

**RAMP E\_HOMAN\_A**

Curve Data  
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 Curve E HOMAN A-1  
 P.I. Station = 0+32.44 N 1,897,479.7061 E 1,154,098.9317  
 Delta = 8° 14' 49.79" (LT)  
 Degree = 12° 43' 56.62"  
 Tangent = 32.4426  
 Length = 64.7731  
 Radius = 450.0000  
 External = 1.1680  
 Long Chord = 64.7172  
 Mid. Ord. = 1.1649  
 P.C. Station = 0+00.00 N 1,897,483.6045 E 1,154,066.7242  
 P.T. Station = 0+64.77 N 1,897,480.4680 E 1,154,131.3653  
 C.C. = N 1,897,930.3439 E 1,154,120.7973  
 Back = S 83° 05' 54.69" E  
 Ahead = N 88° 39' 15.52" E  
 Chord Bear = S 87° 13' 19.59" E

Course from PT E HOMAN A-1 to PC E HOMAN A-2 N 88° 39' 15.52" E Dist 601.7240

Curve Data  
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 Curve E HOMAN A-2  
 P.I. Station = 7+36.77 N 1,897,496.2495 E 1,154,803.1757  
 Delta = 10° 02' 23.68" (LT)  
 Degree = 7° 09' 43.10"  
 Tangent = 70.2717  
 Length = 140.1836  
 Radius = 800.0000  
 External = 3.0804  
 Long Chord = 140.0043  
 Mid. Ord. = 3.0686  
 P.C. Station = 6+66.50 N 1,897,494.5992 E 1,154,732.9234  
 P.T. Station = 8+06.68 N 1,897,510.1219 E 1,154,872.0645  
 C.C. = N 1,898,294.3786 E 1,154,714.1358  
 Back = N 88° 39' 15.52" E  
 Ahead = N 78° 36' 51.84" E  
 Chord Bear = N 83° 38' 03.68" E

Course from PT E HOMAN A-2 to PC E HOMAN A-3 N 78° 36' 51.84" E Dist 794.0814

Curve Data  
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 Curve E HOMAN A-3  
 P.I. Station = 18+16.75 N 1,897,709.5203 E 1,155,862.2545  
 Delta = 22° 21' 22.36" (LT)  
 Degree = 5° 14' 31.44"  
 Tangent = 215.9858  
 Length = 426.4771  
 Radius = 1,093.0000  
 External = 21.1359  
 Long Chord = 423.7768  
 Mid. Ord. = 20.7350  
 P.C. Station = 16+00.76 N 1,897,666.8823 E 1,155,650.5191  
 P.T. Station = 20+27.24 N 1,897,829.4899 E 1,156,041.8573  
 C.C. = N 1,898,738.3730 E 1,155,434.7489  
 Back = N 78° 36' 51.84" E  
 Ahead = N 56° 15' 29.48" E  
 Chord Bear = N 67° 26' 10.66" E

Course from PT E HOMAN A-3 to 1671 N 56° 15' 29.48" E Dist 270.9531

Point 1671 N 1,897,979.9912 E 1,156,267.1681 Sta 22+98.19

**RAMP E\_HOMAN\_B**

Point 1680 N 1,897,421.5450 E 1,156,419.7096 Sta 0+00.00  
 Course from 1680 to PC E HOMAN B-1 N 83° 51' 56.85" W Dist 176.9219

Curve Data  
 -----  
 Curve E HOMAN B-1  
 P.I. Station = 2+24.15 N 1,897,445.4976 E 1,156,196.8389  
 Delta = 3° 02' 23.89" (LT)  
 Degree = 3° 13' 07.91"  
 Tangent = 47.2322  
 Length = 94.4423  
 Radius = 1,780.0000  
 External = 0.6265  
 Long Chord = 94.4312  
 Mid. Ord. = 0.6263  
 P.C. Station = 1+76.92 N 1,897,440.4504 E 1,156,243.8007  
 P.T. Station = 2+71.36 N 1,897,448.0471 E 1,156,149.6755  
 C.C. = N 1,895,670.6421 E 1,156,053.5940  
 Back = N 83° 51' 56.85" W  
 Ahead = N 86° 54' 20.74" W  
 Chord Bear = N 85° 23' 08.80" W

Course from PT E HOMAN B-1 to PC E HOMAN B-2 N 86° 54' 20.74" W Dist 334.0522

Curve Data  
 -----  
 Curve E HOMAN B-2  
 P.I. Station = 7+31.39 N 1,897,472.8785 E 1,155,690.3202  
 Delta = 14° 21' 35.59" (LT)  
 Degree = 5° 43' 46.48"  
 Tangent = 125.9738  
 Length = 250.6273  
 Radius = 1,000.0000  
 External = 7.9035  
 Long Chord = 249.9719  
 Mid. Ord. = 7.8415  
 P.C. Station = 6+05.42 N 1,897,466.0787 E 1,155,816.1103  
 P.T. Station = 8+56.04 N 1,897,448.2685 E 1,155,566.7737  
 C.C. = N 1,896,467.5366 E 1,155,762.1319  
 Back = N 86° 54' 20.74" W  
 Ahead = S 78° 44' 03.67" W  
 Chord Bear = S 85° 54' 51.46" W

Course from PT E HOMAN B-2 to PC E HOMAN B-3 S 78° 44' 03.67" W Dist 554.8583

Curve Data  
 -----  
 Curve E HOMAN B-3  
 P.I. Station = 14+74.84 N 1,897,327.3816 E 1,154,959.9002  
 Delta = 5° 28' 18.34" (LT)  
 Degree = 4° 16' 55.90"  
 Tangent = 63.9383  
 Length = 127.7793  
 Radius = 1,338.0000  
 External = 1.5268  
 Long Chord = 127.7308  
 Mid. Ord. = 1.5251  
 P.C. Station = 14+10.90 N 1,897,339.8724 E 1,155,022.6065  
 P.T. Station = 15+38.68 N 1,897,308.9683 E 1,154,898.6707  
 C.C. = N 1,896,027.6531 E 1,155,283.9957  
 Back = S 78° 44' 03.67" W  
 Ahead = S 73° 15' 45.33" W  
 Chord Bear = S 75° 59' 54.50" W

Course from PT E HOMAN B-3 to PC E HOMAN B-4 S 73° 15' 45.33" W Dist 151.8636

**RAMP E\_HOMAN\_B**

Curve Data  
 -----  
 Curve E HOMAN B-4  
 P.I. Station = 18+53.22 N 1,897,218.3864 E 1,154,597.4602  
 Delta = 12° 15' 55.00" (RT)  
 Degree = 3° 47' 03.83"  
 Tangent = 162.6723  
 Length = 324.1012  
 Radius = 1,514.0000  
 External = 8.7141  
 Long Chord = 323.4827  
 Mid. Ord. = 8.6642  
 P.C. Station = 16+90.54 N 1,897,265.2337 E 1,154,753.2409  
 P.T. Station = 20+14.65 N 1,897,205.7022 E 1,154,435.2832  
 C.C. = N 1,898,715.0926 E 1,154,317.2303  
 Back = S 73° 15' 45.33" W  
 Ahead = S 85° 31' 40.33" W  
 Chord Bear = S 79° 23' 42.83" W

Course from PT E HOMAN B-4 to PC E HOMAN B-5 S 85° 31' 40.33" W Dist 182.3528

Curve Data  
 -----  
 Curve E HOMAN B-5  
 P.I. Station = 22+08.43 N 1,897,190.5924 E 1,154,242.0939  
 Delta = 7° 15' 52.46" (LT)  
 Degree = 31° 49' 51.56"  
 Tangent = 11.4265  
 Length = 22.8223  
 Radius = 180.0000  
 External = 0.3623  
 Long Chord = 22.8070  
 Mid. Ord. = 0.3616  
 P.C. Station = 21+97.00 N 1,897,191.4834 E 1,154,253.4856  
 P.T. Station = 22+19.82 N 1,897,188.2681 E 1,154,230.9063  
 C.C. = N 1,897,012.0314 E 1,154,267.5209  
 Back = S 85° 31' 40.33" W  
 Ahead = S 78° 15' 47.87" W  
 Chord Bear = S 81° 53' 44.10" W

FILE NAME =	DESIGNED - CAG	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENT PLAN CURVE DATA</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...exp1n_ABC_C3_298_R_Data_exalign_26.sdn	DRAWN - DMS	REVISED -			290	(2727, ETC., 3131)RS-7	COOK	216	38			
USER NAME = jma_ewskj	CHECKED - CAR	REVISED -			CONTRACT NO. 60653							
PLOT DATE = 1/25/2010	DATE - 1/25/10	REVISED -			SCALE: N.T.S.	SHEET NO. 18 OF 18	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	