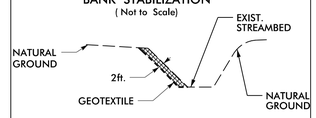
PROJECT REFERENCE NO.	SHEET NO.
17BP.8.R.115	EC-05/CONST.04
RANDOLPH 128	———
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FINAL GRADE PLAN

40′ 0′ 40′ 80′
ENGLISH

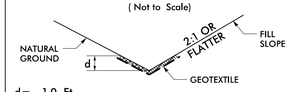
NAD 83/NA 2011

DETAIL E
BANK STABILIZATION
(Not to Scale)



Type of Liner= CL II RIP RAP, 80 TONS
Geotextile=115sy

DETAIL A
TOE PROTECTION
(Not to Scale)

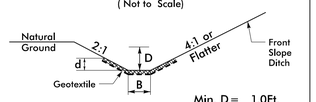


d= 1.0 Ft.

Type of Liner= CL B Rip-Rap

FROM STA. 16+00 TO STA. 16+35 –L– Lt/Rt
FROM STA. 17+90 TO STA. 19+50 –L– Rt

DETAIL B
SPECIAL CUT BASE DITCH
(Not to Scale)

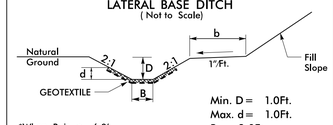


Min. D= 1.0Ft.
Max. d= 1.0Ft.
B= 2.0Ft.

Type of Liner= CL I Rip-Rap

FROM STA. 19+00 TO STA. 20+25 –L– Lt

DETAIL C
LATERAL BASE DITCH
(Not to Scale)



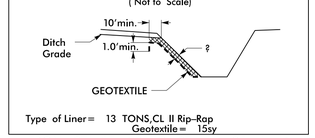
*When B is < 6.0′

Min. D= 1.0Ft.
Max. d= 1.0Ft.
B= 2.0Ft.
b= 3.0Ft.

Type of Liner= CL I Rip-Rap

FROM STA. 17+35 TO STA. 19+00 –L– Lt

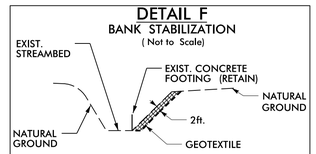
DETAIL D
RIP RAP AT EMBANKMENT
(Not to Scale)



Type of Liner= 13 TONS,CL II Rip-Rap
Geotextile= 15sy

FROM STA. 17+20 TO STA. 17+35 –L– Lt

DETAIL F
BANK STABILIZATION
(Not to Scale)



Type of Liner= CL II RIP RAP, 40 TONS
Geotextile=57sy

SHANNON BAILEY NORMAN
TRUSTEE OF THE SHANNON BAILEY NORM
REVOCABLE TRUST OF 2010
DB 2215 PG 1702

RICHARD DARNELL WILLIAMS,
LISA DAWN WILLIAMS HOLDER,
GREGORY DEAN WILLIAMS, AND
DEBORAH LYNN WILLIAMS DANIELS
AS TENANTS IN COMMON

DB 2074 PG 748

–L– POT Sta. 14+50.00
BEGIN CONSTRUCTION

EXCAVATION TO ELEV=600.00′

CL II RIP RAP TO ELEV=603.9′ BEG STA 16+50+/– Lt

CL B RIP RAP PAD 1 TON 5 SY GEOTEXTILE

SEE DETAIL A TOE PROTECTION W/CL B RIP RAP STA 16+00 – 16+35 –L– Lt 18 TONS 40 SY GEOTEXTILE

+00.00 30.62′ & 65.00′

+50.00 29.84′

SHOULDER BERM GUTTER STA 16+22 –L– Lt TO APPROACH SLAB

SEE DETAIL A TOE PROTECTION W/CL B RIP RAP STA 16+00 – 16+35 –L– Rt 18 TONS 40 SY GEOTEXTILE

+60.00 30.11′

+00.00 29.38′ & 55.00′

SHOULDER BERM GUTTER STA 16+32 –L– Rt TO APPROACH SLAB

CL B RIP RAP PAD 1 TON 5 SY GEOTEXTILE

CL II RIP RAP TO ELEV=603.9′ BEG STA 16+70+/– Rt

SEE DETAIL D RIP RAP AT EMBANKMENT STA 17+20 – 17+35 –L– Lt

SEE DETAIL F RETAIN EXISTING CONCRETE FOOTING, NORTH SIDE CREEK ARMOR BANK W/CL II RIP RAP BEHIND FOOTING

EXCAVATION TO ELEV=600.00′

CL II RIP RAP TO ELEV=603.9′ END STA 17+80+/– Lt

SEE DETAIL C 2′ LATERAL BASE DITCH W/CL I RIP RAP STA 17+35 – 19+00 –L– Lt 132 TONS 260 SY GEOTEXTILE

CL II RIP RAP TO ELEV=603.9′ END STA 17+95+/– Rt

SEE DETAIL E ARMOR BANK W/CL II RIP RAP

SEE DETAIL A TOE PROTECTION W/CL B RIP RAP STA 17+90 – 19+50 –L– Rt 80 TONS 180 SY GEOTEXTILE

WILLIAM DWIGHT CHEEK
AND WIFE
SALLIE W. CHEEK
DB 1880 PG 485

3

PI Sta 21+04.67
△ = 4° 24′ 08.0″ (LT)
D = 2° 05′ 00.5″
L = 211.29′
T = 105.70′
R = 2,750.00′

–L– PT 22+10.27
–L– PC 22+22.65

PI Sta 23+24.96
△ = 14° 34′ 33.2″
D = 7° 09′ 43.1″
L = 203.52′
T = 102.31′
R = 800.00′

–L– PC 19+98.98

+98.98 32.69′ & 65.00′

SEE DETAIL B SPECIAL CUT 2′ BASE DITCH W/CL I RIP RAP STA 19+00 – 20+25 –L– Lt 100 TONS 195 SY GEOTEXTILE

–L– POC Sta. 20+50.00
END CONSTRUCTION

+50.00 32.48′

+98.98 27.31′ & 55.00′

+50.00 27.52′

SR 2442 RAMSEUR-JULIAN ROAD 20.5′ BST

N 27° 51′ 54.1″ E

N 23° 27′ 46.1″ E

EXISTING R/W

WOODS

GRASS

CONC

COV. PORCH

IS FRD

SANDY CREEK

ACTUAL P/L IS RUN OF CREEK

BL-3

BM*1 ELEVATION = 603.44′
N 774470 E 1809248
RR SPIKE SET IN 18" OAK
BL-3 TO TBM*1
S 59 02′ 27″ W 146.18′

SUSAN ANN SHANK
DB 1792 PG 3401

ROBERT E. CLONTZ
AND WIFE
GERALDINE A. CLONTZ
DB 2034 PG 1754

BILLY RAY SARVIS
AND SPOUSE
MELINDA E. SARVIS
DB 2499 PG 41

N 28°09′08″ E 210.02′

S 27°58′37″ W 103.95′

S 28°24′03″ W 105.00′

N 12°51′12″ E 382.83′

CH,
CYNT
DB
PI