

**RAMP E\_R83\_C**

Point 530 N 1,916,547.6373 E 1,082,959.8713 Sta 0+00.00

Course from 530 to PC E R83 C-1 S 69° 14' 20.73" E Dist 77.3330

Curve Data

Curve E R83 C-1  
 P.I. Station = 1+88.64 N 1,916,480.7703 E 1,083,136.2624  
 Delta = 23° 02' 40.95" (RT)  
 Degree = 10° 29' 37.44"  
 Tangent = 111.3068  
 Length = 219.6045  
 Radius = 546.0000  
 External = 11.2299  
 Long Chord = 218.1273  
 Mid. Ord. = 11.0036  
 P.C. Station = 0+77.33 N 1,916,520.2252 E 1,083,032.1830  
 P.T. Station = 2+96.94 N 1,916,403.7222 E 1,083,216.5917  
 C.C. = N 1,916,009.6782 E 1,082,838.6429  
 Back = S 69° 14' 20.73" E  
 Ahead = S 46° 11' 39.78" E  
 Chord Bear = S 57° 43' 00.26" E

Curve Data

Curve E R83 C-2  
 P.I. Station = 3+83.45 N 1,916,343.8401 E 1,083,279.0240  
 Delta = 28° 52' 34.14" (RT)  
 Degree = 17° 03' 08.34"  
 Tangent = 86.5082  
 Length = 169.3386  
 Radius = 336.0000  
 External = 10.9577  
 Long Chord = 167.5521  
 Mid. Ord. = 10.6117  
 P.C. Station = 2+96.94 N 1,916,403.7222 E 1,083,216.5917  
 P.T. Station = 4+66.28 N 1,916,261.2536 E 1,083,304.7756  
 C.C. = N 1,916,161.2336 E 1,082,984.0078  
 Back = S 46° 11' 39.78" E  
 Ahead = S 17° 19' 05.64" E  
 Chord Bear = S 31° 45' 22.71" E

Course from PT E R83 C-2 to PC E R83 C-3 S 17° 19' 05.64" E Dist 182.3120

Curve Data

Curve E R83 C-3  
 P.I. Station = 7+84.63 N 1,915,957.3307 E 1,083,399.5432  
 Delta = 48° 13' 04.96" (LT)  
 Degree = 18° 50' 50.27"  
 Tangent = 136.0432  
 Length = 255.8353  
 Radius = 304.0000  
 External = 29.0522  
 Long Chord = 248.3523  
 Mid. Ord. = 26.5180  
 P.C. Station = 6+48.59 N 1,916,087.2065 E 1,083,359.0460  
 P.T. Station = 9+04.42 N 1,915,900.9929 E 1,083,523.3729  
 C.C. = N 1,916,177.7009 E 1,083,649.2645  
 Back = S 17° 19' 05.64" E  
 Ahead = S 65° 32' 10.60" E  
 Chord Bear = S 41° 25' 38.12" E

Course from PT E R83 C-3 to PC E R83 C-4 S 65° 32' 10.60" E Dist 275.4968

**RAMP E\_R83\_C**

Curve Data

Curve E R83 C-4  
 P.I. Station = 13+01.38 N 1,915,736.6051 E 1,083,884.6950  
 Delta = 51° 49' 32.68" (RT)  
 Degree = 22° 55' 05.92"  
 Tangent = 121.4629  
 Length = 226.1325  
 Radius = 250.0000  
 External = 27.9447  
 Long Chord = 218.5019  
 Mid. Ord. = 25.1351  
 P.C. Station = 11+79.92 N 1,915,786.9050 E 1,083,774.1366  
 P.T. Station = 14+06.05 N 1,915,618.6033 E 1,083,913.4837  
 C.C. = N 1,915,559.3491 E 1,083,670.6073  
 Back = S 65° 32' 10.60" E  
 Ahead = S 13° 42' 37.93" E  
 Chord Bear = S 39° 37' 24.26" E

Curve Data

Curve E R83 C-5  
 P.I. Station = 14+46.82 N 1,915,578.9986 E 1,083,923.1460  
 Delta = 10° 21' 10.01" (RT)  
 Degree = 12° 43' 56.62"  
 Tangent = 40.7663  
 Length = 81.3106  
 Radius = 450.0000  
 External = 1.8428  
 Long Chord = 81.2000  
 Mid. Ord. = 1.8353  
 P.C. Station = 14+06.05 N 1,915,618.6033 E 1,083,913.4837  
 P.T. Station = 14+87.36 N 1,915,538.3024 E 1,083,925.5337  
 C.C. = N 1,915,511.9457 E 1,083,476.3062  
 Back = S 13° 42' 37.93" E  
 Ahead = S 3° 21' 27.91" E  
 Chord Bear = S 8° 32' 02.92" E

FILE NAME =	DESIGNED - AJP	REVISED -	<b>benesch</b>	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENT PLAN I-290 CURVE DATA</b>			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...\\exp\in_abc\c1_290_R_Data\exalign_49.dgn	DRAWN - TMB	REVISED -						*	224, 1-1, 2&3RS-7	DUPAGE	546	64
USER NAME = jmajewski	CHECKED - JMM	REVISED -			*290,355	CONTRACT NO. 60651						
DATE = 11/13/2009	DATE = 10/16/09	REVISED -			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT					
			SCALE: N.T.S.			SHEET NO. 39 OF 44 SHEETS			STA. TO STA.			