
ST = 33.336

-L-
Pl Sta 311+95.668
Δ = 12°56'58.2" (RT)
L = 546.610
T = 275.593
R = 1745.000
SE = 4%

-L-
Pls Sta 315+00.081
Θs = 1°36'30.2"
Ls = 100.000
LT = 66.670
ST = 33.336

-Y8-
Pls Sta 40+86.528
Θs = 1°39'47.1"
Ls = 98.700
LT = 65.803
ST = 32.903

-Y8-
Pl Sta 43+31.133
Δ = 14°11'50.8" (RT)
L = 421.247
T = 211.708
R = 1700.001
SE = 2%

-Y8-
Pls Sta 45+77.705
Θs = 6°44'26.4"
Ls = 60.000
R1 = 1700.000
R2 = 300.000
LT = 37.033
ST = 23.030

-Y8-
Pl Sta 46+84.050
Δ = 31°03'50.8" (RT)
L = 162.651
T = 83.378
R = 300.000
SE = 8%

-Y8-
Pls Sta 47+83.343
Θs = 5°43'46.5"
Ls = 60.000
LT = 40.021
ST = 20.019

MATCHLINE STA. 311+40.000 MATCH TO SHT. NO. 20

MATCHLINE STA. 315+20.000 MATCH TO SHT. NO. 22

-Y9- CS 19+51.075

-Y9- ST 19+97.015

-Y9- TS 21+01.685

-Y9- SC 21+61.685

-L- CS 311+66.745

-Y8- CS 45+40.672

-Y8- SC 46+00.672

BEN E. PITTMAN, JR.
DB 200 PG 108

BEN E. PITTMAN, JR.
DB 200 PG 108

B-71

B-60

S 69°18'27.3" E

NAD 83

EXISTING R/W

B/W MON

Δ R/W MON

300 PVC

375 mm CONC

FES

12 BST

7.2 BST

US HWY 74 W

US HWY 74 E

1.5 SOIL

2.5 SOIL

10.5 SOIL

19+00

20+00

21+00

22+00

44+00

45+00

46+00

312+00

313+00

314+00

315+00