

Alignment PI Station Report

Client:

MassDOT Highway Division

Prepared by:

GPI

Greenman-Pedersen, Inc.

181 Ballardvale Street

Date: 1/19/2017 11:46:01 AM

Alignment Name: BEACH ROAD

Description:

Station Range: Start: 10+00.00, End: 37+56.40

PI Station	Northing	Easting	Distance	Direction
10+00.00	165,417.5123'	1,612,664.6626'		
			1,002.579'	S59° 30' 48.00"E
20+02.58	164,908.8659'	1,613,528.6325'		
			512.615'	N56° 05' 32.00"E
24+91.49	165,194.8319'	1,613,954.0702'		
			232.658'	N55° 13' 49.02"E
27+24.15	165,327.5120'	1,614,145.1872'		
			596.584'	N44° 03' 42.00"E
33+20.52	165,756.2125'	1,614,560.0711'		
			438.297'	N61° 06' 59.26"E
37+56.40	165,967.9236'	1,614,943.8456'		

Greenman-Pedersen, Inc.

181 Ballardvale Street

Suite #202

Wilmington, Massachusetts 01887

Alignment Station and Curve Report

Client: MassDOT
Highway Division

Project Name: V:\MAX-2011041.00 - MassDOT Statewide Design & Review
Highway and Bridge\Assign #13 - Tisbury Bike Path\607411
\DWG\HD\607411_HD (CT).dwg

Project Description:

Report Date: 1/19/2017 11:34:44 AM

Prepared by: GPI

Alignment: BEACH ROAD

Description:

Description	PT Station	Tangent Data	
		Northing	Easting
Start:	10+00.000	165417.512	1612664.663
End:	18+92.388	164964.770	1613433.675

Parameter	Value	Tangent Data	
		Parameter	Value
Length:	892.388	Course:	S 59° 30' 48.0000" E

Description	Station	Curve Point Data	
		Northing	Easting
PC:	18+92.388	164964.770	1613433.675
RP:		165115.576	1613522.459
PT:	20+89.069	164970.337	1613620.084

Parameter	Value	Circular Curve Data	
		Parameter	Value
Delta:	64° 23' 40.0000"	Type:	LEFT
Radius:	175.000	DOC:	32° 44' 25.6046"
Length:	196.682	Tangent:	110.192
Mid-Ord:	26.912	External:	31.802
Chord:	186.492	Course:	N 88° 17' 22.0000" E

<u>Tangent Data</u>			
Description	PT Station	Northing	Easting
Start:	20+89.069	164970.337	1613620.084
End:	24+53.883	165173.851	1613922.856
<u>Tangent Data</u>			
Parameter	Value	Parameter	Value
Length:	364.813	Course:	N 56° 05' 32.0000" E
<u>Curve Point Data</u>			
Description	Station	Northing	Easting
PC:	24+53.883	165173.851	1613922.856
RP:		169323.534	1611133.567
PT:	25+29.101	165216.280	1613984.965
<u>Circular Curve Data</u>			
Parameter	Value	Parameter	Value
Delta:	00° 51' 42.9755"	Type:	LEFT
Radius:	5000.000	DOC:	01° 08' 45.2962"
Length:	75.218	Tangent:	37.610
Mid-Ord:	0.141	External:	0.141
Chord:	75.218	Course:	N 55° 39' 40.5123" E
<u>Tangent Data</u>			
Description	PT Station	Northing	Easting
Start:	25+29.101	165216.280	1613984.965
End:	26+89.928	165307.996	1614117.076
<u>Tangent Data</u>			
Parameter	Value	Parameter	Value
Length:	160.827	Course:	N 55° 13' 49.0245" E
<u>Curve Point Data</u>			
Description	Station	Northing	Easting
PC:	26+89.928	165307.996	1614117.076
RP:		165595.504	1613917.478
PT:	27+58.153	165352.103	1614168.986
<u>Circular Curve Data</u>			
Parameter	Value	Parameter	Value
Delta:	11° 10' 07.0245"	Type:	LEFT
Radius:	350.000	DOC:	16° 22' 12.8023"
Length:	68.225	Tangent:	34.221
Mid-Ord:	1.661	External:	1.669
Chord:	68.117	Course:	N 49° 38' 45.5122" E

<u>Tangent Data</u>			
Description	PT Station	Northing	Easting
Start:	27+58.153	165352.103	1614168.986
End:	31+57.082	165638.770	1614446.413
<u>Tangent Data</u>			
Parameter	Value	Parameter	Value
Length:	398.929	Course:	N 44° 03' 42.0000" E
<u>Curve Point Data</u>			
Description	Station	Northing	Easting
PC:	31+57.082	165638.770	1614446.413
RP:		164880.749	1615229.678
PT:	34+81.534	165835.156	1614703.175
<u>Circular Curve Data</u>			
Parameter	Value	Parameter	Value
Delta:	17° 03' 17.2640"	Type:	RIGHT
Radius:	1090.000	DOC:	05° 15' 23.3769"
Length:	324.452	Tangent:	163.434
Mid-Ord:	12.050	External:	12.185
Chord:	323.255	Course:	N 52° 35' 20.6320" E
<u>Tangent Data</u>			
Description	PT Station	Northing	Easting
Start:	34+81.534	165835.156	1614703.175
End:	37+56.397	165967.924	1614943.846
<u>Tangent Data</u>			
Parameter	Value	Parameter	Value
Length:	274.863	Course:	N 61° 06' 59.2640" E