6/19/03

METRIC

5 0 10

PROJECT REFERENCE NO.	SHEET NO.
R-5130	122

CONST.REV.

R /W REV.

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 12300 ENGINEER CHARLES LEE FLOWE

7/10/04

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 20754 ENGINEER WILLIAM T. STEPHENS, JR.

7/10/04

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

BM #4 RR SPIKE IN BASE OF 750mm PINE
86.610 RT OF -L- STA.284+93.432 EL= 42.011

STA 9+60.000 -Y8-
BEGIN GR EL = 43.685

9+80 BEGIN V-DITCH,RT
GR EL 42.55

(+) 0.3300%

PI=11+00.000
EL = 44.081

(-) 0.3046%

L = 90.000
K = 126

(-) 0.3300%

PROP.GRADE

EXIST.PROFILE

(-) 0.3046%

12+30 END V-DITCH,RT
GR EL 41.80

-Y8-

SEE SHEET NO.13 FOR -Y8- PLAN

9+60 10+00 11+00 12+00 13+00 13+20

50 48 46 44 42 40 38 36

BM #4 RR SPIKE IN BASE OF 750mm PINE
86.610 RT OF -L- STA.284+93.432 EL= 42.011

(-) 0.3046%

PROP.GRADE

750 RCP

14+13 BEGIN LAT DITCH,RT
GR EL 40.96

EXIST.PROFILE

(-) 0.3156%

L = 80.000
K = 132

(-) 0.3046%

(+) 0.3000%

2-1050 RCP

EL=16+12.550
EL = 42.509

16+25+/- END LAT DITCH,RT
GR EL 40.29

DESIGN DATA
FOR DRAINAGE STRUCTURE AT
STA.13+92

DRAINAGE AREA	= 11.6HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 0.61cms
DESIGN HW ELEVATION	= 41.84 m
100 YEAR DISCHARGE	= 0.74cms
100 YEAR HW ELEVATION	= 41.93 m
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 1.30cms
OVERTOPPING	= 42.58 m

DESIGN DATA
FOR DRAINAGE STRUCTURE AT
STA.16+40

FOR DESIGN DATA SEE
STRUCTURE @ STA.286+18 -L-
SEE SHEET NO.56

-Y8-

SEE SHEET NO.13 FOR -Y8- PLAN

13+20 14+00 15+00 16+00 16+80

50 48 46 44 42 40 38 36

$$$$SYSTIME$$$$
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