CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00233-00-BT	ROCK ISLAND	75	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

HORIZONTAL AND VERTICAL CONTROL

chain MOLBIKE description (CONT.)

Curve Data

Curve MOL-5
P.I. Station 12+21.61 N 1,747,229.2376 E 399,040.6796
Delta = 94° 50' 55.93" (LT)
Degree = 57° 17' 44.81"
Tangent = 108.8423
Length = 165.5425
Radius = 100.0000
External = 47.8061
Long Chord = 147.2771
Mid. Ord. = 32.3438
P.C. Station 11+12.77 N 1,747,221.4325 E 398,932.1175
P.T. Station 12+78.31 N 1,747,336.7514 E 399,023.7259
C.C. N 1,747,321.1750 E 398,924.9465
Back = N 85° 53' 15.98" E
Ahead = N 8° 57' 39.95" W
Chord Bear = N 38° 27' 48.01" E

Course from PT MOL-5 to PC MOL-6 N 8° 57' 39.65" W Dist 174.6939

Curve Data

Curve MOL-6
P.I. Station 14+74.28 N 1,747,530.3252 E 398,993.2019
Delta = 16° 08' 33.87" (RT)
Degree = 38° 11' 49.87"
Tangent = 21.2717
Length = 42.2616
Radius = 150.0000
External = 1.5008
Long Chord = 42.1220
Mid. Ord. = 1.4859
P.C. Station 14+53.01 N 1,747,509.3131 E 398,996.5152
P.T. Station 14+95.27 N 1,747,551.4300 E 398,995.8612
C.C. N 1,747,532.6775 E 399,144.6844
Back = N 8° 57' 39.65" W
Ahead = N 7° 10' 54.21" E
Chord Bear = N 0° 53' 22.72" W

Course from PT MOL-6 to PC MOL-7 N 7° 10' 54.21" E Dist 139.8286

Curve Data

Curve MOL-7
P.I. Station 16+46.91 N 1,747,701.8813 E 399,014.8189
Delta = 13° 28' 24.74" (LT)
Degree = 57° 17' 44.81"
Tangent = 11.8124
Length = 23.5158
Radius = 100.0000
External = 0.6952
Long Chord = 23.4616
Mid. Ord. = 0.6904
P.C. Station 16+35.10 N 1,747,690.1616 E 399,013.3421
P.T. Station 16+58.61 N 1,747,713.6225 E 399,013.5243
C.C. N 1,747,702.6633 E 398,914.1267
Back = N 7° 10' 54.21" E
Ahead = N 6° 17' 30.53" W
Chord Bear = N 0° 26' 41.84" E

Course from PT MOL-7 to PC MOL-8 N 6° 12' 17.28" W Dist 110.2123

Curve Data

Curve MOL-8
P.I. Station 18+27.61 N 1,747,881.8808 E 398,998.4022
Delta = 56° 14' 10.95" (RT)
Degree = 52° 05' 13.46"
Tangent = 58.7794
Length = 107.9661
Radius = 110.0000
External = 14.7198
Long Chord = 103.6842
Mid. Ord. = 12.9825
P.C. Station 17+68.83 N 1,747,823.1892 E 399,001.6123
P.T. Station 18+76.79 N 1,747,917.1685 E 399,045.4107
C.C. N 1,747,829.1966 E 399,111.4481
Back = N 3° 07' 50.35" W
Ahead = N 53° 06' 20.61" E
Chord Bear = N 24° 59' 15.13" E

Course from PT MOL-8 to PC MOL-9 N 56° 10' 46.60" E Dist 109.8848

chain MOLBIKE description (CONT.)

Curve Data

Curve MOL-9
P.I. Station 20+01.23 N 1,747,986.4123 E 399,148.8061
Delta = 16° 33' 45.98" (LT)
Degree = 57° 17' 44.81"
Tangent = 14.5552
Length = 28.9075
Radius = 100.0000
External = 1.0537
Long Chord = 28.8069
Mid. Ord. = 1.0427
P.C. Station 19+86.68 N 1,747,978.3294 E 399,136.7015
P.T. Station 20+15.58 N 1,747,997.6104 E 399,158.1043
C.C. N 1,748,061.4927 E 399,081.1689
Back = N 56° 16' 00.79" E
Ahead = N 39° 42' 14.81" E
Chord Bear = N 47° 59' 07.80" E

Course from PT MOL-9 to PC MOL-10 N 39° 43' 15.00" E Dist 110.3820

Curve Data

Curve MOL-10
P.I. Station 21+81.17 N 1,748,124.1182 E 399,264.9266
Delta = 53° 17' 59.66" (RT)
Degree = 52° 05' 13.46"
Tangent = 55.2039
Length = 102.3285
Radius = 110.0000
External = 13.0751
Long Chord = 98.6785
Mid. Ord. = 11.6860
P.C. Station 21+25.97 N 1,748,082.5126 E 399,228.6437
P.T. Station 22+28.29 N 1,748,119.8920 E 399,319.9685
C.C. N 1,748,010.2148 E 399,311.5473
Back = N 41° 05' 26.65" E
Ahead = S 85° 36' 33.69" E
Chord Bear = N 67° 44' 26.48" E

Course from PT MOL-10 to PC MOL-11 S 84° 13' 44.34" E Dist 295.4735

Curve Data

Curve MOL-11
P.I. Station 25+31.69 N 1,748,089.3836 E 399,621.8276
Delta = 8° 14' 23.56" (RT)
Degree = 52° 05' 13.46"
Tangent = 7.9234
Length = 15.8194
Radius = 110.0000
External = 0.2850
Long Chord = 15.8058
Mid. Ord. = 0.2843
P.C. Station 25+23.77 N 1,748,090.1812 E 399,613.9444
P.T. Station 25+39.59 N 1,748,087.4645 E 399,629.5150
C.C. N 1,747,980.7399 E 399,602.8717
Back = S 84° 13' 21.86" E
Ahead = S 75° 58' 58.30" E
Chord Bear = S 80° 06' 10.08" E

Course from PT MOL-11 to PC MOL-12 S 75° 35' 28.19" E Dist 102.3170

Curve Data

Curve MOL-12
P.I. Station 27+35.21 N 1,748,038.7847 E 399,818.9794
Delta = 21° 08' 23.76" (LT)
Degree = 11° 27' 32.96"
Tangent = 93.3012
Length = 184.4807
Radius = 500.0000
External = 8.6306
Long Chord = 183.4361
Mid. Ord. = 8.4842
P.C. Station 26+41.90 N 1,748,062.0040 E 399,728.6136
P.T. Station 28+26.39 N 1,748,049.7182 E 399,911.6378
C.C. N 1,748,546.2733 E 399,853.0455
Back = S 75° 35' 22.97" E
Ahead = N 83° 16' 13.28" E
Chord Bear = S 86° 09' 34.84" E

Course from PT MOL-12 to PC MOL-13 N 83° 16' 13.28" E Dist 81.6013

chain MOLBIKE description (CONT.)

Curve Data

Curve MOL-13
Feature: DEFAULT_CURVE
P.I. Station 29+16.21 N 1,748,060.2444 E 400,000.8452
Delta = 6° 16' 37.75" (RT)
Degree = 38° 11' 49.87"
Tangent = 8.2250
Length = 16.4336
Radius = 150.0000
External = 0.2253
Long Chord = 16.4253
Mid. Ord. = 0.2250
P.C. Station 29+07.99 N 1,748,059.2806 E 399,992.6768
P.T. Station 29+24.42 N 1,748,060.3094 E 400,009.0699
C.C. N 1,747,910.3141 E 400,010.2545
Back = N 83° 16' 13.28" E
Ahead = N 89° 32' 51.03" E
Chord Bear = N 86° 24' 32.16" E

Course from PT MOL-13 to PC MOL-14 N 89° 54' 12.46" E Dist 296.9696

Curve Data

Curve MOL-14
Feature: DEFAULT_CURVE
P.I. Station 32+28.38 N 1,748,060.8216 E 400,313.0338
Delta = 2° 40' 16.59" (LT)
Degree = 19° 05' 54.94"
Tangent = 6.9946
Length = 13.9868
Radius = 300.0000
External = 0.0815
Long Chord = 13.9855
Mid. Ord. = 0.0815
P.C. Station 32+21.39 N 1,748,060.8098 E 400,306.0391
P.T. Station 32+35.38 N 1,748,061.1593 E 400,320.0202
C.C. N 1,748,360.8093 E 400,305.5336
Back = N 89° 54' 12.46" E
Ahead = N 87° 13' 55.87" E
Chord Bear = N 88° 34' 04.16" E

Course from PT MOL-14 to PC MOL-15 N 87° 13' 55.87" E Dist 427.6397

Curve Data

Curve MOL-15
Feature: DEFAULT_CURVE
P.I. Station 36+72.92 N 1,748,082.2877 E 400,757.0536
Delta = 7° 33' 18.73" (RT)
Degree = 38° 11' 49.87"
Tangent = 9.9041
Length = 19.7795
Radius = 150.0000
External = 0.3266
Long Chord = 19.7652
Mid. Ord. = 0.3259
P.C. Station 36+63.02 N 1,748,081.8095 E 400,747.1611
P.T. Station 36+82.80 N 1,748,081.4611 E 400,766.9232
C.C. N 1,747,931.9845 E 400,754.4044
Back = N 87° 13' 55.87" E
Ahead = S 85° 12' 45.40" E
Chord Bear = S 88° 59' 24.76" E

Course from PT MOL-15 to PC MOL-16 S 85° 12' 45.40" E Dist 91.8331

Curve Data

Curve MOL-16
Feature: DEFAULT_CURVE
P.I. Station 37+79.53 N 1,748,073.3883 E 400,863.3151
Delta = 4° 40' 23.01" (LT)
Degree = 47° 44' 47.34"
Tangent = 4.8963
Length = 9.7872
Radius = 120.0000
External = 0.0999
Long Chord = 9.7845
Mid. Ord. = 0.0998
P.C. Station 37+74.63 N 1,748,073.7969 E 400,858.4358
P.T. Station 37+84.42 N 1,748,073.3785 E 400,868.2114
C.C. N 1,748,193.3782 E 400,868.4508
Back = S 85° 12' 45.40" E
Ahead = S 89° 53' 08.41" E
Chord Bear = S 87° 32' 56.90" E

Course from PT MOL-16 to 502 S 89° 53' 08.41" E Dist 35.0221

Point 502 N 1,748,073.3086 E 400,903.2334 Sta 38+19.44

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Ending chain MOLBIKE description

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

HORIZONTAL AND VERTICAL CONTROL

SCALE: NTS — DRAWN BY PAR

DATE 3/31/09 — CHECKED BY BAJ

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$