

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		

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

All Sites

Comments:

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	0.000	\$0
		\$0.00			\$0.00	\$0.00	0.000	\$0
		\$0.00			\$0.00	\$0.00	0.000	\$0
		\$0.00			\$0.00	\$0.00	0.000	\$0
		\$0.00			\$0.00	\$0.00	0.000	\$0
		\$0.00			\$0.00	\$0.00	0.000	\$0
		\$0.00			\$0.00	\$0.00	0.000	\$0
		\$0.00			\$0.00	\$0.00	0.000	\$0
		\$0.00			\$0.00	\$0.00	0.000	\$0
		\$0.00			\$0.00	\$0.00	0.000	\$0
		\$0.00			\$0.00	\$0.00	0.000	\$0
		\$0.00			\$0.00	\$0.00	0.000	\$0
		\$0.00			\$0.00	\$0.00	0.000	\$0
		\$0.00			\$0.00	\$0.00	0.000	\$0
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

Net Present Value of Project **\$3,475,000.00**

Net Present Value of Safety Benefits **\$3,186,789.13**

Net Benefit **(\$288,210.87)**

Benefit / Cost Ratio **0.92**

Expected Annual Crash Adjustment

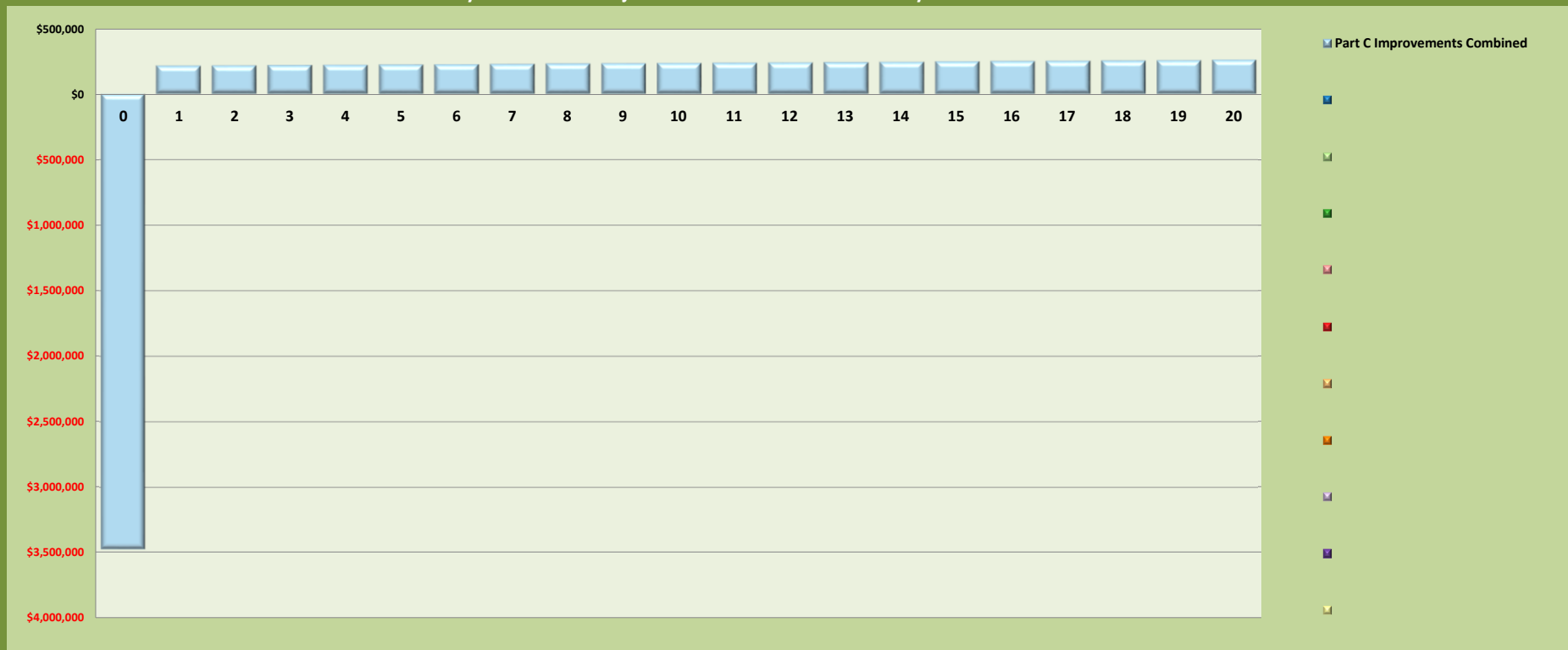
Number of Fatal & Incapacitating Injury Crashes **-0.288**

Number of Injury Crashes **-1.379**

Number of Total Crashes **-2.827**

Comments:

Safety Benefits and Project Costs Combined Cash Flows By Countermeasure Per Year



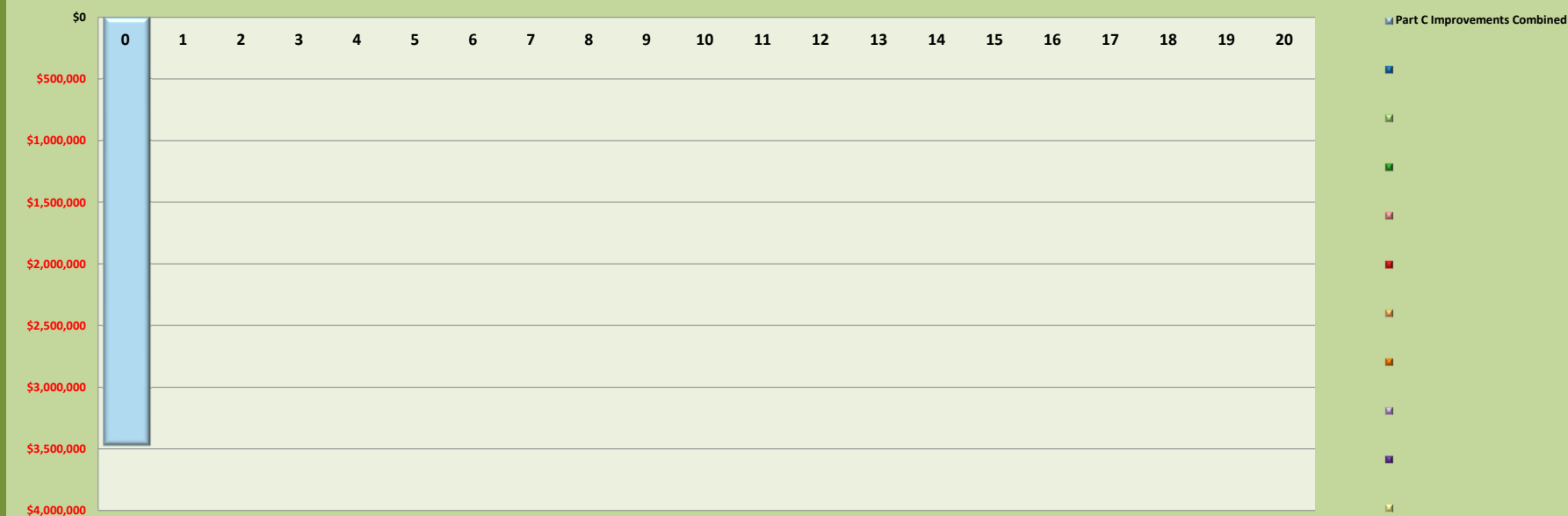


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Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)

