

**RAMP E\_WOLF\_B**

Curve Data

Curve E\_WOLF\_B-1  
 P.I. Station = 0+59.42 N 1,895,692.1885 E 1,104,510.6499  
 Delta = 1° 53' 22.21" (RT)  
 Degree = 1° 35' 24.47"  
 Tangent = 59.4188  
 Length = 118.8269  
 Radius = 3,603.2141  
 External = 0.4899  
 Long Chord = 118.8215  
 Mid. Ord. = 0.4898  
 P.C. Station = 0+00.00 N 1,895,670.7382 E 1,104,566.0618  
 P.T. Station = 1+18.83 N 1,895,715.4541 E 1,104,455.9753  
 C.C. = N 1,899,030.9719 E 1,105,866.8238  
 Back = N 68° 50' 18.06" W  
 Ahead = N 66° 56' 55.85" W  
 Chord Bear = N 67° 53' 36.96" W

Curve Data

Curve E\_WOLF\_B-2  
 P.I. Station = 2+29.38 N 1,895,758.7431 E 1,104,354.2454  
 Delta = 3° 30' 57.90" (RT)  
 Degree = 1° 35' 26.39"  
 Tangent = 110.5573  
 Length = 221.0451  
 Radius = 3,602.0049  
 External = 1.6963  
 Long Chord = 221.0104  
 Mid. Ord. = 1.6955  
 P.C. Station = 1+18.83 N 1,895,715.4541 E 1,104,455.9753  
 P.T. Station = 3+39.87 N 1,895,808.1895 E 1,104,255.3619  
 C.C. = N 1,899,029.8592 E 1,105,866.3503  
 Back = N 66° 56' 55.85" W  
 Ahead = N 63° 25' 57.95" W  
 Chord Bear = N 65° 11' 26.90" W

Curve Data

Curve E\_WOLF\_B-3  
 P.I. Station = 3+97.32 N 1,895,833.8821 E 1,104,203.9817  
 Delta = 1° 41' 06.68" (RT)  
 Degree = 1° 28' 00.72"  
 Tangent = 57.4459  
 Length = 114.8835  
 Radius = 3,905.9950  
 External = 0.4224  
 Long Chord = 114.8794  
 Mid. Ord. = 0.4224  
 P.C. Station = 3+39.87 N 1,895,808.1895 E 1,104,255.3619  
 P.T. Station = 4+54.76 N 1,895,861.0745 E 1,104,153.3793  
 C.C. = N 1,899,301.7511 E 1,106,002.3092  
 Back = N 63° 25' 57.95" W  
 Ahead = N 61° 44' 51.27" W  
 Chord Bear = N 62° 35' 24.61" W

**RAMP E\_WOLF\_B**

Curve Data

Curve E\_WOLF\_B-4  
 P.I. Station = 4+79.04 N 1,895,872.5717 E 1,104,131.9842  
 Delta = 0° 54' 35.74" (RT)  
 Degree = 1° 52' 23.51"  
 Tangent = 24.2886  
 Length = 48.5762  
 Radius = 3,058.7161  
 External = 0.0964  
 Long Chord = 48.5757  
 Mid. Ord. = 0.0964  
 P.C. Station = 4+54.76 N 1,895,861.0745 E 1,104,153.3793  
 P.T. Station = 5+03.33 N 1,895,884.4072 E 1,104,110.7743  
 C.C. = N 1,898,555.4079 E 1,105,601.2438  
 Back = N 61° 44' 51.27" W  
 Ahead = N 60° 50' 15.53" W  
 Chord Bear = N 61° 17' 33.40" W

Curve Data

Curve E\_WOLF\_B-5  
 P.I. Station = 5+35.88 N 1,895,900.2681 E 1,104,082.3507  
 Delta = 1° 02' 26.77" (RT)  
 Degree = 1° 35' 55.65"  
 Tangent = 32.5495  
 Length = 65.0972  
 Radius = 3,583.6940  
 External = 0.1478  
 Long Chord = 65.0963  
 Mid. Ord. = 0.1478  
 P.C. Station = 5+03.33 N 1,895,884.4072 E 1,104,110.7743  
 P.T. Station = 5+68.43 N 1,895,916.6427 E 1,104,054.2199  
 C.C. = N 1,899,013.8409 E 1,105,857.0582  
 Back = N 60° 50' 15.53" W  
 Ahead = N 59° 47' 48.76" W  
 Chord Bear = N 60° 19' 02.15" W

**RAMP E\_WOLF\_C**

Curve Data

Curve E\_WOLF\_C-1  
 P.I. Station = 6+64.54 N 1,895,951.3429 E 1,103,963.1942  
 Delta = 3° 02' 12.52" (RT)  
 Degree = 1° 34' 59.04"  
 Tangent = 95.9379  
 Length = 191.8309  
 Radius = 3,619.2902  
 External = 1.2713  
 Long Chord = 191.8085  
 Mid. Ord. = 1.2709  
 P.C. Station = 5+68.60 N 1,895,903.0797 E 1,104,046.1083  
 P.T. Station = 7+60.43 N 1,896,003.9309 E 1,103,882.9533  
 C.C. = N 1,899,031.0418 E 1,105,866.8539  
 Back = N 59° 47' 48.76" W  
 Ahead = N 56° 45' 36.24" W  
 Chord Bear = N 58° 16' 42.50" W

Curve Data

Curve E\_WOLF\_C-2  
 P.I. Station = 9+26.86 N 1,896,095.1571 E 1,103,743.7570  
 Delta = 10° 15' 45.33" (RT)  
 Degree = 3° 05' 29.35"  
 Tangent = 166.4267  
 Length = 331.9630  
 Radius = 1,853.3406  
 External = 7.4574  
 Long Chord = 331.5194  
 Mid. Ord. = 7.4275  
 P.C. Station = 7+60.43 N 1,896,003.9309 E 1,103,882.9533  
 P.T. Station = 10+92.39 N 1,896,209.7229 E 1,103,623.0404  
 C.C. = N 1,897,554.0325 E 1,104,898.8551  
 Back = N 56° 45' 36.24" W  
 Ahead = N 46° 29' 50.91" W  
 Chord Bear = N 51° 37' 43.58" W

Course from PT E\_WOLF\_C-2 to PC E\_WOLF\_C-3 N 45° 11' 05.73" W Dist 186.1661

Curve Data

Curve E\_WOLF\_C-3  
 P.I. Station = 13+18.50 N 1,896,368.4332 E 1,103,462.0060  
 Delta = 3° 13' 58.76" (LT)  
 Degree = 4° 02' 53.40"  
 Tangent = 39.9421  
 Length = 79.8630  
 Radius = 1,415.3514  
 External = 0.5635  
 Long Chord = 79.8524  
 Mid. Ord. = 0.5633  
 P.C. Station = 12+78.56 N 1,896,340.9367 E 1,103,490.9769  
 P.T. Station = 13+58.42 N 1,896,394.2521 E 1,103,431.5304  
 C.C. = N 1,895,314.3497 E 1,102,516.6368  
 Back = N 46° 29' 44.62" W  
 Ahead = N 49° 43' 43.38" W  
 Chord Bear = N 48° 06' 44.00" W

Curve Data

Curve E\_WOLF\_C-4  
 P.I. Station = 14+27.13 N 1,896,438.6678 E 1,103,378.1040  
 Delta = 25° 56' 33.19" (LT)  
 Degree = 19° 12' 25.66"  
 Tangent = 68.7116  
 Length = 135.0673  
 Radius = 298.3048  
 External = 7.8113  
 Long Chord = 133.9165  
 Mid. Ord. = 7.6119  
 P.C. Station = 13+58.42 N 1,896,394.2521 E 1,103,431.5304  
 P.T. Station = 14+93.49 N 1,896,455.6728 E 1,103,312.5299  
 C.C. = N 1,896,166.6478 E 1,103,238.7040  
 Back = N 49° 43' 43.38" W  
 Ahead = N 75° 40' 16.57" W  
 Chord Bear = N 62° 41' 59.97" W

FILE NAME =	DESIGNED - AJP	REVISED -
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USER NAME = tblank	CHECKED - JVM	REVISED -
PLT DATE = 11/12/2009	DATE - 10/16/09	REVISED -

**benesch**

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>ALIGNMENT PLAN I-290 RAMP CURVE DATA</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		290	(3031.1, ETC., 3838RS-5)	COOK	298	50
SCALE: N.T.S.		SHEET NO. 23 OF 36 SHEETS		STA.	TO STA.	
		FED. ROAD DIS. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 60C52				