6/09/93

PROJECT REFERENCE NO.	SHEET NO.
R-5131C	129

METRIC

5 0 10

CONST.REV.

R /W REV.

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 12300 ENGINEER CHARLES LEE FLOWE

7/16/04

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 20754 ENGINEER T. STEPHENS JR.

7/16/04

TGS ENGINEERS
975 WALNUT STREET, SUITE 141
CARY, NC 27511
PH (919) 319-8850

BM #7 RR SPIKE IN BASE OF 550m PINE
33.492 LT OF -L- STA.328+37.005 EL= 42.391

(+) 0.3000%

(+) 0.3000%

PI =61+00.000
ET = 43.459

(-) 0.3000%

PROP.GRADE

EXIST.PROFILE

L = 100.000
K = 167

(-)0.3000%

(-) 0.9358%

63+37 BEGIN LAT DITCH,RT
GR EL 41.58

SEE SHEETS NO.25 & NO.26
FOR -Y8- PLAN

-Y8-

60+00 61+00 62+00 63+00 63+60

52 50 48 46 44 42 40 38

BM #109 STD.NCDOT GPS MONUMENT,
STAMPED R0513C-9,DATE 1/97
3.266 RT OF -L- STA.334+28.618 EL= 41.709

DESIGN DATA
FOR DRAINAGE STRUCTURE AT
STA.65+94

DRAINAGE AREA	= 35.6HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 1.30cms
DESIGN HW ELEVATION	= 40.16 m
100 YEAR DISCHARGE	= 1.57cms
100 YEAR HW ELEVATION	= 40.27 m
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 4.0 cms
OVERTOPPING	= 42.06 m

(-) 0.3000%

PROP.GRADE

(-) 0.9358%

EXIST.PROFILE

L = 100.000
K = 167

(+) 0.3000%

(-) 0.3000%

1050 RCP

PI =65+00.000
ET = 41.389

66+02 END LAT DITCH,RT
GR EL 39.10

L = 100.000
K = 167

PI =67+00.000
ET = 42.355

(+) 0.3000%

(-) 0.1771%

67+00 BEGIN LAT DITCH,RT
GR EL 40.83

SEE SHEETS NO.26 & NO.27
FOR -Y8- PLAN

-Y8-

63+60 64+00 65+00 66+00 67+00 67+20

50 48 46 44 42 40 38

$$$$$$$$SYSTIME$$$$$$$$
$$$$$$$$USERNAME$$$$$$$$
$$$$$$$$DGN$$$$$$$$

\R5131C\WORK\R5131C-Y1A.PFL 07/13/04 02:26:27 PM