

# Horizontal Alignment Review Report

Report Created: Tuesday, May 23, 2023  
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**Project:** Design

**Description:**

**File Name:** c:\users\jpenix\appdata\local\bentley\projectwise\workingdir\ohiodot-pw.bentley.com\_ohiodot-pw-02\jon.penix@dot.ohio.gov\d0726831\118147\_Bel 147 2465\_FB001.dgn

**Last Revised:** 5/23/2023 15:28:25

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

**Alignment Name:** CLX\_RW\_S147

**Alignment Description:**

**Alignment Style:** Alignment\RW\_X\_Centerline

		<u>Station</u>	<u>Northing</u>	<u>Easting</u>
Element: Linear				
POT	( )	60+00.00 R1	537109.582	194272.283
PC	( )	63+76.20 R1	537158.634	193899.295
Tangential Direction:		N82°30'28.537"W		
Tangential Length:		376.200		
Element: Circular				
PC	( )	63+76.20 R1	537158.634	193899.295
HPI	( )	64+71.55 R1	537171.067	193804.760
CC	( )		536448.551	193805.910
PT	( )	65+65.78 R1	537158.333	193710.265
Radius:		716.197		
Delta:		15°10'00.000" Left		
Degree of Curvature (Arc):		08°00'00.000"		
Length:		189.583		
Tangent:		95.349		
Chord:		189.030		
Middle Ordinate:		6.264		
External:		6.319		
Back Tangent Direction:		N82°30'28.537"W		
Back Radial Direction:		N07°29'31.463"E		
Chord Direction:		S89°54'31.463"W		
Ahead Radial Direction:		N07°40'28.537"W		
Ahead Tangent Direction:		S82°19'31.463"W		
Element: Linear				
PT	( )	65+65.78 R1	537158.333	193710.265
PC	( )	68+79.68 R1	537116.413	193399.176
Tangential Direction:		S82°19'31.463"W		

Tangential Length:		313.900		
Element: Circular				
PC	( )	68+79.68 R1	537116.413	193399.176
HPI	( )	70+63.27 R1	537091.896	193217.237
CC	( )		534277.285	193781.760
PT	( )	72+46.35 R1	537044.356	193039.915
Radius:		2864.789		
Delta:		07°20'00.000" Left		
Degree of Curvature (Arc):		02°00'00.000"		
Length:		366.667		
Tangent:		183.584		
Chord:		366.416		
Middle Ordinate:		5.864		
External:		5.876		
Back Tangent Direction:		S82°19'31.463"W		
Back Radial Direction:		N07°40'28.537"W		
Chord Direction:		S78°39'31.463"W		
Ahead Radial Direction:		N15°00'28.537"W		
Ahead Tangent Direction:		S74°59'31.463"W		
Element: Linear				
PT	( )	72+46.35 R1	537044.356	193039.915
PC	( )	75+49.55 R1	536965.842	192747.057
Tangential Direction:		S74°59'31.463"W		
Tangential Length:		303.200		
Element: Circular				
PC	( )	75+49.55 R1	536965.842	192747.057
HPI	( )	76+26.21 R1	536945.990	192673.011
CC	( )		536619.958	192839.788
PT	( )	77+00.59 R1	536897.565	192613.582
Radius:		358.099		
Delta:		24°10'00.000" Left		
Degree of Curvature (Arc):		16°00'00.000"		
Length:		151.042		
Tangent:		76.661		
Chord:		149.925		
Middle Ordinate:		7.934		
External:		8.114		
Back Tangent Direction:		S74°59'31.463"W		
Back Radial Direction:		N15°00'28.537"W		
Chord Direction:		S62°54'31.463"W		
Ahead Radial Direction:		N39°10'28.537"W		
Ahead Tangent Direction:		S50°49'31.463"W		
Element: Linear				
PT	( )	77+00.59 R1	536897.565	192613.582

PC	( )	77+25.39 R1	536881.899	192594.356
Tangential Direction:		S50°49'31.463"W		
Tangential Length:		24.800		
Element: Circular				
PC	( )	77+25.39 R1	536881.899	192594.356
HPI	( )	78+62.55 R1	536795.258	192488.027
CC	( )		537040.532	192465.096
PT	( )	79+67.06 R1	536860.688	192367.481
Radius:		204.628		
Delta:		67°40'00.000" Right		
Degree of Curvature (Arc):		28°00'00.000"		
Length:		241.667		
Tangent:		137.159		
Chord:		227.865		
Middle Ordinate:		34.652		
External:		41.716		
Back Tangent Direction:		S50°49'31.463"W		
Back Radial Direction:		N39°10'28.537"W		
Chord Direction:		S84°39'31.463"W		
Ahead Radial Direction:		N28°29'31.463"E		
Ahead Tangent Direction:		N61°30'28.537"W		
Element: Linear				
PT	( )	79+67.06 R1	536860.688	192367.481
PC	( )	81+77.26 R1	536960.961	192182.740
Tangential Direction:		N61°30'28.537"W		
Tangential Length:		210.200		
Element: Circular				
PC	( )	81+77.26 R1	536960.961	192182.740
HPI	( )	85+82.18 R1	537154.126	191826.856
CC	( )		536457.398	191909.417
PT	( )	88+82.26 R1	536883.136	191525.975
Radius:		572.958		
Delta:		70°30'00.000" Left		
Degree of Curvature (Arc):		10°00'00.000"		
Length:		705.000		
Tangent:		404.927		
Chord:		661.360		
Middle Ordinate:		105.057		
External:		128.645		
Back Tangent Direction:		N61°30'28.537"W		
Back Radial Direction:		N28°29'31.463"E		
Chord Direction:		S83°14'31.463"W		
Ahead Radial Direction:		N42°00'28.537"W		
Ahead Tangent Direction:		S47°59'31.463"W		

## Element: Linear

PT	( )	88+82.26 R1	536883.136	191525.975
PC	( )	92+26.86 R1	536652.518	191269.919
Tangential Direction:		S47°59'31.463"W		
Tangential Length:		344.600		

## Element: Circular

PC	( )	92+26.86 R1	536652.518	191269.919
HPI	( )	93+30.79 R1	536582.963	191192.692
CC	( )		535588.174	192228.525
PT	( )	94+34.36 R1	536502.989	191126.315
Radius:		1432.394		
Delta:		08°18'00.000" Left		
Degree of Curvature (Arc):		04°00'00.000"		
Length:		207.500		
Tangent:		103.932		
Chord:		207.319		
Middle Ordinate:		3.756		
External:		3.766		
Back Tangent Direction:		S47°59'31.463"W		
Back Radial Direction:		N42°00'28.537"W		
Chord Direction:		S43°50'31.463"W		
Ahead Radial Direction:		N50°18'28.537"W		
Ahead Tangent Direction:		S39°41'31.463"W		

## Element: Linear

PT	( )	94+34.36 R1	536502.989	191126.315
PC	( )	99+32.16 R1	536119.938	190808.389
Tangential Direction:		S39°41'31.463"W		
Tangential Length:		497.800		

## Element: Circular

PC	( )	99+32.16 R1	536119.938	190808.389
HPI	( )	101+67.17 R1	535939.099	190658.296
CC	( )		535662.530	191359.495
PT	( )	103+86.33 R1	535704.490	190644.528
Radius:		716.197		
Delta:		36°20'00.000" Left		
Degree of Curvature (Arc):		08°00'00.000"		
Length:		454.167		
Tangent:		235.012		
Chord:		446.595		
Middle Ordinate:		35.700		
External:		37.573		
Back Tangent Direction:		S39°41'31.463"W		
Back Radial Direction:		N50°18'28.537"W		
Chord Direction:		S21°31'31.463"W		
Ahead Radial Direction:		N86°38'28.537"W		

Ahead Tangent Direction: S03°21'31.463"W

Element: Linear

PT	( )	103+86.33 R1	535704.490	190644.528
PC	( )	104+27.23 R1	535663.661	190642.131
Tangential Direction:		S03°21'31.463"W		
Tangential Length:		40.900		

Element: Circular

PC	( )	104+27.23 R1	535663.661	190642.131
HPI	( )	107+97.41 R1	535294.112	190620.443
CC	( )		535705.621	189927.164
PT	( )	111+10.56 R1	535098.083	190306.422
Radius:		716.197		
Delta:		54°40'00.000" Right		
Degree of Curvature (Arc):		08°00'00.000"		
Length:		683.333		
Tangent:		370.185		
Chord:		657.707		
Middle Ordinate:		79.963		
External:		90.013		
Back Tangent Direction:		S03°21'31.463"W		
Back Radial Direction:		N86°38'28.537"W		
Chord Direction:		S30°41'31.463"W		
Ahead Radial Direction:		N31°58'28.537"W		
Ahead Tangent Direction:		S58°01'31.463"W		

Element: Linear

PT	( )	111+10.56 R1	535098.083	190306.422
POT	( )	113+17.96 R1	534988.256	190130.488
Tangential Direction:		S58°01'31.463"W		
Tangential Length:		207.400		