

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	TOTAL
		Tazewell	43	15

03-00123-03-BT CONTRACT # 89302

HORIZONTAL ALIGNMENT DATA 1 OF 6

Beginning chain CL description

Point 20000 N 1,457,360.5549 E 2,459,974.7645 Sta 10+00.00

Course from 20000 to PC CL-1 S 30° 55' 05.78" W Dist 12.8839

Curve Data

Curve CL-1
P.I. Station = 10+43.67 N 1,457,323.0939 E 2,459,952.3284
Delta = 91° 28' 26.64" (RT)
Degree = 190° 59' 09.35"
Tangent = 30.7819
Length = 47.8957
Radius = 30.0000
External = 12.9829
Long Chord = 42.9686
Mid. Ord. = 9.0614
P.C. Station = 10+12.88 N 1,457,349.5018 E 2,459,968.1446
P.T. Station = 10+60.78 N 1,457,339.5842 E 2,459,926.3361
C.C. = 10+36.83 N 1,457,364.9162 E 2,459,942.4075
Back = S 30° 55' 05.78" W
Ahead = N 57° 36' 27.58" W
Chord Bear = S 76° 39' 19.10" W

Course from PT CL-1 to 20001 N 57° 36' 27.58" W Dist 175.0594

Point 20001 N 1,457,433.3660 E 2,459,778.5160 Sta 12+35.84

Course from 20001 to 20002 N 52° 09' 51.22" W Dist 21.9139

Point 20002 N 1,457,446.8080 E 2,459,761.2090 Sta 12+57.75

Course from 20002 to 20003 N 55° 24' 31.38" W Dist 16.1876

Point 20003 N 1,457,455.9980 E 2,459,747.8830 Sta 12+73.94

Course from 20003 to 20004 N 56° 28' 26.49" W Dist 22.2735

Point 20004 N 1,457,468.3000 E 2,459,729.3150 Sta 12+96.21

Course from 20004 to 20005 N 64° 29' 21.15" W Dist 15.2642

Point 20005 N 1,457,474.8740 E 2,459,715.5390 Sta 13+11.48

Course from 20005 to 20006 N 67° 11' 17.60" W Dist 21.7253

Point 20006 N 1,457,483.2970 E 2,459,695.5130 Sta 13+33.20

Course from 20006 to 20007 N 69° 19' 25.20" W Dist 10.5922

Point 20007 N 1,457,487.0370 E 2,459,685.6030 Sta 13+43.80

Course from 20007 to 21002 N 64° 48' 40.27" W Dist 133.7642

Equation: Sta 14+77.56 (BK) = Sta 14+73.15 (AH)

End Region 1
Begin Region 2

Point 21002 N 1,457,543.9674 E 2,459,564.5584 Sta 14+73.15

Course from 21002 to 20009 N 43° 13' 13.06" E Dist 15.0448

Point 20009 N 1,457,554.9310 E 2,459,574.8612 Sta 14+88.19

Course from 20009 to 20010 N 39° 41' 46.79" E Dist 55.4408

Point 20010 N 1,457,597.5894 E 2,459,610.2723 Sta 15+43.64

Course from 20010 to PC CL-2 N 41° 08' 37.09" E Dist 20.0192

Curve Data

Curve CL-2
P.I. Station = 15+75.91 N 1,457,621.8935 E 2,459,631.5067
Delta = 13° 58' 22.87" (RT)
Degree = 57° 17' 44.81"
Tangent = 12.2546
Length = 24.3875
Radius = 100.0000
External = 0.7481
Long Chord = 24.3271
Mid. Ord. = 0.7425
P.C. Station = 15+63.65 N 1,457,612.6651 E 2,459,623.4439
P.T. Station = 15+88.04 N 1,457,628.9020 E 2,459,641.5594
C.C. = 15+75.84 N 1,457,546.8702 E 2,459,698.7501
Back = N 41° 08' 37.09" E
Ahead = N 55° 06' 59.96" E
Chord Bear = N 48° 07' 48.52" E

Course from PT CL-2 to PC CL-3 N 55° 06' 59.96" E Dist 42.6349

HORIZONTAL ALIGNMENT DATA 2 OF 6

Curve Data

Curve CL-3
P.I. Station = 16+36.57 N 1,457,656.6543 E 2,459,681.3661
Delta = 6° 44' 33.87" (LT)
Degree = 57° 17' 44.81"
Tangent = 5.8910
Length = 11.7683
Radius = 100.0000
External = 0.1734
Long Chord = 11.7615
Mid. Ord. = 0.1731
P.C. Station = 16+30.68 N 1,457,653.2852 E 2,459,676.5336
P.T. Station = 16+42.45 N 1,457,660.5675 E 2,459,685.7695
C.C. = 16+36.57 N 1,457,656.6543 E 2,459,681.3661
Back = N 55° 06' 59.96" E
Ahead = N 48° 22' 26.08" E
Chord Bear = N 51° 44' 43.02" E

Course from PT CL-3 to 20011 N 48° 22' 26.08" E Dist 26.0128

Point 20011 N 1,457,677.8469 E 2,459,705.2140 Sta 16+68.46

Course from 20011 to 20012 N 49° 36' 33.41" E Dist 39.6476

Point 20012 N 1,457,703.5385 E 2,459,735.4113 Sta 17+08.11

Course from 20012 to PC CL-4 N 52° 46' 46.61" E Dist 30.7026

Curve Data

Curve CL-4
P.I. Station = 17+93.97 N 1,457,755.4751 E 2,459,803.7849
Delta = 95° 37' 05.21" (LT)
Degree = 114° 35' 29.61"
Tangent = 55.1598
Length = 83.4425
Radius = 50.0000
External = 24.4487
Long Chord = 74.0911
Mid. Ord. = 16.4198
P.C. Station = 17+38.81 N 1,457,722.1099 E 2,459,759.8603
P.T. Station = 18+22.25 N 1,457,795.9224 E 2,459,766.2798
C.C. = 17+93.97 N 1,457,755.4751 E 2,459,803.7849
Back = N 52° 46' 46.61" E
Ahead = N 42° 50' 18.60" W
Chord Bear = N 4° 58' 14.01" E

Course from PT CL-4 to PC CL-5 N 42° 50' 18.60" W Dist 203.3185

Curve Data

Curve CL-5
P.I. Station = 21+13.13 N 1,458,009.2193 E 2,459,568.4982
Delta = 19° 52' 00.93" (LT)
Degree = 11° 27' 32.96"
Tangent = 87.5649
Length = 173.3716
Radius = 500.0000
External = 7.6097
Long Chord = 172.5044
Mid. Ord. = 7.4956
P.C. Station = 20+25.57 N 1,457,945.0103 E 2,459,628.0366
P.T. Station = 21+98.94 N 1,458,049.3736 E 2,459,490.6827
C.C. = 21+13.13 N 1,458,009.2193 E 2,459,568.4982
Back = N 42° 50' 18.60" W
Ahead = N 62° 42' 19.53" W
Chord Bear = N 52° 46' 19.06" W

Course from PT CL-5 to PC CL-6 N 62° 42' 19.53" W Dist 86.1278

Curve Data

Curve CL-6
P.I. Station = 23+01.74 N 1,458,096.5140 E 2,459,399.3287
Delta = 36° 52' 50.88" (LT)
Degree = 114° 35' 29.61"
Tangent = 16.6720
Length = 32.1846
Radius = 50.0000
External = 2.7063
Long Chord = 31.6318
Mid. Ord. = 2.5673
P.C. Station = 22+85.07 N 1,458,088.8688 E 2,459,414.1444
P.T. Station = 23+17.25 N 1,458,093.7376 E 2,459,382.8895
C.C. = 23+01.74 N 1,458,096.5140 E 2,459,399.3287
Back = N 62° 42' 19.53" W
Ahead = S 80° 24' 49.59" W
Chord Bear = N 81° 08' 44.97" W

HORIZONTAL ALIGNMENT DATA 3 OF 6

Curve Data

Curve CL-7
P.I. Station = 23+59.65 N 1,458,086.6775 E 2,459,341.0870
Delta = 8° 21' 40.15" (LT)
Degree = 9° 52' 43.15"
Tangent = 42.3946
Length = 84.6386
Radius = 579.9958
External = 1.5473
Long Chord = 84.5635
Mid. Ord. = 1.5432
P.C. Station = 23+17.25 N 1,458,093.7376 E 2,459,382.8895
P.T. Station = 24+01.89 N 1,458,073.6139 E 2,459,300.7553
C.C. = 23+59.65 N 1,458,086.6775 E 2,459,341.0870
Back = S 80° 24' 49.59" W
Ahead = S 72° 03' 09.44" W
Chord Bear = S 76° 13' 59.51" W

Course from PT CL-7 to 20013 N 25° 36' 54.72" W Dist 10.6131

Point 20013 N 1,458,083.1840 E 2,459,296.1670 Sta 24+12.51

Course from 20013 to 20014 N 25° 36' 53.60" W Dist 50.0000

Point 20014 N 1,458,128.2700 E 2,459,274.5510 Sta 24+62.51

Course from 20014 to PC CL-8 N 25° 36' 53.56" W Dist 159.0280

Curve Data

Curve CL-8
P.I. Station = 26+92.91 N 1,458,336.0286 E 2,459,174.9434
Delta = 9° 01' 07.30" (RT)
Degree = 6° 21' 58.31"
Tangent = 71.3744
Length = 142.4507
Radius = 900.0000
External = 2.8257
Long Chord = 142.3021
Mid. Ord. = 2.8169
P.C. Station = 26+21.53 N 1,458,271.6688 E 2,459,205.8000
P.T. Station = 27+63.98 N 1,458,404.4474 E 2,459,154.6168
C.C. = 26+92.91 N 1,458,336.0286 E 2,459,174.9434
Back = N 25° 36' 53.56" W
Ahead = N 16° 32' 46.26" W
Chord Bear = N 21° 04' 49.91" W

Course from PT CL-8 to PC CL-9 N 31° 34' 55.30" W Dist 2,040.6586

Curve Data

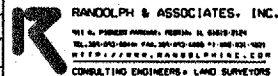
Curve CL-9
P.I. Station = 28+82.76 N 1,458,518.3050 E 2,459,120.7908
Delta = 15° 02' 09.04" (LT)
Degree = 6° 21' 57.85"
Tangent = 118.7761
Length = 236.1872
Radius = 900.0181
External = 7.8037
Long Chord = 235.5101
Mid. Ord. = 7.7366
P.C. Station = 27+63.98 N 1,458,404.4474 E 2,459,154.6168
P.T. Station = 30+00.17 N 1,458,619.4893 E 2,459,058.5856
C.C. = 28+82.76 N 1,458,518.3050 E 2,459,120.7908
Back = N 16° 32' 46.26" W
Ahead = N 31° 34' 55.30" W
Chord Bear = N 24° 03' 50.78" W

Course from PT CL-9 to PC CL-10 N 31° 34' 55.30" W Dist 2,040.6586

Curve Data

Curve CL-10
P.I. Station = 51+30.99 N 1,460,434.7160 E 2,457,942.6354
Delta = 17° 05' 29.87" (RT)
Degree = 9° 32' 57.47"
Tangent = 90.1612
Length = 178.9831
Radius = 600.0000
External = 6.7364
Long Chord = 178.3203
Mid. Ord. = 6.6616
P.C. Station = 50+40.83 N 1,460,357.9085 E 2,457,989.8544
P.T. Station = 52+19.81 N 1,460,522.0091 E 2,457,920.0754
C.C. = 51+30.99 N 1,460,434.7160 E 2,457,942.6354
Back = N 31° 34' 55.30" W
Ahead = N 14° 29' 25.43" W
Chord Bear = N 23° 02' 10.37" W

**HORIZONTAL ALIGNMENT DATA
SHEET 1 OF 2
BIKE TRAIL OVER FARM CREEK
SECTION 03-00123-03-BT
TAZEWELL COUNTY**

DESIGNED	RMB	 <p>RANDOLPH & ASSOCIATES, INC. 111 N. PULASKI AVENUE, SUITE 1100, CHICAGO, ILL. 60610 TEL: 312-329-1100 FAX: 312-329-1101 WWW.RANDOLPH-ASSOCIATES.COM</p>	FILE NUMBER
CHECKED	CWB		56.46
DRAWN	RMB		DATE
CHECKED	CWB		August 2003

1/29/2007 8:59:49 AM r:\Projects\0056\0056-033\Planes\01-2007\dgn\15-16-Horizontal_Alignment_Data.dgn