Docusign Envelope ID: 247533BC-4552-83FB-8134-F1A4B74B2D2C

PROJECT REFERENCE NO.	SHEET NO.
BP14-R014	EC-5/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PLANS PREPARED BY:

WSP USA
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
TEL: 1.919.836.4040
FAX: 1.919.836.4099
LICENSE NO. F-0165

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

NAD 83/2011

-Y-

PI Sta 10+66.18	PI Sta 13+03.73
△ = 34° 23' 54.2" (RT)	△ = 13° 25' 25.5" (LT)
D = 26° 47' 49.3"	D = 8° 09' 05.0"
L = 128.37'	L = 164.68'
T = 66.18'	T = 82.72'
R = 213.81'	R = 702.90'
e = EXIST	e = EXIST
DS = EXIST	DS = EXIST

-L-

PI Sta 11+50.55	
△ = 80° 21' 07.9" (LT)	
D = 70° 44' 07.9"	
L = 113.60'	
T = 68.39'	
R = 81.00'	
e = 0.06	
DS = 20 MPH	

-DR1-

PI Sta 10+31.59	
△ = 37° 37' 57.4" (LT)	
D = 114° 35' 29.6"	
L = 32.84'	
T = 17.04'	
R = 50.00'	

-DR1-

PI Sta 10+62.90	PI Sta 10+98.11
△ = 34° 27' 26.1" (RT)	△ = 18° 21' 21.8" (RT)
D = 114° 35' 29.6"	D = 114° 35' 29.6"
L = 30.07'	L = 16.02'
T = 15.50'	T = 8.08'
R = 50.00'	R = 50.00'

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "860152 GPS-101" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 623299.033(ft) EASTING: 667357.859(ft) ELEVATION: 1973.379(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9997853902
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "860152 GPS-101" TO -L- STATION 10+00.00 IS

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

BRIDGE REMOVAL AND BRIDGE CONSTRUCTION SHALL BE PER REQUIREMENTS IN THE NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL

DEWATER AREA BEHIND IMPERVIOUS DIKES INTO SPECIAL STILLING BASIN(S).

CONTRACTOR SHALL INSTALL AN ONSITE CONCRETE WASHOUT STRUCTURE PER THE NCDOT DETAIL AND SPECIAL PROVISIONS. ACTUAL LOCATION OF THE STRUCTURE SHALL BE DETERMINED IN THE FIELD. CONCRETE WASHOUT STRUCTURE SHALL BE MAINTAINED BY THE CONTRACTOR. ALL CONCRETE TRUCKS SHALL USE THE CONCRETE WASHOUT STRUCTURE. NO WASHOUT OF CONCRETE TRUCKS SHALL BE ALLOWED EXCEPT IN THE CONCRETE WASHOUT STRUCTURE.

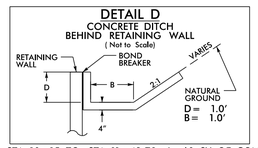
ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

UTILITY OWNERS

DUKE ENERGY
957 SPARTANBURG HWY.
HENDERSONVILLE, NC 28792

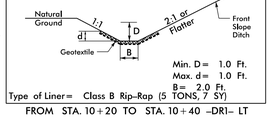
FRONTIER COMMUNICATIONS
1058 WEST CLUB BLVD
SUITE 518
DURHAM, NC 27701

DETAIL D
CONCRETE DITCH BEHIND RETAINING WALL
(Not to Scale)



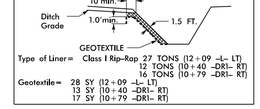
FROM STA. 10+15 TO STA. 11+42.70 -L- 60 SY OF CONCRETE
FROM STA. 13+80 TO STA. 14+32 -L- 24 SY OF CONCRETE

DETAIL B
SPECIAL CUT BASE DITCH
(Not to Scale)



Min. D= 1.0 Ft.
Max. d= 1.0 Ft.
B= 2.0 Ft.
Type of Liner= Class B Rip-Rap (5 TONS, 7 SY)
FROM STA. 10+20 TO STA. 10+40 -DR1- LT

DETAIL C
RIP RAP AT EMBANKMENT
(Not to Scale)



Type of Liner= Class I Rip-Rap 27 TONS (12+09 -L- LT)
12 TONS (10+40 -DR1- RT)
16 TONS (10+79 -DR1- RT)
Geotextile= 28 SY (12+09 -L- LT)
13 SY (10+40 -DR1- RT)
17 SY (10+79 -DR1- RT)
STA. 12+09 -L- LT
STA. 10+40 -DR1- RT
STA. 10+79 -DR1- RT

DLEIN 2026-01-15
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WSP