8/17/99

REVISIONS

TGS ENGINEERS SUITE 141 975 WALNUT STREET CARY, NC 27511 PH (919) 319-8850	PROJECT REFERENCE NO.	SHEET NO.
	B-3694	5
	R/W SHEET NO.	5

ROADWAY DESIGN ENGINEER

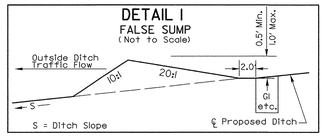
NORTH CAROLINA PROFESSIONAL SEAL 15694 ENGINEER J. CRAIG PARKER
12-16-04

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 20754 ENGINEER WILLIAM T. STEPHENS, JR.
12-16-04

-L-
PI Sta 21+72.25
Δ = 68° 51' 04.4" (LT)
D = 6° 44' 26.4"
L = 1,021.43'
T = 582.57'
R = 850.00'*
SE = 0.06
RO = SEE PLANS
DS = 40mph **

DETAIL I
FALSE SUMP
(Not to Scale)



NAD 83
NC GRID

BL-5
-BL- POT 30+39.57

-L- POT 28+29.39

-L- STA 28+00 END TIP PROJECT B-3694
END CONSTRUCTION

-L- PT 26+11.12

25+00

20+00

MATCHLINE SEE SHEET 4 -L- Sta 20+00

BL-4
-BL- PINC 21+40.61 =
-L- POC 20+79.91
16.85' LT

① DUKE POWER/
DUKE ENERGY COMPANY
NO DEED REFERENCES FOUND

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DUKE ENERGY COMPANY
NO DEED REFERENCES FOUND

WOODS

20' PAVED ROADWAY

GRAU-350

15:1 TAPER

50' TAPER

N 13° 48' 08.6" E

60" EXISTING RCP

4.75 CONC. HW

6.0' CONC. HW

3.5' CONC. HW

REM. HW

COLLAR & EXTEND 24"RCP

PDE 15"RCP

PDE

FALSE SUMP SEE DETAIL I

BASE DITCH SEE DETAIL 'C'

BASE DITCH SEE DETAIL 'D'

Existing Bridge #64 SR 1438

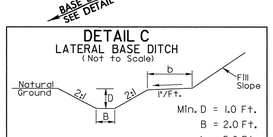
70' DUKE POWER CO. EASEMENT

CL "B" RIP RAP:
EST. 5.0 TONS
FILTER FABRIC:
EST.14 SY

CL "B" RIP RAP:
EST. 2.0 TONS
FILTER FABRIC:
EST.7 SY

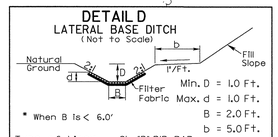
+00.00 EXIST R/W
+29.00 EXIST R/W 35.00 RT 39.00 RT
+51.00 44.00 LT
+52.00 40.00 LT
+12.00 73.00 LT EXIST R/W
+80.00 73.00 LT EXIST R/W
+48.00 42.00 LT
+59.00 56.00 LT
+00.00 40.00 LT
+40.00 73.00 LT
+26.00 EXIST R/W
+44.00 EXIST R/W
+00.00 80.00 RT
+50.00 62.00 RT
+50.00 41.00 RT
+11.12 35.00 RT
+11.12 35.00 RT 54.00 RT
+91.00 35.00 RT 54.00 RT
+99.00 63.00 RT
+27.00 43.00 RT
+85.00 35.00 RT
+51.00 64.00 RT
+98.00 52.95 RT
+51.00 67.00 RT

DETAIL C
LATERAL BASE DITCH
(Not to Scale)



-L- STA. 18+00 TO 21+20 RT
EST. DDE: 528 CY

DETAIL D
LATERAL BASE DITCH
(Not to Scale)



-L- STA. 21+20 TO 23+00 RT
EST. CL "B" RIP RAP: 94 TONS
EST. FILTER FABRIC: 242 SY
EST. DDE: 134 CY

NOTE: BLASTING SHALL NOT BE PERMITTED ANYWHERE ON THIS PROJECT.

DENOTES PAVED SHOULDERS

SEE SHEET 6 FOR -L- PROFILE

*DESIGN EXCEPTION REQUIRED FOR MINIMUM HORIZONTAL CURVE RADIUS

**DESIGN EXCEPTION REQUIRED FOR HORIZONTAL SSD. HORIZONTAL SSD MEETS A 40 MPH DESIGN SPEED

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