

EXISTING HORIZONTAL AND VERTICAL CONTROL

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	1997911.6369	2345446.8475	643.3290	EXIL78	842+82.5479	29.6797' LT	108
10	2071986.5189	2335468.7378	1079.2100	EXIL78	631+74.3047	4339.8801' LT	108
29	2034703.2863	2331364.7568	695.3960	EXIL78	231+17.5461	201.1847' LT	108
31	2012576.0958	2342622.4698	861.0480	EXIL78	1006+86.8417	28.2775' LT	108
90	1975376.4564	2347921.0162	797.4100	EXIL78	647+64.8279	5143.8811' LT	108

SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
127	2014465.0804	2341026.3453	0.0000	EXIL78	1+76.7182	21.4287' LT	SURVEY POINT
128	2019539.8183	2337078.1349	0.0000	EXIL78	66+06.5372	16.9984' LT	SURVEY POINT
137	2040801.1673	2332311.1225	0.0000	EXIL78	297+16.2328	13.5183' RT	SURVEY POINT
138	2041891.4331	2332887.2498	0.0000	EXIL78	309+47.8349	16.7900' LT	SURVEY POINT
139	2043298.4721	2334035.8037	0.0000	EXIL78	327+70.1124	15.1890' RT	SURVEY POINT
140	2044517.1746	2334422.2735	0.0000	EXIL78	340+45.4205	29.4412' LT	SURVEY POINT

Chain EXIL78 contains:
 210 CUR 1200 CUR 1210 CUR 1220 CUR 1230 CUR 1240 CUR 1250 CUR 1260 CUR 1270 CUR 1280 CUR 1290 CUR 1300 CUR 1310 CUR 1320 CUR 1330 CUR 1340 CUR 1350 CUR 1360 - CUR 1370 CUR 1380 CUR 1390 CUR 1400 CUR 1410 CUR 1420 CUR 1430 CUR 1440 CUR 145- 0 CUR 1460 CUR 1470 1473 CUR 1480 269 270 CUR 1510 273 CUR 1530 276 CUR 1550 27- 9 CUR 1570 282 CUR 1590 CUR 1600 CUR 1610 CUR 1620 CUR 1630 CUR 1640 294 CUR 16- 60 CUR 1670 299 CUR 1690 CUR 1700 CUR 1710 CUR 1720 CUR 1730 310 311 312 313 31- 4 CUR 1790 CUR 1800 319

Beginning chain EXIL78 description
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Point 210 N 1,979,741.9831 E 2,347,841.0376 Sta 636+75.2910

Course from 210 to PC 1200 0° 54' 38.8674" Dist 607.4086'

Curve Data

Curve 1470
 P.I. Station 1029+52.0827 N 2,014,234.6450 E 2,341,241.6868
 Delta = 1° 37' 14.2365" (RT)
 Degree = 0° 35' 19.0379"
 Tangent = 137.6716'
 Length = 275.3248'
 Radius = 9,733.8897'
 External = 0.9735'
 Long Chord = 275.3156'
 Mid. Ord. = 0.9734'
 S. E. = 0.000
 P.C. Station 1028+14.4111 N 2,014,130.8662 E 2,341,332.1492
 P.T. Station 1030+89.7359 N 2,014,340.9406 E 2,341,154.1957
 C.C. N 2,020,526.8892 E 2,348,669.6895

Equation: Sta 1030+89.7359 (BK) = Sta 0+00.0000 (AH) ----- End Region 1

----- Begin Region 2

Point 1473 N 2,014,340.9406 E 2,341,154.1957 Sta 0+00.0000

Curve Data

Curve 1480
 P.I. Station 1+51.3310 N 2,014,457.7825 E 2,341,058.0239
 Delta = 1° 46' 52.9729" (RT)
 Degree = 0° 35' 19.0277"
 Tangent = 150.3309'
 Length = 302.6375'
 Radius = 9,733.9362'
 External = 1.1763'
 Long Chord = 302.6253'
 Mid. Ord. = 1.1761'
 S. E. = 0.000
 P.C. Station 0+00.0000 N 2,014,340.9406 E 2,341,154.1957
 P.T. Station 3+02.6375 N 2,014,577.5576 E 2,340,965.5307
 C.C. N 2,020,526.9188 E 2,348,669.7255

Course from PT 1480 to 269 322° 19' 25.7963" Dist 1,024.8645'

Point 269 N 2,015,388.7152 E 2,340,339.1357 Sta 13+27.5021

Course from 269 to 270 322° 15' 06.2685" Dist 802.6215'

Point 270 N 2,016,023.3546 E 2,339,847.7763 Sta 21+30.1235

Course from 270 to PC 1510 322° 17' 57.6998" Dist 2,288.3665'

Curve Data

Curve 1510
 P.I. Station 48+57.0351 N 2,018,180.9326 E 2,338,180.1720
 Delta = 0° 45' 57.1840" (LT)
 Degree = 0° 05' 14.3605"
 Tangent = 438.5450'
 Length = 877.0770'
 Radius = 65,614.0909'
 External = 1.4655'
 Long Chord = 877.0705'
 Mid. Ord. = 1.4655'
 S. E. = 0.000
 P.C. Station 44+18.4901 N 2,017,833.9484 E 2,338,448.3581
 P.T. Station 52+95.5671 N 2,018,524.3010 E 2,337,907.3719
 C.C. N 1,977,708.5787 E 2,286,533.3927

Course from PT 1510 to 273 321° 32' 00.5158" Dist 699.1796'

Point 273 N 2,019,071.7388 E 2,337,472.4422 Sta 59+94.7467

Course from 273 to PC 1530 321° 28' 51.4610" Dist 3,534.3654'

Curve Data

Curve 1530
 P.I. Station 97+73.0837 N 2,022,027.9145 E 2,335,119.3896
 Delta = 26° 58' 46.8240" (RT)
 Degree = 5° 38' 01.4947"
 Tangent = 243.9717'
 Length = 478.8938'
 Radius = 1,017.0099'
 External = 28.8540'
 Long Chord = 474.4816'
 Mid. Ord. = 28.0580'
 S. E. = 0.000
 P.C. Station 95+29.1121 N 2,021,837.0307 E 2,335,271.3290
 P.T. Station 100+08.0059 N 2,022,266.9549 E 2,335,070.5852
 C.C. N 2,022,470.3987 E 2,336,067.0388

Course from PT 1530 to 276 348° 27' 38.2850" Dist 591.8503'

Point 276 N 2,022,846.8425 E 2,334,952.1908 Sta 105+99.8562

Course from 276 to PC 1550 348° 13' 51.7816" Dist 627.1230'

Curve Data

Curve 1690
 P.I. Station 309+47.5380 N 2,041,888.6020 E 2,332,888.8603
 Delta = 13° 19' 47.6819" (RT)
 Degree = 2° 49' 00.7198"
 Tangent = 237.6819'
 Length = 473.2177'
 Radius = 2,034.0253'
 External = 13.8398'
 Long Chord = 472.1512'
 Mid. Ord. = 13.7463'
 S. E. = 0.000
 P.C. Station 307+09.8561 N 2,041,679.9413 E 2,332,775.0473
 P.T. Station 311+83.0738 N 2,042,065.4006 E 2,333,047.7153
 C.C. N 2,040,705.9566 E 2,334,560.7160

Course from PT 1690 to PC 1700 41° 56' 23.8786" Dist 1,126.5395'

Curve Data

Curve 1700
 P.I. Station 325+24.5959 N 2,043,063.2859 E 2,333,944.3238
 Delta = 24° 08' 10.5258" (LT)
 Degree = 5° 41' 52.9777"
 Tangent = 214.9827'
 Length = 423.5881'
 Radius = 1,005.5332'
 External = 22.7248'
 Long Chord = 420.4630'
 Mid. Ord. = 22.2226'
 S. E. = 0.000
 P.C. Station 323+09.6133 N 2,042,903.3720 E 2,333,800.6398
 P.T. Station 327+33.2013 N 2,043,267.9729 E 2,334,010.0562
 C.C. N 2,043,575.4217 E 2,333,052.6784

Course from PT 1700 to PC 1710 17° 48' 13.3528" Dist 914.0343'

Curve Data

Curve 1710
 P.I. Station 339+82.5342 N 2,044,457.4747 E 2,334,392.0484
 Delta = 18° 58' 37.4021" (RT)
 Degree = 2° 51' 21.7132"
 Tangent = 335.2986'
 Length = 664.4554'
 Radius = 2,006.1327'
 External = 27.8274'
 Long Chord = 661.4224'
 Mid. Ord. = 27.4466'
 S. E. = 0.000
 P.C. Station 336+47.2356 N 2,044,138.2337 E 2,334,289.5286
 P.T. Station 343+11.6911 N 2,044,726.0262 E 2,334,592.8100
 C.C. N 2,043,524.8448 E 2,336,199.5867

Course from PT 1710 to PC 1720 36° 46' 50.7549" Dist 713.8902'

Ending chain EXIL78 description
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REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. HORIZ. DATE DRAWN BY CHECKED BY