REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-2552C	5
R /W SHEET NO.	

METRIC

5 0 10

CONST.REV.

R /W REV.

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 15759 ENGINEER STEVEN C. BRADSHAW

3/15/05

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 6982 ENGINEER RICHARD N. SCARCE

-L2-

Pls Sta 111+95.858
Θs = 1° 08' 02.3"
Ls = 95.000
LT = 63.335
ST = 31.668

PI Sta 117+14.075
Δ = 22° 55' 13.9" (LT)
L = 960.093
T = 486.553
R = 2,400.000

Pls Sta 122+19.284
Θs = 1° 08' 02.3"
Ls = 95.000
LT = 63.335
ST = 31.668

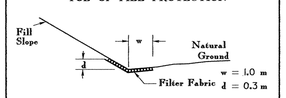
-L2LT-

Pls Sta 112+10.807
Θs = 1° 00' 08.7"
Ls = 95.000
LT = 63.334
ST = 31.668

PI Sta 117+99.379
Δ = 23° 11' 01.2" (LT)
L = 1,098.574
T = 556.906
R = 2,715.000
SE = 0.03
DS = 110 km/h

Pls Sta 123+72.715
Θs = 1° 00' 08.7"
Ls = 95.000
LT = 63.334
ST = 31.668

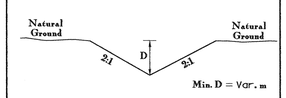
TOE OF FILL PROTECTION



Type of Liner = CLASS 'B' RIP RAP

FROM -L2RT- STA. 112+35 TO STA. 112+45 RT.
(EST. RIP RAP = 10.3 m.tons, FIL. FAB. = 29 sm)

TAIL DITCH



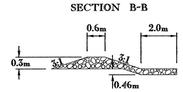
-L2LT- STA. 113+96 RT.
(EST. D.D.E. = 17 cu.m)

CLASS I RIP RAP & FILTER FABRIC DITCH CHECK @ 9M O.C. TYPICAL SECTION

SECTION A-A

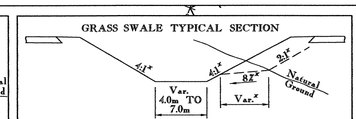
Class I Rip Rap (325 m.tons) & Filter Fabric (625 sm)

SECTION B-B



FROM -L2- STA. 110+60 TO STA. 111+68 LT.

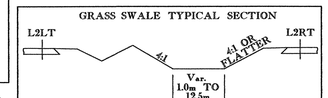
GRASS SWALE TYPICAL SECTION



*USE 3:1 @ GUARDRAIL LOCATIONS

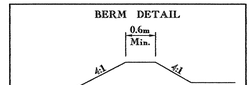
FROM -L2- STA. 110+30 TO STA. 112+45 CL
(SEE X-SECT.) EST D.D.E. = 27036 cu.m.

GRASS SWALE TYPICAL SECTION



FROM -L2- STA. 112+75 TO STA. 113+78 LT.
EST D.D.E. = 1532 cu.m.

BERM DETAIL



SECTION C-C

-L2- STA. 112+75 LT.

UNKNOWN (3)

THOMAS R CARROLL JR.
PG 21PG 141
DB 888 PG 328
DB 963 PG 791 (4)

HENERY C DURHAM
PB 21PG 141
DB 866 PG 101 (1)

LUTHER SHELBY DURHAM
PB 21PG 141 (2)

GUY C. LEE
BUILDING MATERIALS
OF SMITHFIELD
DB 1994 PG 527
PB 54 PG 415 (5)

GUY C. LEE
BUILDING MATERIALS
OF SMITHFIELD
DB 1995 PG 332
PB 54 PG 415 (6)

BRIAN L. NICHOLS
DB 2038 PG 76
PB 54 PG 416 (7)

WILLIAM EARL LAMB
DB 1724 PG 573
PB 54 PG 416 (8)

ACQUIRED UNDER ADVANCE ACQUISITION
058-99-RW
MARCH 15, 1999 (9)

FORMERLY:
CLEMON H JOHNSON
DB 468 PG 331
DB 485 PG 18

BAREWOODS DEVELOPMENT, L.L.C.
DB 468 PG 331
DB 485 PG 18 (10)

MATCHLINE -L2- 110+60 SEE SHEET 4

MATCHLINE -L2- 114+20 SEE SHEET 6

NAD83

+47.473 -L2LT-
39.500 (129.59 ft)

+42.473 -L2LT-
39.500 (129.59 ft)

-L2LT- TS Sta. 111+47.473

-L2LT- SC Sta. 112+42.473

-L2- SC Sta. 112+27.523

-L2- TS Sta. 111+32.523

-L2RT- POC Sta. 111+02.367

PROPOSED W.W.FENCE

PROP.R/W

CHORD

168.644 S88°47'28"E

169.774 N88°59'13"W

168.857 N88°49'29"W

9.144 EASEMENT PB 21PG 141

EXISTING R/W

EXPWY. GUTTER

CAT-1

8U TAPER

TYPE III

FALSE SUMP 16 2GI

FALSE SUMP 21 2GI

FALSE SUMP 22 2GI

FALSE SUMP 26 2GI

FALSE SUMP 27 2GI

FALSE SUMP 31 2GI

GRAU-350

375 RCP

375mm RCP

600mm RCP

S 63° 41' 42.5" E -L2LT-

S 63° 41' 42.5" E -L2-

JB W/ MH COVER EX. DEPTH (17)

400 CS W/ 2 ELBOWS TYPE "A" COATING (18)

DITCH CHECKS @ 9M O.C. W/ CL. "I" RIP RAP (325 M.TONS) & FIL.FAB. (625 S.M.) (19)

TRAFFIC BEARING DI (20)

CL. "B" RIP RAP (1.2 M.TONS) & F.F. (5.6 S.M.) (23)

CL. "B" RIP RAP (1.2 M.TONS) & F.F. (5.6 S.M.) (24)

OTCB STD. 840.03 200mm OPENINGS ON 4 SIDES (25)

CL. "B" RIP RAP (2 M.TONS) w/ FIL. FAB. (6 SM) (28)

CL. "B" RIP RAP (3 M.TONS) w/ FIL. FAB. (10 SM) (30)

"V" TAIL DITCH

CL. "B" RIP RAP (2 M.TONS) w/ FIL. FAB. (6 SM) (31)

400mm CSP W/ 2 ELBOWS TYPE "A" COATING

END W.W.FENCE +02.604 -L2-

BEGIN C.L.FENCE +07.728 -L2RT-

CL. "II" RIP RAP w/ F.F. SEE STRUCTURE PLANS

CL. "B" RIP RAP & FILTER FABRIC TOE OF FILL PROTECTION

90 UNIFORM TAPER (0 TO 3.6) FOR CLIMBING/AUXILIARY LANE

CLIMBING/AUXILIARY LANE

+20 -L2RT- (-L2RT-) +10

+90.000 -L2RT- 32.000

END BRIDGE

BL-831 -L2- 110+80.942: OFF 10.018 LT

BL-832 -L2- 112+06.979: OFF 6.681 LT

BL-833 -L2- 114+05.701: OFF 0.925 LT

+58.178 -L2RT- 39.500 (129.59 ft) (ON R)

+01.946 -L2RT- 44.460 (145.86 ft) (ON R)

+66.577 -L2RT- 58.886 (193.19 ft) (R CORNER)

+60.440 -L2RT- 41.827 (136.57 ft)

+47.612 -L2RT- 47.462 (155.72 ft)

+40.085 -L2RT- 55.862 (183.27 ft)

-L2RT-
PI Sta 115+89.927
Δ = 27° 53' 01.1" (LT)
L = 1,700.881
T = 867.632
R = 3,495.000
SE = RC (0.02)
Runoff = 60.000
DS = 110 km/h

PROPOSED C.L.FENCE

EXISTING R/W

R/W MON

S32°15'42"W 60.309

S24°59'18"W 53.427

S33°59'00"E 89.697

CLIMBING/AUXILIARY LANE

3.98%

-L2LT- GRADE SEE PROFILE SHEET 29

-L2RT- GRADE SEE PROFILE SHEET 29

FOR STRUCTURE DESIGN PLANS SEE SHEETS S- THRU S-

LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612

17-MAR-2005 10:45
J:\2127\DES\DGN\R2552C_ROU_PSHI05.DGN
dmeeks1stby WORKFLOW_ROU_PSHI05.DGN