

HORIZONTAL & VERTICAL CONTROL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
.	..	HENRY	80	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

* FAP 22 (IL 78) & FAS 1247 (US 6) ** (125BR-1D) & (6BRD)

Chain RTE78 contains:
3 CUR 240 CUR 250 CUR 260 CUR 270 4

Beginning chain RTE78 description

Point 3 N 1,722,818.6068 E 2,368,441.1452 Sta 552+87.5900

Course from 3 to PC 240 359° 29' 34.0350" Dist 711.8061'

Curve Data

Curve 240
P.I. Station 561+99.6916 N 1,723,730.6727 E 2,368,433.0709
Delta = 2° 00' 10.0920" (LT)
Degree = 0° 30' 00.0464"
Tangent = 200.2956'
Length = 400.5503'
Radius = 11,458.8606'
External = 1.7504'
Long Chord = 400.5300'
Mid. Ord. = 1.7501'
P.C. Station 559+99.3961 N 1,723,530.3850 E 2,368,434.8440
P.T. Station 563+99.9464 N 1,723,930.7761 E 2,368,424.2991
C.C. N 1,723,428.9464 E 2,356,976.4324

Curve Data

Curve 250
P.I. Station 566+00.2420 N 1,724,130.8795 E 2,368,415.5274
Delta = 2° 00' 10.0916" (RT)
Degree = 0° 30' 00.0463"
Tangent = 200.2956'
Length = 400.5503'
Radius = 11,458.8612'
External = 1.7504'
Long Chord = 400.5300'
Mid. Ord. = 1.7501'
P.C. Station 563+99.9464 N 1,723,930.7761 E 2,368,424.2992
P.T. Station 568+00.4968 N 1,724,331.1672 E 2,368,413.7543
C.C. N 1,724,432.6058 E 2,379,872.1665

Course from PT 250 to PC 260 359° 29' 34.0337" Dist 6,507.9276'

Curve Data

Curve 260
P.I. Station 640+84.7244 N 1,731,615.1094 E 2,368,349.2712
Delta = 44° 13' 50.0740" (LT)
Degree = 2° 59' 57.3167"
Tangent = 776.3000'
Length = 1,474.7189'
Radius = 1,910.3340'
External = 151.7081'
Long Chord = 1,438.3725'
Mid. Ord. = 140.5467'
P.C. Station 633+08.4243 N 1,730,838.8398 E 2,368,356.1434
P.T. Station 647+83.1433 N 1,732,166.5427 E 2,367,802.8620
C.C. N 1,730,821.9286 E 2,366,445.8843

Course from PT 260 to PC 270 315° 15' 43.9539" Dist 286.9438'

Curve Data

Curve 270
P.I. Station 658+47.7481 N 1,732,922.7692 E 2,367,053.5257
Delta = 44° 18' 38.0037" (RT)
Degree = 2° 59' 59.9959"
Tangent = 777.6610'
Length = 1,477.0191'
Radius = 1,909.8600'
External = 152.2559'
Long Chord = 1,440.4852'
Mid. Ord. = 141.0141'
P.C. Station 650+70.0871 N 1,732,370.3691 E 2,367,600.8928
P.T. Station 665+47.1062 N 1,733,700.4086 E 2,367,047.7269
C.C. N 1,733,714.6497 E 2,368,957.5339

Course from PT 270 to 4 359° 34' 21.9492" Dist 23,049.3221'

Point 4 N 1,756,749.0899 E 2,366,875.8571 Sta 895+96.4283

Ending chain RTE78 description

Chain RTE6 contains:
1 CUR 200 CUR 210 CUR 220 CUR 230 2

Beginning chain RTE6 description

Point 1 N 1,724,677.1425 E 2,362,569.8999 Sta 650+00.0000

Course from 1 to PC 200 106° 33' 32.2854" Dist 3,199.8228'

Curve Data

Curve 200
P.I. Station 683+48.9028 N 1,723,722.6985 E 2,365,779.9134
Delta = 17° 35' 29.9930" (RT)
Degree = 5° 56' 48.7199"
Tangent = 149.0800'
Length = 295.8140'
Radius = 963.4617'
External = 11.4656'
Long Chord = 294.6535'
Mid. Ord. = 11.3308'
P.C. Station 681+99.8228 N 1,723,765.1866 E 2,365,637.0162
P.T. Station 684+95.6368 N 1,723,639.0094 E 2,365,903.2867
C.C. N 1,722,841.6827 E 2,365,362.4276

Course from PT 200 to PC 210 124° 09' 02.2475" Dist 104.5427'

Curve Data

Curve 210
P.I. Station 687+56.3195 N 1,723,492.6698 E 2,366,119.0184
Delta = 18° 22' 55.0189" (LT)
Degree = 5° 56' 14.5739"
Tangent = 156.1400'
Length = 309.5969'
Radius = 965.0008'
External = 12.5504'
Long Chord = 308.2708'
Mid. Ord. = 12.3892'
P.C. Station 686+00.1795 N 1,723,580.3222 E 2,365,989.8025
P.T. Station 689+09.7764 N 1,723,450.2380 E 2,366,269.2824
C.C. N 1,724,378.9226 E 2,366,531.5256

Course from PT 210 to PC 220 105° 46' 07.2910" Dist 625.4703'

Curve Data

Curve 220
P.I. Station 696+70.2087 N 1,723,243.5872 E 2,367,001.0971
Delta = 0° 55' 57.1456" (RT)
Degree = 0° 20' 43.7649"
Tangent = 134.9620'
Length = 269.9180'
Radius = 16,583.9065'
External = 0.5492'
Long Chord = 269.9150'
Mid. Ord. = 0.5491'
P.C. Station 695+35.2467 N 1,723,280.2637 E 2,366,871.2142
P.T. Station 698+05.1648 N 1,723,204.8017 E 2,367,130.3659
C.C. N 1,707,320.4655 E 2,362,364.4642

Course from PT 220 to PC 230 106° 42' 04.4451" Dist 1,234.2338'

Curve Data

Curve 230
P.I. Station 711+89.9976 N 1,722,806.8268 E 2,368,456.7814
Delta = 13° 18' 20.2155" (LT)
Degree = 4° 26' 15.0890"
Tangent = 150.5990'
Length = 299.8432'
Radius = 1,291.1653'
External = 8.7531'
Long Chord = 299.1699'
Mid. Ord. = 8.6942'
P.C. Station 710+39.3986 N 1,722,850.1061 E 2,368,312.5352
P.T. Station 713+39.2418 N 1,722,797.9068 E 2,368,607.1160
C.C. N 1,724,086.8053 E 2,368,683.5917

Course from PT 230 to 2 93° 23' 44.1844" Dist 133.8433'

Point 2 N 1,722,789.9793 E 2,368,740.7243 Sta 714+73.0851

Ending chain RTE6 description

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	1724033.8678	2364651.7762	624.7250	RTE6	671+78.8690	23.2572' RT	GPS CONTROL POINT, PIN
101	1723880.2042	2365172.6701	624.9410	RTE6	677+21.9543	22.0921' RT	GPS CONTROL POINT, PIN
104	1754871.8749	2366911.2282	613.3143	RTE78	877+19.0018	21.3725' RT	GPS CONTROL POINT, PIN
105	1755971.6140	2366859.6852	613.3824	RTE78	888+19.0946	21.9688' LT	GPS CONTROL POINT, PIN

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
119	1755341.9738	2366990.7535	618.4200	RTE78	881+88.4946	104.4009' RT	TRAVERSE STATION, PIN
120	1755332.0919	2366777.5674	618.9700	RTE78	881+80.2026	108.853' LT	TRAVERSE STATION, PIN
121	1755505.4317	2366853.2695	617.8600	RTE78	883+52.9731	31.8604' LT	TRAVERSE STATION, PIN
122	1755506.1828	2366943.4341	618.3900	RTE78	883+53.0519	58.3072' RT	TRAVERSE STATION, PIN
125	1724176.0562	2364069.4337	631.4400	RTE6	665+80.1541	52.9346' RT	GPS CONTROL POINT, PIN
126	1724203.8806	2364257.3403	632.0900	RTE6	667+52.3376	27.2896' LT	GPS CONTROL POINT, PIN

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
416	1755347.8785	2366902.4832	615.9406	RTE78	881+95.0573	16.1771' RT	ABUTMENT, CHISELED SQUARE
424	1724239.5597	2364113.2439	635.1800	RTE6	666+04.0487	20.4212' LT	NGS MONUMENT, DISK

POINT	CHAIN	STATION	OFFSET	DESCRIPTION
500	RTE6	671+52.9337	72.7349' RT	SHOULDER, PIN
501	RTE6	671+78.3036	72.3696' RT	SHOULDER, PIN
502	RTE6	672+23.5824	73.2356' RT	POWER POLE, PK NAIL
503	RTE6	676+92.4904	71.3035' RT	SHOULDER, PIN
504	RTE6	677+19.0432	73.91' RT	POWER POLE, PK NAIL
505	RTE6	677+48.3334	70.962' RT	SHOULDER, PIN
551	RTE78	876+93.3693	45.5389' RT	SHOULDER, PIN
552	RTE78	877+21.3609	46.4476' RT	POWER POLE, PK NAIL
553	RTE78	877+48.6621	45.8375' RT	SHOULDER, PIN
554	RTE78	887+89.0174	52.3602' LT	SHOULDER, PIN
555	RTE78	888+19.3794	51.9975' LT	SHOULDER, PIN
556	RTE78	888+48.4820	52.2086' LT	SHOULDER, PIN

CHAIN	CURVE	PI	CC	PC	PT
RTE6	200	200	201	202	203
RTE6	210	210	211	212	213
RTE6	220	220	221	222	223
RTE6	230	230	231	232	233
RTE78	240	240	241	242	243
RTE78	250	250	251	252	253
RTE78	260	260	261	262	263
RTE78	270	270	271	272	273

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