

Curve Data

Curve SBR5
P.I. Station 63+75.30 N 2,062,742.1651 E 1,086,538.2089
Delta = 1° 11' 48.67" (RT)
Degree = 0° 15' 00.35"
Tangent = 239.2854'
Length = 478.5534'
Radius = 22,909.3120'
External = 1.2496'
Long Chord = 478.5447'
Mid. Ord. = 1.2496'
P.C. Station 61+36.02 N 2,062,958.5380 E 1,086,640.3866
P.T. Station 66+14.57 N 2,062,527.9736 E 1,086,431.5341
C.C. N 2,072,741.0791 E 1,065,924.7291

Course from PT SBR5 to PC SBR6 S 26° 28' 29.67" W Dist 415.0058'

Curve Data

Curve SBR6
P.I. Station 72+68.86 N 2,061,942.3052 E 1,086,139.8507
Delta = 1° 11' 48.53" (RT)
Degree = 0° 15' 00.35"
Tangent = 239.2775'
Length = 478.5376'
Radius = 22,909.3120'
External = 1.2495'
Long Chord = 478.5289'
Mid. Ord. = 1.2495'
P.C. Station 70+29.58 N 2,062,156.4896 E 1,086,246.5221
P.T. Station 75+08.12 N 2,061,730.3955 E 1,086,028.7291
C.C. N 2,072,369.5951 E 1,065,739.7170

Course from PT SBR6 to PC SBR7 S 27° 40' 18.16" W Dist 0.0011'

Curve Data

Curve SBR7
P.I. Station 77+47.59 N 2,061,518.3077 E 1,085,917.5139
Delta = 1° 11' 48.75" (LT)
Degree = 0° 14' 59.65"
Tangent = 239.4776'
Length = 478.9378'
Radius = 22,927.3120'
External = 1.2506'
Long Chord = 478.9291'
Mid. Ord. = 1.2506'
P.C. Station 75+08.12 N 2,061,730.3945 E 1,086,028.7285
P.T. Station 79+87.05 N 2,061,303.9441 E 1,085,810.7536
C.C. N 2,051,082.8357 E 1,106,333.6818

Course from PT SBR7 to PC SBR8 S 26° 28' 29.45" W Dist 1,237.4351'

Curve Data

Curve SBR8
P.I. Station 98+41.04 N 2,059,644.3897 E 1,084,984.2398
Delta = 12° 15' 52.33" (LT)
Degree = 0° 59' 54.35"
Tangent = 616.5460'
Length = 1,228.3801'
Radius = 5,738.5780'
External = 33.0255'
Long Chord = 1,226.0363'
Mid. Ord. = 32.8365'
P.C. Station 92+24.49 N 2,060,196.2787 E 1,085,259.0990
P.T. Station 104+52.87 N 2,059,046.7092 E 1,084,832.8889
C.C. N 2,057,637.9924 E 1,090,395.8732

Course from PT SBR8 to PC SBR9 S 14° 12' 37.12" W Dist 2,059.6043'

Curve Data

Curve SBR9
P.I. Station 133+72.95 N 2,056,215.9795 E 1,084,116.0620
Delta = 45° 55' 04.18" (LT)
Degree = 2° 49' 14.81"
Tangent = 860.4765'
Length = 1,627.8420'
Radius = 2,031.2040'
External = 174.7447'
Long Chord = 1,584.6274'
Mid. Ord. = 160.9022'
P.C. Station 125+12.47 N 2,057,050.1264 E 1,084,327.2934
P.T. Station 141+40.32 N 2,055,483.9358 E 1,084,568.3140
C.C. N 2,056,551.5027 E 1,086,296.3449

Course from PT SBR9 to 54 S 31° 42' 27.06" E Dist 627.7244'

Point 54 N 2,054,949.9042 E 1,084,898.2355 Sta 147+68.04

Course from 54 to PC SBR10 S 31° 59' 00.58" E Dist 888.5650'

Curve Data

Curve SBR10
P.I. Station 157+79.48 N 2,054,092.0018 E 1,085,433.9688
Delta = 3° 41' 47.49" (RT)
Degree = 1° 30' 17.02"
Tangent = 122.8730'
Length = 245.6608'
Radius = 3,807.7190'
External = 1.9820'
Long Chord = 245.6182'
Mid. Ord. = 1.9810'
P.C. Station 156+56.60 N 2,054,196.2227 E 1,085,368.8861
P.T. Station 159+02.27 N 2,053,983.8016 E 1,085,492.1969
C.C. N 2,052,179.3695 E 1,082,139.1761

Curve Data

Curve SBR11
P.I. Station 164+65.41 N 2,053,487.9013 E 1,085,759.0662
Delta = 16° 11' 29.51" (RT)
Degree = 1° 26' 50.04"
Tangent = 563.1485'
Length = 1,118.7916'
Radius = 3,958.9855'
External = 39.8521'
Long Chord = 1,115.0725'
Mid. Ord. = 39.4550'
P.C. Station 159+02.27 N 2,053,983.8016 E 1,085,492.1969
P.T. Station 170+21.06 N 2,052,937.2547 E 1,085,877.0687
C.C. N 2,052,107.6861 E 1,082,005.9730

Course from PT SBR11 to 61 S 12° 05' 43.58" E Dist 244.3127'

Point 61 N 2,052,698.3658 E 1,085,928.2622 Sta 172+65.37

Ending chain IL21SB description

Chain IL137EB contains:
301 303 305 306 308 310 311

Beginning chain IL137EB description

Point 301 N 2,054,395.8310 E 1,084,053.7885 Sta 0+00.00

Course from 301 to 303 S 89° 51' 07.98" E Dist 314.8400'

Point 303 N 2,054,395.0189 E 1,084,368.6275 Sta 3+14.84

Course from 303 to 305 S 88° 25' 12.43" E Dist 520.1625'

Point 305 N 2,054,380.6778 E 1,084,888.5922 Sta 8+35.00

Course from 305 to 306 S 89° 51' 07.98" E Dist 349.8890'

Point 306 N 2,054,379.7753 E 1,085,238.4800 Sta 11+84.89

Course from 306 to 308 S 89° 20' 45.04" E Dist 399.9431'

Point 308 N 2,054,375.2092 E 1,085,638.3971 Sta 15+84.83

Course from 308 to 310 N 89° 13' 19.41" E Dist 584.1825'

Point 310 N 2,054,383.1407 E 1,086,222.5257 Sta 21+69.02

Course from 310 to 311 S 89° 20' 45.04" E Dist 211.5679'

Point 311 N 2,054,380.7253 E 1,086,434.0798 Sta 23+80.58

Ending chain IL137EB description

Chain IL137WB contains:
401 402 403 404 405 406 407

Beginning chain IL137WB description

Point 401 N 2,054,407.8310 E 1,084,053.8195 Sta 0+00.00

Course from 401 to 402 S 89° 51' 07.98" E Dist 334.8400'

Point 402 N 2,054,406.9673 E 1,084,388.6584 Sta 3+34.84

Course from 402 to 403 N 89° 34' 29.44" E Dist 500.0250'

Point 403 N 2,054,410.6777 E 1,084,888.6696 Sta 8+34.86

Course from 403 to 404 S 89° 51' 07.98" E Dist 350.0216'

Point 404 N 2,054,409.7748 E 1,085,238.6900 Sta 11+84.89

Course from 404 to 405 S 89° 20' 45.04" E Dist 400.0757'

Point 405 N 2,054,405.2072 E 1,085,638.7396 Sta 15+84.96

Course from 405 to 406 S 88° 46' 22.46" E Dist 540.0270'

Point 406 N 2,054,393.6424 E 1,086,178.6427 Sta 21+24.99

Course from 406 to 407 S 89° 20' 45.04" E Dist 255.5679'

Point 407 N 2,054,390.7246 E 1,086,434.1939 Sta 23+80.56

Ending chain IL137WB description

Chain MERIT contains:
2101 2102

Beginning chain MERIT description

Point 2101 N 2,062,529.2534 E 1,086,442.2250 Sta 0+00.00

Course from 2101 to 2102 N 63° 45' 03.13" W Dist 150.0000'

Point 2102 N 2,062,595.5947 E 1,086,307.6931 Sta 1+50.00

Ending chain MERIT description

FILE NAME =	USER NAME = IDOT	DESIGNED - EJM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT TIES AND BENCHMARKS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\N02901\oaddd sheets\alt-align-004.dgn		DRAWN - BK	REVISED -						330	128R-3	LAKE	518	37
PLOT SCALE = 200.0000' / IN.		CHECKED - GFL	REVISED -		CONTRACT NO. 60953								
PLOT DATE = 7/8/2011		DATE - 12/17/10	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		