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5/14/99

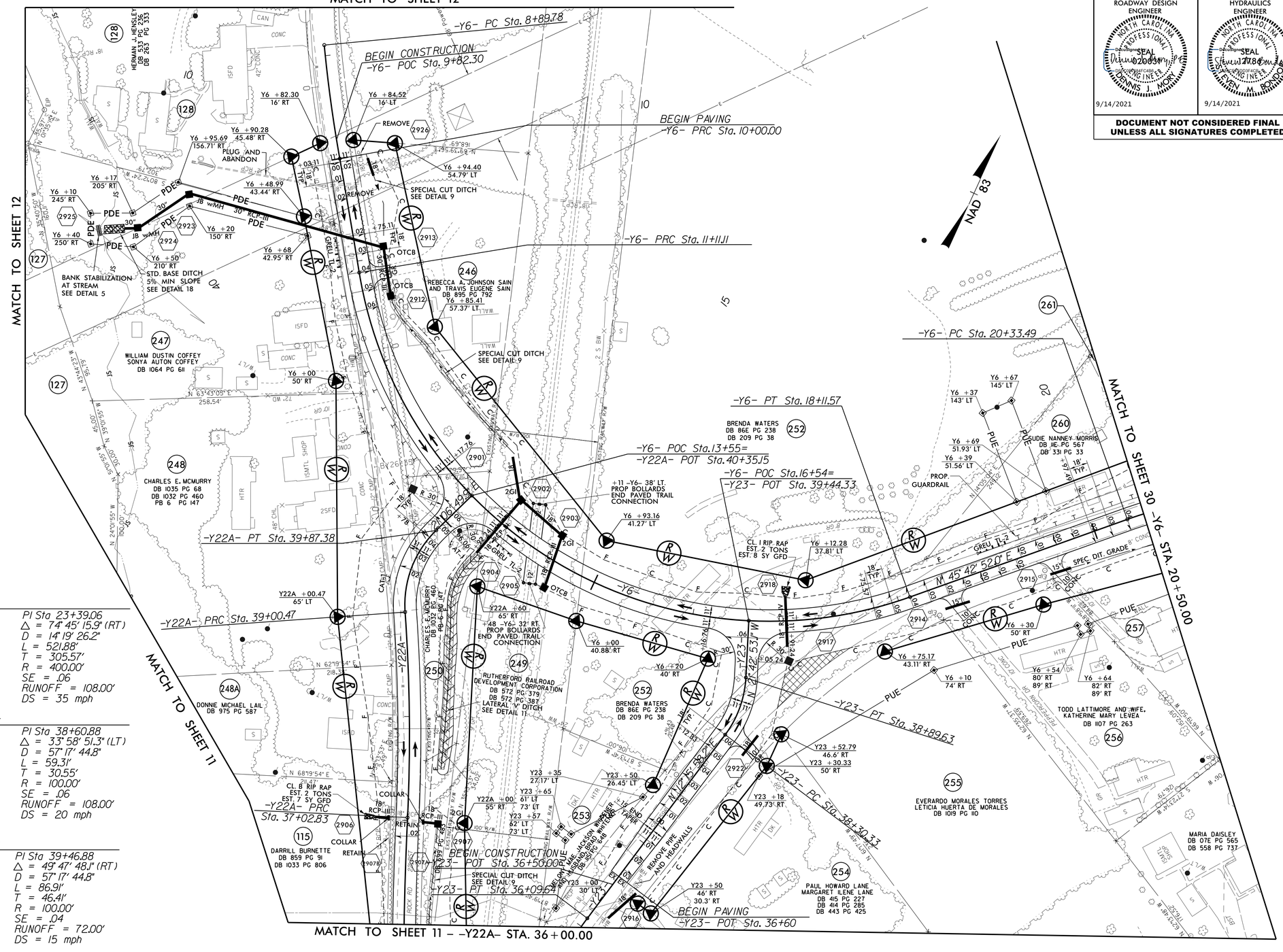
Dewberry
2610 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9929
NC COA No. P-0929

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	29
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 020034 ENGINEER DENNIS J. MORY
9/14/2021

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 27886 ENGINEER STEVEN M. BONDON
9/14/2021

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



CURVE DATA FOR -Y6-

PI Sta 10+55.56	PI Sta 15+90.64	PI Sta 23+39.06
△ = 0° 45' 51.3" (RT)	△ = 100° 20' 01.8" (LT)	△ = 74° 45' 15.9" (RT)
D = 0° 41' 16.2"	D = 14° 19' 26.2"	D = 14° 19' 26.2"
L = 111.11'	L = 700.46'	L = 521.88'
T = 55.56'	T = 479.53'	T = 305.57'
R = 8,330.00'	R = 400.00'	R = 400.00'
SE = EX.	SE = .06	SE = .06
DS = 35 mph	RUNOFF = 108.00'	RUNOFF = 108.00'
	DS = 35 mph	DS = 35 mph

CURVE DATA FOR -Y23-

PI Sta 32+45.69	PI Sta 35+18.06	PI Sta 38+60.88
△ = 4° 29' 38.6" (RT)	△ = 30° 01' 05.5" (RT)	△ = 33° 58' 51.3" (LT)
D = 1° 16' 23.7"	D = 16° 00' 15.9"	L = 59.31'
L = 352.96'	L = 187.56'	T = 30.55'
T = 176.57'	T = 95.99'	R = 100.00'
R = 4,500.00'	R = 358.00'	SE = .06
SE = EX.	SE = EX.	RUNOFF = 108.00'
DS = 35 mph	DS = 20 mph	DS = 20 mph

CURVE DATA FOR -Y22A-

PI Sta 35+65.41	PI Sta 38+01.76	PI Sta 39+46.88
△ = 4° 35' 36.2" (RT)	△ = 6° 44' 25.9" (LT)	△ = 49° 47' 48.1" (RT)
D = 1° 40' 13.6"	D = 3° 24' 37.7"	D = 57° 17' 44.8"
L = 274.98'	L = 197.64'	L = 86.91'
T = 137.56'	T = 98.94'	T = 46.41'
R = 3,430.00'	R = 1,680.00'	R = 100.00'
SE = EX.	SE = EX.	SE = .04
DS = 35 mph	DS = 35 mph	RUNOFF = 72.00'
		DS = 15 mph

CURVE DATA FOR -Y23A-

PI Sta 44+55.25	PI Sta 45+75.10	PI Sta 46+84.50	PI Sta 48+15.42
△ = 1° 32' 38.7" (RT)	△ = 6° 33' 34.4" (RT)	△ = 19° 55' 51.0" (RT)	△ = 35° 04' 00.6" (RT)
D = 1° 09' 35.4"	D = 6° 09' 39.0"	D = 17° 54' 17.8"	D = 23° 52' 23.7"
L = 133.13'	L = 106.47'	L = 111.31'	L = 146.89'
T = 66.57'	T = 53.29'	T = 56.23'	T = 75.83'
R = 4,940.00'	R = 930.00'	R = 320.00'	R = 240.00'
SE = EX.	SE = EX.	SE = EX.	SE = EX.

SEE SHEETS 75 & 76 FOR -Y6- PROFILE
SEE SHEET 77 FOR -Y22A- PROFILE
SEE SHEET 77 FOR -Y23- PROFILE
SEE SHEETS 2D-1 THRU 2D-9 FOR DRAINAGE DETAILS

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