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PROJECT REFERENCE NO.	SHEET NO.
I-5716	7
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
Docusigned by:
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 045246 ENGINEER JASON T. GADDY
B4F2C9B400BA48F...
6/8/2026

HYDRAULICS ENGINEER
Signed by:
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 26971 ENGINEER JOSHUA G. DALTON
108BD8C149940C...
6/8/2026

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

A. MORTON THOMAS AND ASSOCIATES, INC.
CONSULTING ENGINEERS
900 RIDGEFIELD DRIVE SUITE 325, RALEIGH, NC 27609
(919) 855-9009 FAX (919) 855-5047
EMAIL: AMT1@AMTENGINEERING.COM
NCBELS LICENSE # F-1049

FOR -L- PROFILE SEE SHT. 11
FOR -RPA- PROFILE SEE SHT. 13

REMOVE EXIST. PAVEMENT

NAD 83/NA 2011

-RPA-

PI Sta 15+50.38	PIs Sta 18+91.07	PI Sta 20+43.39	PIs Sta 21+77.42
Δ = 12° 58' 12.5" (RT)	Θs = 2° 51' 49.5"	Δ = 10° 11' 37.5" (RT)	Θs = 7° 33' 31.7"
D = 2° 51' 53.2"	Θs = 7° 33' 35.4"	D = 7° 33' 31.7"	Ls = 200.00'
L = 452.74'	Ls = 200.00'	L = 134.86'	LT = 133.46'
T = 227.34'	LT = 115.28'	T = 67.61'	ST = 66.78'
R = 2,000.00'	ST = 85.25'	R = 758.00'	
DS = 50 MPH		DS = 50 MPH	
Runoff = 192'		Runoff = 192'	
e = 0.08		e = 0.08	

DETAIL 6
SPECIAL LATERAL 'V' DITCH
(Not to Scale)
Natural Ground, 3:1, D, 4:1 or Flatter, Fill Slope
Min. D=1.5 Ft.
FROM STA. 18+70 -RPA- TO STA. 21+50 -RPA- LT

DETAIL 8
FALSE SUMP
(Not to Scale)
Outside Ditch Traffic Flow, 20:1, 10:1, 2', 0.5' Min. 1.0' Max., GI etc.
S=Ditch Slope, ℄ Proposed Ditch
STA 21+85 -RPA- RT
STA. 21+87 -RPA- RT

MATCHLINE -RPA- STA. 22+00 SEE SHEET 6

MATCHLINE -L- STA. 52+00 SEE SHEET 6

-RPA- CS Sta. 21+10.64

-RPA- +79.19 EXIST. R/W END FENCE

TIE PROPOSED CHAIN LINK FENCE TO EXISTING FENCE

-RPA- SC Sta. 19+75.78

BEGIN GRADE
-RPA- CS Sta. 17+75.78
END 2" OVERLAY

BEGIN CONSTRUCTION
-RPA- STA. 15+27.55
BEGIN 2" OVERLAY

100' TAPER TO EXISTING

-RPA- POT Sta. 10+00.00
-L- POT Sta. 64+01.80 (66.4' LT)

-RPA- PC Sta. 13+23.04

-L- POT Sta. 65+58.99

N 67° 39' 55.4" W

S 70° 22' 45.5" E

END TIP PROJECT I-5716
-L- STA 59+00.00

ANN B BANKS AND DEBORAH BEAL DELLINGER+ DB 1997 PG 99

DUKE ENERGY CAROLINAS, LLC DB 792 PG 559

BRET J WHITCOMB AND WIFE PEGGY S WHITCOMB DB 2709 PG 1518

REMOVE EXIST. PVMT

SPEC. LATERAL 'V' DITCH SEE DETAIL 6

RETAIN 24" CMP

RETAIN DI

RETAIN 15" RCP

RETAIN 30" CMP

RETAIN 36" CMP

RETAIN

BL-13

BL-14

I-40 WESTBOUND 37.7' BST

I-40 EASTBOUND 37.7' BST

18" CONC C&G

FLAG POLES

3-FLAG POLES

30" CONC C&G

24" CONC C&G

48" CHL

RIPRAP

(COULD NOT FIND OUTLET)

(APPROX PER PLAN)

OTCB (NO ACCESS)

BM#6

4/29/2026
X:\PROJECTS\114-568 - NCDOT- I-5716 I-40 Lenoir-Rhyne Interchange\05-CAD\I5716\Roadway\Proj\I5716_Rdy_psh07.dgn
acorrea