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5/14/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-4753	15
R/W SHEET NO.	

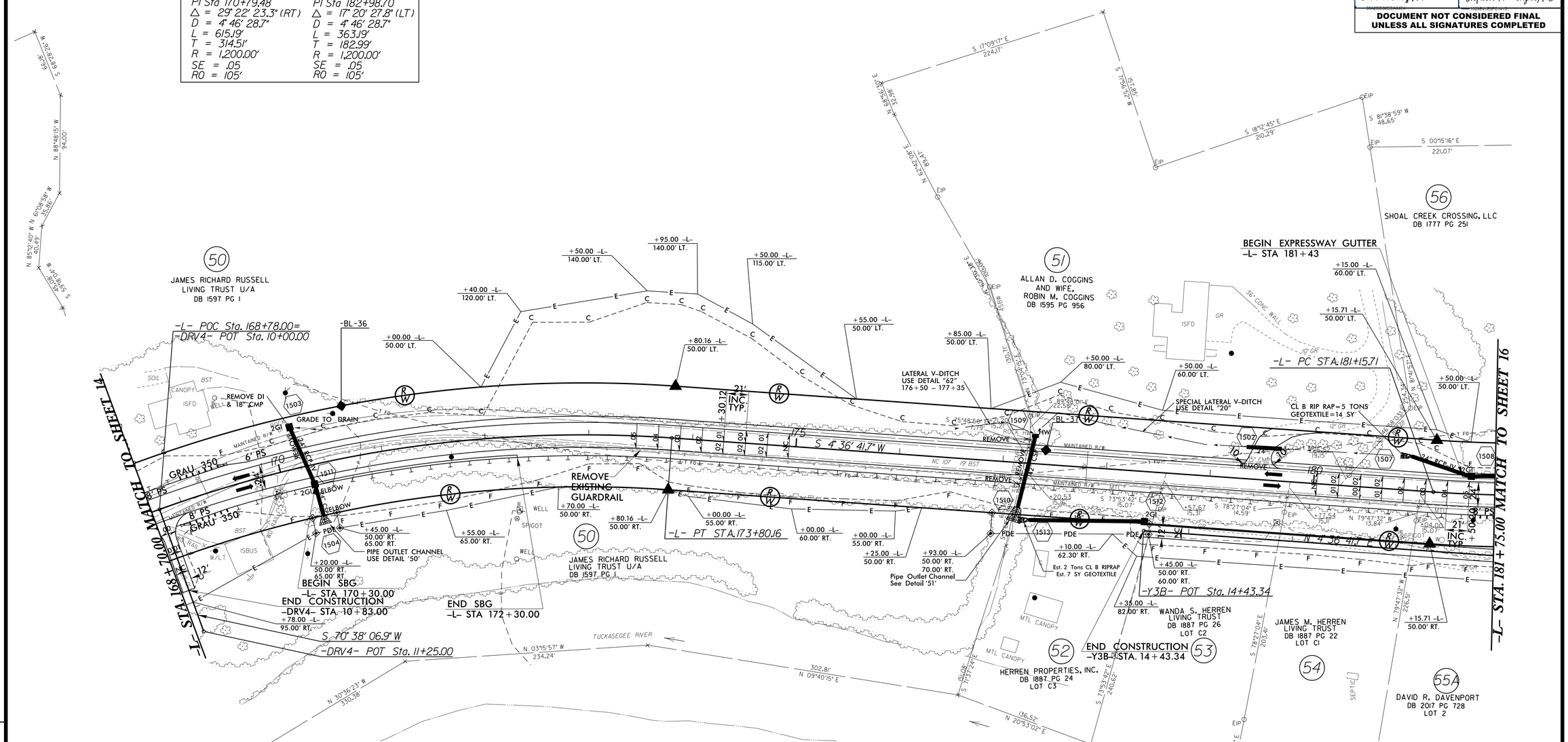
ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 035683 ENGINEER DAVID J. CLODFO
11/14/2016
DocuSigned by: David J. Clodfo, PE

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 022100 ENGINEER STEPHEN R. MORGAN
11/14/2016
DocuSigned by: Stephen R. Morgan, PE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD 83/NSRS 2007

-L-	
PI Sta 170+79.48	PI Sta 182+98.70
△ = 29° 22' 23.3" (RT)	△ = 17° 20' 27.8" (LT)
D = 4° 46' 28.7"	D = 4° 46' 28.7"
L = 615.19'	L = 363.19'
T = 314.51'	T = 182.99'
R = 1,200.00'	R = 1,200.00'
SE = .05	SE = .05
RO = 105'	RO = 105'



DETAIL 50
STANDARD BASE DITCH
(Not to Scale)

Natural Ground, 2:1, D, d, 2:1, Natural Ground, Geotextile, B
Min. D = 2 Ft.
Max. d = 1.5 Ft.
B = 2 Ft.

Type of Liner = Class B Rip-Rap

STA. 170+31 RT. (PIPE OUTLET)
5 TON CLASS B RIP-RAP
14 SY GEOTEXTILE
5 CU. YD. DDE

DETAIL 51
STANDARD BASE DITCH
(Not to Scale)

Natural Ground, 2:1, D, d, 2:1, Natural Ground, Geotextile, B
Min. D = 3.5 Ft.
Max. d = 1.5 Ft.
B = 3.5 Ft.

Type of Liner = Class I Rip-Rap

-L- STA. 177+26 RT. (Pipe Outlet)
20 TON CLASS I RIP-RAP
39 SY GEOTEXTILE
15 CU. YD. DDE
-Y3B- Sta. 15+88 LT. (Pipe Outlet)
20 TON CLASS I RIP-RAP
39 SY GEOTEXTILE
15 CU. YD. DDE

DETAIL 20
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

Natural Ground, 2:1, D, 4:1 or Flatter, Fill Slope
Min. D = 1 Ft.

FROM STA. 177+35 LT. TO STA. 181+00 LT.

DETAIL 62
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

Natural Ground, 2:1, d, D, 4:1 or Flatter, Fill Slope, Geotextile
Min. D = 2 Ft.
Max. d = 2 Ft.

Type of Liner = CL B Rip-Rap

FROM STA. 176+50 LT. TO STA. 177+35 LT.
20 TONS CLASS B RIP RAP
14 SY GEOTEXTILE

Note: All Driveway Radii are 20' Unless Otherwise Noted
Note: Tie all Driveways to the Right of Way Line. Follow the "Pavement Design for Driveways" Memo Dated March 18, 2002 or as Directed by the Engineer
Note: All Proposed Guardrail to Use Weathered Steel Unless Otherwise Noted

SBG = SHOULDER BERM GUTTER
SEE SHEET 24 FOR -L- PROFILE
SEE SHEET 28 FOR -Y3B- PROFILE
SEE SHEET 29 FOR -DRV4- PROFILE

Invalid expression
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