

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
309	16R-2	WHITESIDE	547	34
STA.		TO STA.		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

Beginning chain SCENIC description

Point 55015 N 1,871,978.8114 E 2,355,465.3794 Sta 15+00.00
 Course from 55015 to PC SCENIC-1 N 14° 53' 08.75" E Dist 116.0442

Curve Data

Curve SCENIC-1
 P.I. Station 16+41.12 N 1,872,115.1953 E 2,355,501.6321
 Delta = 14° 17' 34.03" (LT)
 Degree = 28° 38' 52.40"
 Tangent = 25.0758
 Length = 49.8912
 Radius = 200.0000
 External = 1.5659
 Long Chord = 49.7620
 Mid. Ord. = 1.5537
 P.C. Station 16+16.04 N 1,872,090.9611 E 2,355,495.1903
 P.T. Station 16+65.94 N 1,872,140.2698 E 2,355,501.8916
 C.C. N 1,872,142.3398 E 2,355,301.9023
 Back = N 14° 53' 08.75" E
 Ahead = N 0° 35' 34.72" E
 Chord Bear = N 7° 44' 21.74" E

Course from PT SCENIC-1 to 55016 N 0° 35' 34.72" E Dist 562.5904

Point 55016 N 1,872,702.8300 E 2,355,507.7140 Sta 22+28.53

Ending chain SCENIC description

Beginning chain EXSAWYER description

Point 70004 N 1,871,150.3620 E 2,355,702.3550 Sta 2+26.15
 Course from 70004 to PC 70220 N 0° 15' 26.27" E Dist 69.2168

Curve Data

Curve 70220
 P.I. Station 4+21.14 N 1,871,345.3429 E 2,355,703.2306
 Delta = 3° 36' 06.29" (LT)
 Degree = 1° 25' 56.62"
 Tangent = 125.7661
 Length = 251.4494
 Radius = 4,000.0000
 External = 1.9767
 Long Chord = 251.4080
 Mid. Ord. = 1.9757
 P.C. Station 2+95.37 N 1,871,219.5781 E 2,355,702.6658
 P.T. Station 5+46.82 N 1,871,470.8948 E 2,355,695.8936
 C.C. N 1,871,237.5407 E 2,351,702.7062
 Back = N 0° 15' 26.27" E
 Ahead = N 3° 20' 40.02" W
 Chord Bear = N 1° 32' 36.88" W

Curve Data

Curve 70230
 P.I. Station 6+41.38 N 1,871,565.2886 E 2,355,690.3774
 Delta = 3° 21' 31.61" (RT)
 Degree = 1° 46' 35.80"
 Tangent = 94.5548
 Length = 189.0555
 Radius = 3,225.0055
 External = 1.3858
 Long Chord = 189.0285
 Mid. Ord. = 1.3852
 P.C. Station 5+46.82 N 1,871,470.8948 E 2,355,695.8936
 P.T. Station 7+35.88 N 1,871,659.8434 E 2,355,690.4010
 C.C. N 1,871,659.0369 E 2,358,915.4065
 Back = N 3° 20' 40.02" W
 Ahead = N 0° 00' 51.59" E
 Chord Bear = N 1° 39' 54.22" W

Course from PT 70230 to 70210 N 0° 00' 51.59" E Dist 264.1241

Point 70210 N 1,871,923.9675 E 2,355,690.4671 Sta 10+00.00

Ending chain EXSAWYER description

Beginning chain SYCAMOR description

Point 55005 N 1,871,892.7844 E 2,355,820.8204 Sta 5+00.00
 Course from 55005 to PC SYCAMOR-1 N 13° 18' 55.75" E Dist 129.9866

Curve Data

Curve SYCAMOR-1
 P.I. Station 7+06.49 N 1,872,093.7253 E 2,355,868.3782
 Delta = 34° 01' 49.83" (LT)
 Degree = 22° 55' 05.92"
 Tangent = 76.5055
 Length = 148.4861
 Radius = 250.0000
 External = 11.4442
 Long Chord = 146.3131
 Mid. Ord. = 10.9433
 P.C. Station 6+29.99 N 1,872,019.2765 E 2,355,850.7580
 P.T. Station 7+78.47 N 1,872,165.2848 E 2,355,841.3167
 C.C. N 1,872,076.8547 E 2,355,607.4788
 Back = N 13° 18' 55.75" E
 Ahead = N 20° 42' 54.08" W
 Chord Bear = N 3° 41' 59.16" W

Course from PT SYCAMOR-1 to PC SYCAMOR-2 N 20° 42' 54.08" W Dist 10.6161

Curve Data

Curve SYCAMOR-2
 P.I. Station 8+64.33 N 1,872,245.5957 E 2,355,810.9456
 Delta = 21° 18' 26.25" (RT)
 Degree = 14° 19' 26.20"
 Tangent = 75.2457
 Length = 148.7530
 Radius = 400.0000
 External = 7.0159
 Long Chord = 147.8973
 Mid. Ord. = 6.8949
 P.C. Station 7+89.09 N 1,872,175.2145 E 2,355,837.5615
 P.T. Station 9+37.84 N 1,872,320.8373 E 2,355,811.7234
 C.C. N 1,872,316.7026 E 2,356,211.7021
 Back = N 20° 42' 54.08" W
 Ahead = N 0° 35' 32.17" E
 Chord Bear = N 10° 03' 40.95" W

Course from PT SYCAMOR-2 to 55006 N 0° 35' 32.17" E Dist 280.4087

Point 55006 N 1,872,601.2310 E 2,355,814.6220 Sta 12+18.25

Ending chain SYCAMOR description

Beginning chain EXBISHOP description

Point 70350 N 1,871,284.7048 E 2,358,302.3410 Sta 210+00.00
 Course from 70350 to 70005 N 0° 12' 00.93" W Dist 771.3369

Point 70005 N 1,872,056.0370 E 2,358,299.6450 Sta 217+71.34

Ending chain EXBISHOP description

Beginning chain PRUS30 description

Course from PT 70340 to G290 S 75° 42' 26.22" E Dist 1,352.0617

Point G290 N 1,872,450.0400 E 2,353,632.1170 Sta 1108+45.79

Course from G290 to G300 S 75° 23' 12.08" E Dist 703.6548

Point G300 N 1,872,272.5120 E 2,354,313.0090 Sta 1115+49.45

Course from G300 to PC G310 S 75° 36' 18.27" E Dist 771.0512

Curve Data

Curve G310
 P.I. Station 1127+20.50 N 1,871,981.3839 E 2,355,447.2953
 Delta = 1° 03' 02.29" (LT)
 Degree = 0° 07' 52.80"
 Tangent = 400.0000
 Length = 799.9776
 Radius = 43,626.2787
 External = 1.8337
 Long Chord = 799.9664
 Mid. Ord. = 1.8336
 P.C. Station 1123+20.50 N 1,872,080.8255 E 2,355,059.8532
 P.T. Station 1131+20.48 N 1,871,889.0631 E 2,355,836.4956
 C.C. N 1,914,337.4652 E 2,365,905.5249
 Back = S 75° 36' 18.27" E
 Ahead = S 76° 39' 20.56" E
 Chord Bear = S 76° 07' 49.41" E

Course from PT G310 to PC G320 S 76° 39' 20.56" E Dist 53.4609

Curve Data

Curve G320
 P.I. Station 1135+73.94 N 1,871,784.4034 E 2,356,277.7134
 Delta = 0° 28' 00.78" (RT)
 Degree = 0° 03' 30.10"
 Tangent = 400.0000
 Length = 799.9956
 Radius = 98,174.9999
 External = 0.8149
 Long Chord = 799.9934
 Mid. Ord. = 0.8149
 P.C. Station 1131+73.94 N 1,871,876.7242 E 2,355,888.5131
 P.T. Station 1139+73.93 N 1,871,688.9143 E 2,356,666.1485
 C.C. N 1,776,352.3752 E 2,333,229.5337
 Back = S 76° 39' 20.56" E
 Ahead = S 76° 11' 19.77" E
 Chord Bear = S 76° 25' 20.17" E

Course from PT G320 to PC G330 S 76° 11' 19.77" E Dist 805.7940

Curve Data

Curve G330
 P.I. Station 1151+79.73 N 1,871,401.0637 E 2,357,837.0803
 Delta = 0° 13' 48.52" (RT)
 Degree = 0° 01' 43.56"
 Tangent = 400.0000
 Length = 799.9989
 Radius = 199,165.2023
 External = 0.4017
 Long Chord = 799.9984
 Mid. Ord. = 0.4017
 P.C. Station 1147+79.73 N 1,871,496.5529 E 2,357,448.6452
 P.T. Station 1155+79.73 N 1,871,304.0151 E 2,358,225.1287
 C.C. N 1,878,089.6659 E 2,309,903.3625
 Back = S 76° 11' 19.77" E
 Ahead = S 75° 57' 31.26" E
 Chord Bear = S 76° 04' 25.52" E

Course from PT G330 to PC G340 S 75° 57' 31.26" E Dist 1,591.8617

Curve Data

Curve G340
 P.I. Station 1176+71.59 N 1,870,796.4844 E 2,360,254.4878
 Delta = 0° 50' 57.56" (RT)
 Degree = 0° 05' 05.76"
 Tangent = 500.0000
 Length = 999.9817
 Radius = 67,459.2530
 External = 1.8529
 Long Chord = 999.9725
 Mid. Ord. = 1.8529
 P.C. Station 1171+71.59 N 1,870,917.7952 E 2,359,769.4273
 P.T. Station 1181+71.57 N 1,870,667.9970 E 2,360,737.6968
 C.C. N 1,805,474.1559 E 2,343,402.3600
 Back = S 75° 57' 31.26" E
 Ahead = S 75° 06' 33.69" E
 Chord Bear = S 75° 32' 02.48" E

Course from PT G340 to G135 S 77° 06' 33.69" E Dist 3,099.8781

Point G135 N 1,869,871.4060 E 2,363,733.4750 Sta 1212+71.45

Ending chain PRUS30 description

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 HORIZONTAL AND VERTICAL CONTROL
 FAP ROUTE 309 (US 30)
 SECTION 16R-2
 EAST CONTRACT
 FROM 0.2 MILE EAST OF JACKSON ST.
 TO FRENCH CREEK, WHITESIDE COUNTY

SCALE: N.T.S. DRAWN BY CAM
 DATE 07/21/05 CHECKED BY RDY