

Horizontal Alignment Review Report

Report Created: 10/8/2020
Time: 3:46pm

Project: Horizontal_Fit_Geometry

Description:

File Name:

Last Revised: CTLUCK 10/8/2020 3:45:54 PM

Input Grid Factor: 1.00000000

Note: All units in this report are in feet unless specified otherwise.

Alignment Name: Horizontal_Fit_Geometry

Alignment Description:

Alignment Style: Default

		<u>Station</u>	<u>Northing</u>	<u>Easting</u>
Element: Linear				
POB	()	0+00.00	60998.66	315695.70
PC	()	2+19.61	60998.22	315476.09
Tangential Direction:		S 89°53'07" W		
Tangential Length:		219.61		
Element: Circular				
PC	()	2+19.61	60998.22	315476.09
PI	()	3+21.87	60998.02	315373.82
CC	()		61348.22	315475.39
PT	()	4+18.60	61052.91	315287.54
Radius:		350.00	350.0130	
Delta:		32°34'28" Right		
Degree of Curvature (Arc):		16°22'13"		
Length:		198.99		
Tangent:		102.26		
Chord:		196.32		
Middle Ordinate:		14.05		
External:		14.63		
Tangent Direction:		S 89°53'07" W		
Radial Direction:		N 0°06'53" W		
Chord Direction:		N 73°49'39" W		
Radial Direction:		N 32°27'35" E		
Tangent Direction:		N 57°32'25" W		
Element: Linear				
PT	()	4+18.60	61052.91	315287.54
PC	()	4+60.59	61075.45	315252.10
Tangential Direction:		N 57°32'25" W		
Tangential Length:		42.00		
Element: Circular				

PC	()	4+60.59	61075.45	315252.10
PI	()	5+40.42	61118.29	315184.75
CC	()		60822.31	315091.09
PT	()	6+16.63	61121.99	315105.01
Radius:		300.00	299.98	
Delta:		29°48'04" Left		
Degree of Curvature (Arc):		19°05'55"		
Length:		156.04		
Tangent:		79.83		
Chord:		154.29		
Middle Ordinate:		10.09		
External:		10.44		
Tangent Direction:		N 57°32'25" W		
Radial Direction:		N 32°27'35" E		
Chord Direction:		N 72°26'27" W		
Radial Direction:		N 2°39'31" E		
Tangent Direction:		N 87°20'29" W		
Element: Linear				
PT	()	6+16.63	61121.99	315105.01
PC	()	7+53.11	61128.32	314968.67
Tangential Direction:		N 87°20'29" W		
Tangential Length:		136.48		
Element: Circular				
PC	()	7+53.11	61128.32	314968.67
PI	()	8+77.73	61134.10	314844.19
CC	()		60828.65	314954.76
PT	()	9+89.33	350.013061049.98	314752.25
Radius:		300.00		
Delta:		45°06'54" Left		
Degree of Curvature (Arc):		19°05'55"		
Length:		236.22		
Tangent:		124.62		
Chord:		230.17		
Middle Ordinate:		22.95		
External:		24.85		
Tangent Direction:		N 87°20'29" W		
Radial Direction:		N 2°39'31" E		
Chord Direction:		S 70°06'04" W		
Radial Direction:		N 42°27'23" W		
Tangent Direction:		S 47°32'37" W		
Element: Linear				
PT	()	9+89.33	61049.98	314752.25
PC	()	10+32.22	61021.03	314720.61
Tangential Direction:		S 47°32'37" W		
Tangential Length:		42.88		

Element: Circular		60968.8728739349, 314663.4418271589		
PC	()	10+32.22	61021.03	314720.61
PI	()	11+09.89	60968.60	314663.30
CC	()		61294.02	314470.85
PT	()	11+85.35	60943.64	314589.74
	Radius:	370.00	369.99	
	Delta:	23°42'47" Right		
Degree of Curvature (Arc):		15°29'07"		
	Length:	153.13		
	Tangent:	77.68		
	Chord:	152.04		
	Middle Ordinate:	7.89		
	External:	8.07		
Tangent Direction:		S 47°32'37" W		
Radial Direction:		N 42°27'23" W		
Chord Direction:		S 59°24'01" W		
Radial Direction:		N 18°44'36" W		
Tangent Direction:		S 71°15'24" W		
Element: Linear				
PT	()	11+85.35	60943.64	314589.74
PC	()	12+52.50	60922.06	314526.15
Tangential Direction:		S 71°15'24" W		
Tangential Length:		67.15		
Element: Circular		60886.135505022474, 314436.2908064162		
PC	()	12+52.50	60922.06	314526.15
PI	()	13+07.47	60904.40	314474.09
CC	()		60069.79	314815.35
PT	()	13+62.31	60880.53	314424.57
	Radius:	900.00	899.8	
	Delta:	6°59'27" Left		
Degree of Curvature (Arc):		6°21'58"		
	Length:	109.81		
	Tangent:	54.97		
	Chord:	109.74		
	Middle Ordinate:	1.67		
	External:	1.68		
Tangent Direction:		S 71°15'24" W		
Radial Direction:		N 18°44'36" W		
Chord Direction:		S 67°45'41" W		
Radial Direction:		N 25°44'03" W		
Tangent Direction:		S 64°15'57" W		
Element: Linear				
PT	()	13+62.31	60880.53	314424.57
POE	()	15+72.85	60789.11	314234.91
Tangential Direction:		S 64°15'57" W		

Tangential Length: 210.54