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8/17/99

Prepared by
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NC LICENSE # C-2243

PROJECT REFERENCE NO.	SHEET NO.
R-3825B	16
R/W SHEET NO.	

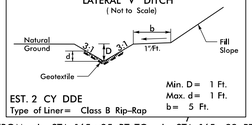
ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 18470 ENGINEER EDWARD GLENN EDENS, JR.
DocuSigned by: Edward Glenn Edens
8/9/2018

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 037863 ENGINEER MEME D. BUSCEMI
DocuSigned by: Meme D. Buscemi
8/9/2018

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/2011

DETAIL 59
LATERAL 'V' DITCH
(Not to Scale)

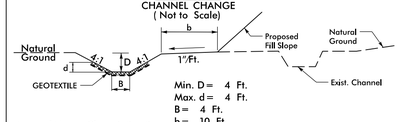


Min. D = 1 Ft.
Max. d = 1 Ft.
b = 5 Ft.

EST. 2 CY DDE
Type of Liner = Class B Rip-Rap

FROM -L- STA. 165+25 RT TO -L- STA. 165+93 RT

DETAIL 75
CHANNEL CHANGE
(Not to Scale)

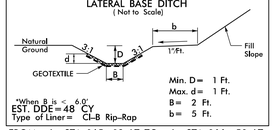


Min. D = 4 Ft.
Max. d = 4 Ft.
B = 4 Ft.
b = 10 Ft.

Type of Liner = Class B Rip-Rap

FROM -L- STA. 167+20 LT TO -L- STA. 171+75 LT

DETAIL 41
LATERAL BASE DITCH
(Not to Scale)

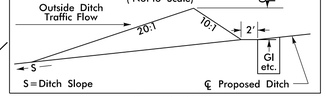


Min. D = 1 Ft.
Max. d = 1 Ft.
B = 2 Ft.
b = 5 Ft.

*When B is < 6.0'
EST. DDE = 48 CY
Type of Liner = CL-B Rip-Rap

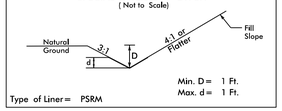
FROM -L- STA. 165+18 LT TO -L- STA. 166+50 LT

DETAIL 62
FALSE SUMP
(Not to Scale)



-L- STA. 169+36 RT
-L- STA. 175+66 RT
-L- STA. 177+55 RT

DETAIL 77
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

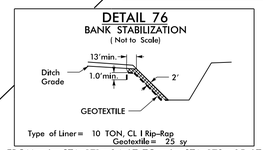


Min. D = 1 Ft.
Max. d = 1 Ft.

Type of Liner = PSRM

FROM -L- STA. 176+74 LT TO -L- STA. 178+00 LT

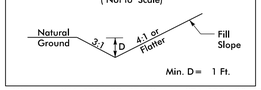
DETAIL 76
BANK STABILIZATION
(Not to Scale)



Type of Liner = 10 TON, CL I Rip-Rap
Geotextile = 25 sy

FROM -L- STA. 171+94 LT TO -L- STA. 172+05 LT

DETAIL 101
SPECIAL LATERAL V-DITCH
(Not to Scale)



Min. D = 1 Ft.

FROM -L- STA. 175+80 RT TO -L- STA. 177+30 RT

-L- NC 42
PI Sta 165+42.54
Δ = 4° 51' 12.9" (LT)
D = 1° 08' 45.3"
L = 423.56'
T = 211.90'
R = 5,000.00'
e = 3%
Runoff = 162'

PI Sta 174+88.36
Δ = 5° 31' 16.7" (LT)
D = 1° 08' 53.6"
L = 480.86'
T = 240.62'
R = 4,990.00'
e = 3%
Runoff = 162'

-YIIA- TUSCAN RIDGE DR
PI Sta 14+87.31
Δ = 5° 12' 15.1" (LT)
D = 5° 42' 49.2"
L = 91.08'
T = 45.57'
R = 1,002.78'

(74) GREG C. JONES AND WIFE, ANGELA V. JONES
DB 3948 PG 257
PB 66 PG 9

(73) JOHN T. SHULER AND WIFE, CATHIE G. SHUKER
DB 4061 PG 191
PB 71 PG 201

(67) SMITABEN PATEL AND SUNITA GALADA
DB 4813 PG 573
PB 71 PG 201

(75) PEGGY ANNE FLOWERS
DB 2836 PG 5
PB 57 PG 310

(76) 42 EAST LLC
DB 3018 PG 255
PB 64 PG 294

(77) 42 EAST LLC
DB 3018 PG 255
PB 77 PG 338

(72) GEORGE P. MEREWETHER AND WIFE, MARIAN L. MEREWETHER
DB 3297 PG 447
PB 61 PG 49

MATCHLINE -L- STA. 166+00.00 SEE SHEET 15

MATCHLINE -L- STA. 178+00.00 SEE SHEET 17

170+00

175+00

-L- POT Sta. 171+51.31=
-YIIA- POT Sta. 10+00.00

PT Sta. 167+54.19

PC Sta. 172+47.75

PRC Sta. 177+28.61

END CONSTRUCTION
-YIIA- POT Sta. 12+85.00

PC Sta. 14+41.74

PT Sta. 15+32.82

3' SILL IN EAST BARREL
1' SILL IN WEST BARREL
INSET 1' FROM CULV FACE
2' LATERAL BASE DITCH W/CLASS B RIP RAP
EST. 67 TONS CLASS B RIP RAP
EST. 148 SY GEOTEXTILE
SEE DETAIL 41
EST 5 TONS CLASS B RIP RAP
EST 14 SY GEOTEXTILE

20LF OF OUTLET CHANNEL IMPROVEMENT w/FLOOD BENCH

CHANNEL RELOCATION W/CLASS B RIP RAP
EST. 890 TONS CLASS B RIP RAP
EST. 1980 SY GEOTEXTILE
SEE DETAIL 75

BANK STABILIZATION SEE DETAIL 76
EST 5 TONS CLASS B RIP RAP
EST 14 SY GEOTEXTILE

SPECIAL LATERAL V-DITCH W/ CLASS B RIP RAP SEE DETAIL 77

TIE TO EXISTING SWALE

100' MEDIAN TRANSITION

2@2'x12' RCBC

END CULVERT +16.00

REMOVE EX. GR

FILL EXISTING CHANNEL

FILL W/FLOWABLE FILL

BEGIN CULVERT +90.91

TEMPORARY SHORING NO.6
166+25 TO 167+75
4.5' RT
SEE TMP

30LF OF OUTLET CHANNEL IMPROVEMENT w/FLOOD BENCH
APPROX 40 TON CLASS I RIP RAP
APPROX 43 SY GEOTEXTILE

3' SILL IN EAST BARREL
1' SILL IN WEST BARREL
INSET 1' FROM CULV FACE

BEGIN SBG +30
END SBG +34

BEGIN 50' CURB TRANS +94.19
END 50' CURB TRANS +76.57

10.00 BEGIN 50' CURB TRANS +16.57
END 50' CURB TRANS +06.57

5" MONOLITHIC ISLAND

50' TAPER
100' TAPER

REMOVE 66 LF

RETAIN

ADJUST CB

BY8-148

R-3825B-4

BL-123

N 79°09'53.3" E

S 78°09'19" W 3.97'

S 78°51'03" W 110.98'

N 11°44'20" W 59.14'

N 12°01'35" W 82.51'

N 12°45'41" W 144.78'

N 11°44'49" W 172.74'

S 07°29'41" E 80.11'

S 36°01'28" E 36.05'

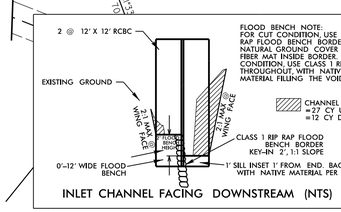
S 52°08'43" W 125.90'

N 82°13'35" W 208.87'

S 44°48'56" W 170.23'

N 89°55'27" W 126.69'

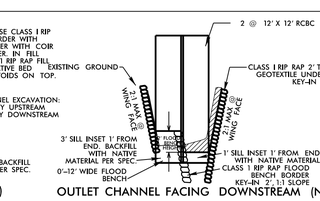
INLET CHANNEL FACING DOWNSTREAM (NTS)



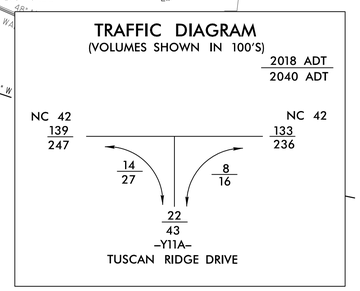
FLOOD BENCH NOTE:
FOR CUT CONDITION, USE CLASS I RIP RAP FLOOD BENCH BORDER WITH NATURAL GROUND COVER WITH COIR FIBER MAT INSIDE BORDER. IN FILL CONDITION, USE CLASS 1 RIP RAP FILL THROUGHOUT, WITH NATIVE BED MATERIAL FILLING THE VOIDS ON TOP.

CHANNEL EXCAVATION:
=27 CY UPSTREAM
=12 CY DOWNSTREAM

OUTLET CHANNEL FACING DOWNSTREAM (NTS)



TRAFFIC DIAGRAM
(VOLUMES SHOWN IN 100'S)



FOR -L- PROFILE SEE SHEET 30
FOR -YIIA- PROFILE SEE SHEET 35
FOR CULVERT DETAILS SEE C-1 THROUGH C-10
FOR CONC. ISLAND DETAILS SEE SHEET 2B-5

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