

APPENDIX B
HORIZONTAL AND VERTICAL
DEFICIENCIES

KY 377 Horizontal Alignment Deficiencies for 55 mph

PI STATION	MILEPOINT @ MOC	CURVE DIRECTION (LT/RT)	RADIUS	DESIGN SPEED	MIN. RADIUS @ 8% E-MAX	MEET/EXCEED MIN. RADIUS	COMMENTS	SECTION
ROWAN COUNTY KY 377 MP 8.049 - MP 15.339								
741+51.00	13.904	RT	955	55	960	NO	Almost meets 55 mph (955 vs 960)	3
789+10.80	14.802	LT	477	55	960	NO		3
804+30.20	15.097	RT	716	55	960	NO		3
811+32.90	15.230	LT	409	55	960	NO		3
815+43.00	15.299	RT	191	55	960	NO		3
817+00.00	15.339						POT @ Rowan/Lewis Co. Line	
LEWIS COUNTY KY 377 MP 0.000 - MP 8.555								
819+86.30	0.040	LT	191	55	960	NO		3
826+70.40	0.172	RT	286	55	960	NO		3
833+38.60	0.299	RT	573	55	960	NO		3
837+33.10	0.382	LT	573	55	960	NO		3
848+32.30	0.590	LT	716	55	960	NO		3
903+77.20	1.633	RT	955	55	960	NO		3
912+49.90	1.801	LT	955	55	960	NO		3
989+60.20	3.254	RT	716	55	960	NO		3
1053+16.70	4.458	LT	318	55	960	NO		3
1065+80.30	4.696	RT	819	55	960	NO		3
1119+97.00	5.732	LT	955	55	960	NO		3
1151+45.10	6.326	RT	955	55	960	NO		3
1156+62.60	6.426	LT	881	55	960	NO		3
1198+77.70	7.222	RT	819	55	960	NO		3
1210+76.30	7.411	LT	521	55	960	NO		3
1249+68.20	8.180	LT	358	55	960	NO		4
1260+14.90	8.375	RT	716	55	960	NO		4
1269+22.00							Ending POT @ tie-in w/ KY 344	

KY 377 Vertical Alignment Deficiencies for 55 mph

VPI STATION	MILEPOINT	CREST OR SAG	CALCULATED HEADLIGHT SIGHT DISTANCE	CALCULATED STOPPING SIGHT DISTANCE	DESIGN SPEED	MINIMUM REQUIRED SIGHT DISTANCE	MEET/EXCEED SIGHT DISTANCE REQUIRED	COMMENTS	SECTION
ROWAN COUNTY KY 377 MP 8.049 - MP 15.339									
672+75.00	12.608	C		458	55	495	NO		2
679+00.00	12.726	S	356		55	495	NO		2
687+50.00	12.887	C		330	55	495	NO		2
691+25.00	12.958	S	226		55	495	NO		2
707+25.00	13.261	C		462	55	495	NO		2
716+50.00	13.436	S	334		55	495	NO		2
720+50.00	13.512	C		372	55	495	NO		3
724+75.00	13.593	S	407		55	495	NO		3
794+00.00	14.904	S	332		55	495	NO		3
LEWIS COUNTY KY 377 MP 0.000 - MP 8.555									
817+25.00	0.005	C		240	55	495	NO		3
839+75.00	0.429	S	232		55	495	NO		3
885+00.00	1.283	S	215		55	495	NO		3
889+00.00	1.359	C		329	55	495	NO		3
902+00.00	1.604	S	411		55	495	NO		3
918+25.00	1.911	S	267		55	495	NO		3
926+25.00	2.062	C		290	55	495	NO		3
931+50.00	2.161	S	213		55	495	NO		3
947+50.00	2.463	C		328	55	495	NO		3
952+25.00	2.553	S	262		55	495	NO		3
970+50.00	2.898	S	271		55	495	NO		3
972+50.00	2.936	C		477	55	495	NO		3
977+50.00	3.030	S	412		55	495	NO		3
1010+50.00	3.653	C		487	55	495	NO	meets 50 mph; close to 55	3
1034+25.00	4.103	C		450	55	495	NO		3

KY 377 Vertical Alignment Deficiencies for 55 mph continued

LEWIS COUNTY KY 377 MP 0.000 - MP 8.555 continued									
VPI STATION	MILEPOINT	CREST OR SAG	CALCULATED HEADLIGHT SIGHT DISTANCE	CALCULATED STOPPING SIGHT DISTANCE	DESIGN SPEED	MINIMUM REQUIRED SIGHT DISTANCE	MEET/EXCEED SIGHT DISTANCE REQUIRED	COMMENTS	SECTION
1039+00.00	4.193	S	348		55	495	NO		3
1060+00.00	4.589	C		448	55	495	NO		3
1076+50.00	4.900	S	189		55	495	NO		3
1079+50.00	4.957	C		355	55	495	NO		3
1101+00.00	5.375	C		414	55	495	NO		3
1107+50.00	5.497	S	333		55	495	NO		3
1118+00.00	5.696	S	444		55	495	NO		3
1124+00.00	5.809	C		487	55	495	NO	meets 50 mph; close to 55	3
1140+50.00	6.120	S	280		55	495	NO		3
1144+50.00	6.196	C		317	55	495	NO		3
1148+00.00	6.262	S	265		55	495	NO		3
1152+00.00	6.337	S	349		55	495	NO		3
1198+75.00	7.222	C		358	55	495	NO		3
1205+00.00	7.340	S	201		55	495	NO		3
1208+50.00	7.406	C		330	55	495	NO		3
1213+00.00	7.491	S	370		55	495	NO		3
1217+00.00	7.567	C		348	55	495	NO		3
1221+00.00	7.642	S	271		55	495	NO		4
1226+00.00	7.737	C		460	55	495	NO		4
1255+00.00	8.284	C		428	55	495	NO		4
1262+00.00	8.416	C		371	55	495	NO		4
1265+00.00	8.473	S	382		55	495	NO		4

KY 344 Horizontal Alignment Deficiencies for 55 mph

LEWIS COUNTY KY 344 MP 13.843 - MP 18.516								
PI STATION	MILEPOINT @ MOC	CURVE DIRECTION (LT/RT)	RADIUS	DESIGN SPEED	MIN. RADIUS @ 8% E-MAX	MEET/EXCEED MIN. RADIUS	COMMENTS	SECTION
582+73.10	13.932	LT	717	55	960	NO		4
565+86.50	14.256	LT	115	55	960	NO		4
559+00.00	14.379	LT	955	55	960	NO	Almost meets 55 mph (955 vs 960)	4
544+00.90	14.662	RT	716	55	960	NO		4
534+38.30	14.845	RT	573	55	960	NO		4
521+56.50	15.093	RT	477	55	960	NO		4
485+83.40	15.765	RT	819	55	960	NO		4
484+00.00	15.800	LT	955	55	960	NO	Almost meets 55 mph (955 vs 960)	4
466+78.70	16.095	LT	955	55	960	NO	Almost meets 55 mph (955 vs 960)	4
438+05.20	16.638	RT	716	55	960	NO		5
428+00.00	16.828	LT	716	55	960	NO	LEWIS KY 344	5
425+56.70	16.874	LT	716	55	960	NO		5
416+09.50	17.053	LT	819	55	960	NO		5
411+15.50	17.148	LT	382	55	960	NO		5
391+42.40	17.521	RT	637	55	960	NO		5
371+17.00	17.903	RT	637	55	960	NO		5
364+11.50	18.035	RT	955	55	960	NO	Almost meets 55 mph (955 vs 960)	5
357+56.50	18.157	RT	337	55	960	NO		5
355+51.20	18.196	LT	249	55	960	NO		5
353+19.40	18.240	RT	955	55	960	NO	Almost meets 55 mph (955 vs 960)	5
348+51.80	18.328	LT					PI Turn only (3°10'); no curve data in plans	

KY 344 Vertical Alignment Deficiencies for 55 mph

LEWIS COUNTY KY 344 MP 13.843 - MP 18.516									
VPI STATION	MILEPOINT	CREST OR SAG	CALCULATED HEADLIGHT SIGHT DISTANCE	CALCULATED STOPPING SIGHT DISTANCE	DESIGN SPEED	MINIMUM REQUIRED SIGHT DISTANCE	MEET/EXCEED SIGHT DISTANCE REQUIRED	COMMENTS	SECTION
582+50.00	13.936	S	367		55	495	NO		4
570+25.00	14.167	C		396	55	495	NO		4
559+25.00	14.375	S	329		55	495	NO		4
522+00.00	15.083	C		431	55	495	NO		4
517+00.00	15.177	S	387		55	495	NO		4
512+00.00	15.271	C		401	55	495	NO		4
508+00.00	15.347	S	440		55	495	NO		4
489+00.00	15.705	S	413		55	495	NO		4
452+75.00	16.360	S	400		55	495	NO		4
449+75.00	16.417	S	150		55	495	NO		4
445+50.00	16.497	C		320	55	495	NO		4
415+50.00	17.064	S	419		55	495	NO	KY 344	5
411+00.00	17.149	C		479	55	495	NO		5
364+75.00	18.021	C		473	55	495	NO		5

KY 59 Horizontal Alignment Deficiencies for 55 mph

LEWIS COUNTY KY 59 MP 18.093 - MP 23.190								
PI STATION	MILEPOINT @ MOC	CURVE DIRECTION (LT/RT)	RADIUS	DESIGN SPEED	MIN. RADIUS @ 8% E-MAX	MEET/EXCEED MIN. RADIUS	COMMENTS	SECTION
34+38.10	18.765	RT	286	55	960	NO		5
79+36.80	19.607	RT	819	55	960	NO		5
97+64.60	19.948	RT	521	55	960	NO		5
109+39.20	20.172	LT	819	55	960	NO		5
114+18.80	20.261	LT	573	55	960	NO		5
120+87.30	20.391	RT	441	55	960	NO		5
126+21.40	20.493	LT	955	55	960	NO	Almost meets 55 mph (955 vs 960)	5
130+42.10	20.573	RT	521	55	960	NO		5
134+91.70	20.659	LT	573	55	960	NO		5
138+01.90	20.717	RT	441	55	960	NO		5
142+37.00	20.801	RT	477	55	960	NO		5
154+16.50	21.026	LT	239	55	960	NO		5
156+95.50	21.079	RT	191	55	960	NO		5
160+15.80	21.140	LT	716	55	960	NO		5
162+85.40	21.191	LT	955	55	960	NO	Almost meets 55 mph (955 vs 960)	5
164+81.10	21.228	RT	286	55	960	NO		5
168+19.80	21.290	LT	409	55	960	NO		5
173+83.30	21.400	LT	220	55	960	NO		5
177+19.70	21.465	RT	191	55	960	NO		5
180+74.80	21.532	LT	358	55	960	NO		5
184+13.00	21.597	RT	286	55	960	NO		5
185+83.50	21.629	LT	573	55	960	NO		5
189+90.20	21.707	LT	573	55	960	NO		5
197+26.00	21.845	RT	220	55	960	NO		5
199+95.20	21.898	LT	955	55	960	NO	Almost meets 55 mph (955 vs 960)	5
204+88.60	21.992	RT	286	55	960	NO		5
209+02.60	22.070	LT	358	55	960	NO		5
217+06.00	22.223	LT	955	55	960	NO	Almost meets 55 mph (955 vs 960)	5

KY 59 Horizontal Alignment Deficiencies for 55 mph continued

LEWIS COUNTY KY 59 MP 18.093 - MP 23.190 Continued								
PI STATION	MILEPOINT @ MOC	CURVE DIRECTION (LT/RT)	RADIUS	DESIGN SPEED	MIN. RADIUS @ 8% E-MAX	MEET/EXCEED MIN. RADIUS	COMMENTS	SECTION
224+52.70	22.366	LT	870	55	960	NO		5
227+69.30	22.424	LT	286	55	960	NO		5
230+26.10	22.475	RT	573	55	960	NO		5
243+36.70	22.722	RT	220	55	960	NO		5
251+09.10	22.872	LT	573	55	960	NO		5

KY 59 Vertical Alignment Deficiencies for 55 mph

LEWIS COUNTY KY 59 MP 18.093 - MP 23.190									
VPI STATION	MILEPOINT	CREST OR SAG	CALCULATED HEADLIGHT SIGHT DISTANCE	CALCULATED STOPPING SIGHT DISTANCE	DESIGN SPEED	MINIMUM REQUIRED SIGHT DISTANCE	MEET/EXCEED SIGHT DISTANCE REQUIRED	COMMENTS	SECTION
46+25.00	18.987	C		154	55	495	NO	No curve data on plans. Estimated vertical curve to approximate profile shown on plans	5
147+75.00	20.904	S	367		55	495	NO	Estimated vertical curve to approximate profile shown on plans	5
157+40.00	21.087	C		460	55	495	NO	Estimated vertical curve to approximate profile shown on plans	5
168+25.00	21.294	S	214		55	495	NO	Estimated vertical curve to approximate profile shown on plans	5
173+00.00	21.385	C		204	55	495	NO	Estimated vertical curve to approximate profile shown on plans	5
179+10.00	21.501	C		447	55	495	NO	Estimated vertical curve to approximate profile shown on plans	5
184+00.00	21.595	C		371	55	495	NO		5
207+50.00	22.043	S	253		55	495	NO		5
241+10.00	22.682	S	469		55	495	NO	Estimated vertical curve to approximate profile shown on plans	5