RAMP E_R83_A

Curve Data

Curve E R83 A-1

P.I. Station	0+74.05	N 1,916,782.9075	E	1,082,810.0250
Delta =	10° 19′ 43.82″ (LT)			
Degree =	6° 59′ 36.15″			
Tangent =	74.0480			
Length =	147.6946			
Radius =	819.2865			
External =	3.3395			
Long Chord =	147.4947			
Mid. Ord. =	3.3259			
P.C. Station	0+00.00	N 1,916,802.9012	E	1,082,738.7274
P.T. Station	1+47.69	N 1,916,776.0213	E	1,082,883.7521
C.C.		N 1,917,591.7574	E	1,082,959.9428
Back = S	74° 20′ 06.51″ E			
Ahead = S	84° 39′ 50.33″ E			
Chord Bear = S	79° 29′ 58.42″ E			

Curve Data

Curve E R83 A-2

P.I. Station	2+16.29	N 1,916,769.6420	E	1,082,952.0525
Delta =	25° 00′ 38.89″ (LT)			
Degree =	18° 31′ 30.53″			
Tangent =	68.5978			
Length =	135.0100			
Radius =	309.2865			
External =	7.5159			
Long Chord =	133.9406			
Mid. Ord. =	7.3376			
P.C. Station	1+47.69	N 1,916,776.0213	E	1,082,883.7521
P.T. Station	2+82.70	N 1,916,792.7375	E	1,083,016.6455
C.C.		N 1,917,083.9675	E	1,082,912.5146
Back = S	84° 39′ 50.33″ E			
Ahead = N	70° 19′ 30.78″ E			
Chord Bear = N	82° 49′ 50.22″ E			

Curve Data

Curve E R83 A-3

P.I. Station	3+99.55	N 1,916,832.0771	E	1,083,126.6694
Delta =	34° 11′ 02.69″ (LT)			
Degree =	15° 04′ 40.21″			
Tangent =	116.8455			
Length =	226.7174			
Radius =	380.0000			
External =	17.5586			
Long Chord =	223.3697			
Mid. Ord. =	16.7831			
P.C. Station	2+82.70	N 1,916,792.7375	E	1,083,016.6455
P.T. Station	5+09.42	N 1,916,926.4377	E	1,083,195.5821
C.C.		N 1,917,150.5527	E	1,082,888.7067
Back = N	70° 19′ 30.78″ E			
Ahead = N	36° 08′ 28.09″ E			
Chord Bear = N	53° 13′ 59.43″ E			

Course from PT E R83 A-3 to PC E R83 A-4 N 36° 08′ 28.09″ E Dist 182.1936

RAMP E_R83_A

Curve Data

Curve E R83 A-4

P.I. Station	8+08.08	N 1,917,167.6256	E	1,083,371.7247
Delta =	41° 07′ 17.34″ (RT)			
Degree =	18° 27′ 09.89″			
Tangent =	116.4665			
Length =	222.8475			
Radius =	310.5000			
External =	21.1243			
Long Chord =	218.0953			
Mid. Ord. =	19.7787			
P.C. Station	6+91.62	N 1,917,073.5711	E	1,083,303.0355
P.T. Station	9+14.46	N 1,917,193.3044	E	1,083,485.3251
C.C.		N 1,916,890.4456	E	1,083,553.7850
Back = N	36° 08′ 28.09″ E			
Ahead = N	77° 15′ 45.43″ E			
Chord Bear = N	56° 42′ 06.76″ E			

Course from PT E R83 A-4 to PC E R83 A-5 N 77° 15′ 45.43″ E Dist 159.0918

Curve Data

Curve E R83 A-5

P.I. Station	11+80.25	N 1,917,251.9052	E	1,083,744.5683
Delta =	47° 56′ 06.39″ (LT)			
Degree =	23° 52′ 23.67″			
Tangent =	106.6921			
Length =	200.7901			
Radius =	240.0000			
External =	22.6465			
Long Chord =	194.9852			
Mid. Ord. =	20.6938			
P.C. Station	10+73.55	N 1,917,228.3814	E	1,083,640.5018
P.T. Station	12+74.35	N 1,917,344.9230	E	1,083,796.8262
C.C.		N 1,917,462.4752	E	1,083,587.5860
Back = N	77° 15′ 45.43″ E			
Ahead = N	29° 19′ 39.03″ E			
Chord Bear = N	53° 17′ 42.23″ E			

Curve Data

Curve E R83 A-6

P.I. Station	13+88.38	N 1,917,444.3393	E	1,083,852.6788
Delta =	28° 41′ 01.55″ (LT)			
Degree =	12° 50′ 47.71″			
Tangent =	114.0312			
Length =	223.2792			
Radius =	446.0000			
External =	14.3467			
Long Chord =	220.9549			
Mid. Ord. =	13.8996			
P.C. Station	12+74.35	N 1,917,344.9230	E	1,083,796.8262
P.T. Station	14+97.62	N 1,917,558.3633	E	1,083,853.9600
C.C.		N 1,917,563.3743	E	1,083,407.9882
Back = N	29° 19′ 39.03″ E			
Ahead = N	0° 38′ 37.48″ E			
Chord Bear = N	14° 59′ 08.26″ E			

FILE NAME =	DESIGNED - AJP	REVISED -	
...\expln_ABC_C1_290_R_Data_exalign_47.dgn	DRAWN - TMB	REVISED -	
USER NAME = jmajewski	CHECKED - JMM	REVISED -	
PLOT DATE = 11/13/2009	DATE - 10/16/09	REVISED -	

benesch

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT PLAN
I-290 CURVE DATA

SCALE: N.T.S. | SHEET NO. 37 OF 44 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	22(1, 1-1, 2&3)RS-7	DUPAGE	546	62
•290,355		CONTRACT NO. 60G51		
FED. ROAD DIST. NO.	ILLINOIS	FED. A'D PROJECT		