

CURVE I-55 - 1

P.I. STATION 100+76.51 N 1,729,085.29 E 1,022,558.38
 DELTA = 6° 02' 01" (LT)
 DEGREE = 0° 21' 12"
 RADIUS = 16,216.85'
 TANGENT = 854.65'
 LENGTH = 1,707.71'
 EXTERNAL = 22.50'
 LONG CHORD = 1,706.92'
 MID. ORD. = 22.47'
 P.C. STATION 1092+21.86 N 1,728,230.97 E 1,022,581.86
 P.C.C. STATION 1109+29.57 N 1,729,932.41 E 1,022,445.24

CURVE I-55 - 2

P.I. STATION 1116+34.36 N 1,730,630.99 E 1,022,351.93
 DELTA = 6° 05' 15" (RT)
 DEGREE 0° 25' 56"
 RADIUS = 13,254.52'
 TANGENT = 704.79'
 LENGTH = 1,408.25'
 EXTERNAL = 18.72'
 LONG CHORD = 1,407.59'
 MID. ORD. = 18.70'
 P.C.C. STATION 1109+29.57 N 1,729,932.41 E 1,022,445.24
 P.T. STATION 1123+37.82 N 1,731,335.53 E 1,022,333.23

CURVE ARSENAL ROAD - 1

P.I. STATION 972+00.10 N 1,731,214.20 E 1,022,619.92
 DELTA = 85° 37' 04" (RT)
 DEGREE = 5° 43' 46"
 RADIUS = 1,000.00'
 TANGENT = 926.30'
 LENGTH = 1,494.31'
 EXTERNAL = 363.10'
 LONG CHORD = 1,359.11'
 MID. ORD. = 266.38'
 P.C. STATION 962+73.81 N 1,730,288.25 E 1,022,645.37
 P.C.C. STATION 977+68.12 N 1,731,310.32 E 1,023,541.22

CURVE ARSENAL ROAD - 2

P.I. STATION 978+07.29 N 1,731,314.39 E 1,023,580.18
 DELTA = 3° 00' 58" (LT)
 DEGREE = 3° 51' 02"
 RADIUS = 1,487.94'
 TANGENT = 39.17'
 LENGTH = 78.33'
 EXTERNAL = 0.52'
 LONG CHORD = 78.32'
 MID. ORD. = 0.52'
 P.C.C. STATION 977+68.12 N 1,731,310.32 E 1,023,541.22
 P.C.C. STATION 978+46.44 N 1,731,320.49 E 1,023,618.87

CURVE ARSENAL ROAD - 3

P.I. STATION 983+35.29 N 1,731,396.7357 E 1,024,101.7404
 DELTA = 7° 24' 54" (RT)
 DEGREE = 0° 45' 34"
 RADIUS = 7,544.0800'
 TANGENT = 488.8509'
 LENGTH = 976.3368'
 EXTERNAL = 15.8220'
 LONG CHORD = 975.6556'
 MID. ORD. = 15.7889'
 P.C.C. STATION 978+46.44 N 1,731,320.4945 E 1,023,618.8714
 P.T. STATION 988+22.78 N 1,731,410.0218 E 1,024,590.4107

CURVE WEST FRONTAGE CONNECTOR - 1

P.I. STATION 6004+84.50 N 1,722,753.10 E 1,022,218.86
 DELTA = 33° 02' 16" (RT)
 DEGREE = 6° 17' 22"
 RADIUS = 911.00'
 TANGENT = 270.18'
 LENGTH = 525.30'
 EXTERNAL = 39.22'
 LONG CHORD = 518.05'
 MID. ORD. = 37.60'
 S.E. RATE = 6.00%
 S.E. IN = STA. 6000+70.32 TO STA. 6002+62.32
 S.E. OUT = STA. 6006+91.62 TO STA. 6008+83.62
 P.C. STATION 6002+14.32 N 1,722,501.43 E 1,022,317.14
 P.T. STATION 6007+39.62 N 1,723,017.65 E 1,022,273.68

CURVE WEST FRONTAGE CONNECTOR - 2

P.I. STATION 6022+25.25 N 1,724,472.38 E 1,022,575.12
 DELTA = 13° 16' 51" (LT)
 DEGREE = 0° 42' 58"
 RADIUS = 8,000.00'
 TANGENT = 931.36'
 LENGTH = 1,854.37'
 EXTERNAL = 54.03'
 LONG CHORD = 1,850.22'
 MID. ORD. = 53.67'
 S.E. RATE = NORMAL CROWN
 P.C. STATION 6012+93.89 N 1,723,560.39 E 1,022,386.14
 P.T. STATION 6031+48.26 N 1,725,403.39 E 1,022,549.53

CURVE WEST FRONTAGE CONNECTOR - 3

P.I. STATION 6063+95.59 N 1,728,649.49 E 1,022,460.32
 DELTA = 2° 26' 42" (LT)
 DEGREE = 0° 21' 21"
 RADIUS = 16,100.00'
 TANGENT = 343.56'
 LENGTH = 687.01'
 EXTERNAL = 3.67'
 LONG CHORD = 686.95'
 MID. ORD. = 3.66'
 S.E. RATE = NORMAL CROWN
 P.C. STATION 6060+52.03 N 1,728,306.06 E 1,022,469.76
 P.C.C. STATION 6067+39.04 N 1,728,992.20 E 1,022,436.24

CURVE WEST FRONTAGE CONNECTOR - 4

P.I. STATION 6069+92.58 N 1,729,245.12 E 1,022,418.47
 DELTA = 33° 35' 03" (LT)
 DEGREE = 6° 49' 10"
 RADIUS = 840.18'
 TANGENT = 253.54'
 LENGTH = 492.48'
 EXTERNAL = 37.42'
 LONG CHORD = 485.46'
 MID. ORD. = 35.83'
 S.E. RATE = 6.00%
 S.E. IN = STA. 6065+95.04 TO STA. 6067+87.04
 S.E. OUT = STA. 6071+83.52 TO STA. 6073+75.52
 P.C.C. STATION 6067+39.04 N 1,728,992.20 E 1,022,436.24
 P.T. STATION 6072+31.52 N 1,729,445.98 E 1,022,263.76

CURVE WEST FRONTAGE CONNECTOR - 5

P.I. STATION 6084+79.95 N 1,730,435.06 E 1,021,501.98
 DELTA = 122° 06' 45" (RT)
 DEGREE = 16° 51' 06"
 RADIUS = 340.00'
 TANGENT = 614.80'
 LENGTH = 724.63'
 EXTERNAL = 362.55'
 LONG CHORD = 595.06'
 MID. ORD. = 175.46'
 P.C. STATION 6078+65.15 N 1,729,947.98 E 1,021,877.12
 P.T. STATION 6085+89.78 N 1,730,493.89 E 1,022,113.96

CURVE WEST FRONTAGE ROAD - 1

P.I. STATION 5015+80.03 N 1,721,612.55 E 1,022,653.71
 DELTA = 42° 50' 05" (LT)
 DEGREE = 5° 12' 31"
 RADIUS = 1,100.00'
 TANGENT = 431.47'
 LENGTH = 822.3699'
 EXTERNAL = 81.60'
 LONG CHORD = 803.35'
 MID. ORD. = 75.96'
 S.E. RATE = 5.75%
 S.E. IN = STA. 5010+08.56 TO STA. 5011+94.56
 S.E. OUT = STA. 5019+45.57 TO STA. 5020+83.57
 P.C. STATION 5011+48.56 N 1,721,181.24 E 1,022,665.56
 P.T. STATION 5019+70.93 N 1,721,920.77 E 1,022,351.78

CURVE WEST FRONTAGE ROAD - 2

P.I. STATION 5023+39.59 N 1,722,184.13 E 1,022,093.80
 DELTA = 113° 04' 44" (RT)
 DEGREE = 47° 44' 47"
 RADIUS = 120.00'
 TANGENT = 181.5'
 LENGTH = 236.83'
 EXTERNAL = 97.64'
 LONG CHORD = 200.22'
 MID. ORD. = 53.84'
 S.E. RATE = 5.00%
 S.E. IN = STA. 5020+83.57 TO STA. 5021+64.57
 S.E. OUT = STA. 5023+67.85 TO STA. 5024+81.85
 P.C. STATION 5021+58.02 N 1,722,054.43 E 1,022,220.86
 P.T. STATION 5023+94.85 N 1,722,250.18 E 1,022,262.93

FILE NAME = D:\60\C31-SHT-ATB02.dgn	USER NAME = TK1uege1	DESIGNED - ---	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENTS, TIES, AND BENCHMARKS	F.A.I. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
PL01 SCALE = 1:200	CHECKED - ---	REVISED -	55 (99-1&2)AC-3 WILL 524 30			
PLOT DATE = 12/11/2009	DATE - 12/18/09	REVISED -	CONTRACT NO. 60C31			
			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			