## ALIGNMENT CURVE DATA

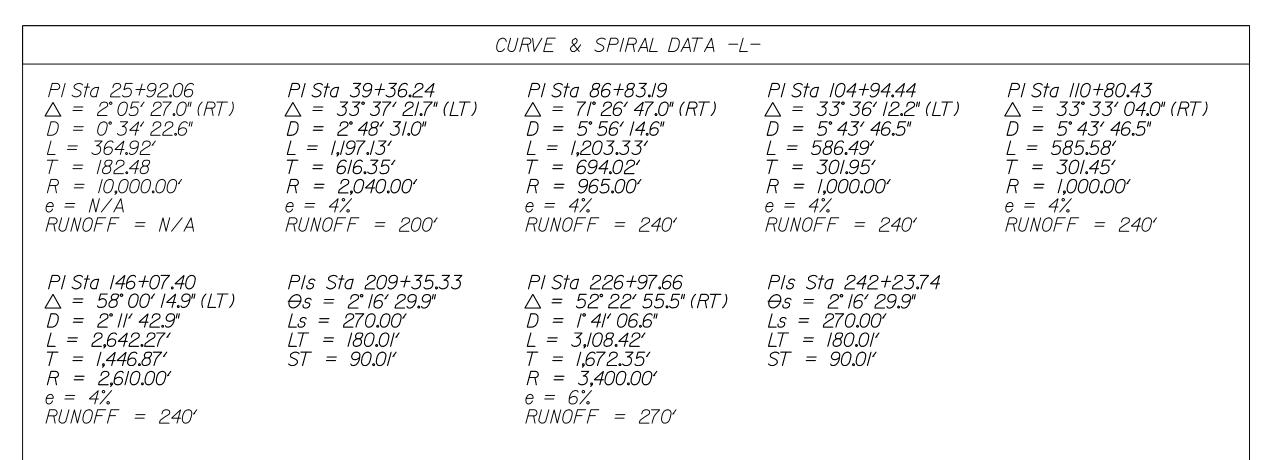
STV Engineers, Inc.
900 West Trade St., Suite 71
Charlotte, NC 28202
NC License Number F-0991

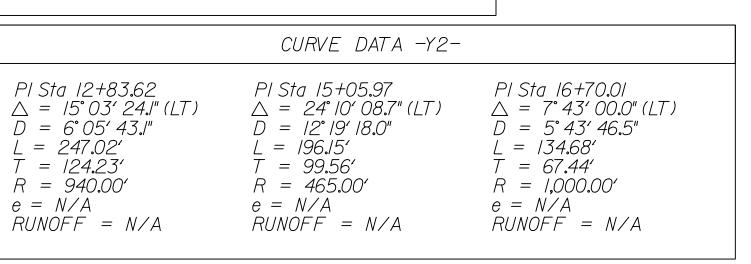
PROJECT REFERENCE NO. SHEET NO. 2B-8 U-4751

R/W SHEET NO.

ROADWAY DESIGN **ENGINEER** 

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED** 





CURVE DATA -YI-

PI Sta 79+34.58

 $D = 0^{\circ} 22' 55.1''$ 

R = 15,000.00'

RUNOFF = N/A

L = 217.74'

T = 108.87'

e = N/A

 $\triangle = 0^{\circ} 49' 54.I'' (RT)$ 

PI Sta 22+16.57

 $D = 5^{\circ} 43' 46.5''$ 

RUNOFF = 200'

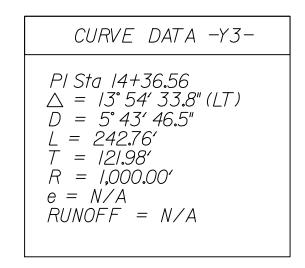
L = 432.32'

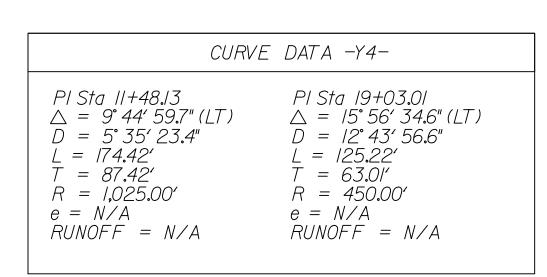
T = 2/9.59

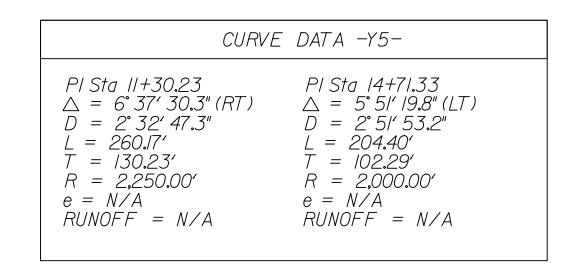
e = 4%

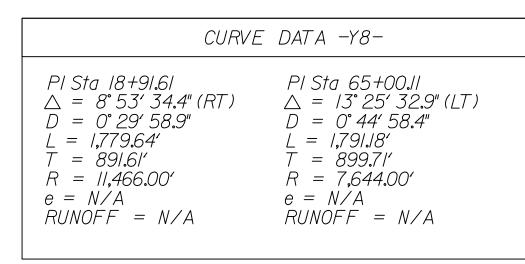
R = 1,000.00'

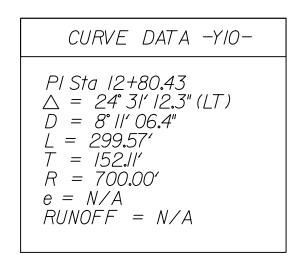
 $\triangle = 24^{\circ} 46' 11.7'' (LT)$ 

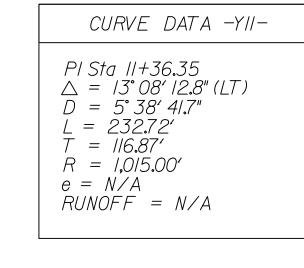


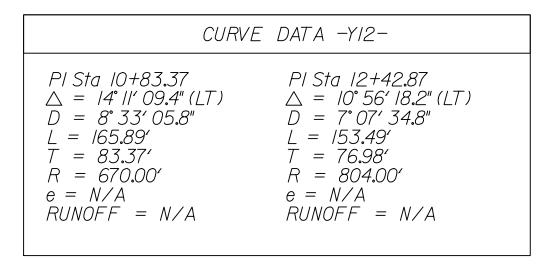


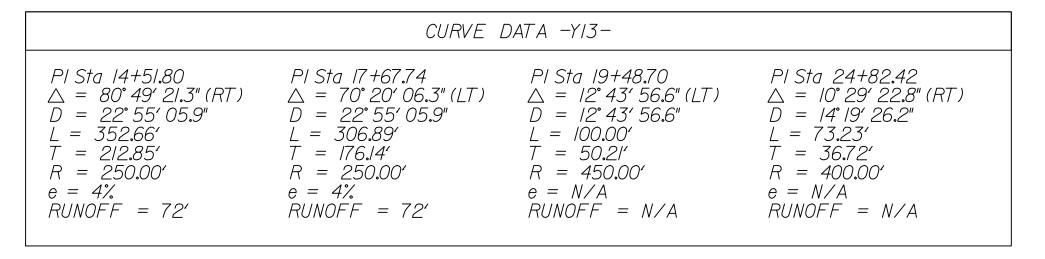


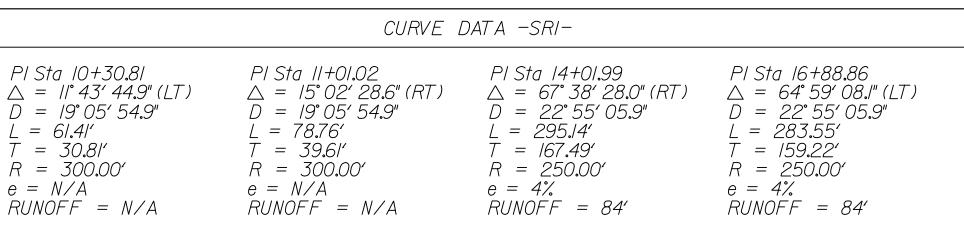


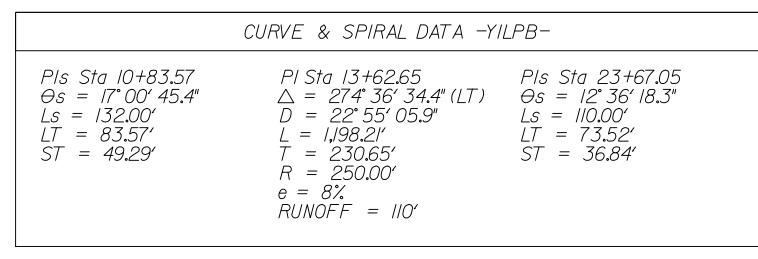












CURVE & SPIRAL DATA -YIRPA-				
PIs Sta   + 2.04	PI Sta 12+57.28 △ = 10°12′12.8″(LT) D = 5°43′46.5″ L = 178.09′ T = 89.28′ R = 1,000.00′ e = 6% RUNOFF = 168′	PIs Sta 14+02.12	PI Sta 21+03.82 △ = 90°00′00.0" (LT) D = 38°11′49.9" L = 235.62′ T = 150.00′ R = 150.00′ e = 8% RUNOFF = 184′	

CURVE & SPIRAL DATA -YIRPB-					
PIs Sta 15+82.07 Os = 5° 47′ 17.0" Ls = 198.00′ LT = 132.07′ ST = 66.06′	PI Sta 18+86.57 △ = 27° 21′ 49.4″ (RT) D = 5° 50′ 47.4″ L = 468.04′ T = 238.57′ R = 980.00′ e = 8% RUNOFF = 198′	0s = 7°14′58.8″ Ls = 248.00′	Pls Sta 25+30.74 \textit{\theta}s = 22° 37′ 34.9″ \textit{Ls} = 248.00′ \textit{LT} = 166.70′ \textit{ST} = 83.91′		
PI Sta 26+41.04 \( = 10° 33' 15.9" (LT) \( D = 18° 14' 49.4" \( L = 57.84' \( T = 29.00'\) \( R = 314.00'\) \( RUNOFF = 248'\)	PIs Sta 27+48.23 \textcaps = 21°09′59.7″ Ls = 232.00′ LT = 155.79′ ST = 78.35′	PI Sta 31+12.69 △ = 80° 00′ 00.0" (RT) D = 31° 49′ 51.6" L = 251.33′ T = 151.04′ R = 180.00′ e = NC RUNOFF = N/A			

CURVE DATA -YIRPD-				
PI Sta 12+38.87	PI Sta 28+38.51			
△ = 60° 03′ 33.1″ (LT)	△ = 86° 12′ 09.7″ (LT)			
D = 22° 55′ 05.9″	D = 11° 27′ 33.0″			
L = 262.06′	L = 752.26′			
T = 144.51′	T = 467.91′			
R = 250.00′	R = 500.00′			
e = 4½	e = 4%			
RUNOFF = 100′	RUNOFF = 100′			

	CURVE DATA -Y24-	
$PI Sta 12+02.25$ $\triangle = 74^{\circ} 39' 07.3" (RT)$ $D = 95^{\circ} 29' 34.7"$ $L = 78.18'$ $T = 45.75'$ $R = 60.00'$ $e = N/A$ $RUNOFF = N/A$	PI Sta 13+94.94 △ = 15° 17′ 19.8″ (RT) D = 28° 38′ 52.4″ L = 53.37′ T = 26.84′ R = 200.00′ e = N/A RUNOFF = N/A	PI Sta 15+II.4I △ = 18° 55′ 29.7" (LT) D = 28° 38′ 52.4" L = 66.06′ T = 33.33′ R = 200.00′ e = N/A RUNOFF = N/A