

**RAMP E**

**Curve Data**

**Curve RAMPE-5**

P.I. Station = 23+54.60 N  
 Delta = 4° 55' 11" (LT)  
 Degree = 6° 19' 07"  
 Tangent = 38.95  
 Length = 77.86  
 Radius = 906.77  
 External = 0.84  
 Long Chord = 77.84  
 Mid. Ord. = 0.84  
 P.C. Station = 23+15.65 N  
 P.T. Station = 23+93.51 N  
 C.C. = N  
 Back = N 19° 12' 43" E  
 Ahead = N 14° 17' 32" E  
 Chord Bear = N 16° 45' 08" E

1,838,141.63 E 1,188,534.04  
 1,838,104.84 E 1,188,521.22  
 1,838,179.38 E 1,188,543.65  
 1,838,403.23 E 1,187,664.95

**Curve Data**

**Curve RAMPE-6**

P.I. Station = 24+89.17 N  
 Delta = 11° 47' 29" (LT)  
 Degree = 6° 11' 05"  
 Tangent = 95.66  
 Length = 190.65  
 Radius = 926.40  
 External = 4.93  
 Long Chord = 190.32  
 Mid. Ord. = 4.90  
 P.C. Station = 23+93.51 N  
 P.T. Station = 25+84.16 N  
 C.C. = N  
 Back = N 14° 17' 32" E  
 Ahead = N 2° 30' 03" E  
 Chord Bear = N 8° 23' 47" E

1,838,272.08 E 1,188,567.27  
 1,838,179.38 E 1,188,543.65  
 1,838,367.65 E 1,188,571.44  
 1,838,408.07 E 1,187,645.93

Course from PT RAMPE-6 to RE2 N 1° 10' 28" E Dist 176.60

Point RE2 N 1,838,544.21 E 1,188,575.06 Sta 27+60.76

Course from RE2 to RE3 N 1° 10' 09" E Dist 202.71

Point RE3 N 1,838,746.88 E 1,188,579.20 Sta 29+63.47

**RAMP F**

Point RF1 N 1,836,900.58 E 1,186,892.96 Sta 10+00.00

Course from RF1 to PC RAMPF-1 N 88° 19' 14" E Dist 79.65

**Curve Data**

**Curve RAMPF-1**

P.I. Station = 12+33.77 N  
 Delta = 1° 17' 43" (RT)  
 Degree = 0° 25' 13"  
 Tangent = 154.12  
 Length = 308.23  
 Radius = 13,633.41  
 External = 0.87  
 Long Chord = 308.22  
 Mid. Ord. = 0.87  
 P.C. Station = 10+79.65 N  
 P.T. Station = 13+87.88 N  
 C.C. = N  
 Back = S 89° 24' 58" E  
 Ahead = S 88° 07' 15" E  
 Chord Bear = S 88° 46' 07" E

1,836,901.34 E 1,187,126.69  
 1,836,902.91 E 1,186,972.58  
 1,836,896.29 E 1,187,280.72  
 1,823,270.21 E 1,186,833.66

Course from PT RAMPF-1 to PC RAMPF-2 S 88° 07' 15" E Dist 296.17

**Curve Data**

**Curve RAMPF-2**

P.I. Station = 18+63.27 N  
 Delta = 58° 00' 37" (RT)  
 Degree = 17° 43' 29"  
 Tangent = 179.22  
 Length = 327.28  
 Radius = 323.25  
 External = 46.36  
 Long Chord = 313.48  
 Mid. Ord. = 40.54  
 P.C. Station = 16+84.05 N  
 P.T. Station = 20+11.33 N  
 C.C. = N  
 Back = S 84° 31' 02" E  
 Ahead = S 26° 30' 25" E  
 Chord Bear = S 55° 30' 44" E

1,836,869.45 E 1,187,755.14  
 1,836,886.58 E 1,187,576.74  
 1,836,709.07 E 1,187,835.12  
 1,836,564.80 E 1,187,545.85

**Curve Data**

**Curve RAMPF-3**

P.I. Station = 21+59.73 N  
 Delta = 50° 19' 40" (RT)  
 Degree = 18° 08' 18"  
 Tangent = 148.40  
 Length = 277.47  
 Radius = 315.88  
 External = 33.12  
 Long Chord = 268.63  
 Mid. Ord. = 29.98  
 P.C. Station = 20+11.33 N  
 P.T. Station = 22+88.80 N  
 C.C. = N  
 Back = S 22° 47' 08" E  
 Ahead = S 27° 32' 33" W  
 Chord Bear = S 2° 22' 43" W

1,836,572.25 E 1,187,892.60  
 1,836,709.07 E 1,187,835.12  
 1,836,440.67 E 1,187,823.98  
 1,836,586.74 E 1,187,543.89

**Curve Data**

**Curve RAMPF-4**

P.I. Station = 23+84.82 N  
 Delta = 9° 34' 12" (RT)  
 Degree = 4° 59' 43"  
 Tangent = 96.02  
 Length = 191.58  
 Radius = 1,147.01  
 External = 4.01  
 Long Chord = 191.36  
 Mid. Ord. = 4.00  
 P.C. Station = 22+88.80 N  
 P.T. Station = 24+80.39 N  
 C.C. = N  
 Back = S 27° 25' 34" W  
 Ahead = S 36° 59' 46" W  
 Chord Bear = S 32° 12' 40" W

1,836,355.45 E 1,187,779.75  
 1,836,440.67 E 1,187,823.98  
 1,836,278.76 E 1,187,721.97  
 1,836,968.99 E 1,186,805.88

**Curve Data**

**Curve RAMPF-5**

P.I. Station = 25+66.62 N  
 Delta = 8° 42' 28" (RT)  
 Degree = 5° 03' 32"  
 Tangent = 86.23  
 Length = 172.13  
 Radius = 1,132.60  
 External = 3.28  
 Long Chord = 171.97  
 Mid. Ord. = 3.27  
 P.C. Station = 24+80.39 N  
 P.T. Station = 26+52.52 N  
 C.C. = N  
 Back = S 38° 32' 17" W  
 Ahead = S 47° 14' 45" W  
 Chord Bear = S 42° 53' 31" W

1,836,211.31 E 1,187,668.25  
 1,836,278.76 E 1,187,721.97  
 1,836,152.77 E 1,187,604.93  
 1,836,984.41 E 1,186,836.06

Course from PT RAMPF-5 to RF2 S 45° 04' 37" W Dist 196.36

Point RF2 N 1,836,014.11 E 1,187,465.89 Sta 28+48.88

Course from RF2 to RF3 S 46° 29' 43" W Dist 668.34

Point RF3 N 1,835,554.02 E 1,186,981.14 Sta 35+17.22

FILE NAME = 0160C08-034-ATB.dgn	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BISHOP FORD EXPRESSWAY (I-94) ALIGNMENT AND TIES</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - DW/ZR	REVISED -				94	(0312-708W, ETC. & 1315RS-4)	COOK	167	34
	CHECKED - ES	REVISED -				CONTRACT NO. 60C08				
	DATE - 01/29/2009	REVISED -				SCALE: N/A	SHEET NO. 14 OF 18 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.