PROJECT REFERENCE NO.	SHEET NO.
U-2524D	UC-10
DESIGNED BY: DMP	
DRAWN BY: DMP	
CHECKED BY: DMP	
APPROVED BY:	
REVISED:	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

UTILITIES ENGINEERING SEC.
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 26457 ANDREW P. LARRICK 8/9/2016

UTILITY CONSTRUCTION PLANS ONLY

UTILITY CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

25 0 50

8/17/99

REVISIONS

MATCH LINE –L– STA 505+00 SEE SHEET UC-9B

MATCH LINE –L– STA 519+00 SEE SHEET 10A

NO WATER OR SEWER CONFLICTS ARE ANTICIPATED ON THIS SHEET

NAD 83

CORNWALLIS DEVELOPMENT CO.
DB 3449 PG 1841
(114)

NCDOT
(115)

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DB 4975 PG 1249
(115)

PROPOSED NOISE WALL 8 TO BE CONSTRUCTED UNDER U–2524D

END NOISE WALL 8
–L– STA. 514+14.10, 81.81' LT

PROPOSED PAVEMENT STRUCTURE AND SINGLE FACE BARRIER ALONG NOISE WALLS 8 & 9 TO BE CONSTRUCTED UNDER U–2525C

PROPOSED PAVEMENT STRUCTURE TO BE CONSTRUCTED UNDER U–2525C

PROPOSED NOISE WALL 9 TO BE CONSTRUCTED UNDER U–2524D

SPECIAL CUT DITCH SEE DETAIL 11

TRANSITION STONE CLASS 'B' RIP-RAP EST. 10 TONS EST. 30 S.Y.G.F.

'V' DITCH BEHIND NOISE WALL SEE DETAIL 1 EST. 350 SY PSRM

'V' DITCH BEHIND NOISE WALL SEE DETAIL 1 EST. 120 SY PSRM

'V' DITCH BEHIND NOISE WALL SEE DETAIL 1 EST. 250 SY PSRM

SPECIAL LAT. 'V' DITCH SEE DETAIL 28 EST. 70 SY PSRM

LATERAL 'V' DITCH SEE DETAIL 33 EST. 90 SY

RIP-RAP AT EMBANKMENT SEE DETAIL 21 CLASS 'I' RIP-RAP EST. 10 TONS EST. 20 S.Y.G.F.

CULVERT CHANNEL IMPROVEMENTS (DOWNSTREAM) SEE DETAIL 34

REMOVE EXIST. CMP

POT Sta 509+28.96 –L– T.S Sta 0+00.00 RPDY8

SC Sta 2+00.00 RPDY8

CS Sta 4+04.41 RPDY8

POT Sta 509+74.77 –L– T.S Sta 0+00.00 RPDY8

SC Sta 2+00.00 RPDY8

CS Sta 4+04.41 RPDY8

N 88°12'10.2" E

N 86°10'17" W

S 81°23'23" W

N 11°10'23" W

N 38°07'00" W

N 53°22'28" W

N 86°37'48" E

N 86°47'41" E

N 53°05'24" E

S 02°59'49" W

S 39°49'17" W

DETAIL 34
CULVERT CHANNEL IMPROVEMENTS (DOWNSTREAM)
(Not to Scale)

Class 'II' Rip-Rap* | 1.5:1 or Flatter | D | 1.5:1 or Flatter | Class 'II' Rip-Rap*
Natural Ground | Geotextile Fabric | 1.5' Min. | Channel Bed (Variable) | Natural Ground | Geotextile Fabric

D= Varies (To Top of Bank)
EST. 170 TONS CLASS II RIPRAP
EST. 320 SY GEOTEXTILE FABRIC

–L– 505+49 LT

DETAIL FSL
FALSE SUMP
(Not to Scale)

Outside Ditch Traffic Flow | 10:1 | 20:1 | 2.0' | 0.5' Min. 1.0' Max. | GI etc.
S
S=Ditch Slope | ℄ Proposed Ditch

–L– 515+35 LT

DETAIL FSM
FALSE SUMP
(Not to Scale)

Median Ditch | 9" | 2' | L (See Chart Below) | 20' | GI etc.
S
S=Ditch Slope | ℄ Proposed Ditch

Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

–L– STA. 506+50 MED
–L– STA. 511+35 MED
–L– STA. 515+35 MED

DETAIL FSR
FALSE SUMP
(Not to Scale)

Outside Ditch Traffic Flow | 20:1 | 10:1 | 2' | 0.5' Min. 1.0' Max. | GI etc.
S
S=Ditch Slope | ℄ Proposed Ditch

–L– STA. 511+35 RT
–L– STA. 515+35 RT

DETAIL 21
RIP-RAP AT EMBANKMENT
(Not to Scale)

10' min. | 1.0' min. | Ditch Grade | 1.5' | GEOTEXTILE

Type of Liner= Class 'I' Rip-Rap

FROM –L– STA. 504+90 TO STA. 505+10 RT

DETAIL 11
SPECIAL CUT DITCH
(Not to Scale)

VARIES | VAR. | VARIES | SHLDR. PT.
Natural Ground | 2:1 | 6:1 | 6:1 | Natural Ground
DITCH PROFILE

FROM –L– STA. 508+00 to STA. 510+50 RT

DETAIL 33
LATERAL 'V' DITCH
(Not to Scale)

Natural Ground | 2:1 | d | T | D | 2:1 | b | 1'Ft. | Fill Slope

Min. D= 1.0 Ft.
Max. d= 1.0 Ft.
b= 5.0 Ft.

Type of Liner= PSRM

FROM –L– STA. 505+00 TO STA. 506+15 RT

DETAIL 28
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

Natural Ground | 2:1 | d | D | 6:1 or Flatter | Fill Slope

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

Type of Liner= PSRM

FROM –L– STA. 506+15 TO STA. 506+89 RT

DETAIL 1
'V' DITCH BEHIND NOISE WALL
(Not to Scale)

PROPOSED NOISE WALL | b | Natural Ground | 1'Ft. | 2:1 | D | 2:1 | PSRM

Min. D= 1.0 Ft.
b= 3.0 Ft.
Type of Liner= PSRM

FROM –L– STA. 506+89 TO STA. 512+00 RT
FROM –L– STA. 514+00 TO STA. 517+00 RT
FROM –L– STA. 517+50 TO STA. 519+00 RT

UTILITY CONSTRUCTION PLANS PREPARED BY:
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