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11/14/23

NOTE: ALL DRIVES SHALL BE PAVED TO THE EXISTING RIGHT OF WAY LINE

SEE SHEET 2B-1 FOR ROUNDABOUT LAYOUT. SEE SHEET 2B-1 FOR CONCRETE ISLAND LAYOUT.

HN-0031
3RD1 | 004

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
TRANSYLVANIA COUNTY

ROADWAY DESIGN UNIT

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 35018 ENGINEER JIMMY L. TERRY
4/22/2026
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 038697 ENGINEER DAVID B. PETTY
4/22/2026
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PREPARED BY
TGS ENGINEERS
201 W. MARION, ST. STE 200
SHELBY, NC 28150
704-482-5682 FAX 704-482-5683
CORP. LICENSE NO.: C-0275

REVISIONS

CUR DATA -L-

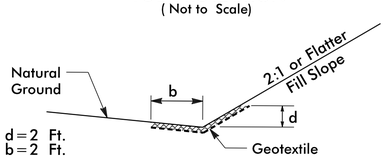
PIc 12+17.86	PIc 13+92.45	PIc 14+51.60
Δc = 27°48'24.0" (RT)	Δc = 07°44'29.1" (RT)	Δc = 09°31'13.7" (LT)
D = 10°19'24.8"	D = 09°05'40.4"	D = 28°38'52.4"
Lc = 269.35	Lc = 85.12	Lc = 33.23
Tc = 137.38	Tc = 42.63	Tc = 16.65
R = 555	R = 630	R = 200
SE = EXIST.	SE = 07	SE = - 02
	DS = 45 mph	DS = 25 mph

CUR DATA -L-

PIc 14+98.28	PIc 15+63.28	PIc 16+14.49
Δc = 22°41'43.1" (RT)	Δc = 26°45'41.9" (LT)	Δc = 07°42'12.6" (RT)
D = 38°11'49.9"	D = 38°11'49.9"	D = 22°55'05.9"
Lc = 59.42	Lc = 70.06	Lc = 33.61
Tc = 30.10	Tc = 35.68	Tc = 16.83
R = 150	R = 150	R = 250
		SE = See Plans
		DS = 25 mph

BEGIN CONSTRUCTION
–Y– STA. 11+00.00

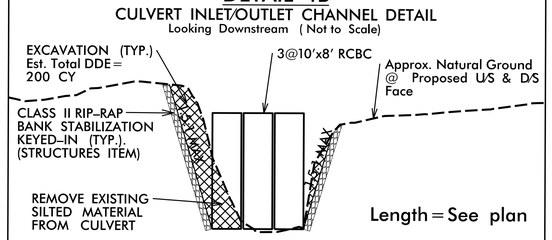
DETAIL 4A
TOE PROTECTION
(Not to Scale)



d = 2 Ft.
b = 2 Ft.
Type of Liner = Class B Rip–Rap

FROM –Y– STA. 12+49 TO 12+72 RT

DETAIL 4B
CULVERT INLET/OUTLET CHANNEL DETAIL
Looking Downstream (Not to Scale)



CUR DATA -DRWY 1-
PIc 10+63.18
Δc = 81°30'23.3" (LT)
D = 190°59'09.4"
Lc = 42.68
Tc = 25.85
R = 30
SE=0.01

CHARLES L. BRUCE & JANE B. SMITH
Deed Book/Page (438/410)

BEGIN PROJECT HN–0031
–L– STA. 12+75.00

NOTE: CONTRACTOR IS NOT ALLOWED TO UTILIZE EASEMENTS ON PARCEL 03 FOR LAYDOWN OR STAGING AREAS

PROPOSED GRAVEL PARKING

PROPOSED ASPHALT DRIVE

CEDAR MOUNTAIN CAFE, LLC
Deed Book/Page (1088/338)

TOE PROTECTION
SEE DETAIL 4A
CLASS B RIPRAP
9 TONS, 20 SY GEO

DND INSIDE RR TIES (SEPTIC AREA)

+59±,LT BEGIN 4' TRUCK APRON

+26±–Y–, RT END 4' TRUCK APRON

DAVID M. & MEREDITH LEE ABELL
Deed Book/Page (428/644)

100' TAPER TO EXIST.

+00

RECONNECT ASPHALT DRIVE

REMOVE

+42±–Y–, LT BEGIN 4' TRUCK APRON

24" RCP–IV

-L- PRC 15+97.66

15'R 24" RCP–IV

GRADE TO DRAIN

REMOVE DI

FLOWABLE FILL (6 CY)

PLUG

CEDAR MOUNTAIN FIRE DEPT.
Deed Book/Page (188/94)

DND WELL

DND SIGN

DND POLE

+98±, LT END 4' TRUCK APRON

RECONNECT ASPHALT DRIVE

REMOVE 6 LF

RELOCATE WATER POINT

MILL & RESURFACE –L– STA 16+25 TO 17+35

DO NOT DISTURB POLE

CEDAR MOUNTAIN VILLAGE, LLC
Deed Book/Page (816/307)

50' TAPER TO EXIST.

PROP. GRAVEL PARKING

+35±,RT BEGIN 4' TRUCK APRON

RELOCATE FENCE (BY OWNER)

CLASS B RIPRAP
1 TON, 5 SY GEO

-L- PRC 14+68.18

-L- PRC 14+34.95

-L- PRC 16+31.27

GRADE TO DRAIN

-DRWY1- PC 10+37.33

PROPOSED GRAVEL DRIVE

-DRWY1- POE 11+09.50

-DRWY1- PT 10+80.01

-L- PCC 13+49.83

CEDAR MOUNTAIN INVESTORS. LLC
Deed Book/Page (980/566)

END CONSTRUCTION
–DRWY1– STA. 10+90.00

TRUCK APRON

-L- PRC 15+27.60=
-Y- POT 13+24.72

+92±,RT END 4' TRUCK APRON

END PROJECT HN–0031
–L– STA. 17+35.00

CLASS II RIPRAP BANK STABILIZATION (TYP.) (SEE DETAIL 4B) (STRUCTURES ITEM)

PROPOSED ASPHALT DRIVE

EX 24" CMP

EUGENIA G. BOWMAN
Deed Book/Page (783/663)

FOR -L- PROFILE, SEE SHEET 5
FOR -Y- PROFILE, SEE SHEET 5
FOR -RAB- PROFILE, SEE SHEET 5
FOR -DRWY1- PROFILE, SEE SHEET 6

TGSE/aturner - 4/22/2026