

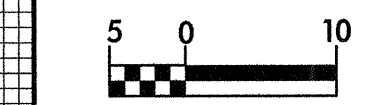
BM *4 RR SPIKE IN BASE OF 750mm PINE
86.610 RT OF -L- STA.284+93.432 EL= 42.011



PROJECT REFERENCE NO. R-513C SHEET NO. 85

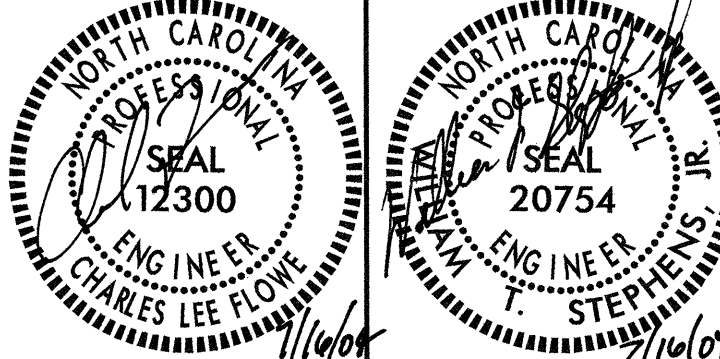
ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER



CONST. REV.

R/W REV.



TGS ENGINEERS
975 WALNUT STREET, SUITE 141
CARY, NC 27511
PH (919) 319-9850

52
50
48
46
44
42
40
38

STA 7+05.754 LP 'D' =
STA 30+27.548 COAD 5.6 LT
END GR EL = 45.417

PI = 6+45.000
EI = 45.125

L = 50,000
K = 38

L = 100,000
K = 29

PROP. GRADE

EXIST. PROFILE

4+37+7- END LAT. DITCH RT
GR EL 42.65

(+1) 0.923%

4+45+1- BEGIN LAT. DITCH LFT
GR EL 42.65

(-) 2/338%

DESIGN DATA FOR DRAINAGE STRUCTURE AT STA. 4+50	
DRAINAGE AREA	= 20 HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 0.7cms
DESIGN HW ELEVATION	= 43.22 m
100 YEAR DISCHARGE	= 0.21cms
100 YEAR HW ELEVATION	= 43.28 m
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 0.31cms
OVERTOPPING	= 43.75 m

LP 'D' @ -Y2-

SEE SHEET NO. 11 FOR LOOP 'D' PLAN

7+00

6+00

5+00

4+00

3+60

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