



Safety Benefit - Cost Analysis

General Information

Project Name	CLI US 22 @ SR-380/Creek Rd	Contact Email	brianne.hetzel@dot.ohio.gov
Project Description	Single lane roundabout	Contact Phone	513-933-6624
Reference Number		Date Performed	3/6/2025
Analyst	Bree Hetzel	Analysis Year	2025
Agency/Company	ODOT D8		

Comments:

Select Site Types to be used in Benefit-Cost Analysis:

All Sites

Countermeasure Service Lives, Costs, and Safety Benefits

Countermeasures	Service Life (Years)	Initial Cost of Countermeasure	Annual Maintenance & Energy Costs	Salvage Value	Net Present Cost of Countermeasure	Total Cost of Countermeasures	Summary of Annual Crash Modifications	Net Present Value of Safety Benefits
Single Lane Modern Roundabout	20	\$3,475,000.00			\$3,475,000.00	\$3,475,000.00	-2.827	\$3,186,789
		\$0.00			\$0.00	\$0.00		
		\$0.00			\$0.00	\$0.00		
		\$0.00			\$0.00	\$0.00		
		\$0.00			\$0.00	\$0.00		
		\$0.00			\$0.00	\$0.00		
		\$0.00			\$0.00	\$0.00		
		\$0.00			\$0.00	\$0.00		
		\$0.00			\$0.00	\$0.00		
		\$0.00			\$0.00	\$0.00		
Totals		\$3,475,000.00	\$0.00	\$0.00	\$3,475,000.00	\$3,475,000.00	-2.827	\$3,186,789

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Benefit - Cost Calculator	Expected Annual Crash Adjustment	Comments:
<p>Net Present Value of Project \$3,475,000.00</p> <p>Net Present Value of Safety Benefits \$3,186,789.13</p> <p>Net Benefit (\$288,210.87)</p> <p>Benefit / Cost Ratio 0.92</p>	<p>Number of Fatal & Incapacitating Injury Crashes -0.288</p> <p>Number of Injury Crashes -1.379</p> <p>Number of Total Crashes -2.827</p>	

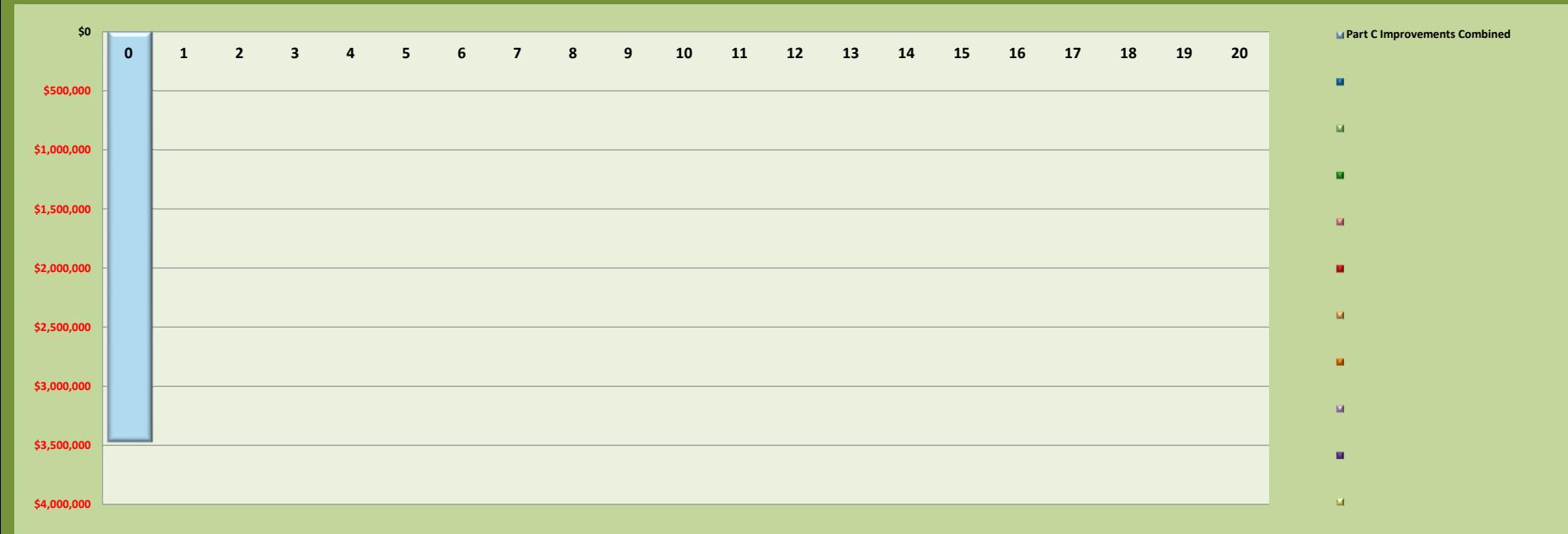


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Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)

