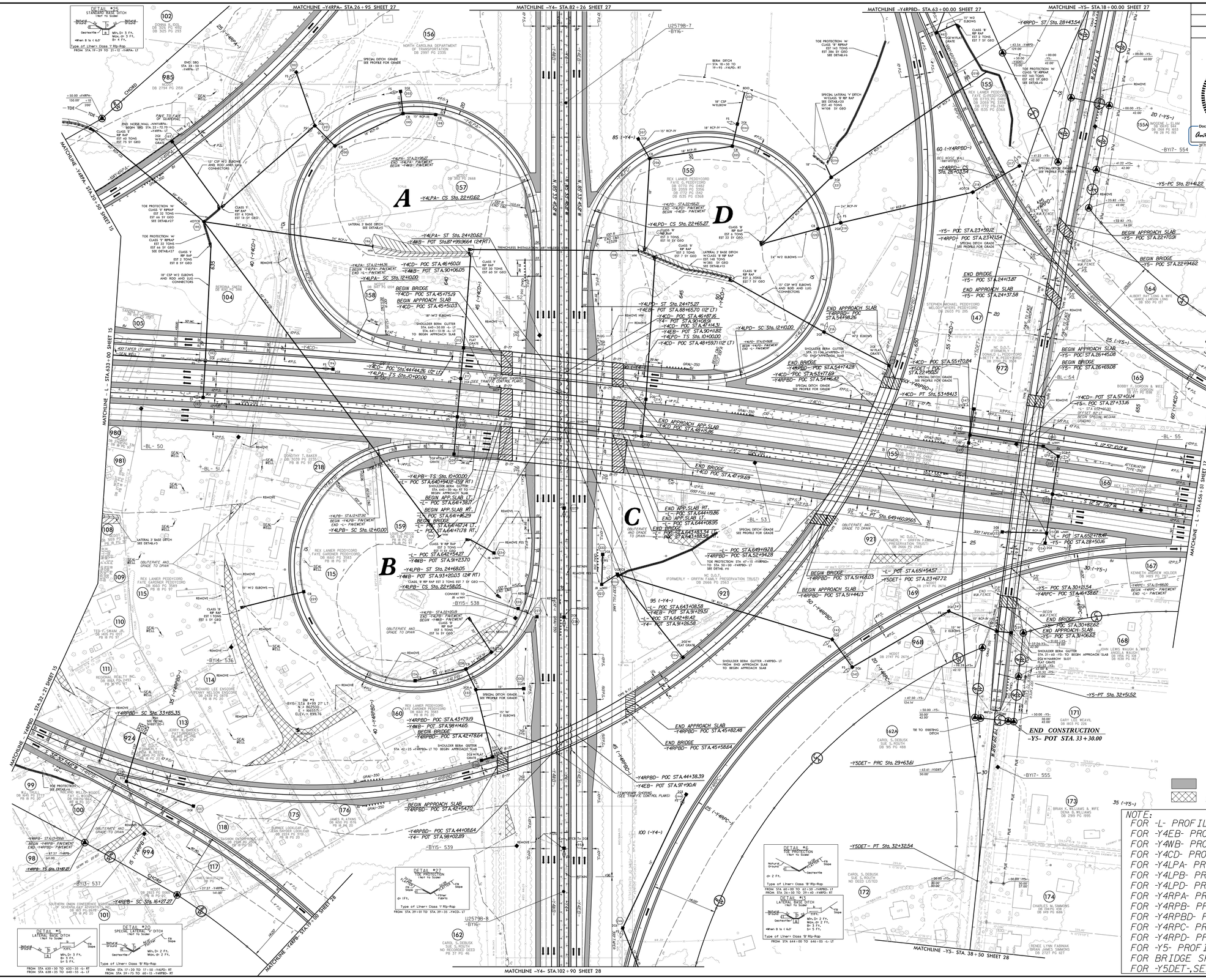
PROJECT REFERENCE NO.	SHEET NO.
U-2579B	16
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 18494 ENGINEER ANTHONY AARON HOUSE — DocuSigned by: Anthony Houser 11/2014

HYDRAULICS ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 9334 ENGINEER W. HENRY WELLS, JR. — DocuSigned by: W. Henry Wells Jr. 12/12/2014



Y4LPA		
PIs Sta 11+41.20	PI Sta 19+53.56	PIs Sta 22+81.70
Θs = 02° 57' 43.4"	Δ = 28° 49' 14.2" (RT)	Θs = 02° 57' 43.4"
Ls = 200.00'	D = 01° 52' 01.0"	Ls = 200.00'
LT = 141.20'	L = 1,000.62'	LT = 141.20'
ST = 71.09'	T = 743.56'	ST = 71.09'
	R = 262.00'	
	SE = .08	

Y4LPB		
PIs Sta 11+40.15	PI Sta 17+82.33	PIs Sta 23+29.14
Θs = 23° 19' 48.7"	Δ = 225° 1' 41.4" (LT)	Θs = 02° 57' 43.4"
Ls = 200.00'	D = 37° 52' 01.0"	Ls = 200.00'
LT = 140.15'	L = 1,046.05'	LT = 141.20'
ST = 72.25'	T = 572.33'	ST = 71.09'
	R = 262.00'	
	SE = .08	

Y4LPD		
PIs Sta 11+41.20	PI Sta 17+62.12	PIs Sta 23+36.36
Θs = 02° 57' 43.4"	Δ = 230° 46' 20.2" (LT)	Θs = 02° 57' 43.4"
Ls = 200.00'	D = 37° 52' 01.0"	Ls = 200.00'
LT = 141.20'	L = 1,055.27'	LT = 141.20'
ST = 71.09'	T = 552.12'	ST = 71.09'
	R = 262.00'	
	SE = .08	

Y4RPA		
PIs Sta 11+33.35	PI Sta 28+67.56	PIs Sta 40+08.43
Θs = 2° 59' 59.2"	Δ = 105° 18' 46.6" (LT)	Θs = 2° 59' 59.2"
Ls = 200.00'	D = 5° 59' 59.2"	Ls = 200.00'
LT = 133.35'	L = 874.14'	LT = 133.35'
ST = 66.68'	T = 1,867.56'	ST = 66.68'
	R = 1,910.00'	
	SE = .06	

Y4RPB		
PIs Sta 15+47.32	PI Sta 23+89.01	PIs Sta 31+20.86
Θs = 4° 29' 37.8"	Δ = 52° 56' 04.3" (RT)	Θs = 4° 29' 37.8"
Ls = 240.00'	D = 3° 44' 41.4"	Ls = 240.00'
LT = 160.05'	L = 1,413.54'	LT = 160.05'
ST = 80.05'	T = 756.71'	ST = 80.05'
	R = 1,530.00'	
	SE = .08	

Y4RPC		
PIs Sta 11+60.08	PI Sta 23+00.72	PIs Sta 30+59.80
Θs = 5° 43' 46.5"	Δ = 83° 03' 22.8" (LT)	Θs = 5° 43' 46.5"
Ls = 240.00'	D = 4° 46' 28.7"	Ls = 240.00'
LT = 160.08'	L = 1,739.53'	LT = 160.08'
ST = 80.08'	T = 1,062.21'	ST = 80.08'
	R = 1,200.00'	
	SE = .08	

Y4RPD		
PIs Sta 17+45.29	PI Sta 22+28.82	PIs Sta 26+43.62
Θs = 5° 43' 46.5"	Δ = 37° 05' 46.4" (RT)	Θs = 5° 43' 46.5"
Ls = 240.00'	D = 4° 46' 28.7"	Ls = 240.00'
LT = 160.08'	L = 776.34'	LT = 160.08'
ST = 80.08'	T = 403.41'	ST = 80.08'
	R = 1,200.00'	
	SE = .08	

Y4RPBD		
PIs Sta 33+05.42	PI Sta 61+52.40	PIs Sta 64+15.91
Θs = 5° 10' 10.4"	Δ = 128° 39' 24.8" (LT)	Θs = 5° 10' 10.4"
Ls = 240.00'	D = 4° 18' 28.2"	Ls = 240.00'
LT = 160.07'	L = 2,986.50'	LT = 160.07'
ST = 80.06'	R = 1,330.00'	ST = 80.06'
	SE = .06	

Y4CD		Y5
PI Sta 19+09.60	PI Sta 26+96.77	PI Sta 6+33+75.85
Δ = 6° 04' 22.8" (RT)	Δ = 5° 18' 04.7" (LT)	Δ = 11° 06' 38.0" (RT)
D = 0° 20' 49.8"	D = 0° 22' 18.9"	D = 0° 20' 51.7"
L = 1,750.60'	L = 1,110.30'	L = 3,180.25'
T = 876.46'	T = 555.55'	T = 1,595.51'
R = 16,501.00'	R = 12,000.00'	R = 16,400.00'
SE = NC	SE = NC	SE = NC

50' 25' 0 50' 100'

2010 ADT	TRAFFIC DIAGRAM	
2030 ADT	47,720 / 61,160	
DHV = 10%		
DIR = 60%	32,600	5,360
TTST = 12%	43,800	7,280
DUAL = 6%		
53,560		24,660
79,880		36,980
-L- BELTLINE	6,600	4,940
	11,800	5,420
DHV = 10%		
DIR = 60%		
TTST = 6%	21,300	
DUAL = 5%	27,300	

NOTE:
FOR -L- PROFILE, SEE SHEET 38 - 40
FOR -Y4EB- PROFILE, SEE SHEET 52
FOR -Y4WB- PROFILE, SEE SHEET 57
FOR -Y4CD- PROFILE, SEE SHEET 61-63
FOR -Y4LPA- PROFILE, SEE SHEET 66
FOR -Y4LPB- PROFILE, SEE SHEET 67
FOR -Y4LPD- PROFILE, SEE SHEET 68
FOR -Y4RPA- PROFILE, SEE SHEET 69-70
FOR -Y4RPB- PROFILE, SEE SHEET 71
FOR -Y4RPBD- PROFILE, SEE SHEET 73 - 75
FOR -Y4RPC- PROFILE, SEE SHEET 78
FOR -Y4RPD- PROFILE, SEE SHEET 80-81
FOR -Y5- PROFILE, SEE SHEET 82
FOR BRIDGE SKETCHES, SEE SHEETS 2B-3, 2B-4
FOR -Y5DET-, SEE SHEET 2B-7

REVISIONS

8/17/99

7/28/2014
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