

APPENDIX G:

Safety Analysis

Section	Location	Improvement Concept	CMF	Description	CMF ID	Star	Type	Severity	Crashes (2017 - 2021)			Crashes Reduced	5-Yr Savings	10-Yr Savings
									K	ABC	O			
Danville	South Danville Bypass at Fireside Drive	RCUTs	0.49	Install J-Turn Intersection	2069	1	All	ABC	0	1	3	2.04	\$94,057	\$188,115
			0.28		2070	1	All	O	0	1	3	0.72	\$23,136	\$46,272
	South Danville Bypass at Smoky Way	RCUTs	0.49	Install J-Turn Intersection	2069	1	All	ABC	1	8	19	14.28	\$752,458	\$1,504,916
			0.28		2070	1	All	O	1	8	19	5.76	\$146,526	\$293,053
	South Danville Bypass at Skywatch Dr.	Offset Left Turn Lanes	0.74	Introduce zero/positive offset	276	3	Angle	All	0	3	8	2.86	\$166,131	\$332,262
			0.62		6097	4	LT	All	0	0	1	0.38	\$4,070	\$8,140
	South Danville Bypass at Denmark Dr.	Offset Left Turn Lanes	0.74	Introduce zero/positive offset	276	3	Angle	All	0	4	23	7.02	\$255,855	\$511,710
			0.62		6097	4	LT	All	0	2	1	1.14	\$144,234	\$288,468
		Construct WB Right-Turn Lane	0.96	Provide a right turn lane on	286	4	All	All	0	13	52	2.6	\$118,180	\$236,361
	South Danville Bypass at US 127	Receiving Lane for Channelized Right Turn	0.87	Add physical channelization for right-turn	283	1	All	ABC	0	0	0	0	\$0	\$0
		Convert shopping center entrance to right-in/right-out	0.81		284	1	All	O	0	0	2	0.38	\$4,070	\$8,140
	South Danville Bypass at Brent Ave.	Offset Left Turn Lanes	0.74	Introduce zero/positive offset	276	3	Angle	All	0	11	16	7.02	\$572,016	\$1,144,032
			0.62		6097	4	LT	All	0	3	5	3.04	\$230,597	\$461,193
	Brenda Ave. to Gose Pk. (Does not include Daniel Dr.)	RCUTs	0.49	Install J-Turn Intersection	2069	1	All	ABC	0	2	8	5.1	\$188,115	\$376,229
			0.28		2070	1	All	O	0	2	8	1.44	\$61,695	\$123,391
	South Danville Bypass at Daniel Dr.	Offset Left Turn Lanes	0.74	Introduce zero/positive offset	276	3	Angle	All	1	5	2	0.52	\$2,913,027	\$5,826,054
			0.62		6097	4	LT	All	1	1	0	0.76	\$3,969,033	\$7,938,066
	South Danville Bypass at Gose Pk.	Construct EB and WB Right-Turn Lanes	0.834	Install right turn lanes in both directions	290	4	All	All	2	8	10	3.32	\$3,669,150	\$7,338,300
			0.74		276	3	Angle	All	0	1	4	1.3	\$59,090	\$118,180
	South Danville Bypass at Gose Pk.	Offset Left Turn Lanes	0.62	Introduce zero/positive offset	6097	4	LT	All	0	2	0	0.76	\$140,164	\$280,328
0.834			290		4	All	All	0	4	24	4.648	\$165,131	\$330,263	
Total												\$12,927,561	\$28,200,000	

District	County	Location	Improvement Concept	CMF	Description	CMF ID	Star	Type	Severity	Crashes (2017 - 2021)			Crashes Reduced	5-Yr Savings	10-Yr Savings
										K	ABC	O			
Rural	Boyle	US 150B to Lincoln County line	RCUT	0.54	Convert to unsignalized superstreet	4883	3	All	All	0	5	12	7.82	\$483,305	\$1,000,000
	Lincoln	Boyle County Line to Frontier Blvd	RCUT	0.54	Convert to unsignalized superstreet	4883	3	All	All	1	21	40	28.52	\$6,698,421	\$13,400,000
	Total														
														\$7,200,000	\$14,400,000

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									K	ABC	O			
Stanford	US 150 at Frontier Blvd.	RCUTs	0.49	Install J-Turn Intersection	2069	1	All	ABC	0	3	7	1.53	\$282,172	\$564,344
			0.28		2070	1	All	O	0	3	7	5.04	\$53,983	\$107,967
	US 150 at KY 300	Remove Channelized Right Turn	0.558	Improve angle of channelized RT	8428	4	All	All	0	0	1	0.442	\$4,734	\$9,469
			0.49		Install J-Turn Intersection	2069	1	All	ABC	1	10	20	15.81	\$940,573
	0.28	2070	1	All		O	0	1	3	0.72	\$23,136	\$46,272		
	US 150 from KY 300 to Choctaw Dr.	RCUTs	0	Install J-Turn Intersection	2068	1	ALL	K	1	0	0	1	\$10,260,398	\$20,520,796
			0.49		2069	1	All	ABC	0	9	8	4.59	\$846,515	\$1,693,031
			0.28		2070	1	All	O	0	9	8	5.76	\$61,695	\$123,391
	US 150 at US 27	Add Receiving Lane for Channelized Right Turn (EB)	0.87	Add physical channelization for right turn	283	1	All	ABC	0	1	21	0.13	\$23,975	\$47,951
			0.81		284	1	All	O	0	1	21	3.99	\$24,742	\$49,485
		Add Receiving Lane for Channelized Right Turn (WB, NB, SB)	0.87	Add physical channelization for right turn	283	1	All	ABC	0	0	9	0	\$0	\$0
			0.81		284	1	All	O	0	0	9	1.71	\$96,399	\$192,798
	US 27 at Vincent St.	RCUTs	0.49	Install J-Turn Intersection	2069	1	All	ABC	0	0	9	0	\$0	\$0
			0.28		2070	1	All	O	0	0	9	6.48	\$69,407	\$138,815
	East of US 27	Provide Longer Merge Section	0.89	Extend Acceleration Lane by 100'	474	3	All	All	0	0	2	0.22	\$2,356	\$4,713
	Total												\$12,700,000	\$25,400,000