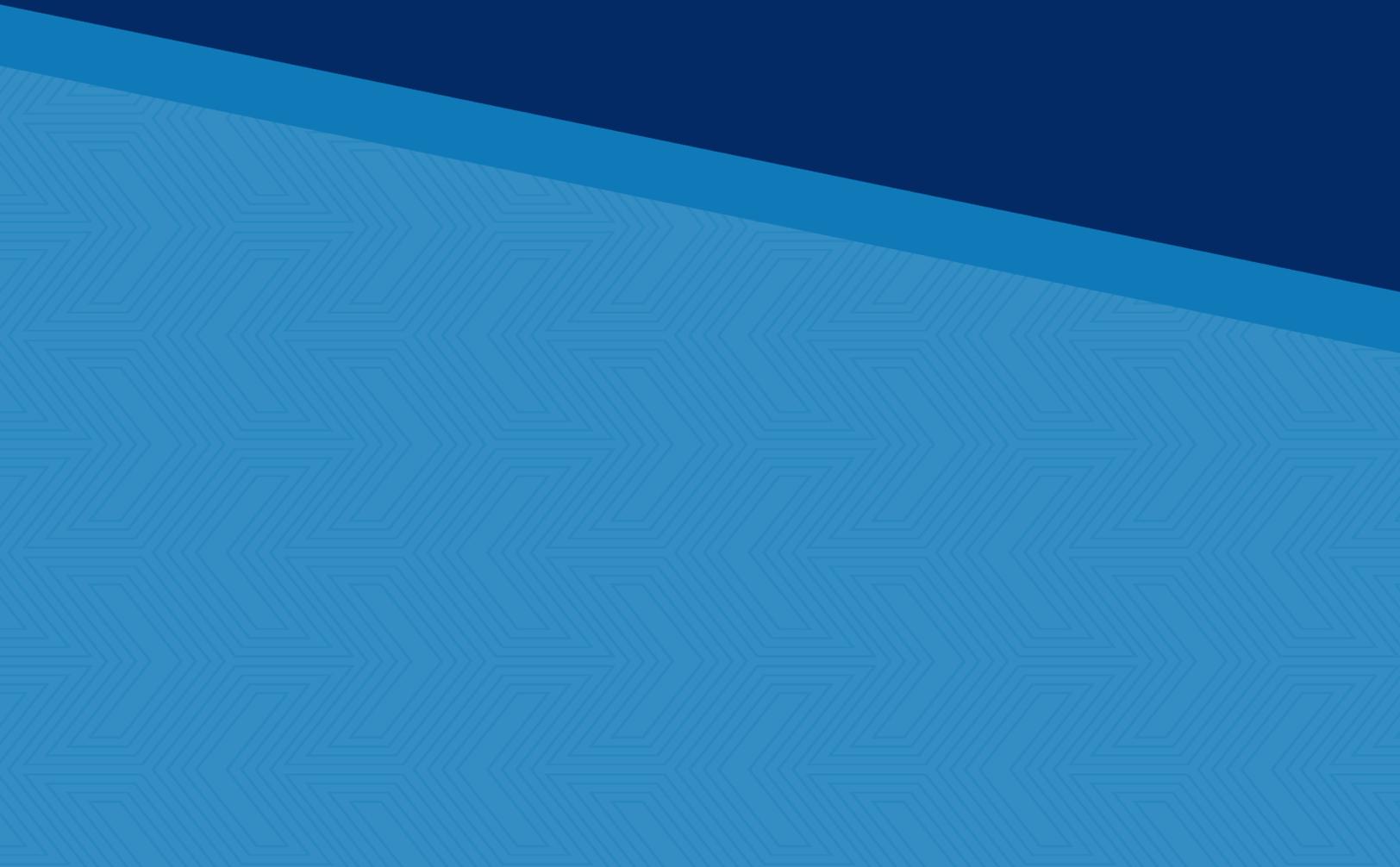


# Appendix R



KY 1865 (Taylor Blvd / New Cut Road)  
Return on Investment Calculations  
July 2025

Buildable Unit	Proposed Predicted Total Crash Frequency (crashes/yr)	Existing Predicted Total Crash Frequency (crashes/yr)	Change in Crashes per Year	Benefit	
				Crash Benefit per Year	20 Year Crash Benefit
A	21.4918	22.5336	-1.0418	\$ 133,678.00	\$2,185,827
B	9.8478	14.0977	-4.2499	\$ 545,322.00	\$8,916,796
C	15.518	19.0235	-3.5055	\$ 449,805.00	\$7,354,956
D	7.132	13.187	-6.055	\$ 776,941.00	\$12,704,099
E	17.5104	26.9214	-9.411	\$ 1,207,563.00	\$19,745,386
F	23.3345	40.2448	-16.9103	\$ 2,169,828.00	\$35,479,798
G	42.8943	54.9282	-12.0339	\$ 1,544,118.00	\$25,248,543

Long-Term Standalone Projects			
Total Cost	Total Cost with Contingency	B/C ratio	20 year B/C ratio
\$ 8,168,200.00	\$ 10,618,660.00	0.0126	0.2058
\$ 7,013,500.00	\$ 9,117,550.00	0.0598	0.9780
\$ 7,018,443.78	\$ 9,123,976.91	0.0493	0.8061
\$ 3,325,600.00	\$ 4,323,280.00	0.1797	2.9385
\$ 4,991,300.00	\$ 6,488,690.00	0.1861	3.0430
\$ 6,211,600.00	\$ 8,075,080.00	0.2687	4.3937
\$ 7,143,200.00	\$ 9,286,160.00	0.1663	2.7189

Combination of Short-Term and Long-Term Implementation			
Total Cost	Total Cost with Contingency	B/C ratio	20 year B/C ratio
\$ 8,783,200.00	\$ 11,418,160.00	0.0117	0.1914
\$ 7,133,500.00	\$ 9,273,550.00	0.0588	0.9615
\$ 7,673,500.00	\$ 9,975,550.00	0.0451	0.7373
\$ 3,955,600.00	\$ 5,142,280.00	0.1511	2.4705
-	-	-	-
\$ 6,414,700.00	\$ 8,339,110.00	0.2602	4.2546
-	-	-	-