

ALIGNMENT DATA

IL. RTE. 47

Point IL471103 N 1,737,598.4008 E 959,498.2040 Sta 6177+52.78
 Course from IL471103 to PC IL47P12_08 N 0° 40' 45.79" W Dist 12,741.4935

Curve Data

Curve IL47P12_08
 P.I. Station 6313+50.83 N 1,751,195.4856 E 959,336.9685
 Delta = 46° 22' 06.04" (LT)
 Degree = 2° 51' 53.24"
 Tangent = 856.5472
 Length = 1,618.5606
 Radius = 2,000.0000
 External = 175.7006
 Long Chord = 1,574.7520
 Mid. Ord. = 161.5117
 P.C. Station 6304+94.28 N 1,750,338.9986 E 959,347.1248
 P.T. Station 6321+12.84 N 1,751,779.1273 E 958,710.0431
 C.C. N 1,750,315.2841 E 957,347.2654
 Back = N 0° 40' 45.79" W
 Ahead = N 47° 02' 51.84" W
 Chord Bear = N 23° 51' 48.81" W

Course from PT IL47P12_08 to PC IL47P12_09 N 47° 02' 51.84" W Dist 1,690.5484

Curve Data

Curve IL47P12_09
 P.I. Station 6346+53.30 N 1,753,510.1656 E 956,850.6285
 Delta = 46° 02' 47.39" (RT)
 Degree = 2° 51' 53.24"
 Tangent = 849.9075
 Length = 1,607.3260
 Radius = 2,000.0000
 External = 173.0952
 Long Chord = 1,564.4184
 Mid. Ord. = 159.3075
 P.C. Station 6338+03.39 N 1,752,931.0481 E 957,472.6942
 P.T. Station 6354+10.72 N 1,754,359.9434 E 956,835.7773
 C.C. N 1,754,394.8913 E 958,835.4719
 Back = N 47° 02' 51.84" W
 Ahead = N 1° 00' 04.45" W
 Chord Bear = N 24° 01' 28.14" W

Course from PT IL47P12_09 to PC IL47P12_10 N 1° 00' 04.45" W Dist 3,023.4923

Curve Data

Curve IL47P12_10
 P.I. Station 6387+95.59 N 1,757,744.3020 E 956,776.6301
 Delta = 4° 08' 21.64" (LT)
 Degree = 0° 34' 22.65"
 Tangent = 361.3831
 Length = 722.4518
 Radius = 10,000.0000
 External = 6.5278
 Long Chord = 722.2947
 Mid. Ord. = 6.5235
 P.C. Station 6384+34.21 N 1,757,382.9741 E 956,782.9449
 P.T. Station 6391+56.66 N 1,758,104.2316 E 956,744.2503
 C.C. N 1,757,208.2344 E 946,784.4717
 Back = N 1° 00' 04.45" W
 Ahead = N 5° 08' 26.09" W
 Chord Bear = N 3° 04' 15.27" W

IL. RTE. 47 (CONT.)

Curve Data

Curve IL47P12_11
 P.I. Station 6395+34.89 N 1,758,480.9358 E 956,710.3614
 Delta = 4° 19' 55.49" (RT)
 Degree = 0° 34' 22.65"
 Tangent = 378.2255
 Length = 756.0906
 Radius = 9,999.9999
 External = 7.1502
 Long Chord = 755.9105
 Mid. Ord. = 7.1451
 P.C. Station 6391+56.66 N 1,758,104.2316 E 956,744.2503
 P.T. Station 6399+12.75 N 1,758,859.1236 E 956,705.0244
 C.C. N 1,759,000.2287 E 966,704.0288
 Back = N 5° 08' 26.09" W
 Ahead = N 0° 48' 30.60" W
 Chord Bear = N 2° 58' 28.34" W

Course from PT IL47P12_11 to PC IL47P12_12 N 0° 48' 30.60" W Dist 442.7809

Curve Data

Curve IL47P12_12
 P.I. Station 6407+44.53 N 1,759,690.8221 E 956,693.2876
 Delta = 4° 27' 19.33" (RT)
 Degree = 0° 34' 22.65"
 Tangent = 389.0004
 Length = 777.6088
 Radius = 10,000.0000
 External = 7.5632
 Long Chord = 777.4129
 Mid. Ord. = 7.5575
 P.C. Station 6403+55.53 N 1,759,301.8604 E 956,698.7766
 P.T. Station 6411+33.14 N 1,760,079.0348 E 956,718.0307
 C.C. N 1,759,442.9655 E 966,697.7810
 Back = N 0° 48' 30.60" W
 Ahead = N 3° 38' 48.73" E
 Chord Bear = N 1° 25' 09.07" E

Curve Data

Curve IL47P12_13
 P.I. Station 6415+45.53 N 1,760,490.5873 E 956,744.2614
 Delta = 4° 43' 22.57" (LT)
 Degree = 0° 34' 22.65"
 Tangent = 412.3875
 Length = 824.3080
 Radius = 10,000.0000
 External = 8.4996
 Long Chord = 824.0746
 Mid. Ord. = 8.4923
 P.C. Station 6411+33.14 N 1,760,079.0348 E 956,718.0307
 P.T. Station 6419+57.45 N 1,760,902.9021 E 956,736.5168
 C.C. N 1,760,715.1042 E 946,738.2804
 Back = N 3° 38' 48.73" E
 Ahead = N 1° 04' 33.84" W
 Chord Bear = N 1° 17' 07.45" E

IL. RTE. 47 (CONT.)

Curve Data

Curve IL47P12_14
 P.I. Station 6425+54.05 N 1,761,499.4018 E 956,725.3127
 Delta = 2° 16' 19.90" (RT)
 Degree = 0° 11' 25.63"
 Tangent = 596.6050
 Length = 1,193.0535
 Radius = 30,084.0855
 External = 5.9151
 Long Chord = 1,192.9753
 Mid. Ord. = 5.9140
 P.C. Station 6419+57.45 N 1,760,902.9021 E 956,736.5168
 P.T. Station 6431+50.50 N 1,762,095.8768 E 956,737.7668
 C.C. N 1,761,467.8750 E 986,815.2969
 Back = N 1° 04' 33.84" W
 Ahead = N 1° 11' 46.07" E
 Chord Bear = N 0° 03' 36.11" E

Course from PT IL47P12_14 to PC IL47P12_15 N 1° 11' 46.07" E Dist 4,286.3659

Curve Data

Curve IL47P12_15
 P.I. Station 6478+63.12 N 1,766,807.4726 E 956,836.1422
 Delta = 1° 25' 56.89" (LT)
 Degree = 0° 10' 04.94"
 Tangent = 426.2568
 Length = 852.4692
 Radius = 34,097.0000
 External = 2.6643
 Long Chord = 852.4470
 Mid. Ord. = 2.6641
 P.C. Station 6474+36.87 N 1,766,381.3087 E 956,827.2442
 P.T. Station 6482+89.34 N 1,767,233.7258 E 956,834.3840
 C.C. N 1,767,093.0796 E 922,737.6740
 Back = N 1° 11' 46.07" E
 Ahead = N 0° 14' 10.82" W
 Chord Bear = N 0° 28' 47.62" E

Course from PT IL47P12_15 to PC IL47P12_16 N 0° 14' 10.82" W Dist 9,377.2179

Curve Data

Curve IL47P12_16
 P.I. Station 6581+24.07 N 1,777,068.3784 E 956,793.8168
 Delta = 1° 09' 36.79" (LT)
 Degree = 0° 07' 36.48"
 Tangent = 457.5184
 Length = 915.0055
 Radius = 45,186.2252
 External = 2.3162
 Long Chord = 914.9899
 Mid. Ord. = 2.3160
 P.C. Station 6576+66.56 N 1,776,610.8639 E 956,795.7040
 P.T. Station 6585+81.56 N 1,777,525.7609 E 956,782.6661
 C.C. N 1,776,424.4759 E 911,609.8632
 Back = N 0° 14' 10.82" W
 Ahead = N 1° 23' 47.61" W
 Chord Bear = N 0° 48' 59.22" W

FILE NAME =	USER NAME = bdecreane	DESIGNED - KU	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 47 ALIGNMENT DATA			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
V:\3195\66884 (North Section)\CADD Sheets\319566884-sh1-ATB-07.dgn		DRAWN - KU	REVISED -									
SHT_PLAN	PLOT SCALE = 400.0000' / in.	CHECKED - ST	REVISED -			SCALE: N.T.S	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.			
	PLOT DATE = 7/14/2014	DATE - 7/01/2014	REVISED -									