

Appendix L

ECAT Results

IR-71/IR-271 Interchange No Build ECAT Reports

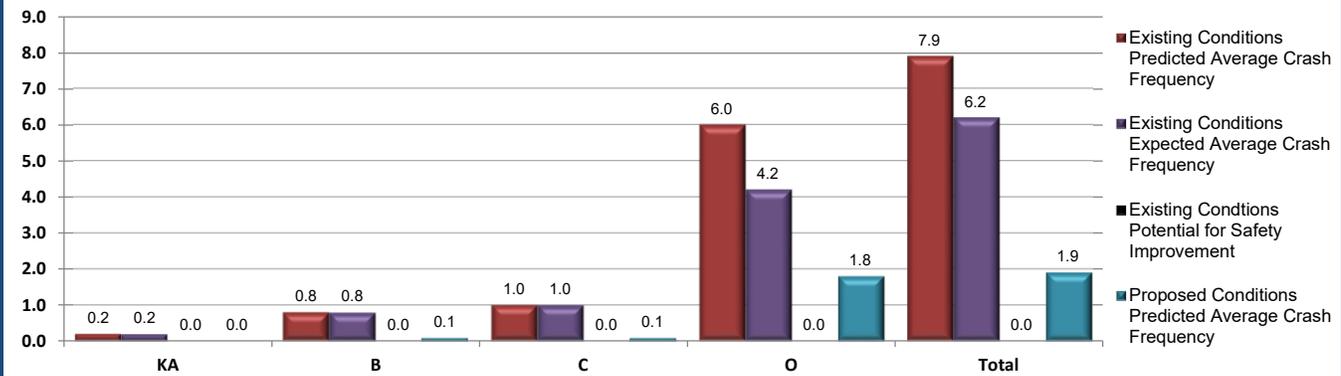


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #10 - Roundabout Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.1856	0.7897	0.9981	5.9646	7.9380
N_{expected} - Existing Conditions	0.1893	0.8056	1.0185	4.2355	6.2489
N_{potential for improvement} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{expected} - Proposed Conditions	0.0089	0.0743	0.0917	1.7672	1.9421



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #10 - Roundabout Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$4,378,000.00			\$4,378,000.00	\$4,378,000.00		
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00	-5.996	\$2,610,874
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$4,378,000.00	\$0.00	\$0.00	\$4,378,000.00	\$4,378,000.00	-5.996	\$2,610,874



Safety Benefit - Cost Analysis

General Information

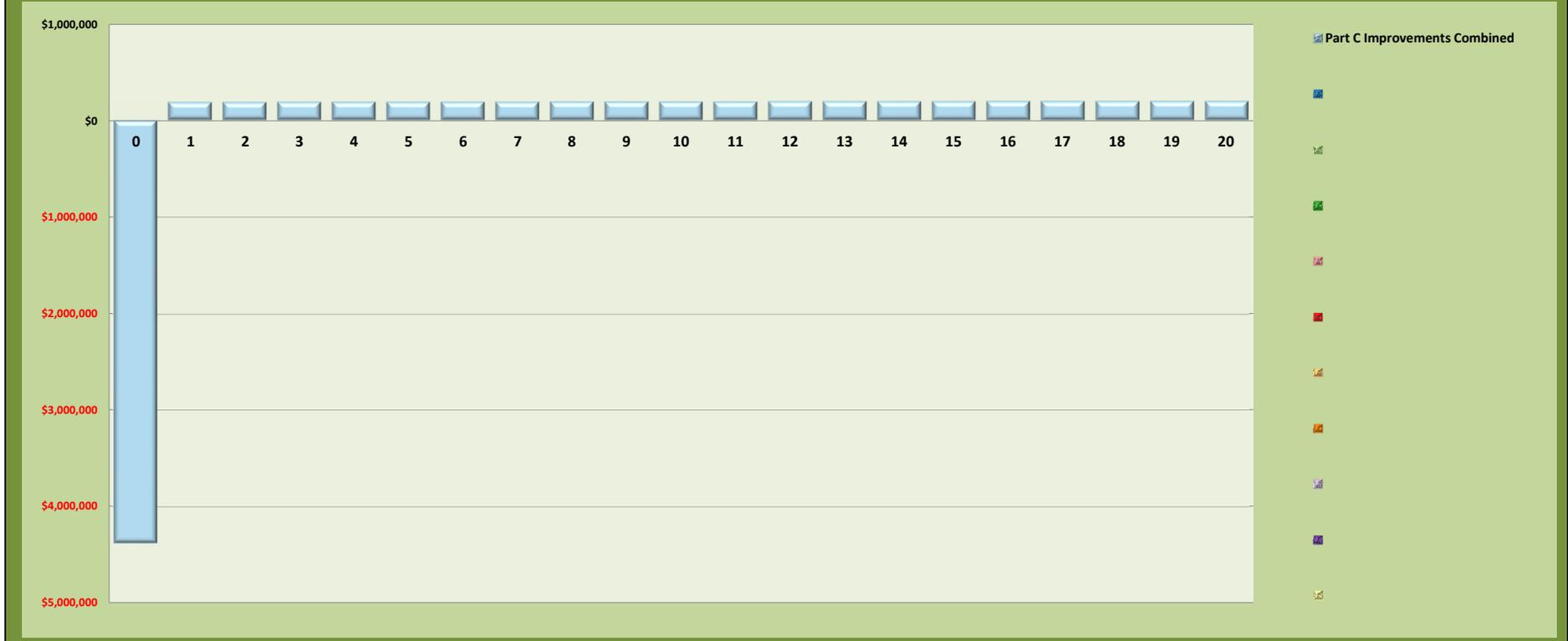
Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #10 - Roundabout Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator	
Net Present Value of Project	\$4,378,000.00
Net Present Value of Safety Benefits	\$2,610,874.10
Net Benefit	(\$1,767,125.90)
Benefit / Cost Ratio	0.60

Expected Annual Crash Adjustment	
Number of Fatal & Incapacitating Injury Crashes	-0.177
Number of Injury Crashes	-1.799
Number of Total Crashes	-5.996

Comments:

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



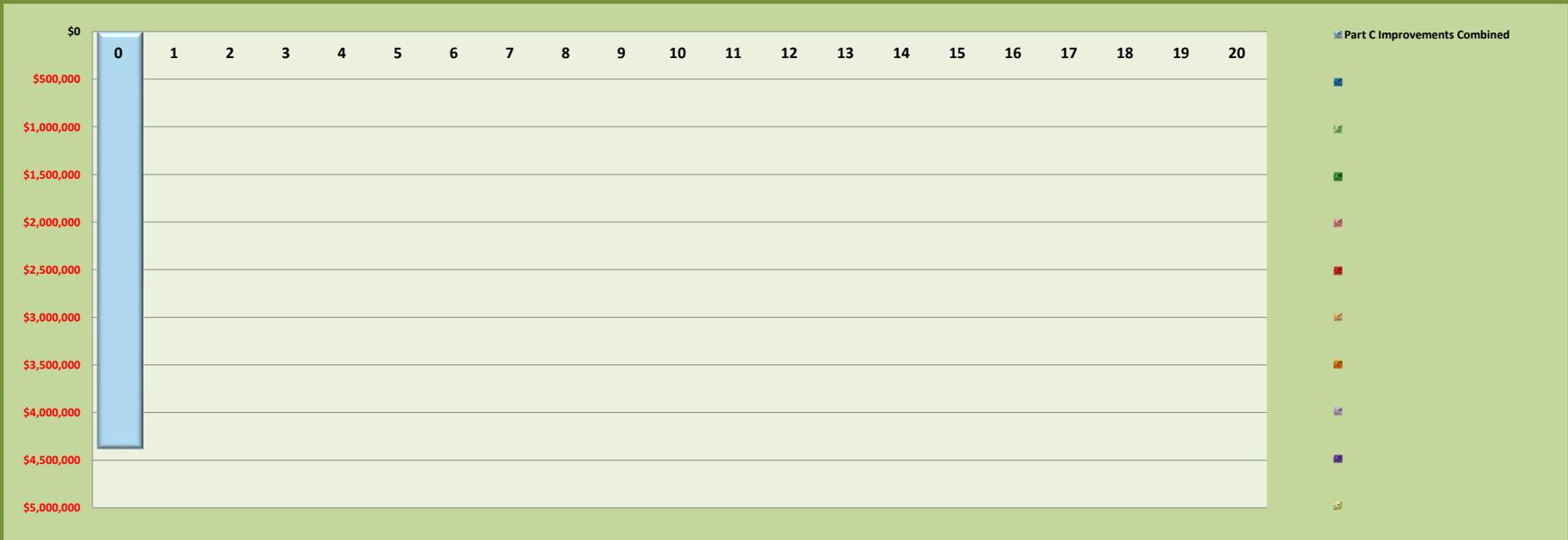


Safety Benefit - Cost Analysis

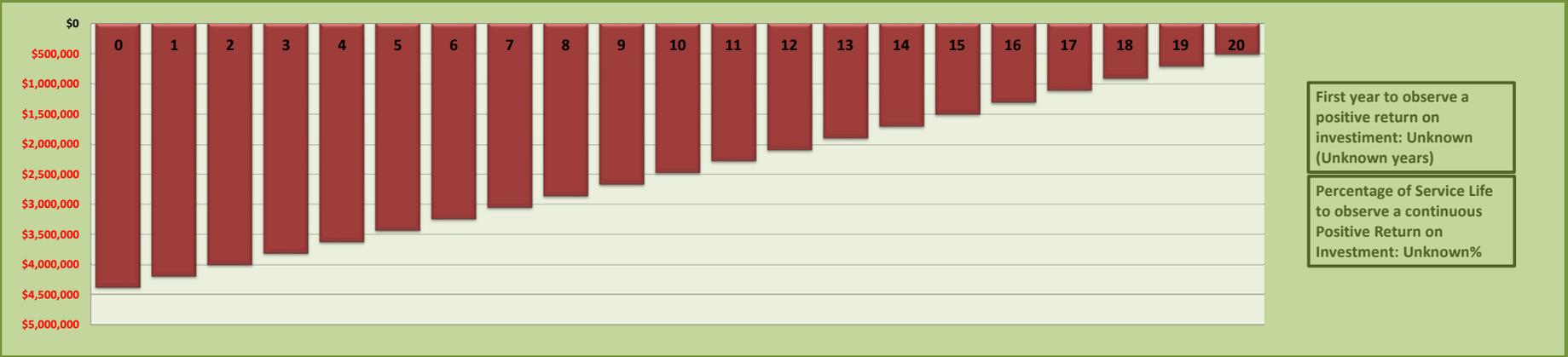
General Information

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Project Description	Intersection #10 - Roundabout Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philipposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



First year to observe a positive return on investment: Unknown (Unknown years)

Percentage of Service Life to observe a continuous Positive Return on Investment: Unknown%

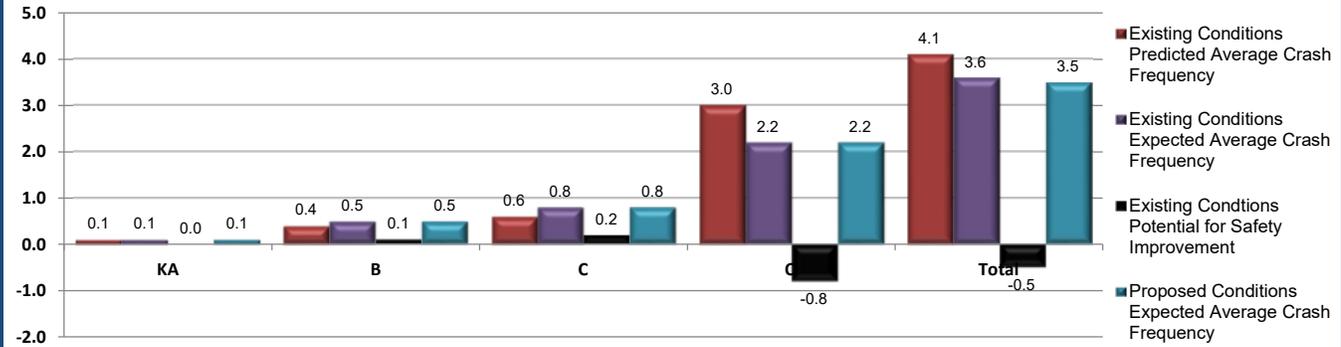


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #10 - Signal Phasing Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.0735	0.3943	0.6110	3.0463	4.1251
N_{expected} - Existing Conditions	0.0905	0.4931	0.7917	2.2179	3.5932
N_{potential for improvement} - Existing Conditions	0.0170	0.0988	0.1807	-0.8284	-0.5319
N_{expected} - Proposed Conditions	0.0888	0.4834	0.7760	2.1738	3.5220



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #10 - Signal Phasing Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$167,000.00			\$167,000.00	\$167,000.00	-0.071	\$32,962
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$167,000.00	\$0.00	\$0.00	\$167,000.00	\$167,000.00	-0.071	\$32,962



Safety Benefit - Cost Analysis

General Information

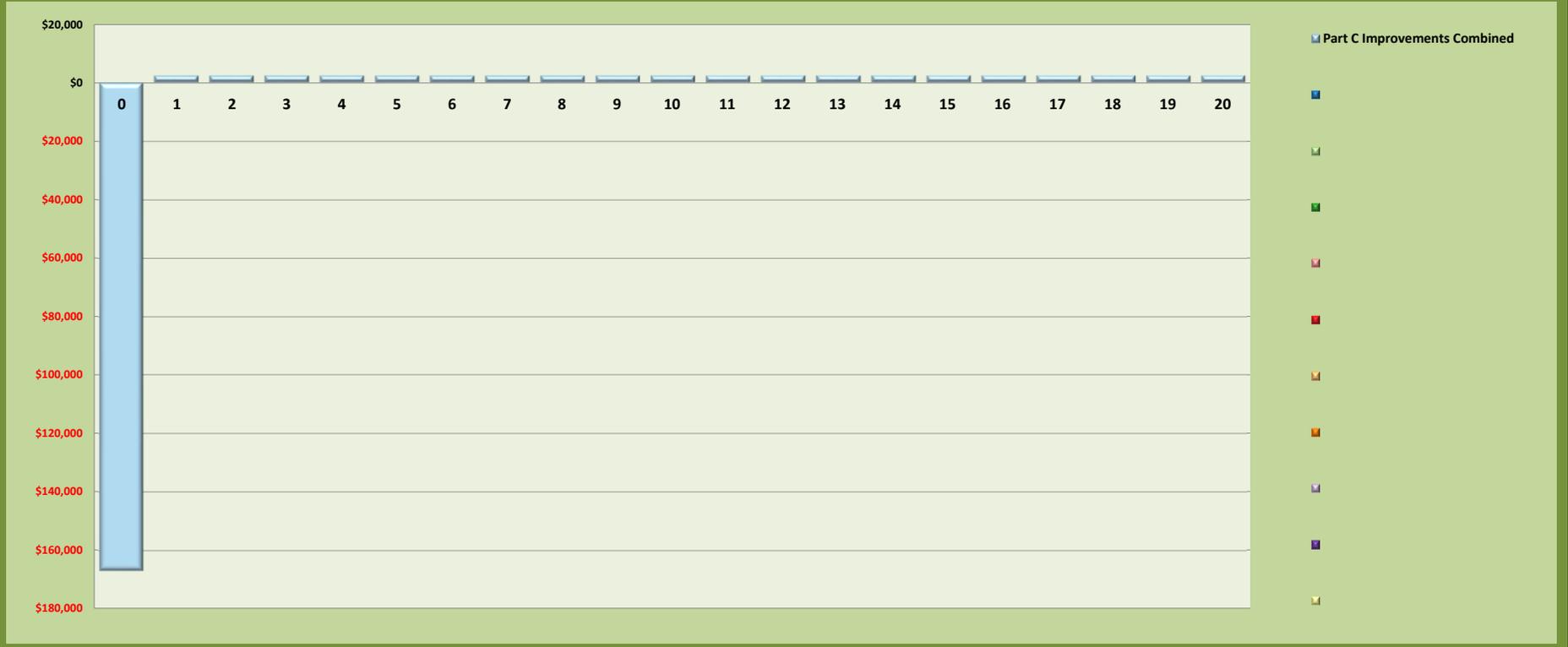
Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #10 - Signal Phasing Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philipposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator	
Net Present Value of Project	\$167,000.00
Net Present Value of Safety Benefits	\$32,962.24
Net Benefit	(\$134,037.76)
Benefit / Cost Ratio	0.20

Expected Annual Crash Adjustment	
Number of Fatal & Incapacitating Injury Crashes	-0.002
Number of Injury Crashes	-0.027
Number of Total Crashes	-0.071

Comments:

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



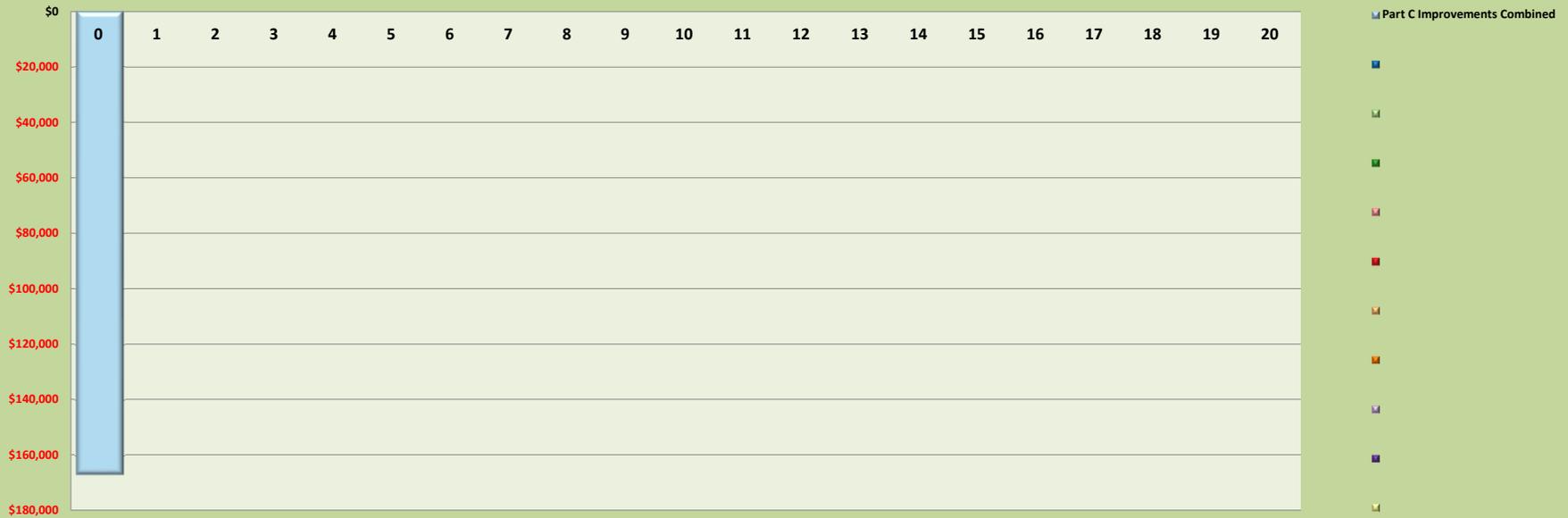


Safety Benefit - Cost Analysis

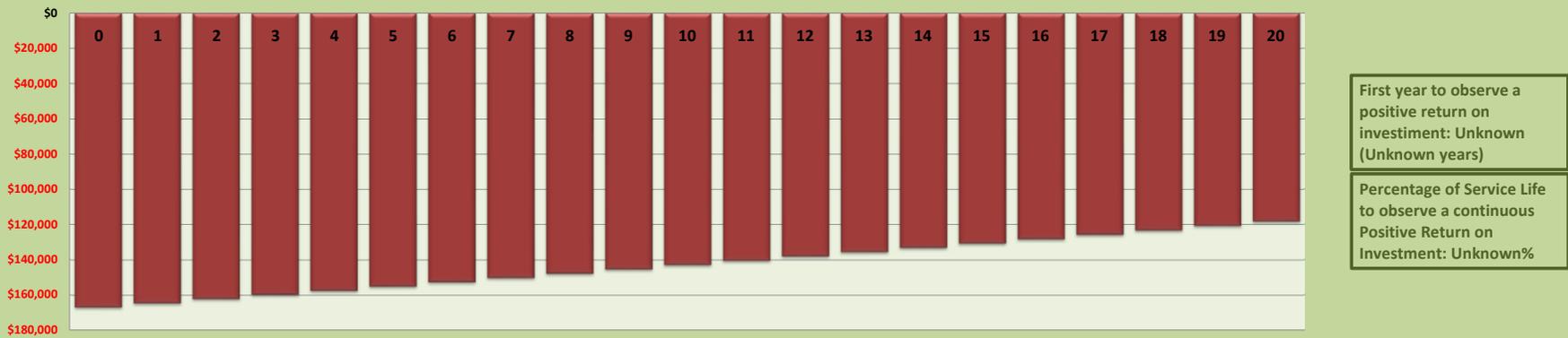
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #10 - Signal Phasing Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



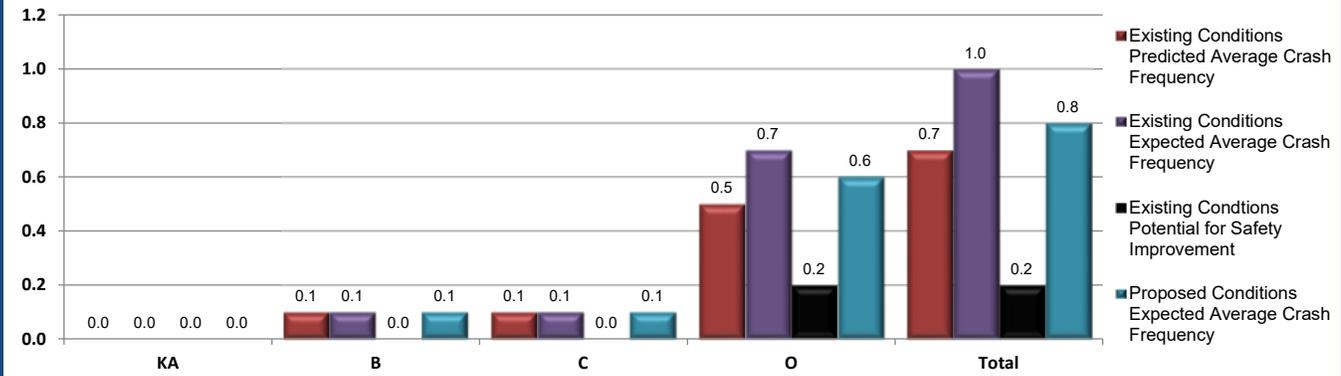


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #30 - Right Turn Lane Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.0418	0.0981	0.0852	0.5051	0.7302
N_{expected} - Existing Conditions	0.0465	0.1088	0.0945	0.7230	0.9728
N_{potential for improvement} - Existing Conditions	0.0047	0.0107	0.0093	0.2179	0.2426
N_{expected} - Proposed Conditions	0.0358	0.0838	0.0728	0.6218	0.8142



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #30 - Right Turn Lane Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$80,000.00			\$80,000.00	\$80,000.00	-0.159	\$116,011
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$80,000.00	\$0.00	\$0.00	\$80,000.00	\$80,000.00	-0.159	\$116,011



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #30 - Right Turn Lane Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
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Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator

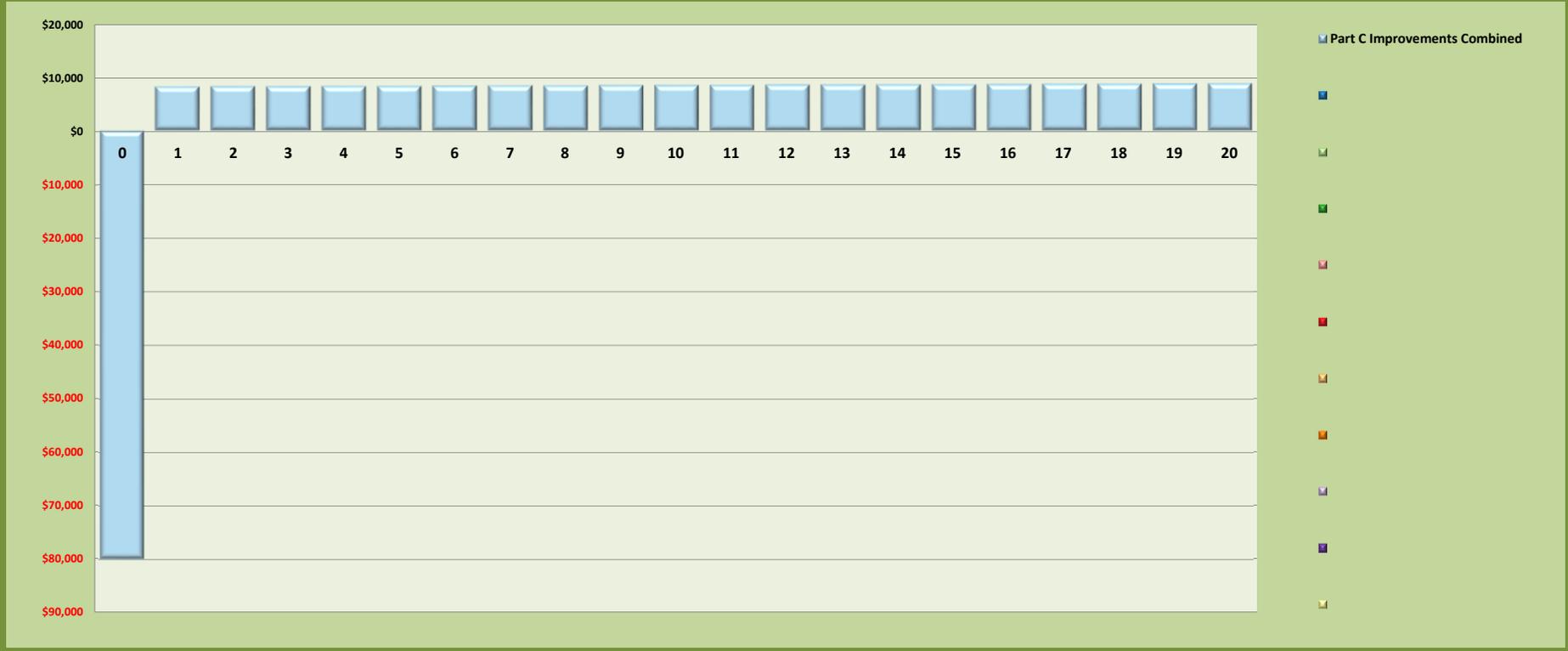
Net Present Value of Project	\$80,000.00
Net Present Value of Safety Benefits	\$116,011.35
Net Benefit	\$36,011.35
Benefit / Cost Ratio	1.45

Expected Annual Crash Adjustment

Number of Fatal & Incapacitating Injury Crashes	-0.011
Number of Injury Crashes	-0.057
Number of Total Crashes	-0.159

Comments:

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



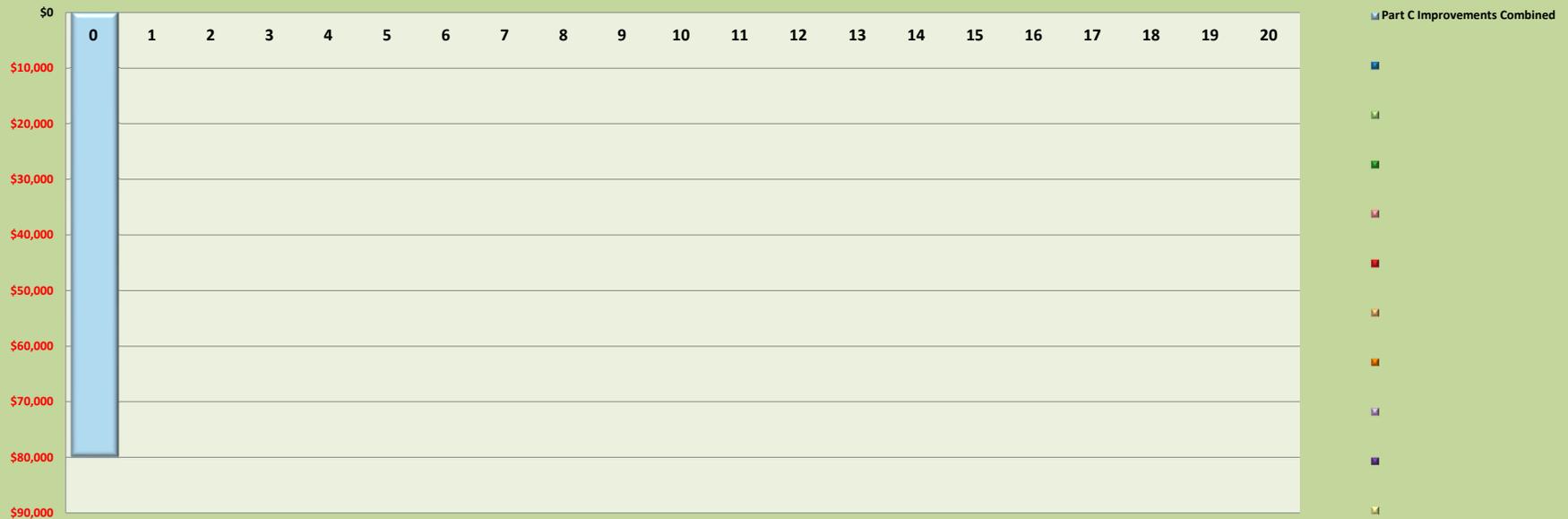


Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #30 - Right Turn Lane Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



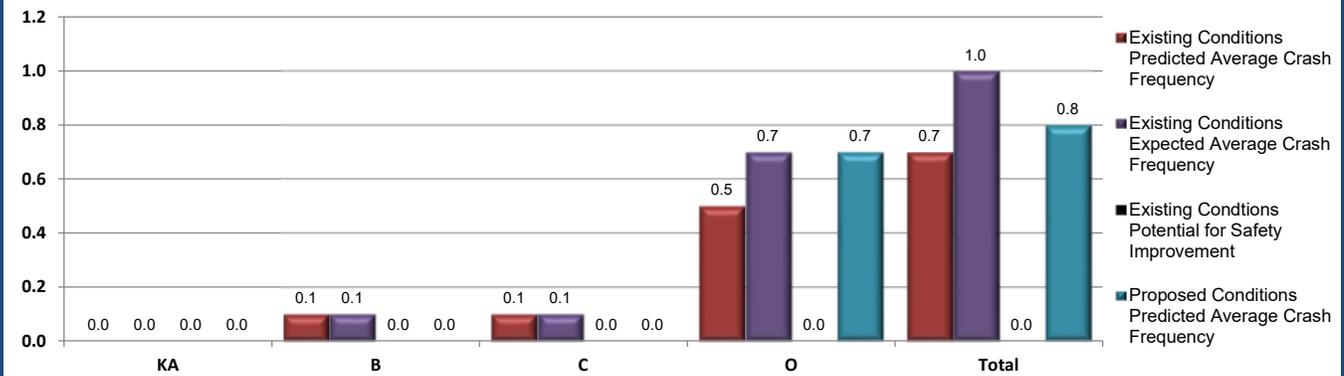


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #30 - Roundabout Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.0418	0.0981	0.0852	0.5051	0.7302
N_{expected} - Existing Conditions	0.0465	0.1088	0.0945	0.7230	0.9728
N_{potential for improvement} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{expected} - Proposed Conditions	0.0041	0.0351	0.0437	0.6714	0.7543



Safety Benefit - Cost Analysis

General Information

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Project Description	Intersection #30 - Roundabout Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$3,500,000.00			\$3,500,000.00	\$3,500,000.00	0.024	\$357,922
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$3,500,000.00	\$0.00	\$0.00	\$3,500,000.00	\$3,500,000.00	0.024	\$357,922



Safety Benefit - Cost Analysis

General Information

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Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator

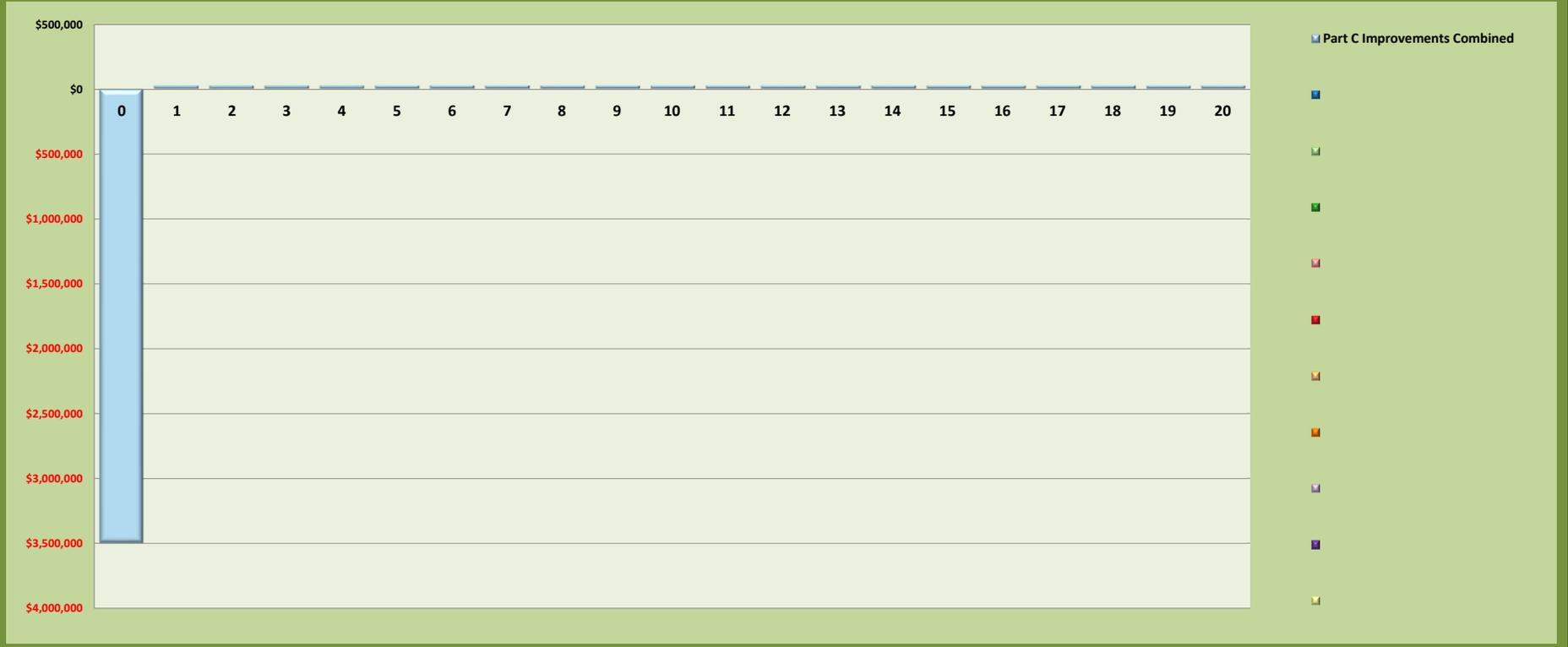
Net Present Value of Project	\$3,500,000.00
Net Present Value of Safety Benefits	\$357,922.02
Net Benefit	(\$3,142,077.98)
Benefit / Cost Ratio	0.10

Expected Annual Crash Adjustment

Number of Fatal & Incapacitating Injury Crashes	-0.038
Number of Injury Crashes	-0.142
Number of Total Crashes	0.024

Comments:

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



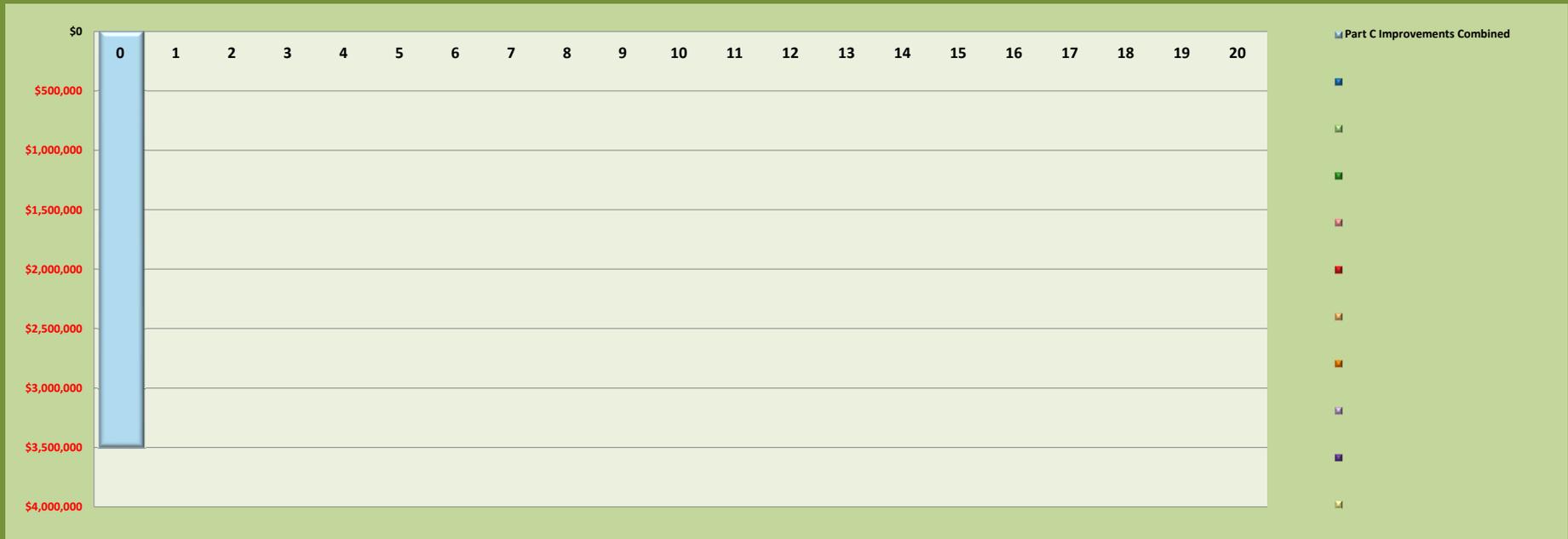


Safety Benefit - Cost Analysis

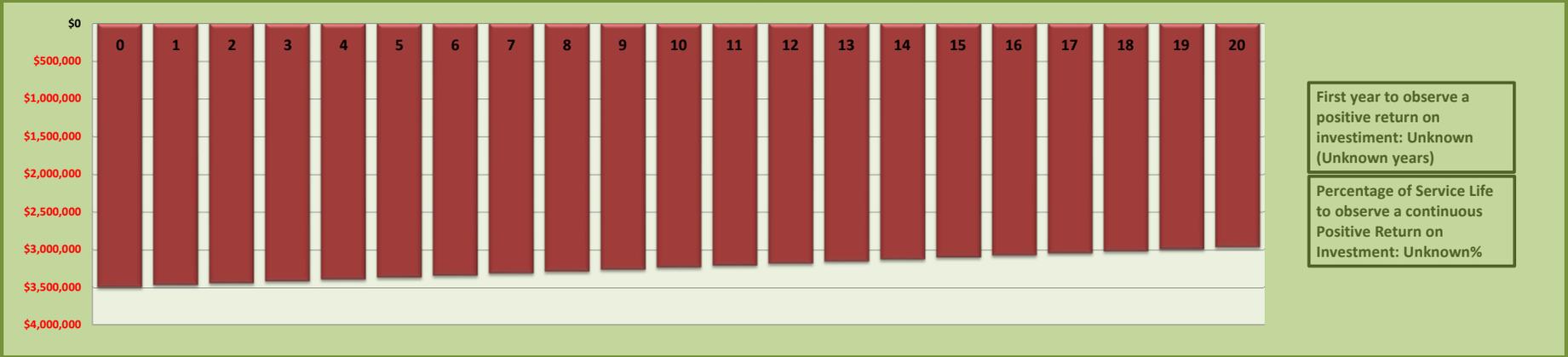
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Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



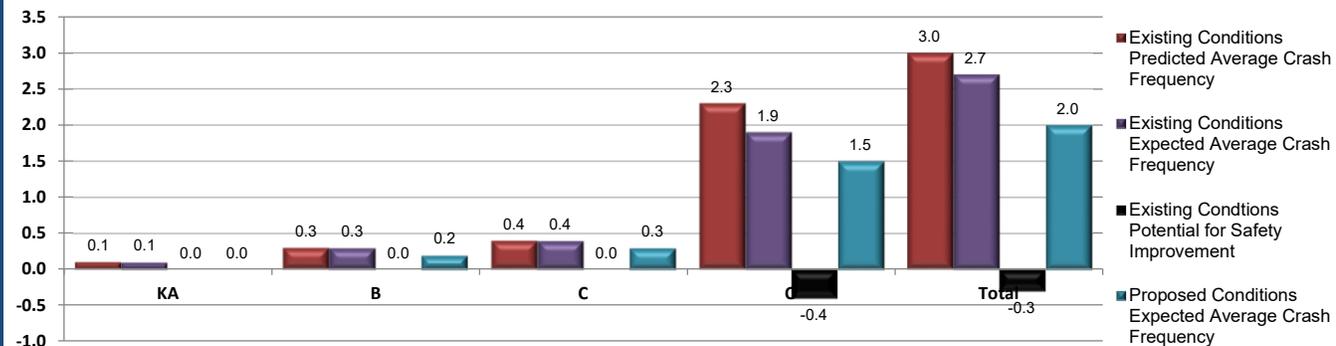


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #40 - Added Turn Lane Alternative W Right Turn Lane (No-Build)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.0621	0.2559	0.3952	2.2791	2.9923
N_{expected} - Existing Conditions	0.0656	0.2702	0.4178	1.9237	2.6773
N_{potential for improvement} - Existing Conditions	0.0035	0.0143	0.0226	-0.3554	-0.3150
N_{expected} - Proposed Conditions	0.0446	0.1838	0.2842	1.4950	2.0076



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #40 - Added Turn Lane Alternative W Right Turn Lane (No-Build)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$1,631,000.00			\$1,631,000.00	\$1,631,000.00		
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00	-0.670	\$329,032
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$1,631,000.00	\$0.00	\$0.00	\$1,631,000.00	\$1,631,000.00	-0.670	\$329,032



Safety Benefit - Cost Analysis

General Information

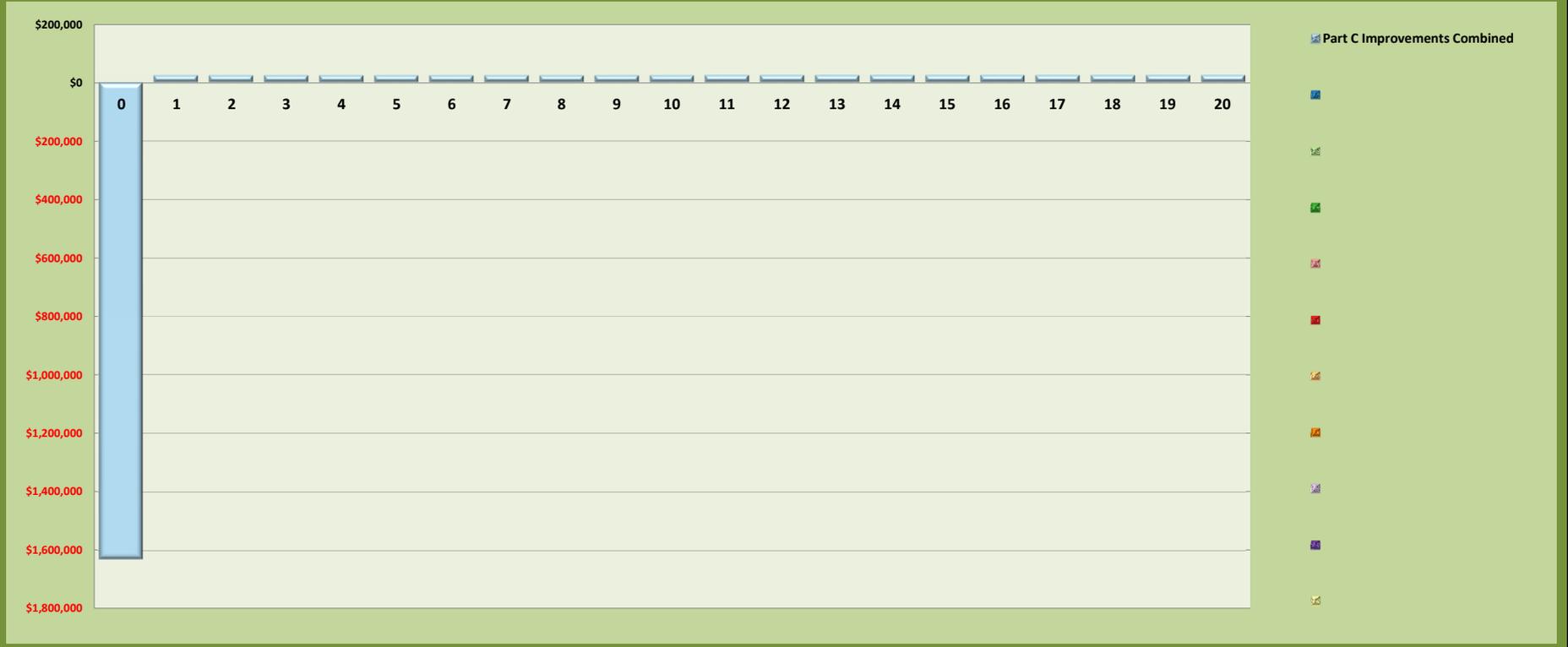
Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #40 - Added Turn Lane Alternative W Right Turn Lane (No-Build)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator	
Net Present Value of Project	\$1,631,000.00
Net Present Value of Safety Benefits	\$329,031.91
Net Benefit	(\$1,301,968.09)
Benefit / Cost Ratio	0.20

Expected Annual Crash Adjustment	
Number of Fatal & Incapacitating Injury Crashes	-0.021
Number of Injury Crashes	-0.241
Number of Total Crashes	-0.670

Comments:

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



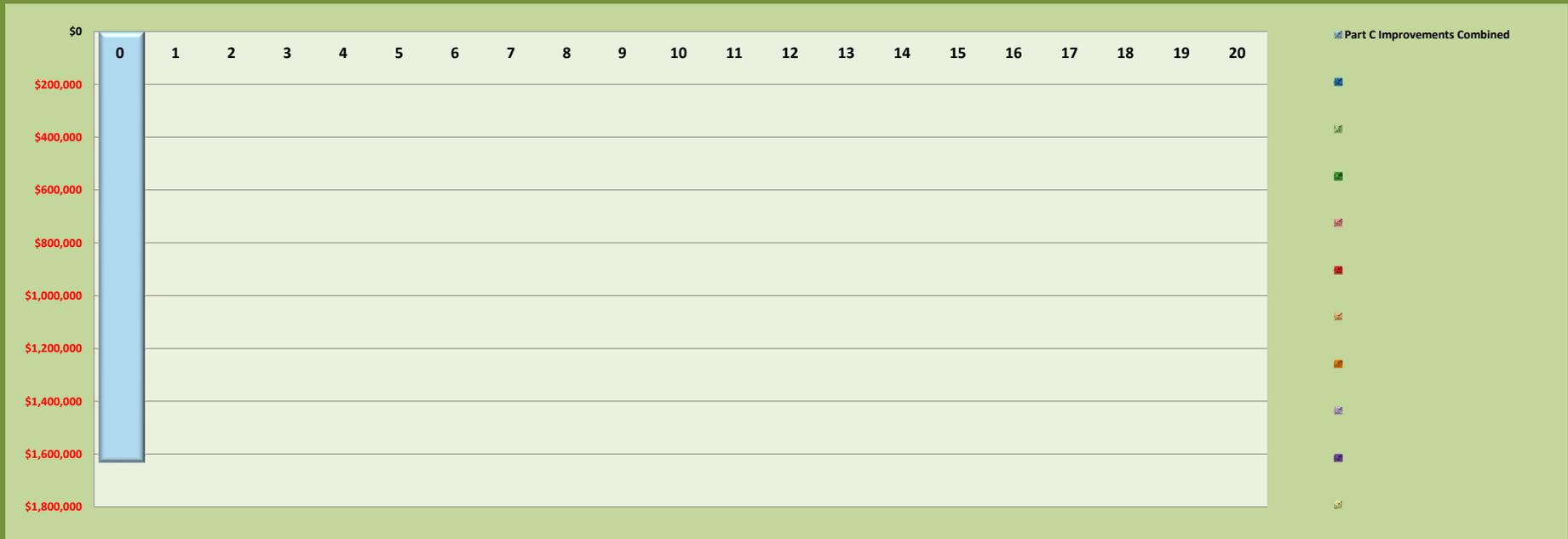


Safety Benefit - Cost Analysis

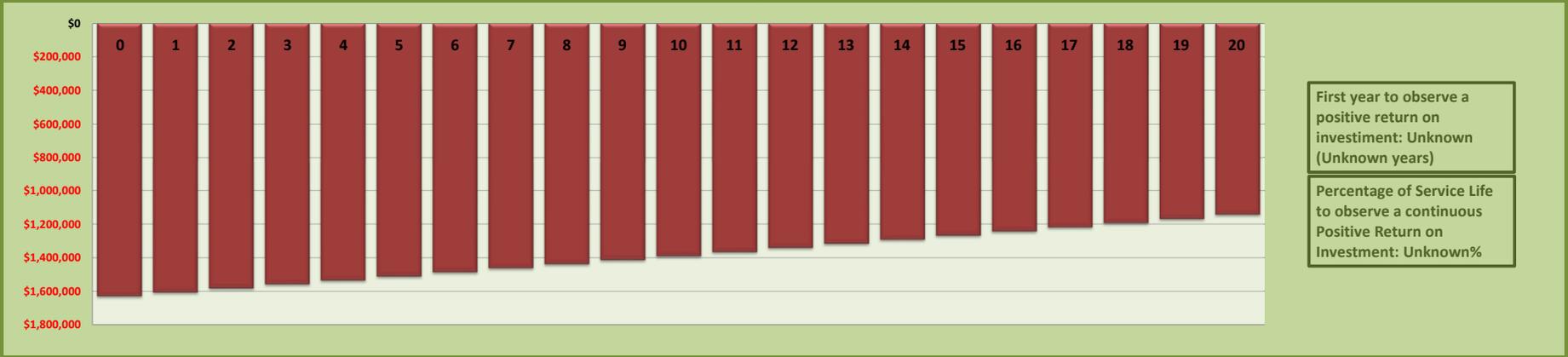
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #40 - Added Turn Lane Alternative W Right Turn Lane (No-Build)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



First year to observe a positive return on investment: Unknown (Unknown years)

Percentage of Service Life to observe a continuous Positive Return on Investment: Unknown%

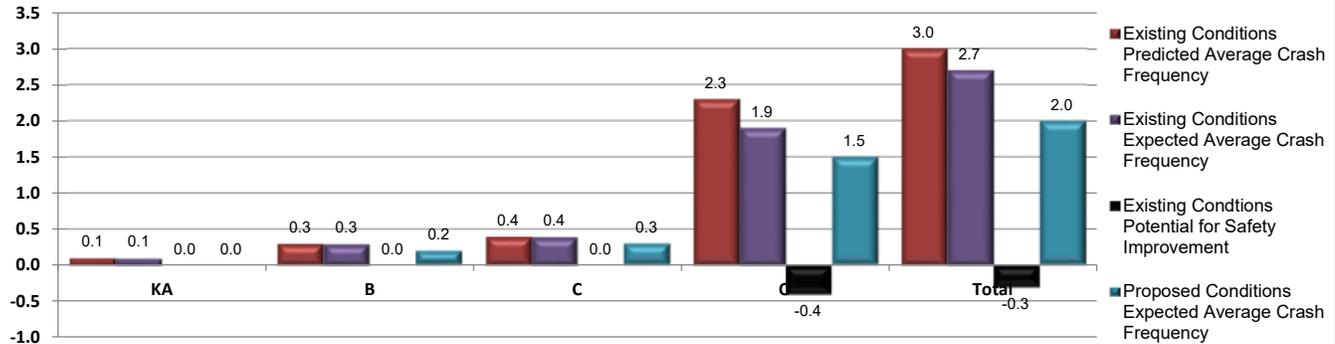


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #40 - Added Turn Lane Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.0621	0.2559	0.3952	2.2791	2.9923
N_{expected} - Existing Conditions	0.0656	0.2702	0.4178	1.9237	2.6773
N_{potential for improvement} - Existing Conditions	0.0035	0.0143	0.0226	-0.3554	-0.3150
N_{expected} - Proposed Conditions	0.0446	0.1838	0.2842	1.4950	2.0076



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #40 - Added Turn Lane Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$1,631,000.00			\$1,631,000.00	\$1,631,000.00	-0.670	\$329,032
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$1,631,000.00	\$0.00	\$0.00	\$1,631,000.00	\$1,631,000.00	-0.670	\$329,032



Safety Benefit - Cost Analysis

General Information

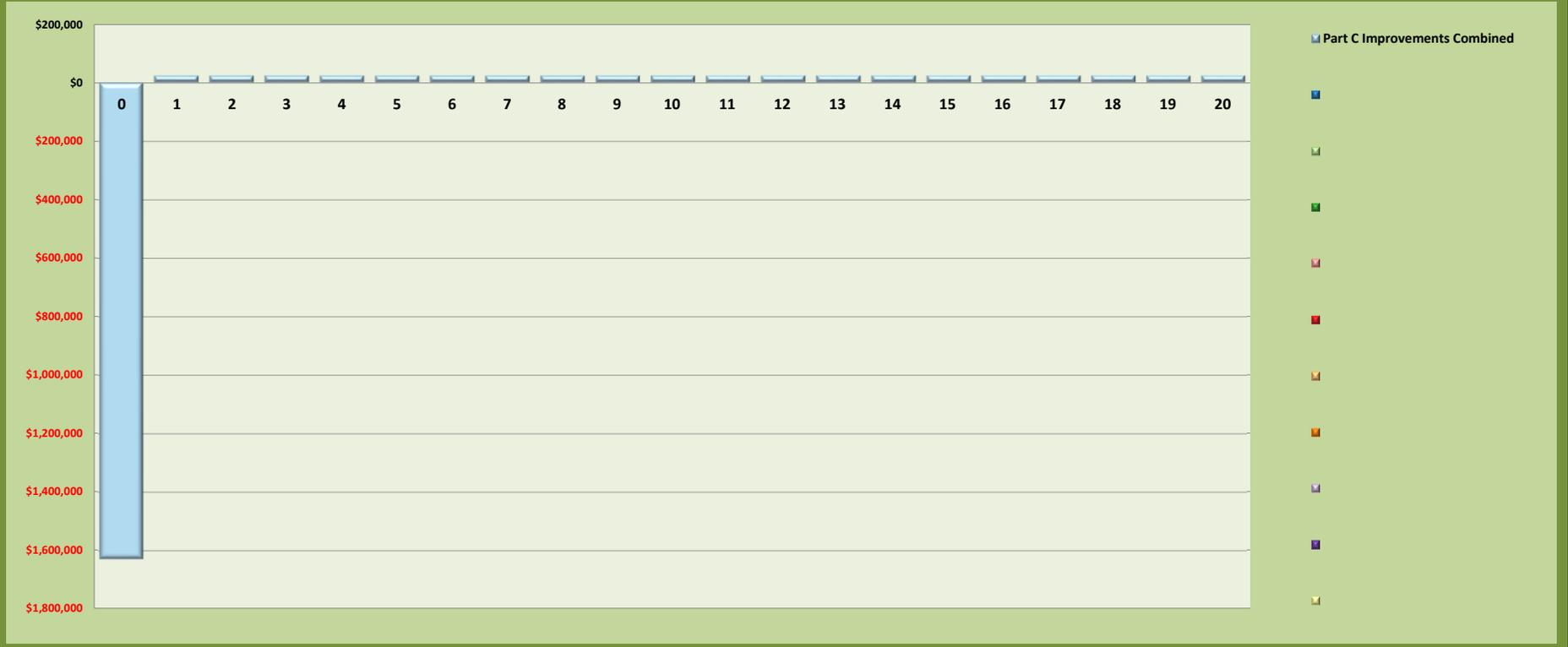
Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #40 - Added Turn Lane Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator	
Net Present Value of Project	\$1,631,000.00
Net Present Value of Safety Benefits	\$329,031.91
Net Benefit	(\$1,301,968.09)
Benefit / Cost Ratio	0.20

Expected Annual Crash Adjustment	
Number of Fatal & Incapacitating Injury Crashes	-0.021
Number of Injury Crashes	-0.241
Number of Total Crashes	-0.670

Comments:

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



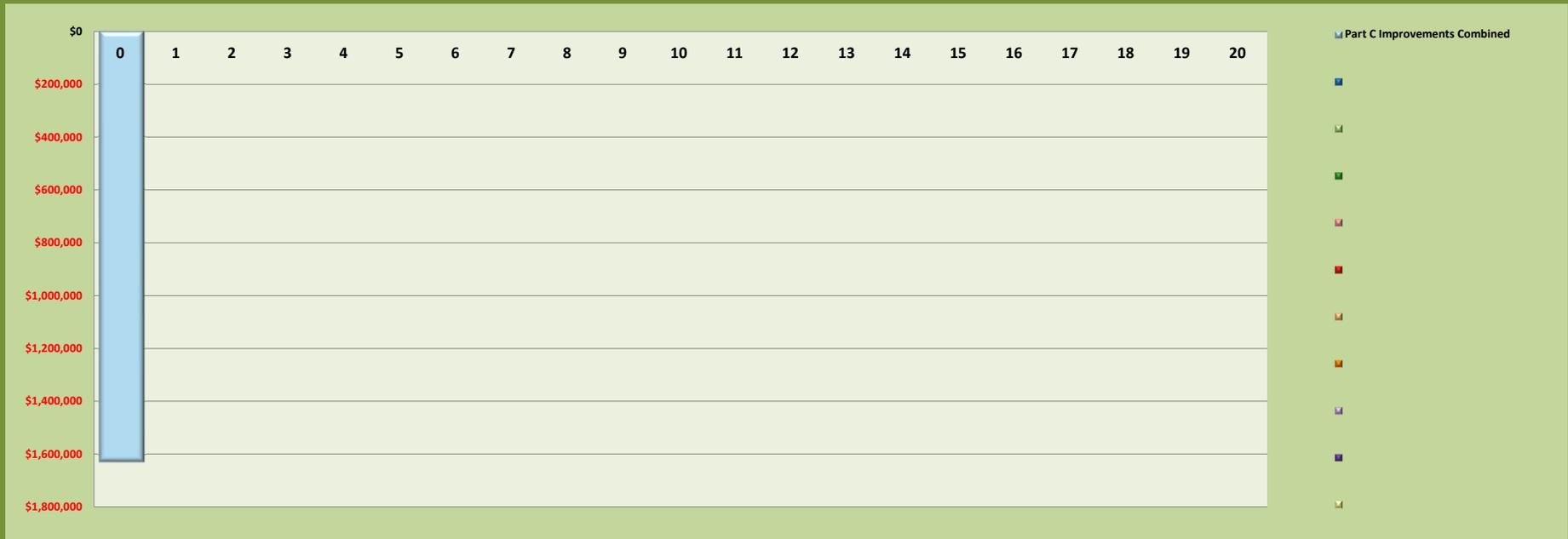


Safety Benefit - Cost Analysis

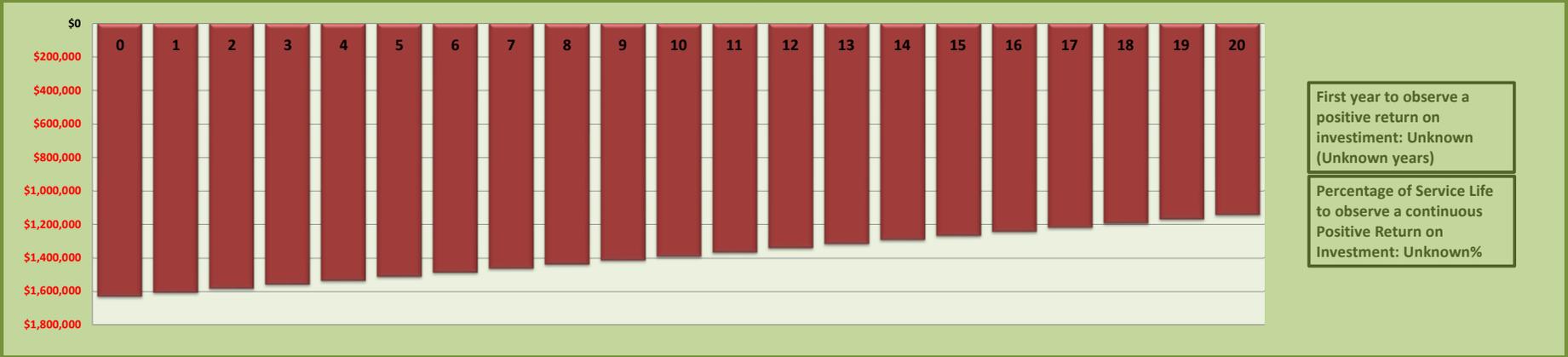
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #40 - Added Turn Lane Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



First year to observe a positive return on investment: Unknown (Unknown years)

Percentage of Service Life to observe a continuous Positive Return on Investment: Unknown%

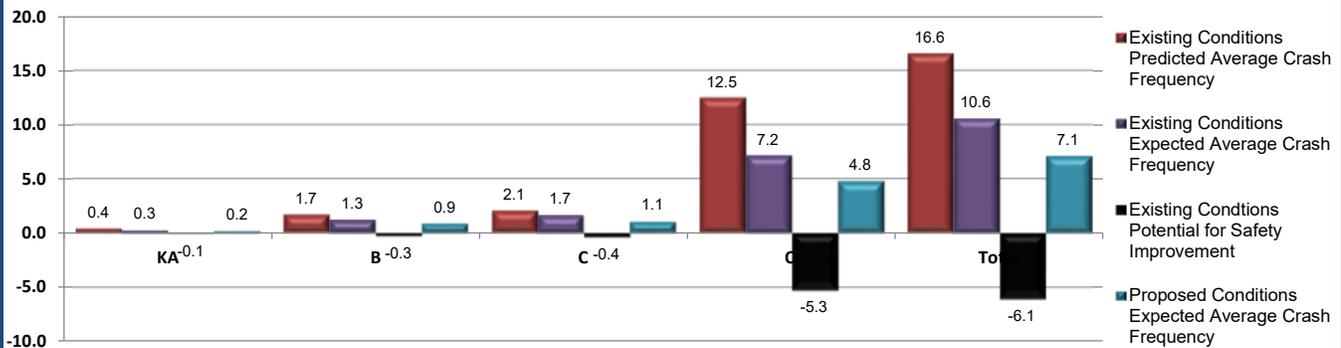


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #70 - Left Turn Lanes Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.3891	1.6538	2.0909	12.4946	16.6284
N_{expected} - Existing Conditions	0.3165	1.3453	1.7007	7.1916	10.5541
N_{potential for improvement} - Existing Conditions	-0.0726	-0.3085	-0.3902	-5.3030	-6.0743
N_{expected} - Proposed Conditions	0.2121	0.9014	1.1395	4.8184	7.0714



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #70 - Left Turn Lanes Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$1,353,000.00			\$1,353,000.00	\$1,353,000.00	-3.483	\$1,568,107
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$1,353,000.00	\$0.00	\$0.00	\$1,353,000.00	\$1,353,000.00	-3.483	\$1,568,107



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #70 - Left Turn Lanes Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator

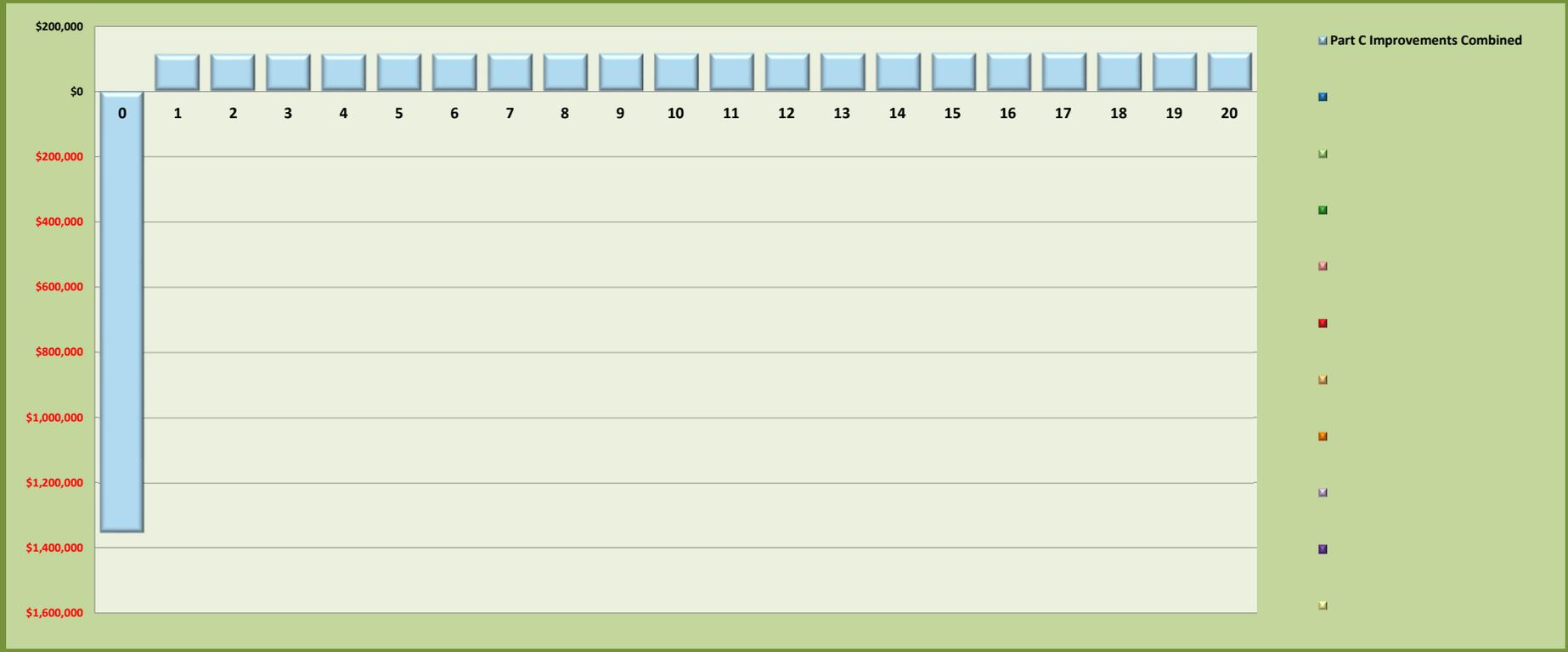
Net Present Value of Project	\$1,353,000.00
Net Present Value of Safety Benefits	\$1,568,107.41
Net Benefit	\$215,107.41
Benefit / Cost Ratio	1.16

Expected Annual Crash Adjustment

Number of Fatal & Incapacitating Injury Crashes	-0.104
Number of Injury Crashes	-1.110
Number of Total Crashes	-3.483

Comments:

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



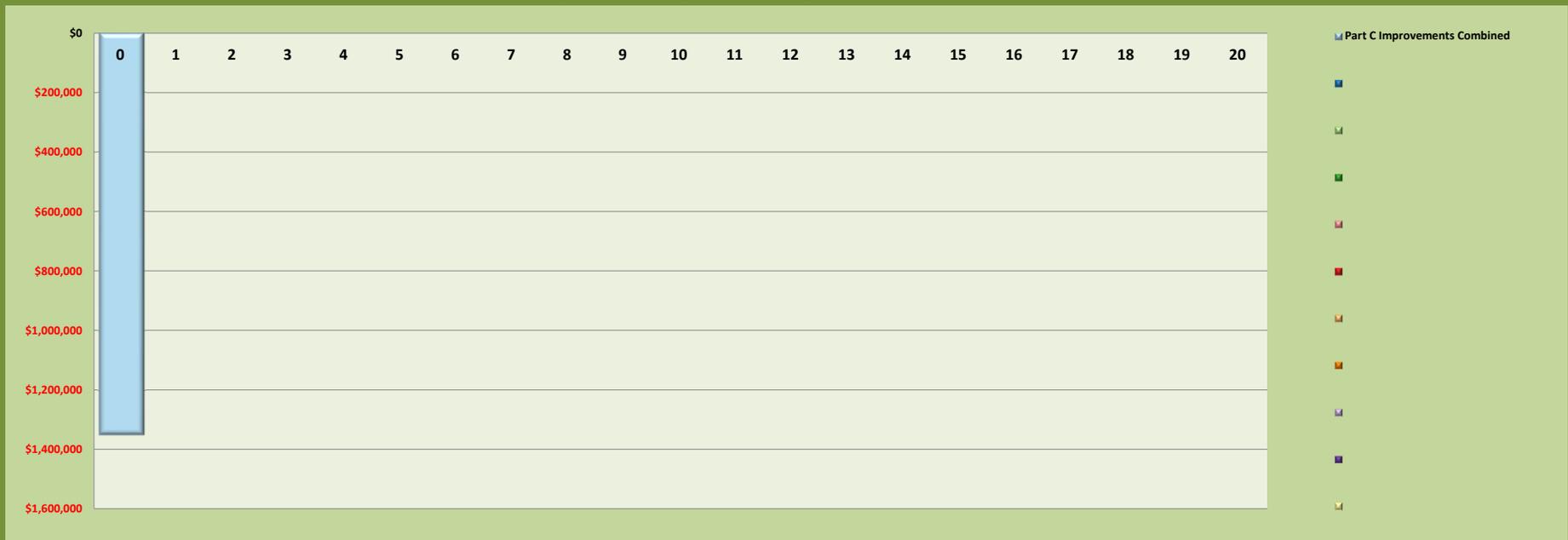


Safety Benefit - Cost Analysis

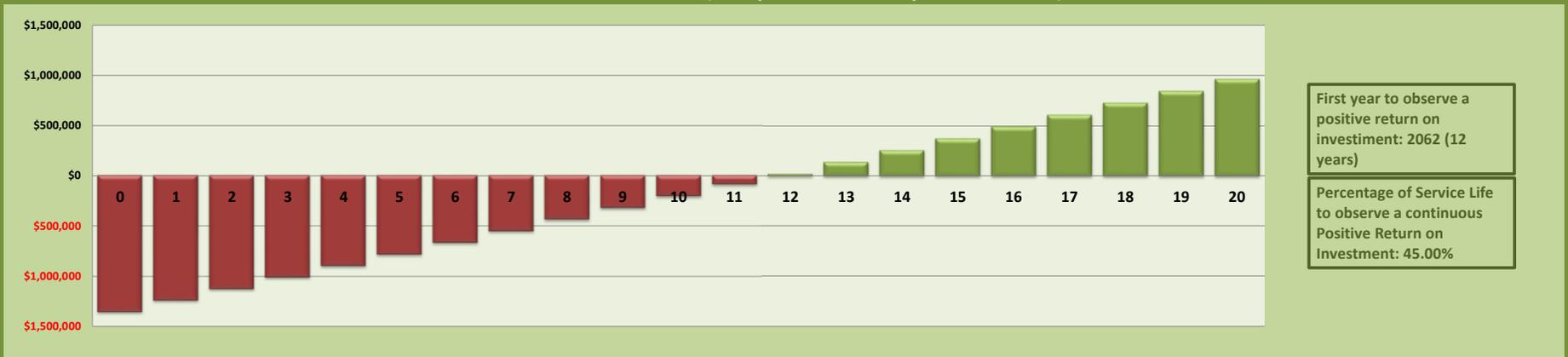
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #70 - Left Turn Lanes Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



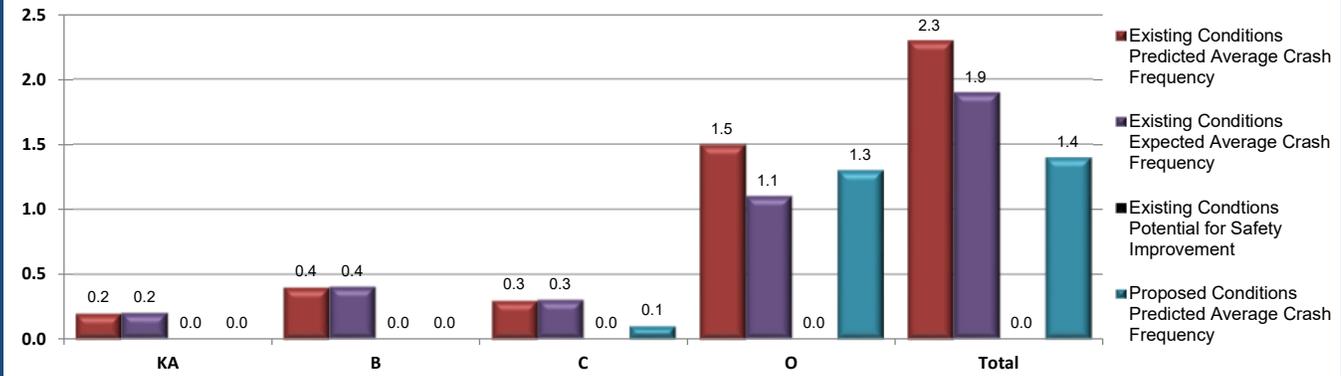


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #220 - Roundabout Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.1703	0.4127	0.2749	1.4772	2.3351
N_{expected} - Existing Conditions	0.1580	0.3834	0.2554	1.0905	1.8873
N_{potential for improvement} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{expected} - Proposed Conditions	0.0056	0.0479	0.0596	1.3011	1.4142



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #220 - Roundabout Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$4,640,000.00			\$4,640,000.00	\$4,640,000.00	-0.921	\$1,695,136
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$4,640,000.00	\$0.00	\$0.00	\$4,640,000.00	\$4,640,000.00	-0.921	\$1,695,136



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #220 - Roundabout Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philipposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator

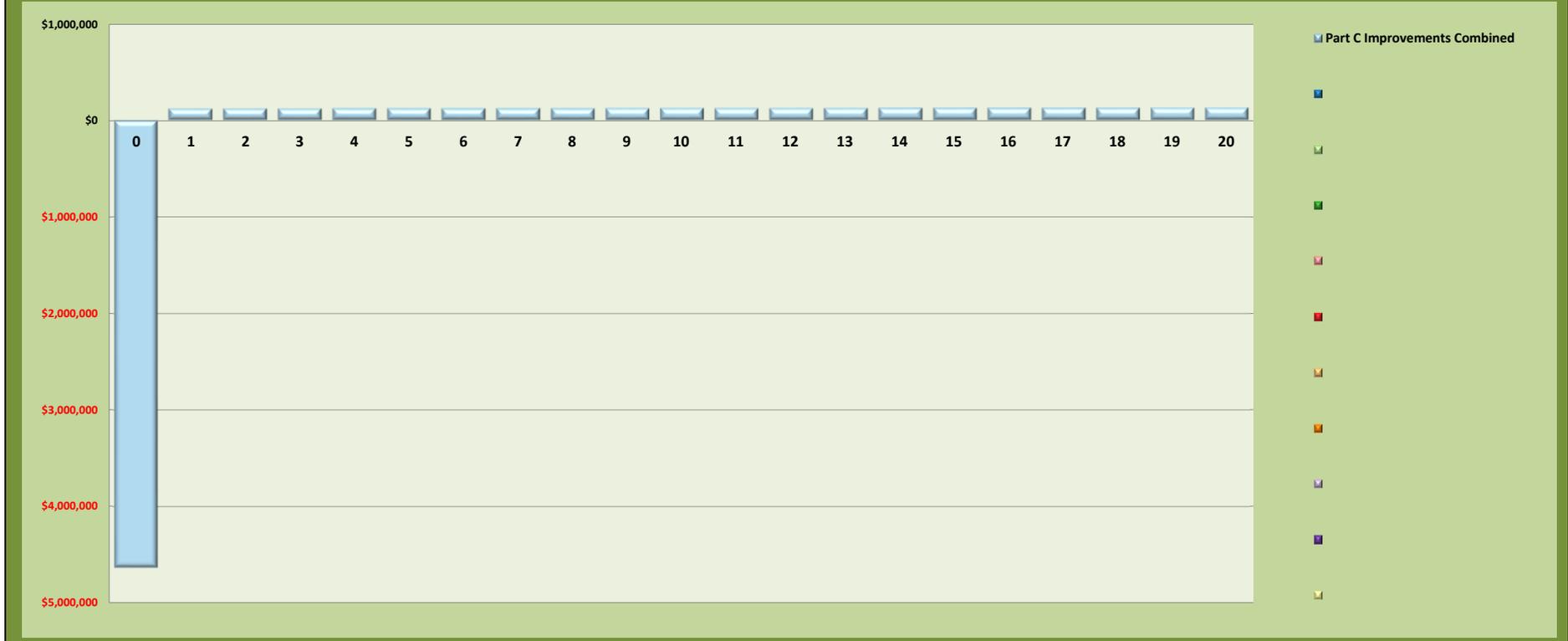
Net Present Value of Project	\$4,640,000.00
Net Present Value of Safety Benefits	\$1,695,136.15
Net Benefit	(\$2,944,863.85)
Benefit / Cost Ratio	0.37

Expected Annual Crash Adjustment

Number of Fatal & Incapacitating Injury Crashes	-0.165
Number of Injury Crashes	-0.745
Number of Total Crashes	-0.921

Comments:

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



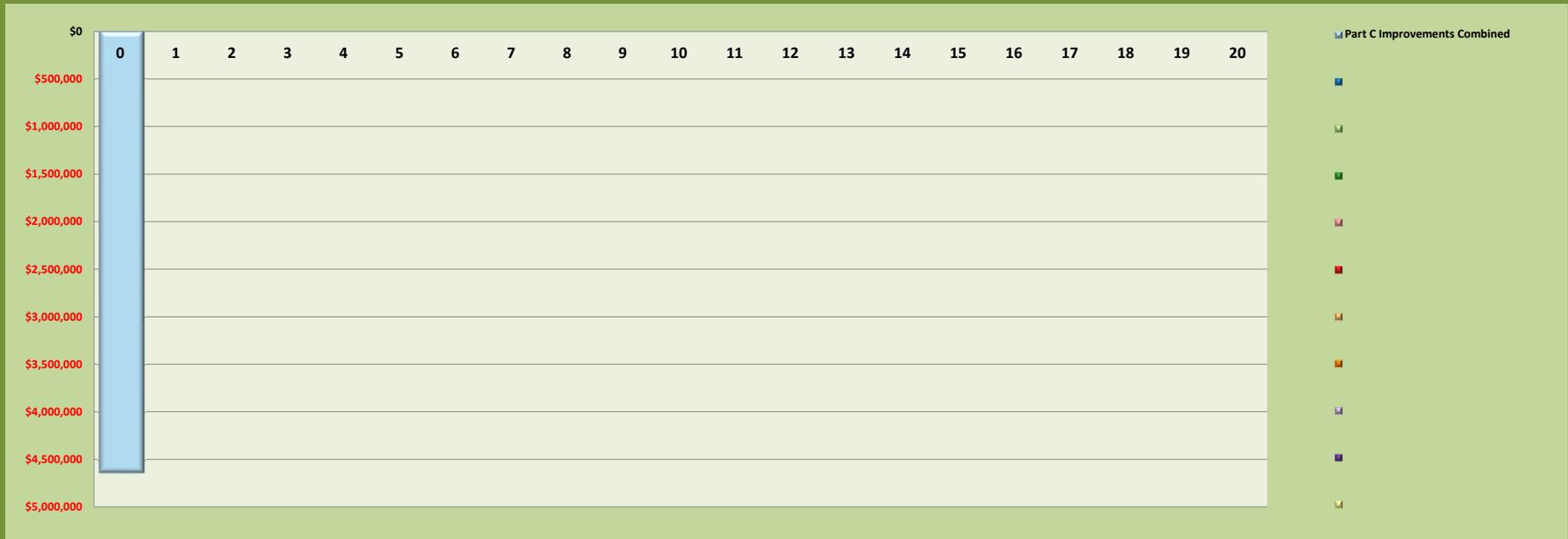


Safety Benefit - Cost Analysis

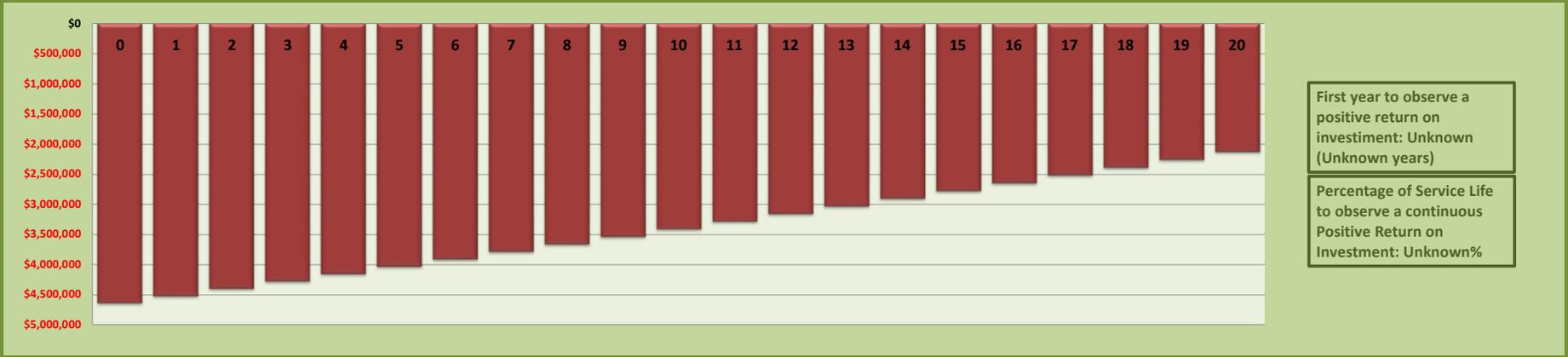
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #220 - Roundabout Alternative (No-Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philipposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



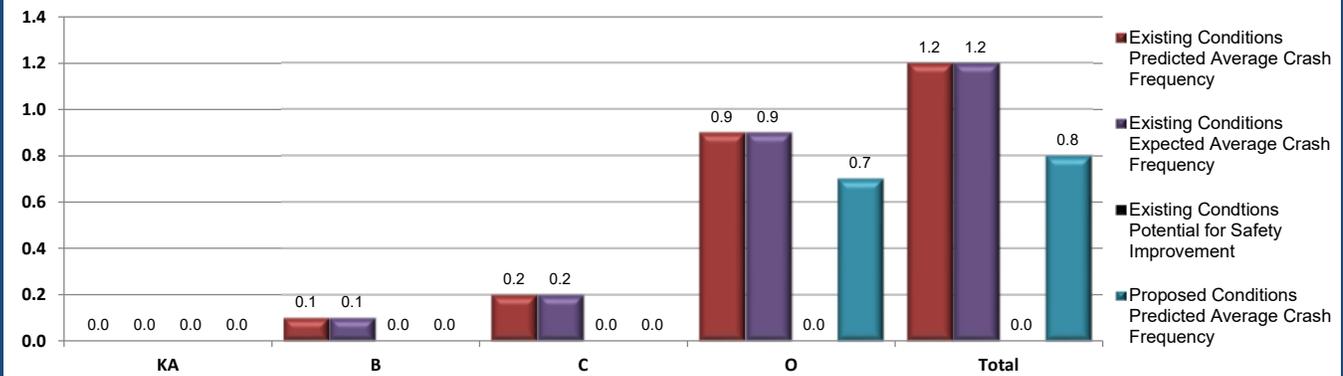


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #230 - Roundabout Alternative	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/21/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.0243	0.0996	0.1539	0.8839	1.1617
N_{expected} - Existing Conditions	0.0288	0.1181	0.1822	0.9134	1.2425
N_{potential for improvement} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{expected} - Proposed Conditions	0.0045	0.0386	0.0480	0.6939	0.7850



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #230 - Roundabout Alternative	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/21/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$3,000,000.00			\$3,000,000.00	\$3,000,000.00	-0.377	\$276,468
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$3,000,000.00	\$0.00	\$0.00	\$3,000,000.00	\$3,000,000.00	-0.377	\$276,468



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #230 - Roundabout Alternative	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/21/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator

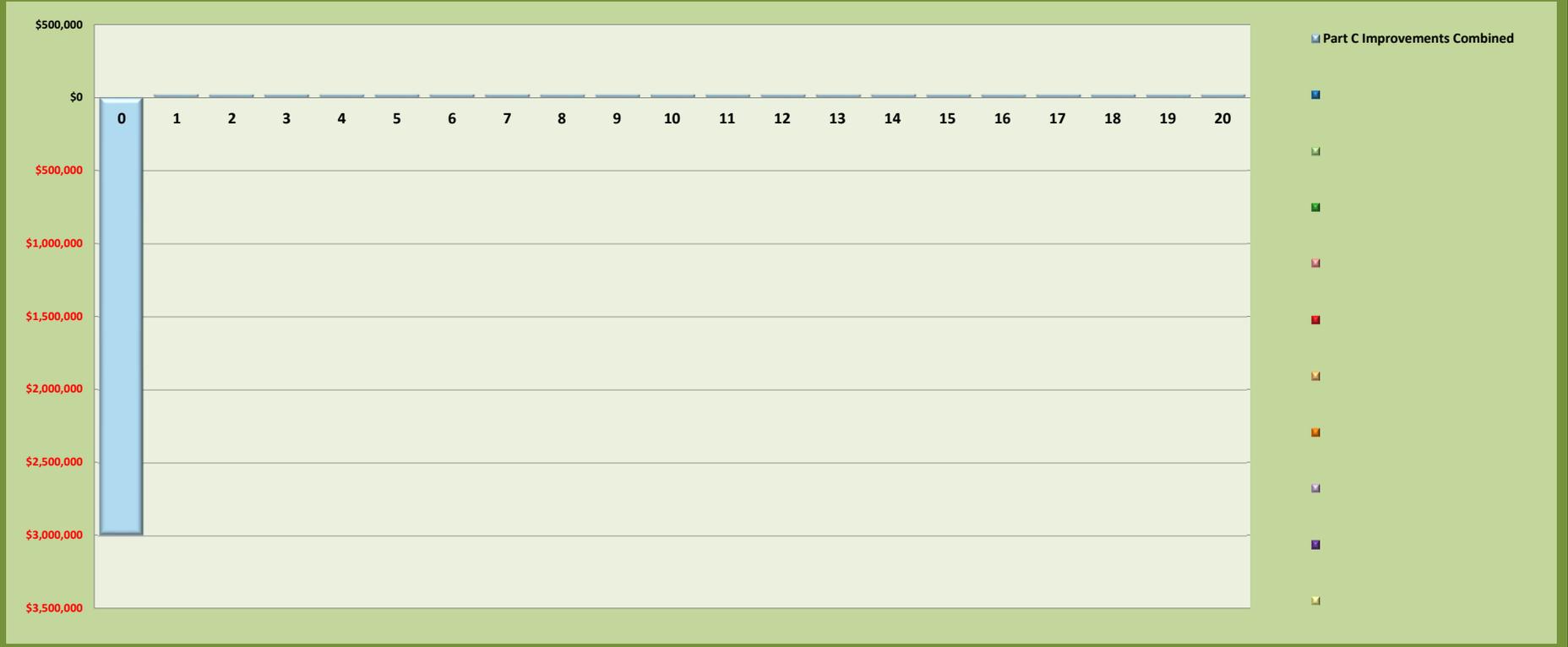
Net Present Value of Project	\$3,000,000.00
Net Present Value of Safety Benefits	\$276,468.04
Net Benefit	(\$2,723,531.96)
Benefit / Cost Ratio	0.09

Expected Annual Crash Adjustment

Number of Fatal & Incapacitating Injury Crashes	-0.020
Number of Injury Crashes	-0.187
Number of Total Crashes	-0.377

Comments:

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



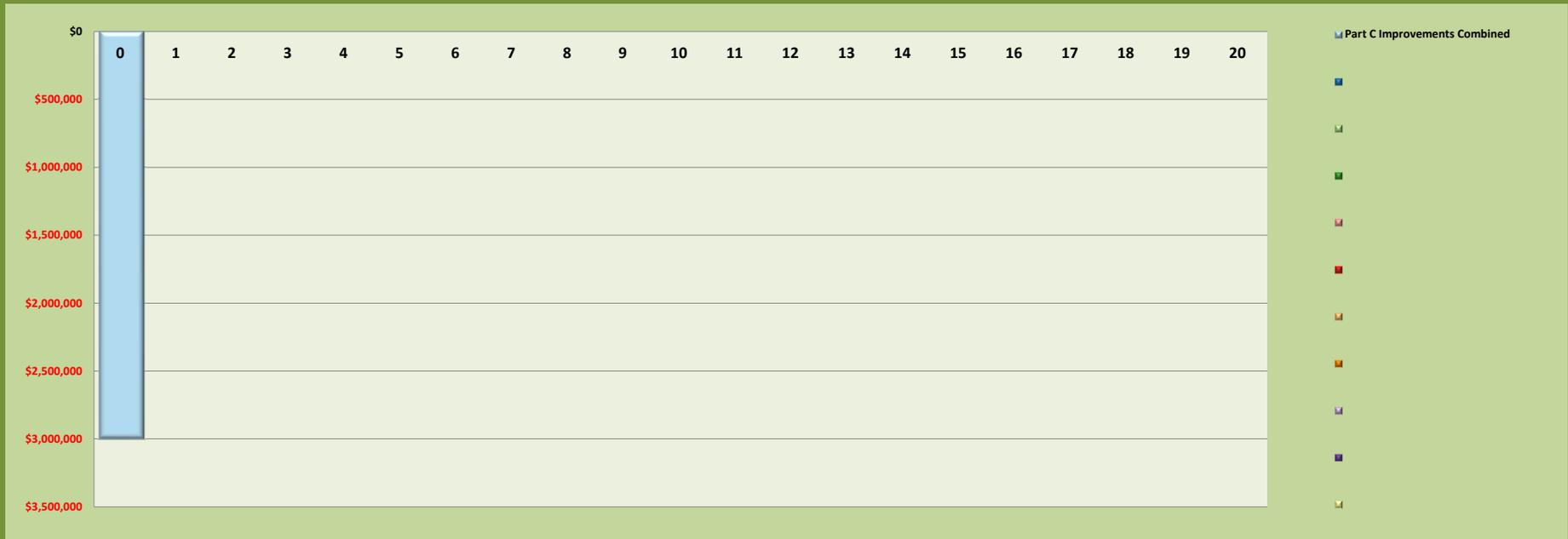


Safety Benefit - Cost Analysis

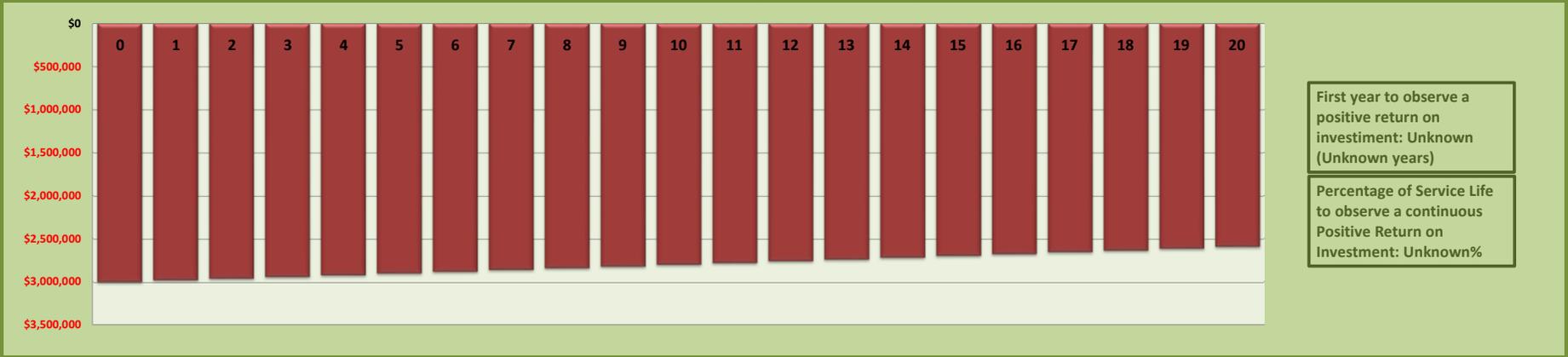
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #230 - Roundabout Alternative	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/21/2025
Analyst	Ben Philipposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



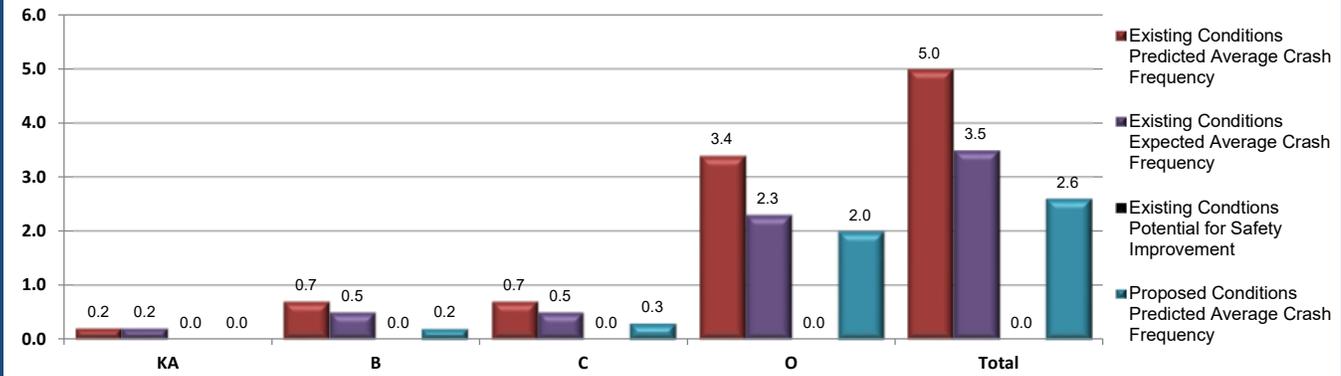


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Roundabout/Turn Lane Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.2226	0.7022	0.6685	3.3781	4.9714
N_{expected} - Existing Conditions	0.1567	0.5089	0.5212	2.2958	3.4826
N_{potential for improvement} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{expected} - Proposed Conditions	0.0436	0.1991	0.2963	2.0323	2.5713



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Roundabout/Turn Lane Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$3,724,000.00			\$3,724,000.00	\$3,724,000.00		
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00	-2.400	\$2,041,363
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$3,724,000.00	\$0.00	\$0.00	\$3,724,000.00	\$3,724,000.00	-2.400	\$2,041,363



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Roundabout/Turn Lane Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator

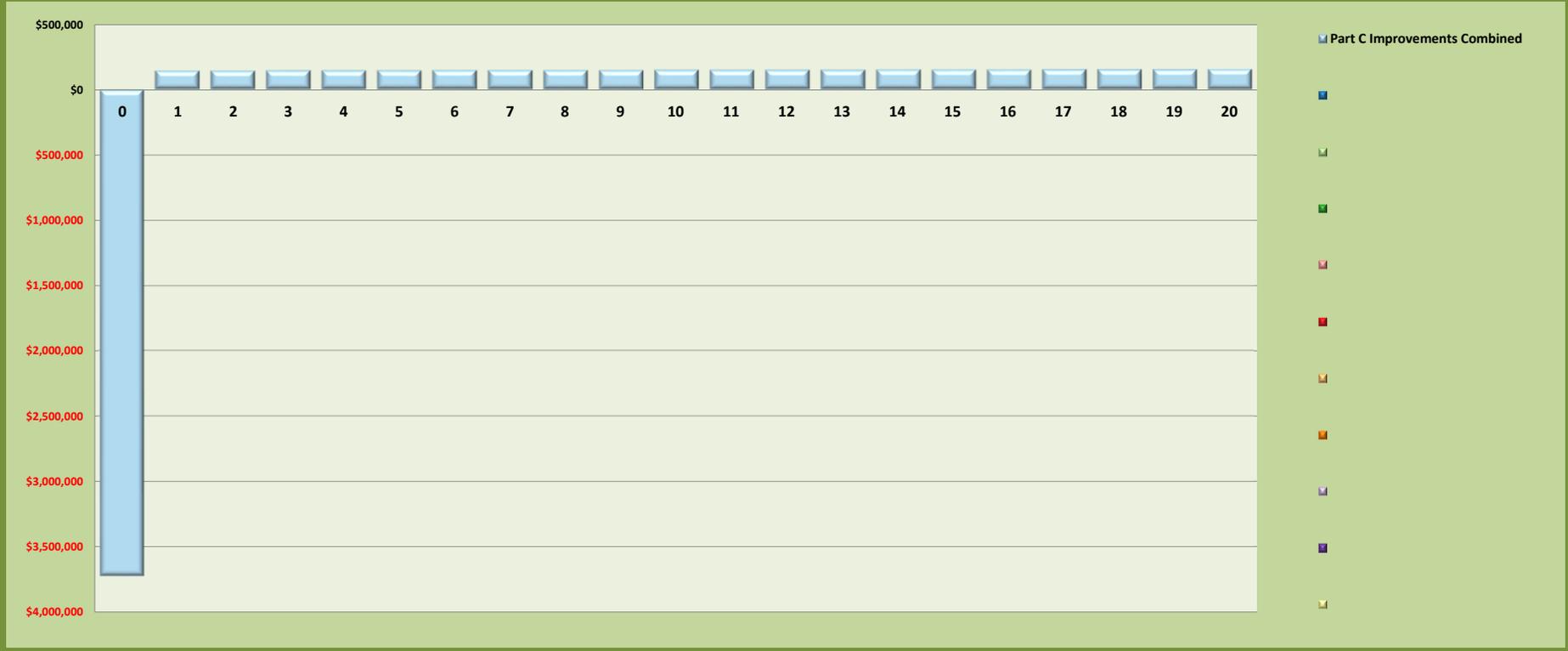
Net Present Value of Project	\$3,724,000.00
Net Present Value of Safety Benefits	\$2,041,362.88
Net Benefit	(\$1,682,637.12)
Benefit / Cost Ratio	0.55

Expected Annual Crash Adjustment

Number of Fatal & Incapacitating Injury Crashes	-0.179
Number of Injury Crashes	-1.054
Number of Total Crashes	-2.400

Comments:

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



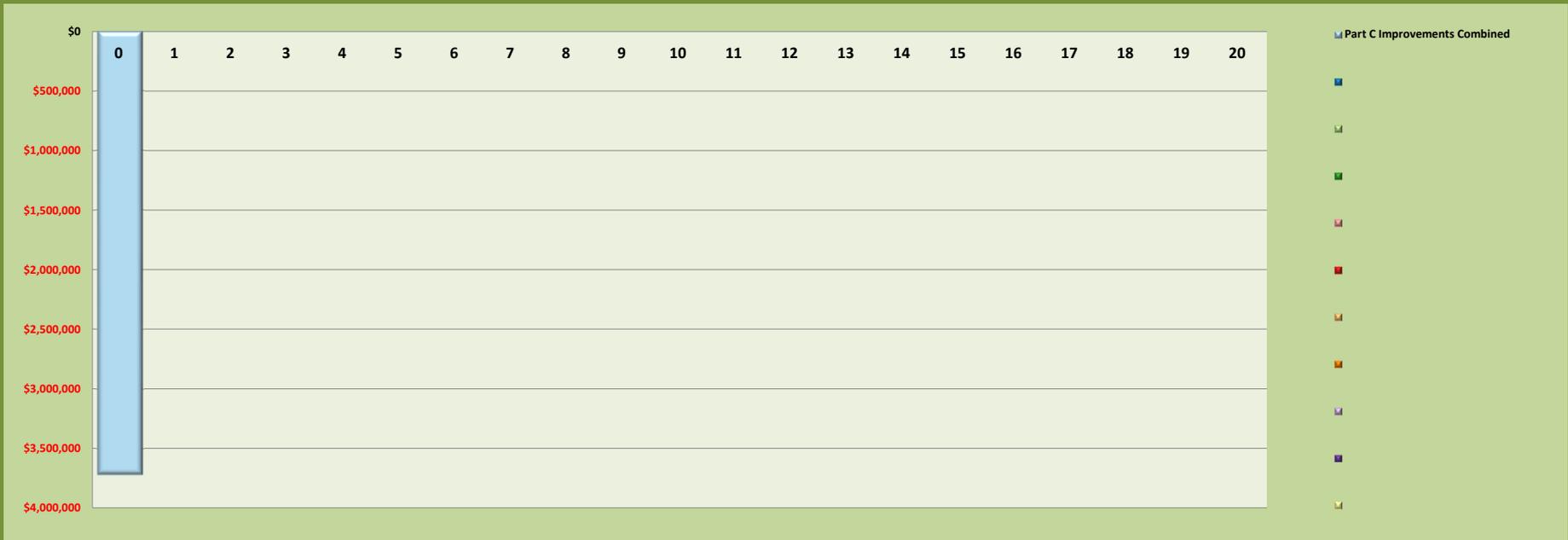


Safety Benefit - Cost Analysis

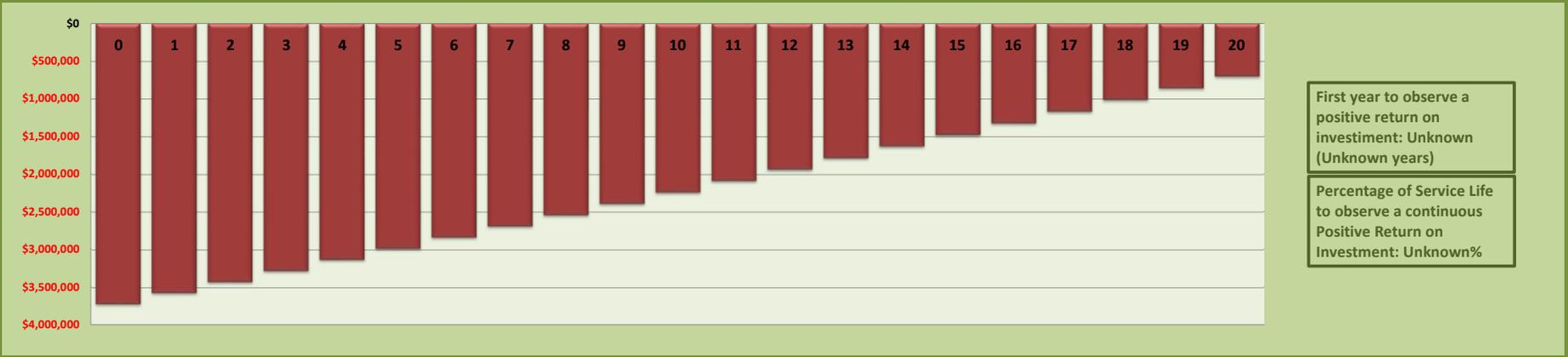
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Roundabout/Turn Lane Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



First year to observe a positive return on investment: Unknown (Unknown years)

Percentage of Service Life to observe a continuous Positive Return on Investment: Unknown%

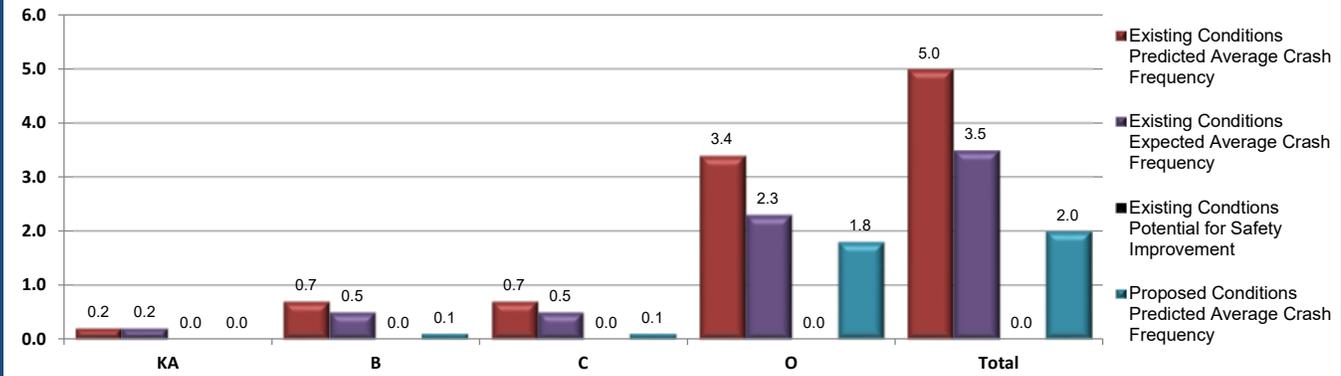


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Double Roundabout Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.2226	0.7022	0.6685	3.3781	4.9714
N_{expected} - Existing Conditions	0.1567	0.5089	0.5212	2.2958	3.4826
N_{potential for improvement} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{expected} - Proposed Conditions	0.0101	0.0853	0.1057	1.8009	2.0020



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Double Roundabout Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$5,088,000.00			\$5,088,000.00	\$5,088,000.00	-2.969	\$2,529,592
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$5,088,000.00	\$0.00	\$0.00	\$5,088,000.00	\$5,088,000.00	-2.969	\$2,529,592



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Double Roundabout Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator

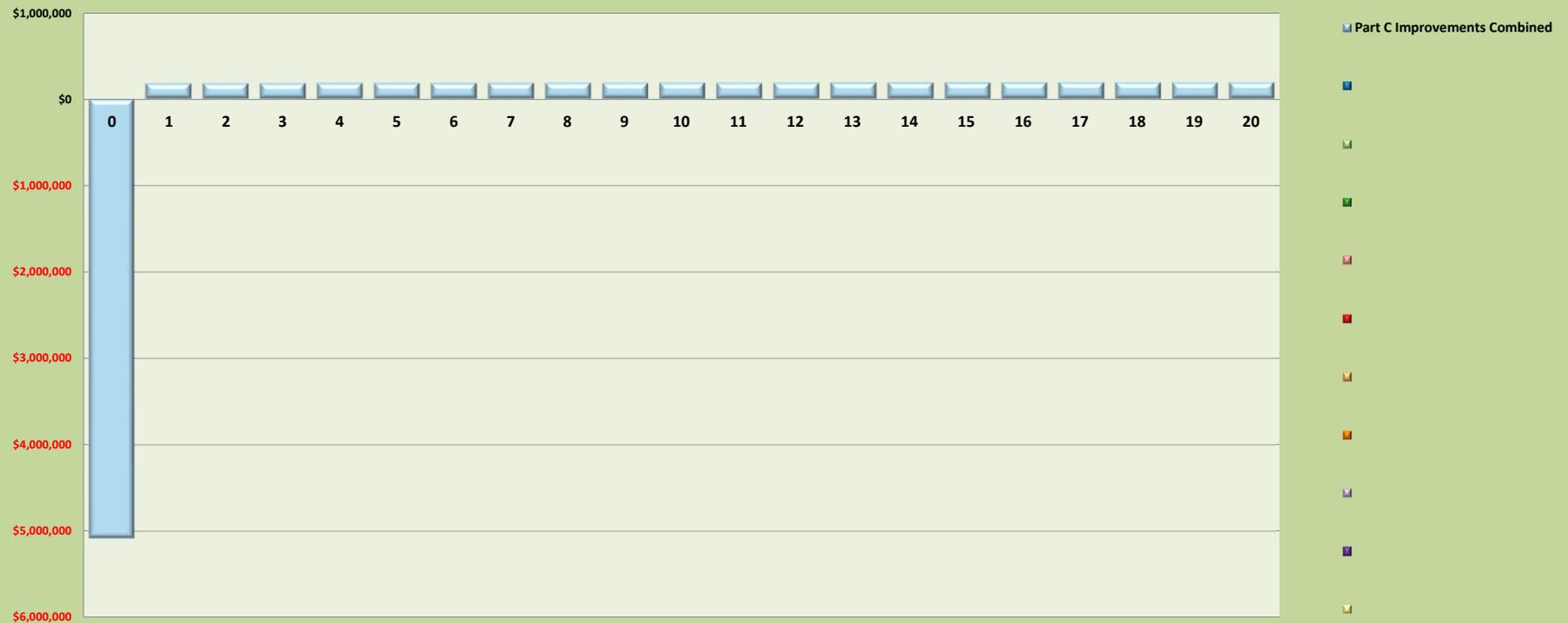
Net Present Value of Project	\$5,088,000.00
Net Present Value of Safety Benefits	\$2,529,592.11
Net Benefit	(\$2,558,407.89)
Benefit / Cost Ratio	0.50

Expected Annual Crash Adjustment

Number of Fatal & Incapacitating Injury Crashes	-0.213
Number of Injury Crashes	-1.392
Number of Total Crashes	-2.969

Comments:

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



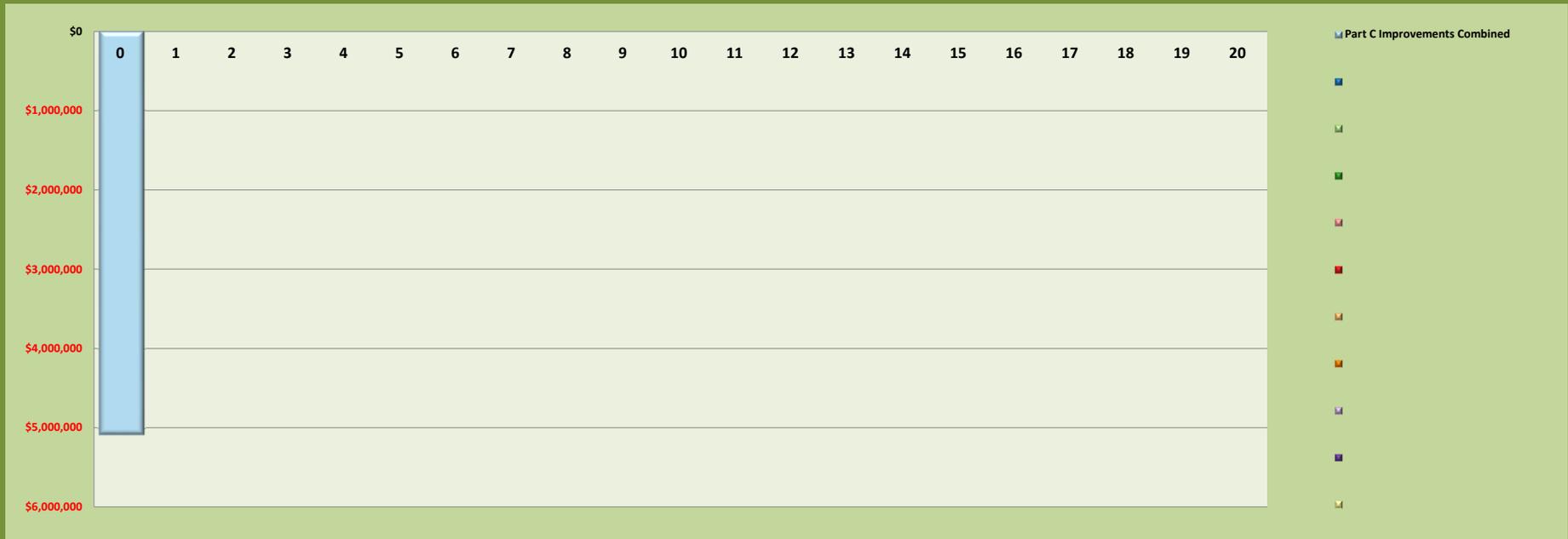


Safety Benefit - Cost Analysis

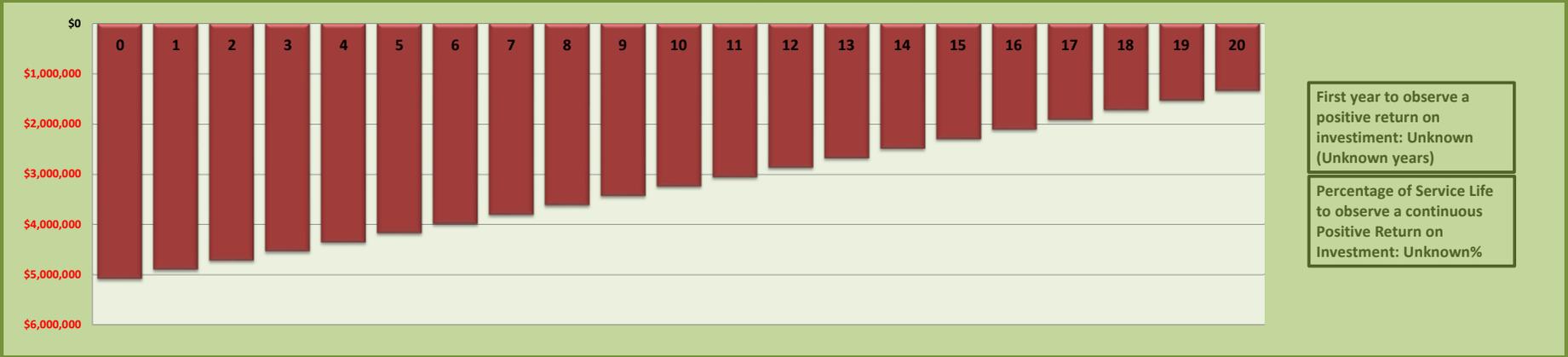
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Double Roundabout Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



First year to observe a positive return on investment: Unknown (Unknown years)

Percentage of Service Life to observe a continuous Positive Return on Investment: Unknown%

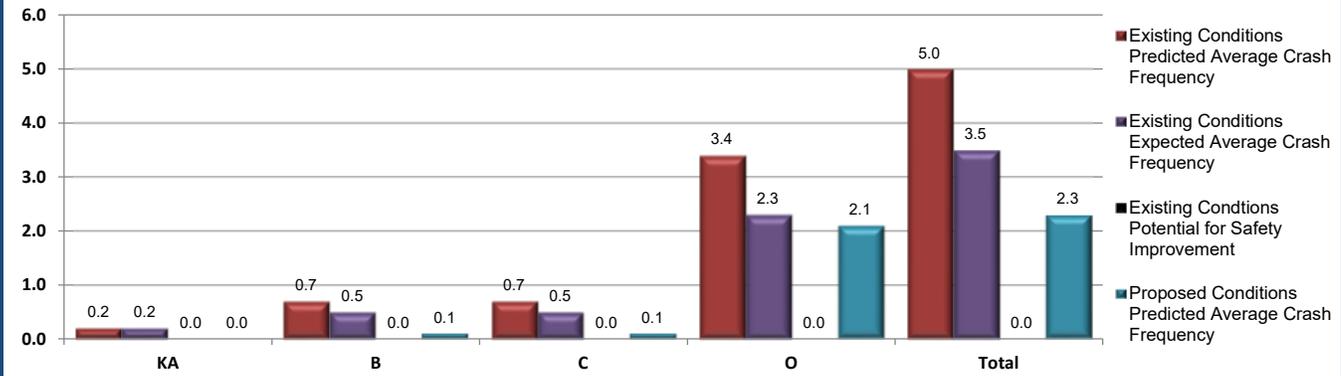


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Peanut Roundabout Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.2226	0.7022	0.6685	3.3781	4.9714
N_{expected} - Existing Conditions	0.1567	0.5089	0.5212	2.2958	3.4826
N_{potential for improvement} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{expected} - Proposed Conditions	0.0089	0.0747	0.0922	2.1117	2.2875



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Peanut Roundabout Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$4,668,000.00			\$4,668,000.00	\$4,668,000.00	-2.684	\$2,558,624
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$4,668,000.00	\$0.00	\$0.00	\$4,668,000.00	\$4,668,000.00	-2.684	\$2,558,624



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Peanut Roundabout Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator

Net Present Value of Project	\$4,668,000.00
Net Present Value of Safety Benefits	\$2,558,623.58
Net Benefit	(\$2,109,376.42)
Benefit / Cost Ratio	0.55

Expected Annual Crash Adjustment

Number of Fatal & Incapacitating Injury Crashes	-0.214
Number of Injury Crashes	-1.418
Number of Total Crashes	-2.684

Comments:

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



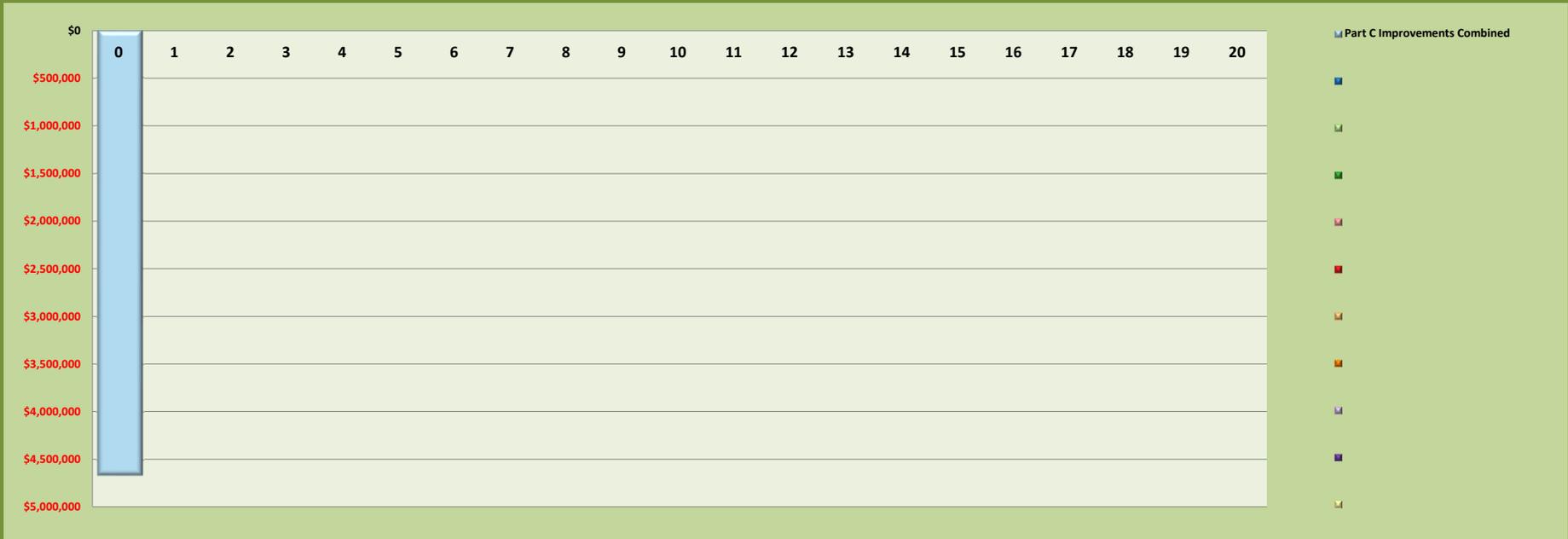


Safety Benefit - Cost Analysis

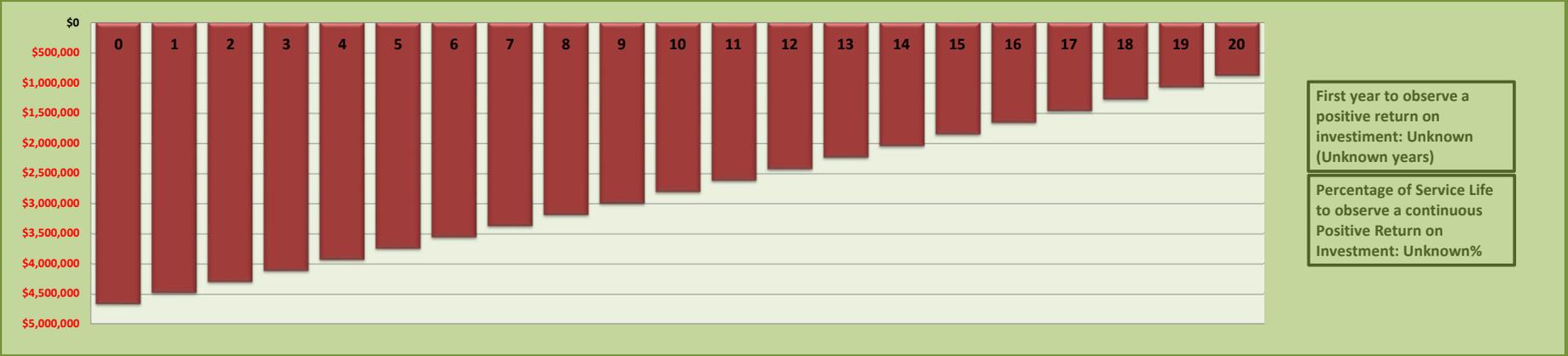
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Peanut Roundabout Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



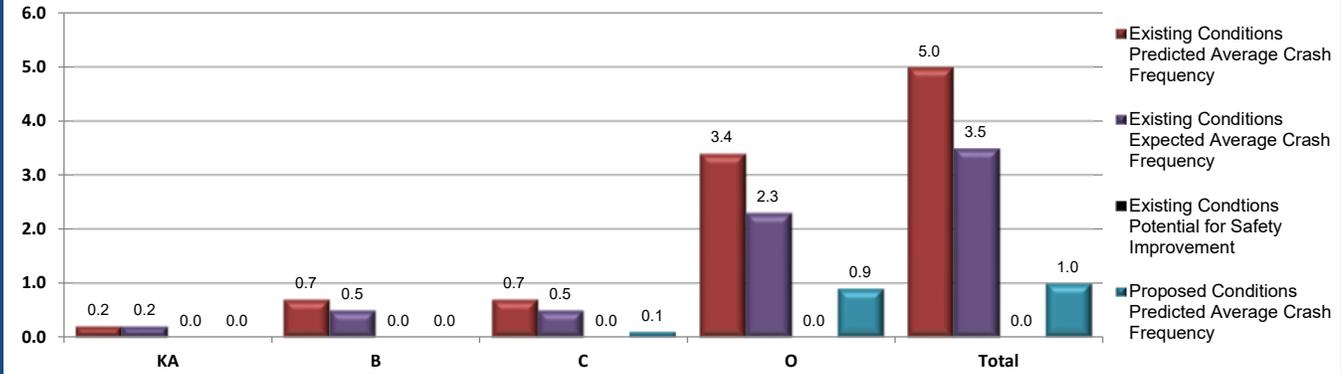


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Roundabout/Cul-de-sac Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.2226	0.7022	0.6685	3.3781	4.9714
N_{expected} - Existing Conditions	0.1567	0.5089	0.5212	2.2958	3.4826
N_{potential for improvement} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{expected} - Proposed Conditions	0.0055	0.0470	0.0583	0.8825	0.9933



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Roundabout/Cul-de-sac Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$5,466,000.00			\$5,466,000.00	\$5,466,000.00	-3.978	\$2,635,360
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$5,466,000.00	\$0.00	\$0.00	\$5,466,000.00	\$5,466,000.00	-3.978	\$2,635,360



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Roundabout/Cul-de-sac Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator

Net Present Value of Project **\$5,466,000.00**

Net Present Value of Safety Benefits **\$2,635,360.29**

Net Benefit **(\$2,830,639.71)**

Benefit / Cost Ratio **0.48**

Expected Annual Crash Adjustment

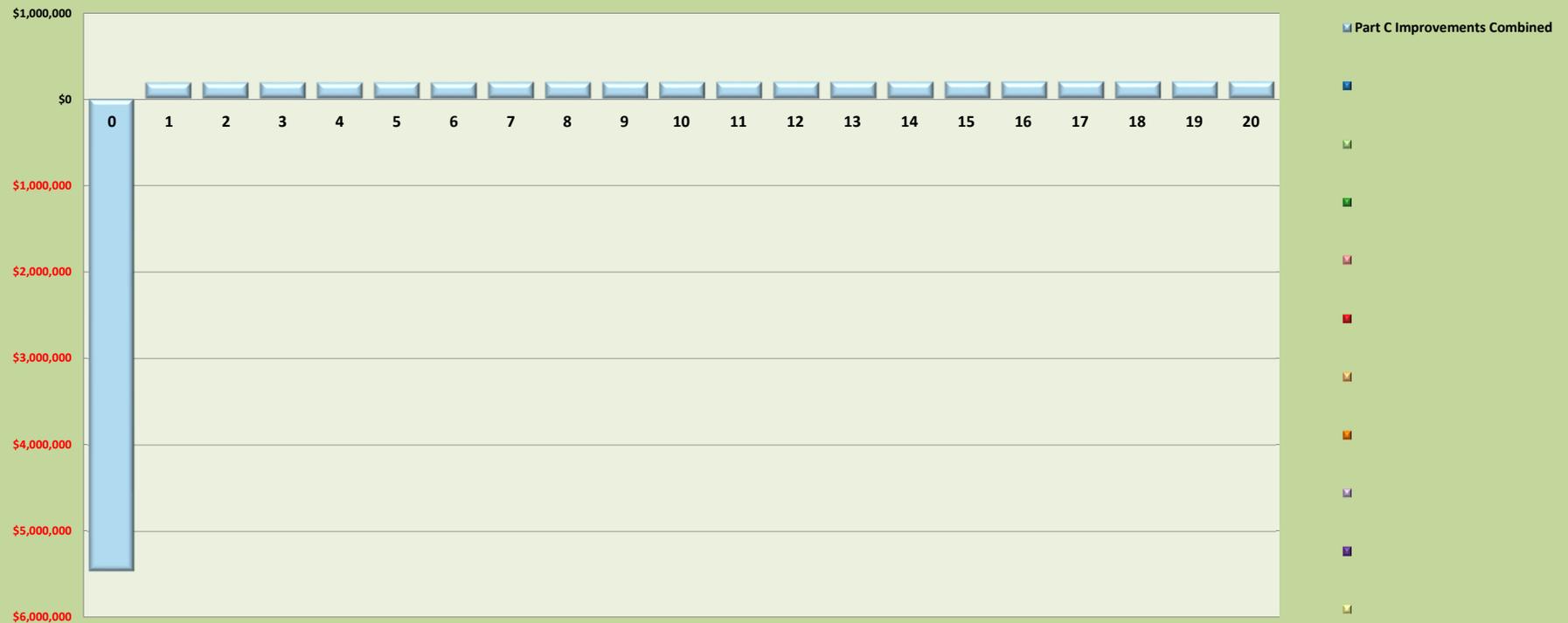
Number of Fatal & Incapacitating Injury Crashes **-0.217**

Number of Injury Crashes **-1.483**

Number of Total Crashes **-3.978**

Comments:

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



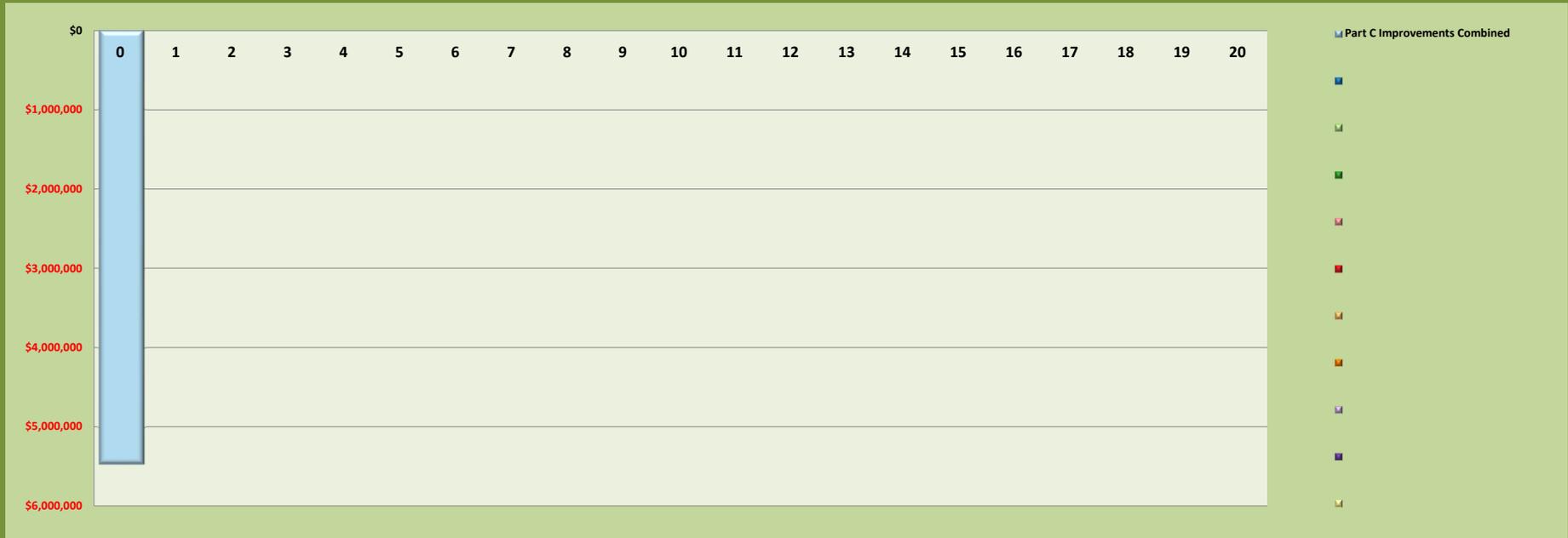


Safety Benefit - Cost Analysis

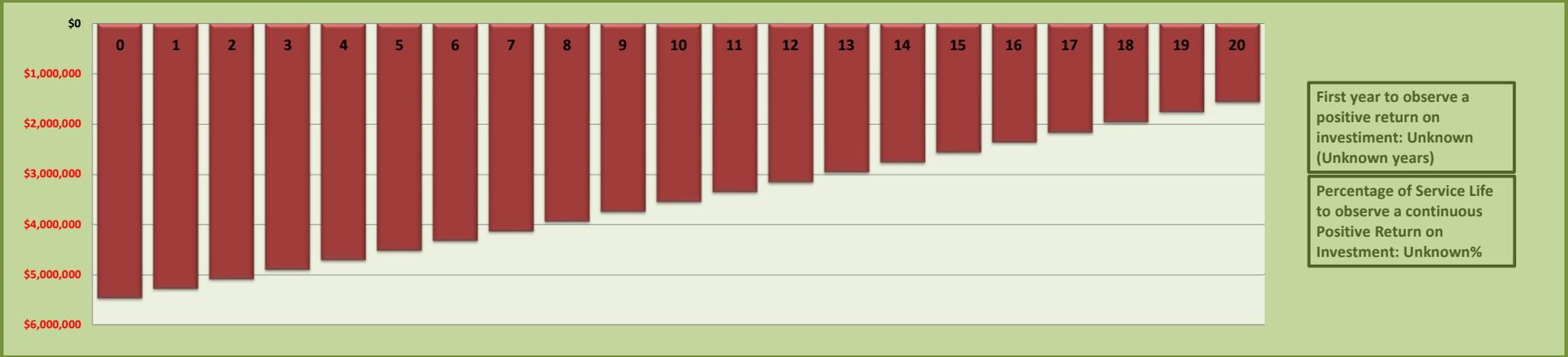
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Roundabout/Cul-de-sac Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



First year to observe a positive return on investment: Unknown (Unknown years)

Percentage of Service Life to observe a continuous Positive Return on Investment: Unknown%

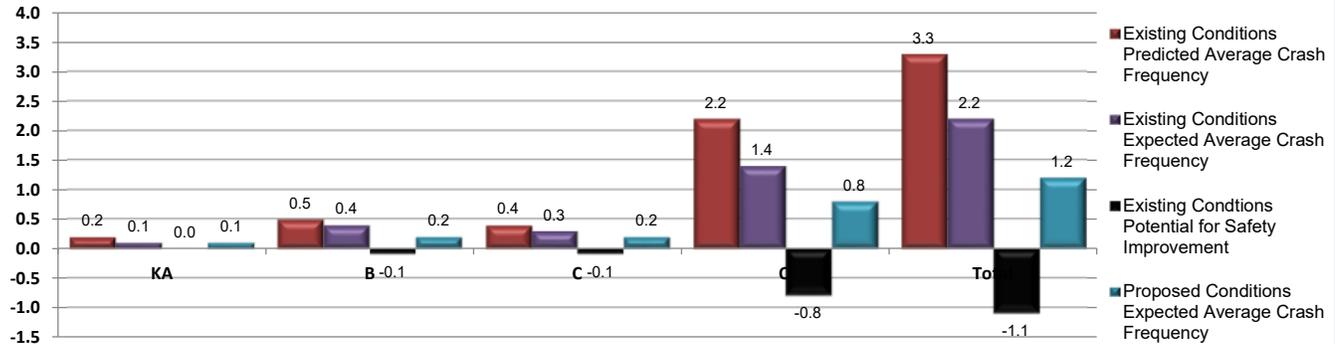


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #250 - Medium Term Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.1757	0.5092	0.3701	2.1991	3.2541
N_{expected} - Existing Conditions	0.1270	0.3679	0.2678	1.4125	2.1752
N_{potential for improvement} - Existing Conditions	-0.0487	-0.1413	-0.1023	-0.7866	-1.0789
N_{expected} - Proposed Conditions	0.0711	0.2060	0.1500	0.7910	1.2181



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #250 - Medium Term Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$692,000.00			\$692,000.00	\$692,000.00	-0.957	\$645,407
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$692,000.00	\$0.00	\$0.00	\$692,000.00	\$692,000.00	-0.957	\$645,407



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #250 - Medium Term Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator

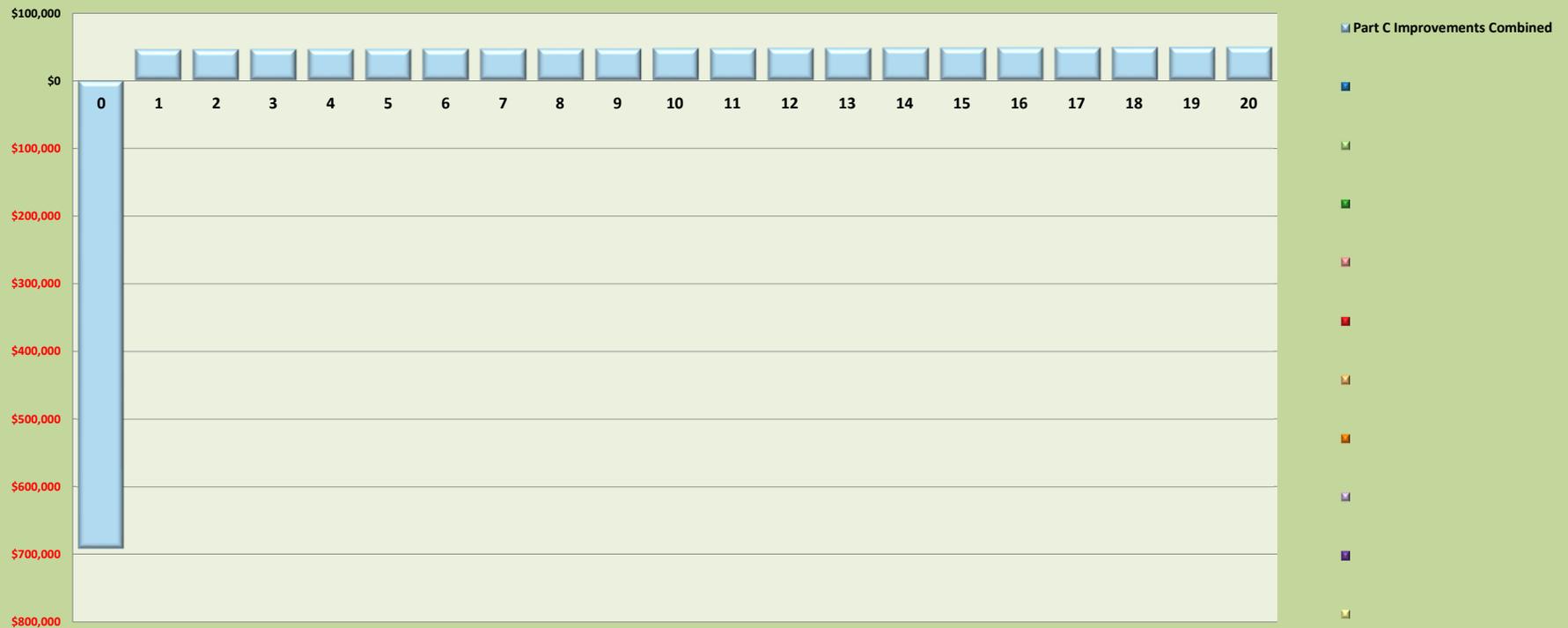
Net Present Value of Project	\$692,000.00
Net Present Value of Safety Benefits	\$645,407.37
Net Benefit	(\$46,592.63)
Benefit / Cost Ratio	0.93

Expected Annual Crash Adjustment

Number of Fatal & Incapacitating Injury Crashes	-0.056
Number of Injury Crashes	-0.336
Number of Total Crashes	-0.957

Comments:

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



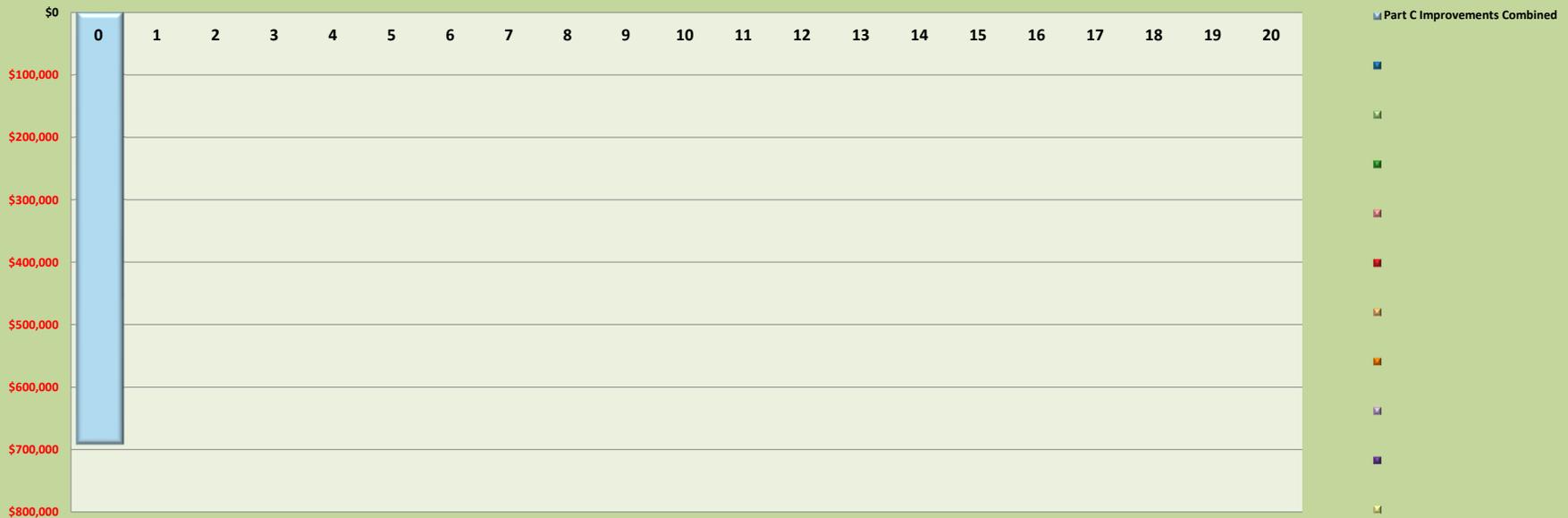


Safety Benefit - Cost Analysis

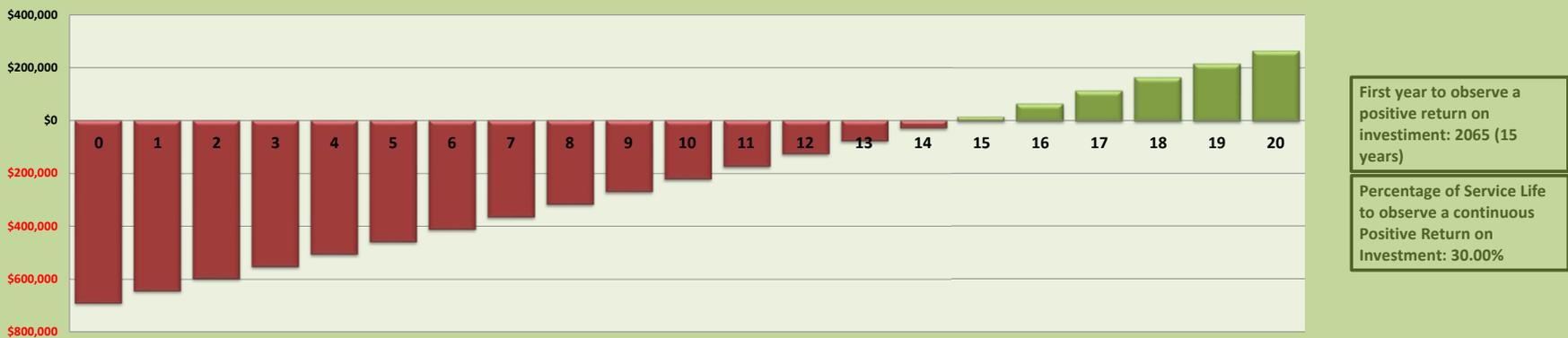
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #250 - Medium Term Alternative (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



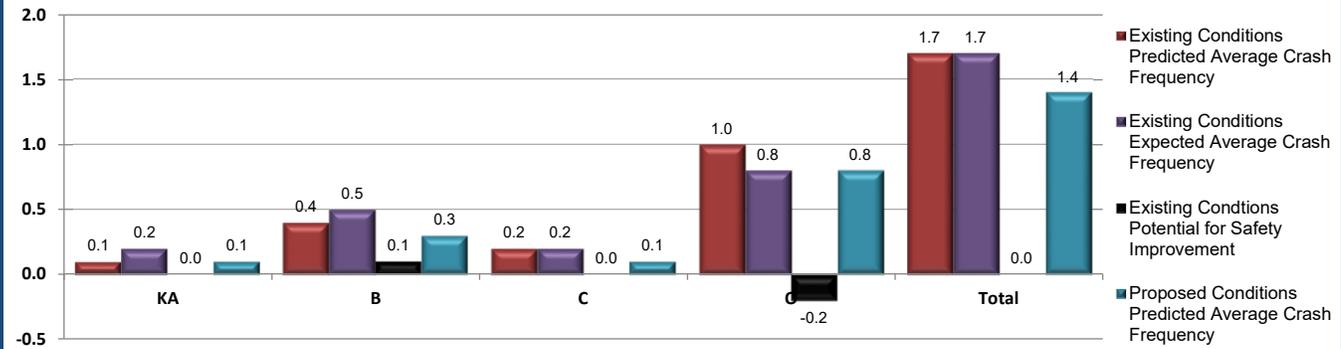


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	SR-94 Lane Widening, TWLTL	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.1375	0.3603	0.1702	1.0024	1.6704
N_{expected} - Existing Conditions	0.1759	0.4612	0.2178	0.8406	1.6955
N_{potential for improvement} - Existing Conditions	0.0384	0.1009	0.0476	-0.1618	0.0251
N_{expected} - Proposed Conditions	0.1149	0.3015	0.1423	0.8383	1.3970



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	SR-94 Lane Widening, TWLTL	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$2,216,000.00			\$2,216,000.00	\$2,216,000.00	-0.273	\$239,282
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$2,216,000.00	\$0.00	\$0.00	\$2,216,000.00	\$2,216,000.00	-0.273	\$239,282



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	SR-94 Lane Widening, TWLTL	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator

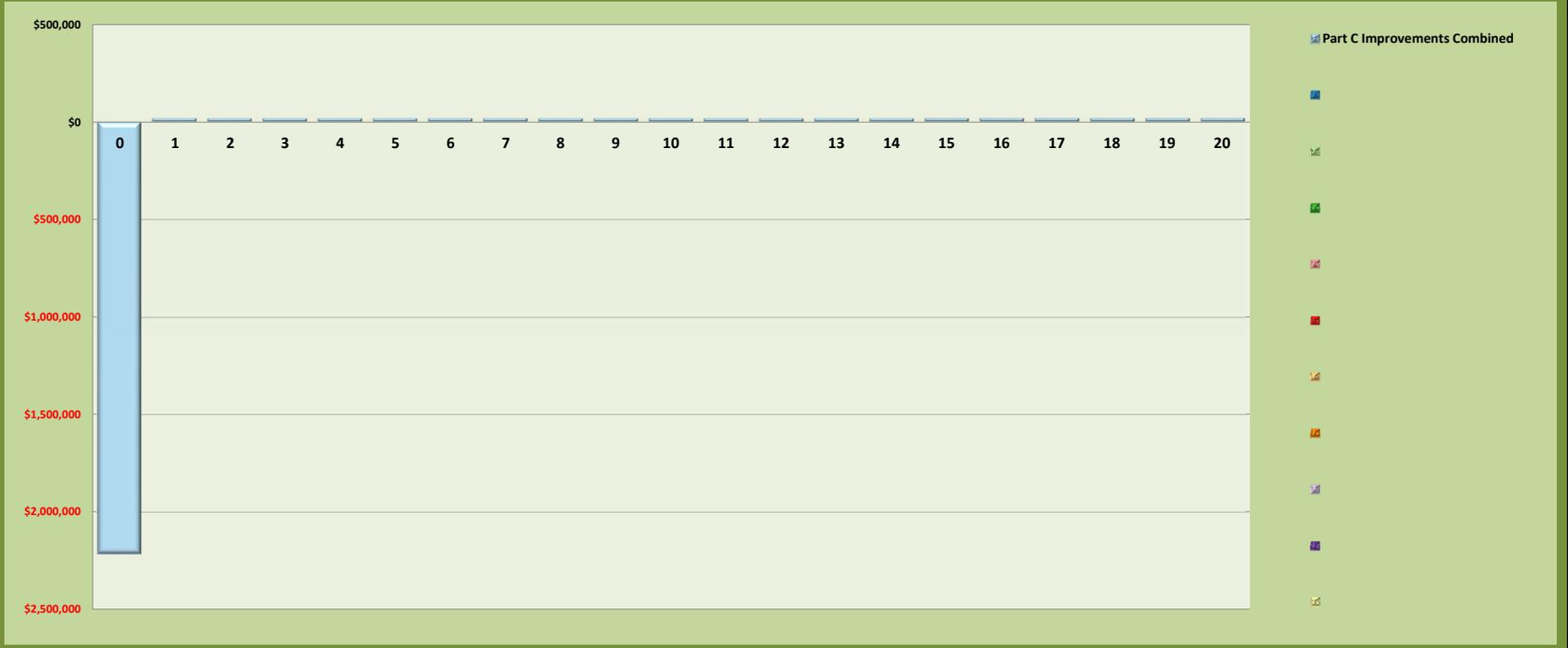
Net Present Value of Project	\$2,216,000.00
Net Present Value of Safety Benefits	\$239,281.54
Net Benefit	(\$1,976,718.46)
Benefit / Cost Ratio	0.11

Expected Annual Crash Adjustment

Number of Fatal & Incapacitating Injury Crashes	-0.023
Number of Injury Crashes	-0.109
Number of Total Crashes	-0.273

Comments:

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



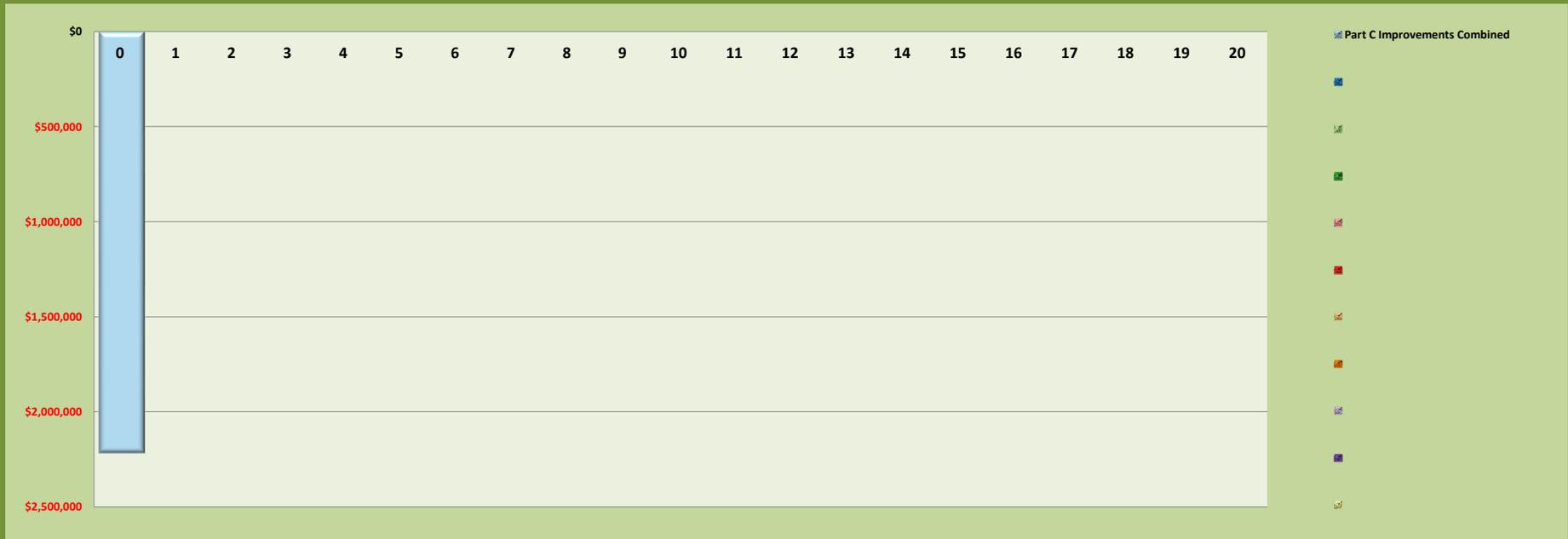


Safety Benefit - Cost Analysis

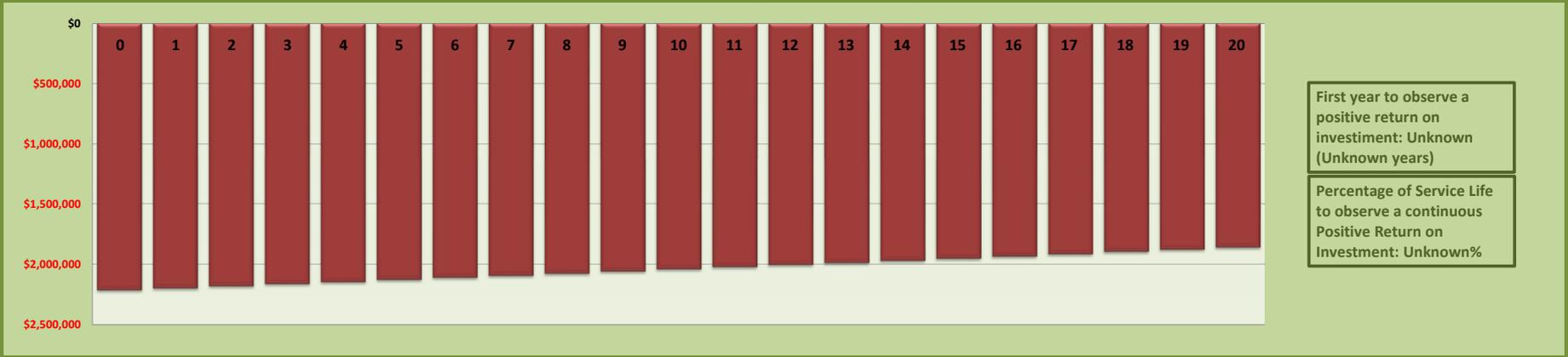
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	SR-94 Lane Widening, TWLTL	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



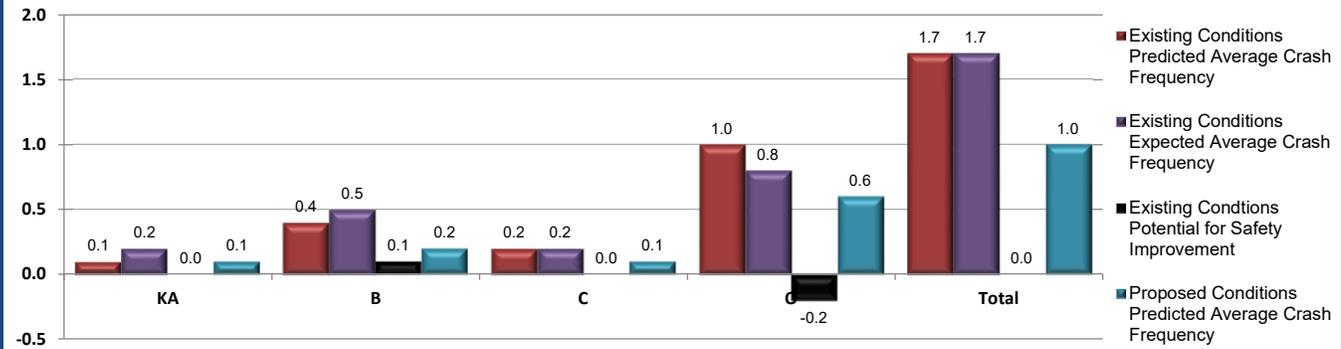


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	SR-94 Lane Widening, TWLTL	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.1375	0.3603	0.1702	1.0024	1.6704
N_{expected} - Existing Conditions	0.1759	0.4612	0.2178	0.8406	1.6955
N_{potential for improvement} - Existing Conditions	0.0384	0.1009	0.0476	-0.1618	0.0251
N_{expected} - Proposed Conditions	0.0862	0.2260	0.1069	0.6287	1.0478



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	SR-94 Lane Widening, TWLTL	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$2,216,000.00			\$2,216,000.00	\$2,216,000.00	-0.623	\$543,993
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$2,216,000.00	\$0.00	\$0.00	\$2,216,000.00	\$2,216,000.00	-0.623	\$543,993



Safety Benefit - Cost Analysis

General Information

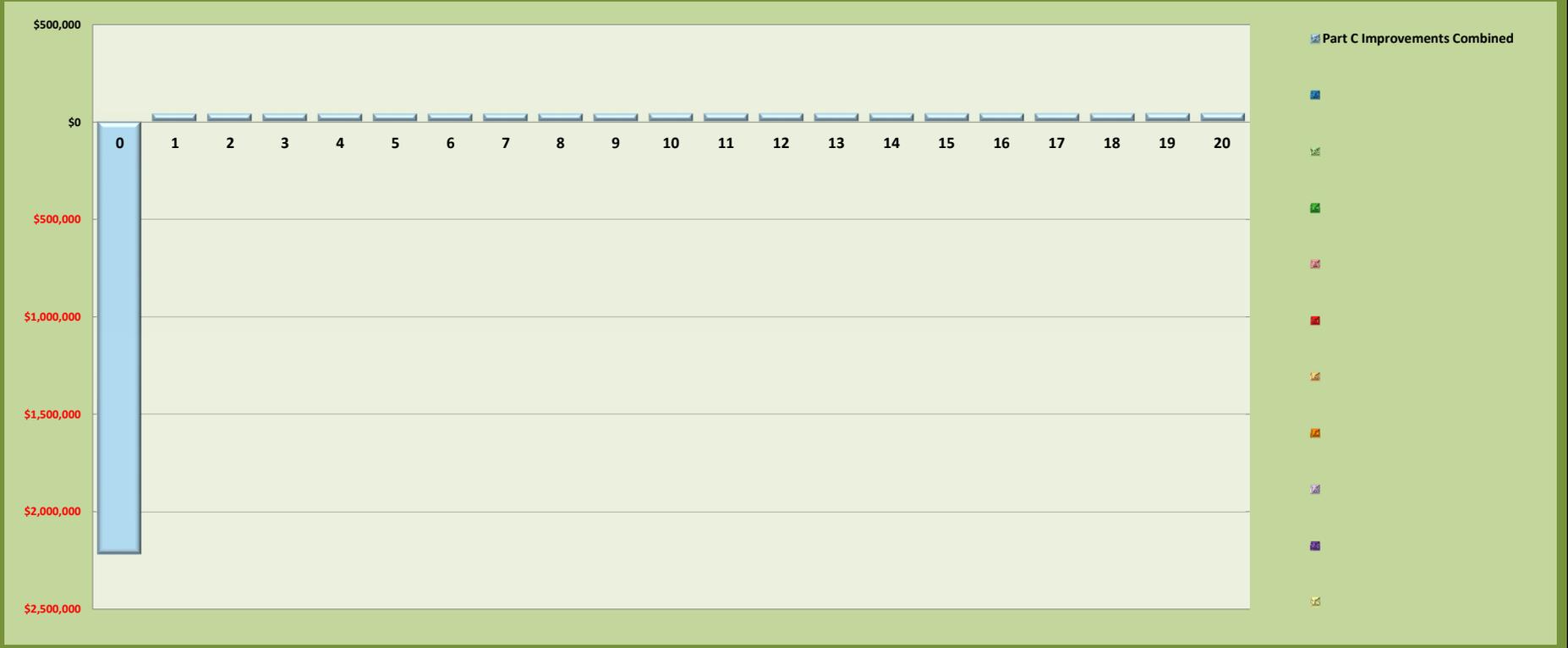
Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	SR-94 Lane Widening, TWLTL	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator	
Net Present Value of Project	\$2,216,000.00
Net Present Value of Safety Benefits	\$543,992.76
Net Benefit	(\$1,672,007.24)
Benefit / Cost Ratio	0.25

Expected Annual Crash Adjustment	
Number of Fatal & Incapacitating Injury Crashes	-0.051
Number of Injury Crashes	-0.249
Number of Total Crashes	-0.623

Comments:

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



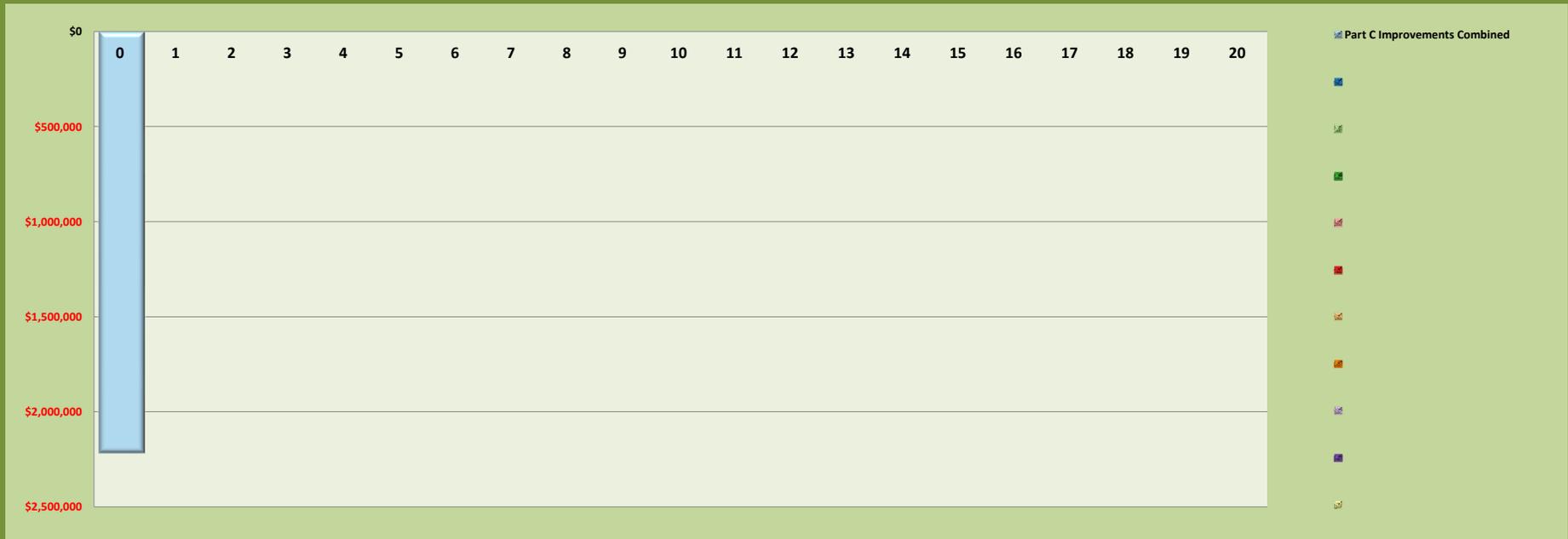


Safety Benefit - Cost Analysis

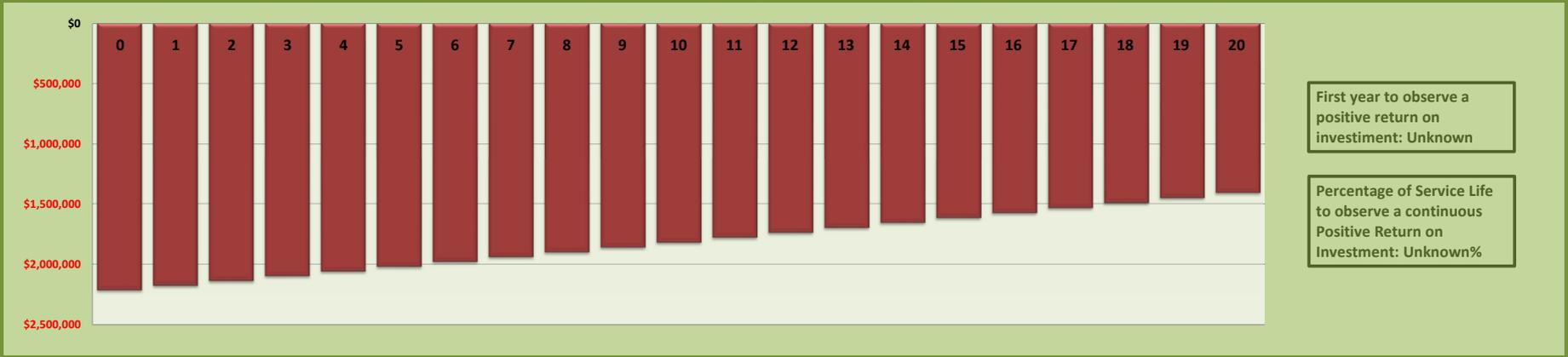
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	SR-94 Lane Widening, TWLTL	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



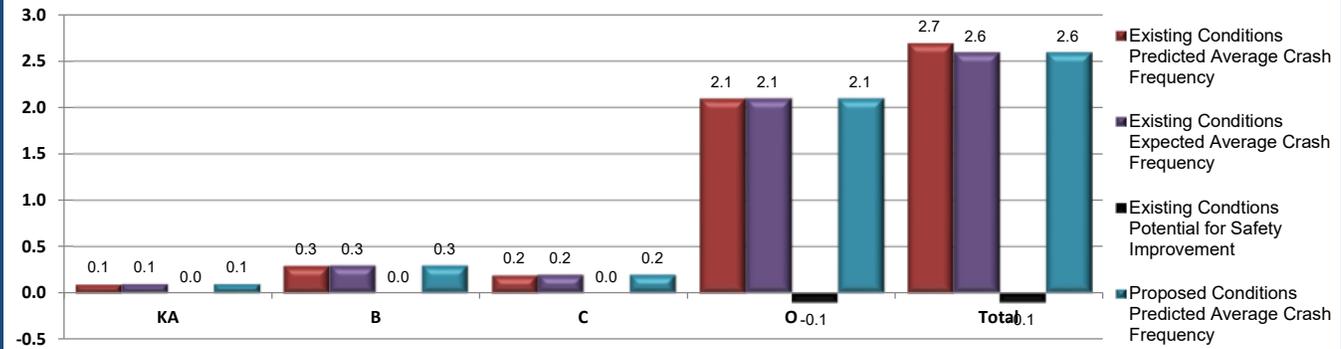


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-71 NB to I-271 NB - 55 mph Ramp - Alternative 1	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.0772	0.2841	0.1840	2.1165	2.6618
N_{expected} - Existing Conditions	0.0771	0.2845	0.1835	2.0652	2.6103
N_{potential for improvement} - Existing Conditions	-0.0001	0.0004	-0.0005	-0.0513	-0.0515
N_{expected} - Proposed Conditions	0.0651	0.2711	0.1886	2.0607	2.5855



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-71 NB to I-271 NB - 55 mph Ramp - Alternative 1	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$4,060,000.00			\$4,060,000.00	\$4,060,000.00	-0.077	\$95,624
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$4,060,000.00	\$0.00	\$0.00	\$4,060,000.00	\$4,060,000.00	-0.077	\$95,624



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-71 NB to I-271 NB - 55 mph Ramp - Alternative 1	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philipposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator

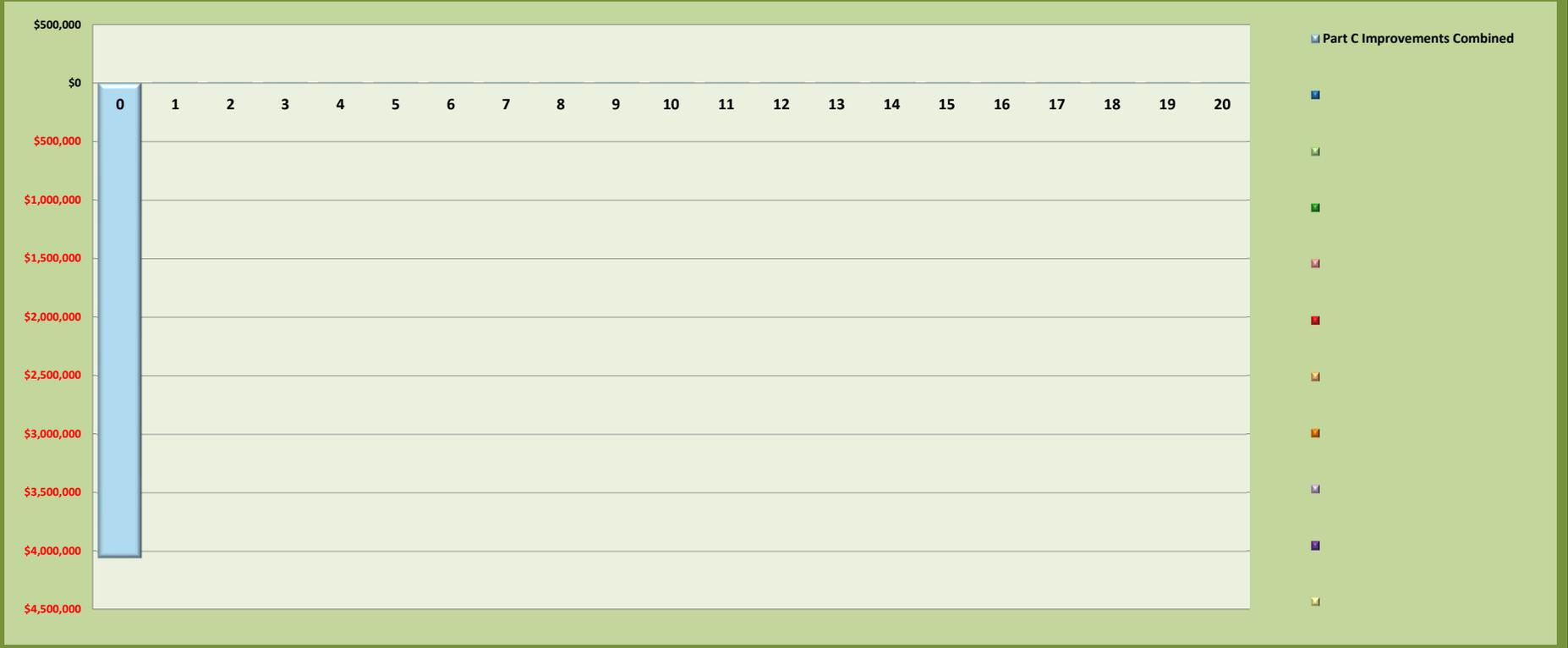
Net Present Value of Project	\$4,060,000.00
Net Present Value of Safety Benefits	\$95,624.32
Net Benefit	(\$3,964,375.68)
Benefit / Cost Ratio	0.02

Expected Annual Crash Adjustment

Number of Fatal & Incapacitating Injury Crashes	-0.012
Number of Injury Crashes	-0.021
Number of Total Crashes	-0.077

Comments:

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



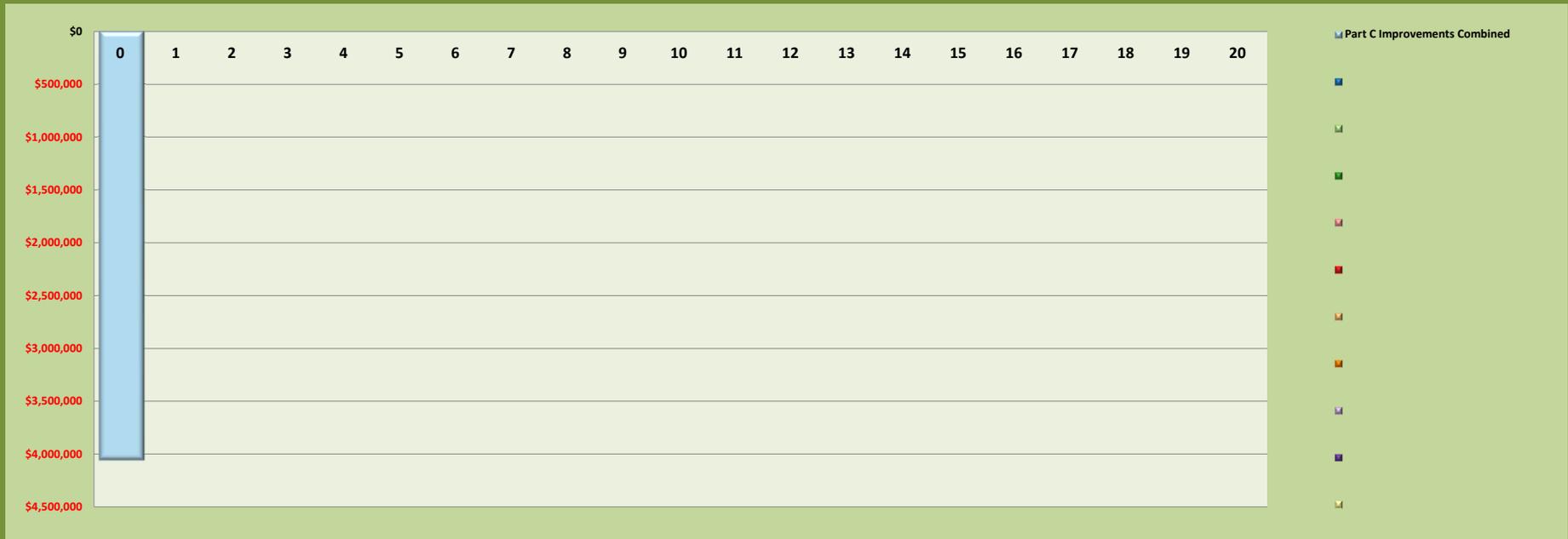


Safety Benefit - Cost Analysis

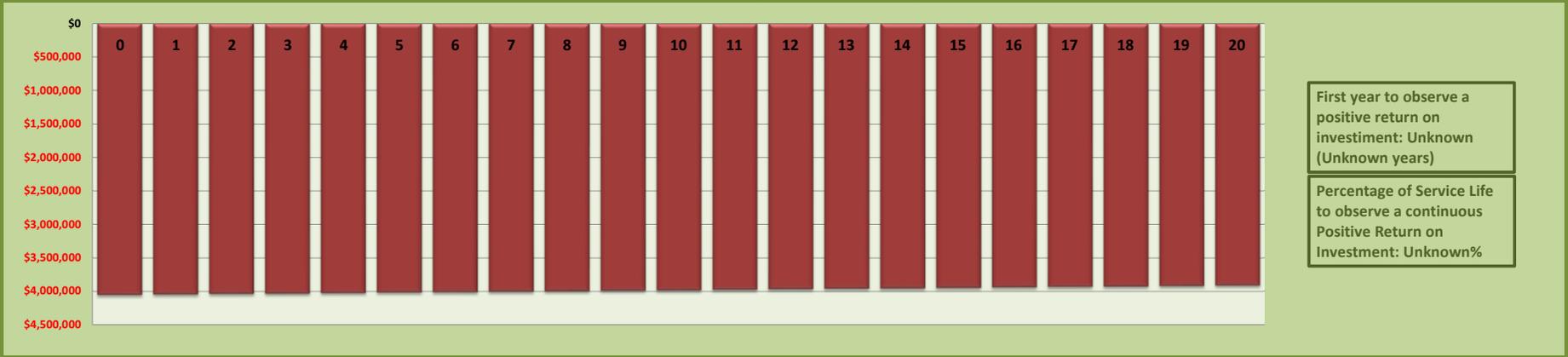
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-71 NB to I-271 NB - 55 mph Ramp - Alternative 1	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



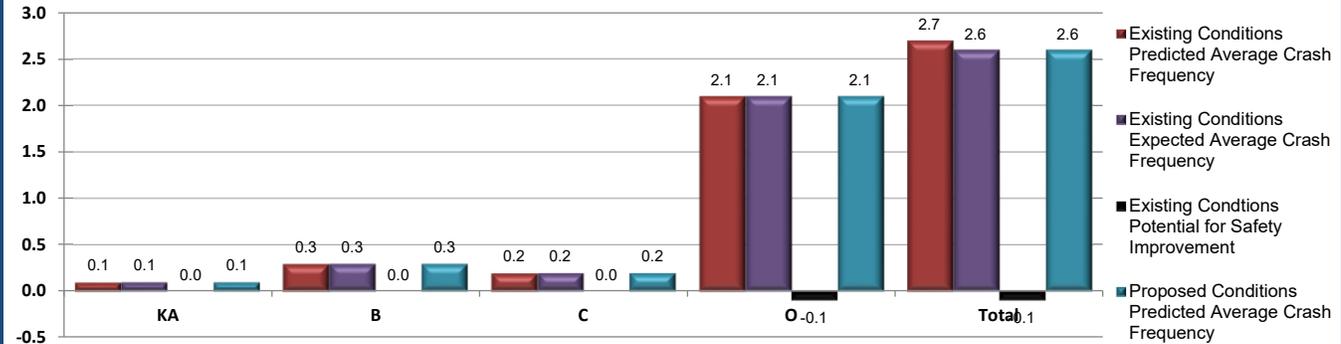


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-71 NB to I-271 NB - 65 mph Ramp - Alternative 2	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.0772	0.2841	0.1840	2.1165	2.6618
N_{expected} - Existing Conditions	0.0771	0.2845	0.1835	2.0652	2.6103
N_{potential for improvement} - Existing Conditions	-0.0001	0.0004	-0.0005	-0.0513	-0.0515
N_{expected} - Proposed Conditions	0.0637	0.2663	0.1842	2.0526	2.5668



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-71 NB to I-271 NB - 65 mph Ramp - Alternative 2	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$11,348,000.00			\$11,348,000.00	\$11,348,000.00		
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00	-0.095	\$112,710
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$11,348,000.00	\$0.00	\$0.00	\$11,348,000.00	\$11,348,000.00	-0.095	\$112,710



Safety Benefit - Cost Analysis

General Information

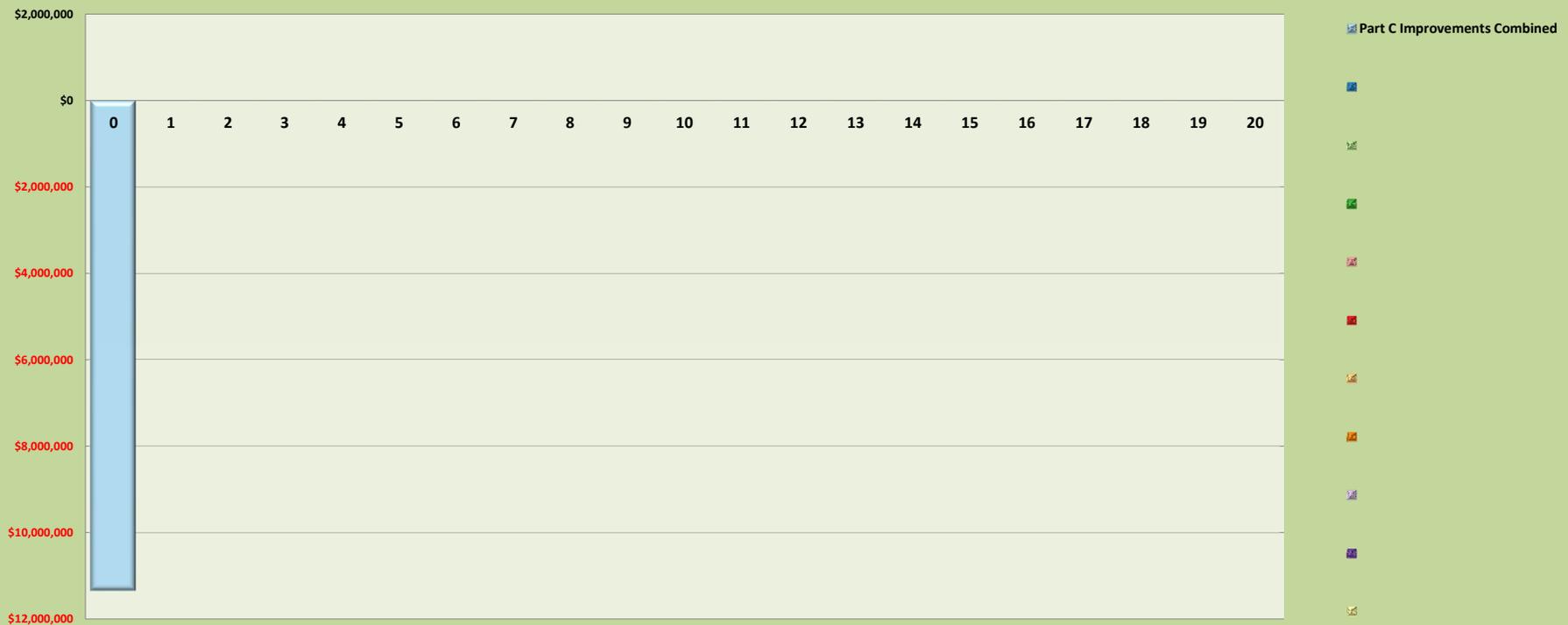
Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-71 NB to I-271 NB - 65 mph Ramp - Alternative 2	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator	
Net Present Value of Project	\$11,348,000.00
Net Present Value of Safety Benefits	\$112,709.62
Net Benefit	(\$11,235,290.38)
Benefit / Cost Ratio	0.01

Expected Annual Crash Adjustment	
Number of Fatal & Incapacitating Injury Crashes	-0.014
Number of Injury Crashes	-0.031
Number of Total Crashes	-0.095

Comments:

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



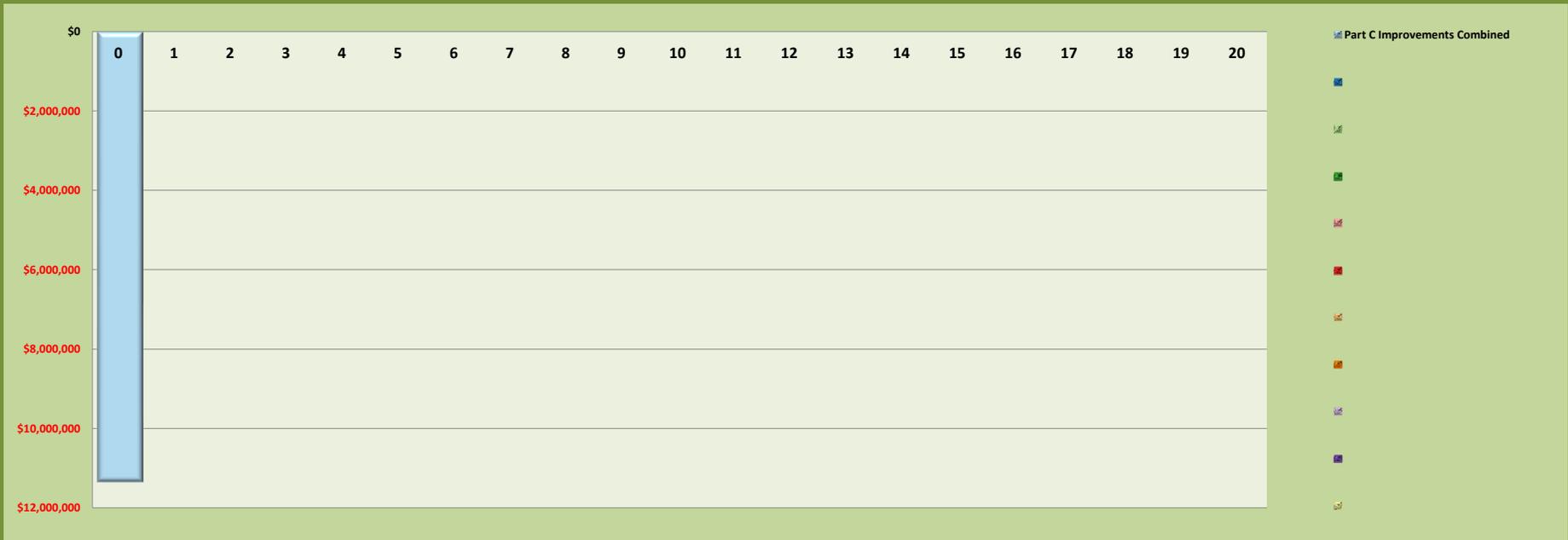


Safety Benefit - Cost Analysis

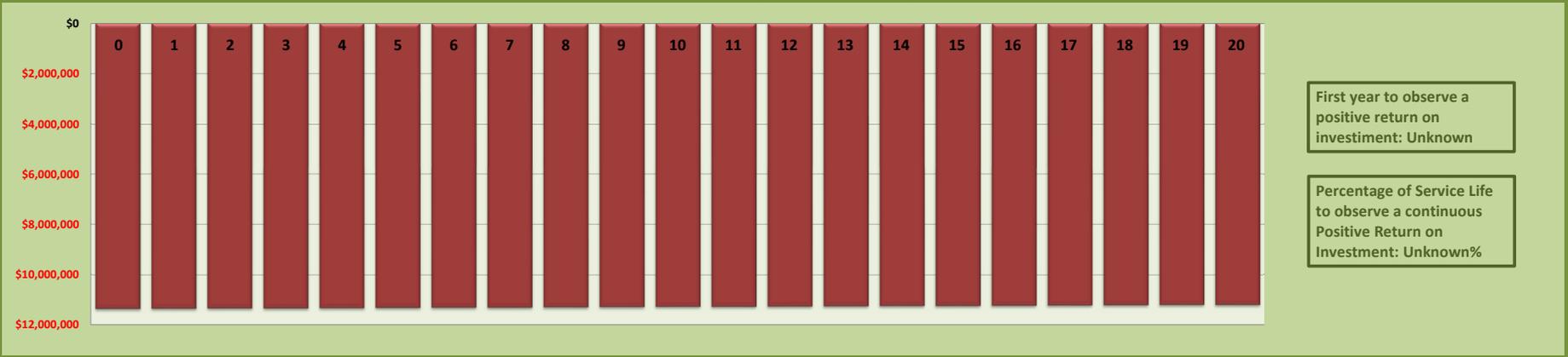
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-71 NB to I-271 NB - 65 mph Ramp - Alternative 2	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



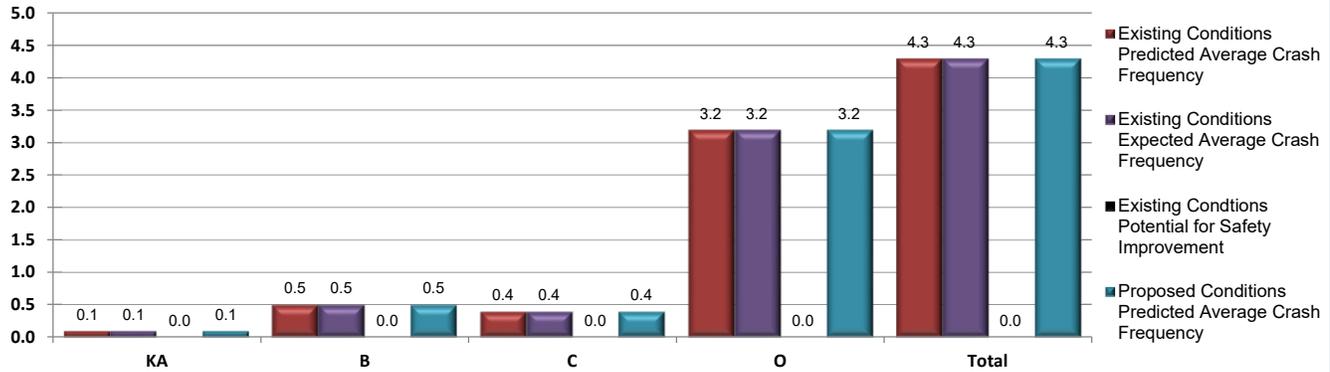


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-271 SB to I-71 SB - 55 mph Ramp - Alternative 6	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.1402	0.5440	0.4015	3.2002	4.2859
N_{expected} - Existing Conditions	0.1399	0.5416	0.3992	3.1843	4.2650
N_{potential for improvement} - Existing Conditions	-0.0003	-0.0024	-0.0023	-0.0159	-0.0209
N_{expected} - Proposed Conditions	0.1397	0.5428	0.4007	3.1899	4.2731



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-271 SB to I-71 SB - 55 mph Ramp - Alternative 6	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$11,615,000.00			\$11,615,000.00	\$11,615,000.00		
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00	-0.013	\$4,992
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$11,615,000.00	\$0.00	\$0.00	\$11,615,000.00	\$11,615,000.00	-0.013	\$4,992



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-271 SB to I-71 SB - 55 mph Ramp - Alternative 6	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator

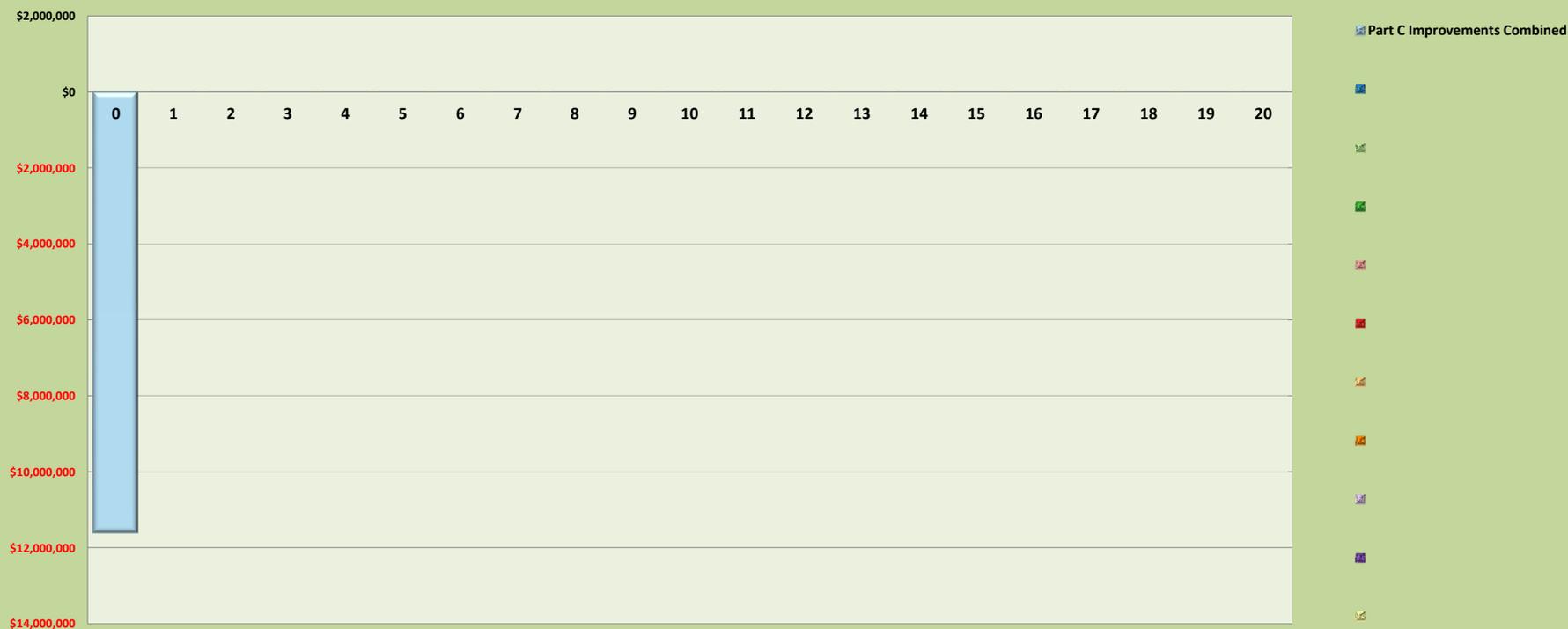
Net Present Value of Project	\$11,615,000.00
Net Present Value of Safety Benefits	\$4,992.20
Net Benefit	(\$11,610,007.80)
Benefit / Cost Ratio	0.00

Expected Annual Crash Adjustment

Number of Fatal & Incapacitating Injury Crashes	0.000
Number of Injury Crashes	-0.003
Number of Total Crashes	-0.013

Comments:

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



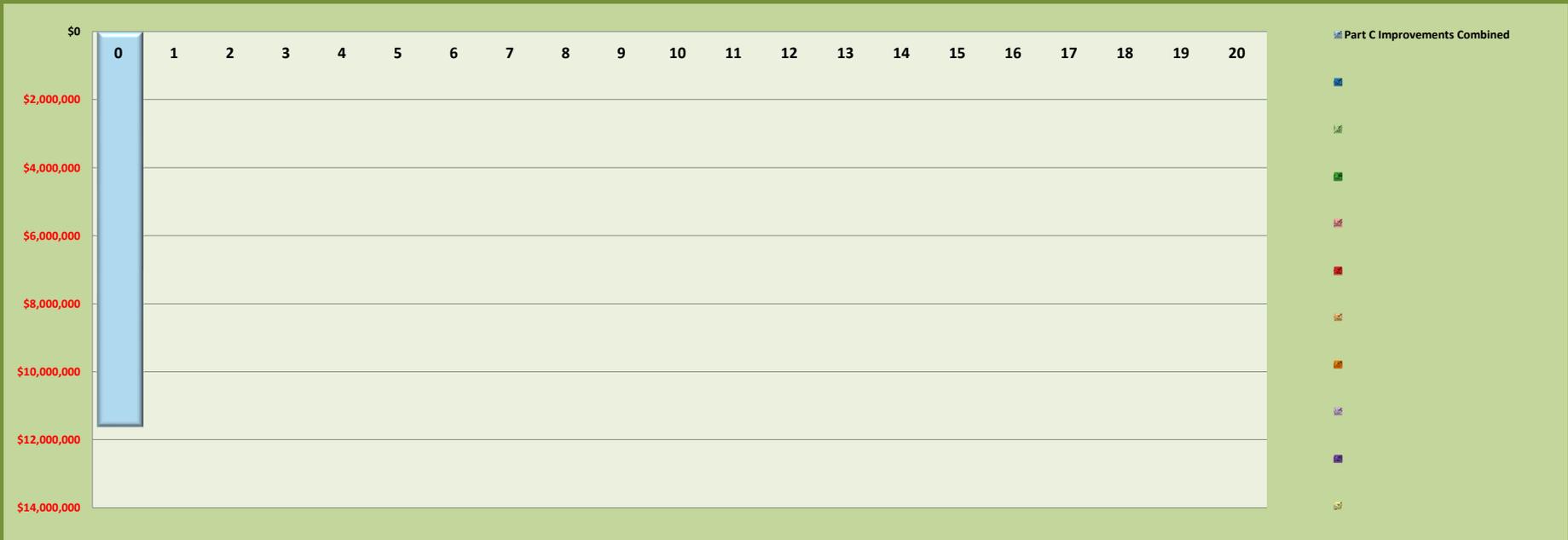


Safety Benefit - Cost Analysis

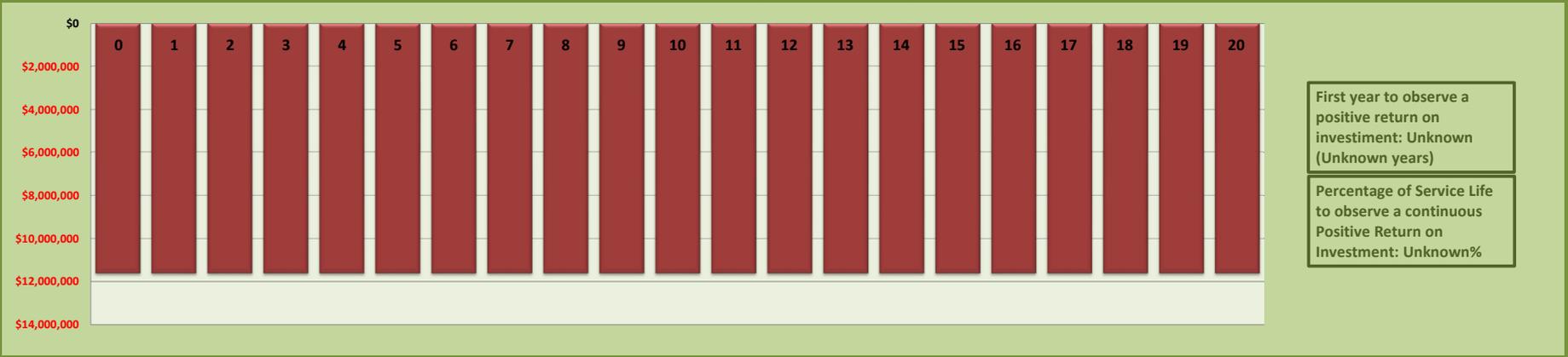
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-271 SB to I-71 SB - 55 mph Ramp - Alternative 6	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



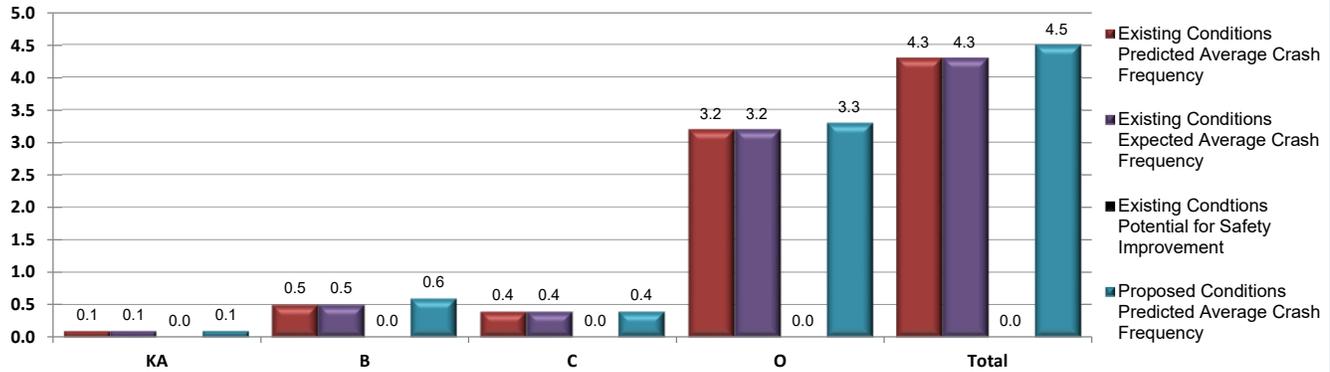


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-271 SB to I-71 SB - 65 mph Ramp - Alternative 7	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.1402	0.5440	0.4015	3.2002	4.2859
N_{expected} - Existing Conditions	0.1399	0.5416	0.3992	3.1843	4.2650
N_{potential for improvement} - Existing Conditions	-0.0003	-0.0024	-0.0023	-0.0159	-0.0209
N_{expected} - Proposed Conditions	0.1445	0.5629	0.4140	3.3391	4.4605



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-271 SB to I-71 SB - 65 mph Ramp - Alternative 7	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$23,107,000.00			\$23,107,000.00	\$23,107,000.00	0.175	(\$59,656)
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$23,107,000.00	\$0.00	\$0.00	\$23,107,000.00	\$23,107,000.00	0.175	(\$59,656)



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-271 SB to I-71 SB - 65 mph Ramp - Alternative 7	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator

Net Present Value of Project **\$23,107,000.00**

Net Present Value of Safety Benefits **(\$59,655.90)**

Net Benefit **(\$23,166,655.90)**

Benefit / Cost Ratio **0.00**

Expected Annual Crash Adjustment

Number of Fatal & Incapacitating Injury Crashes **0.004**

Number of Injury Crashes **0.036**

Number of Total Crashes **0.175**

Comments:

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



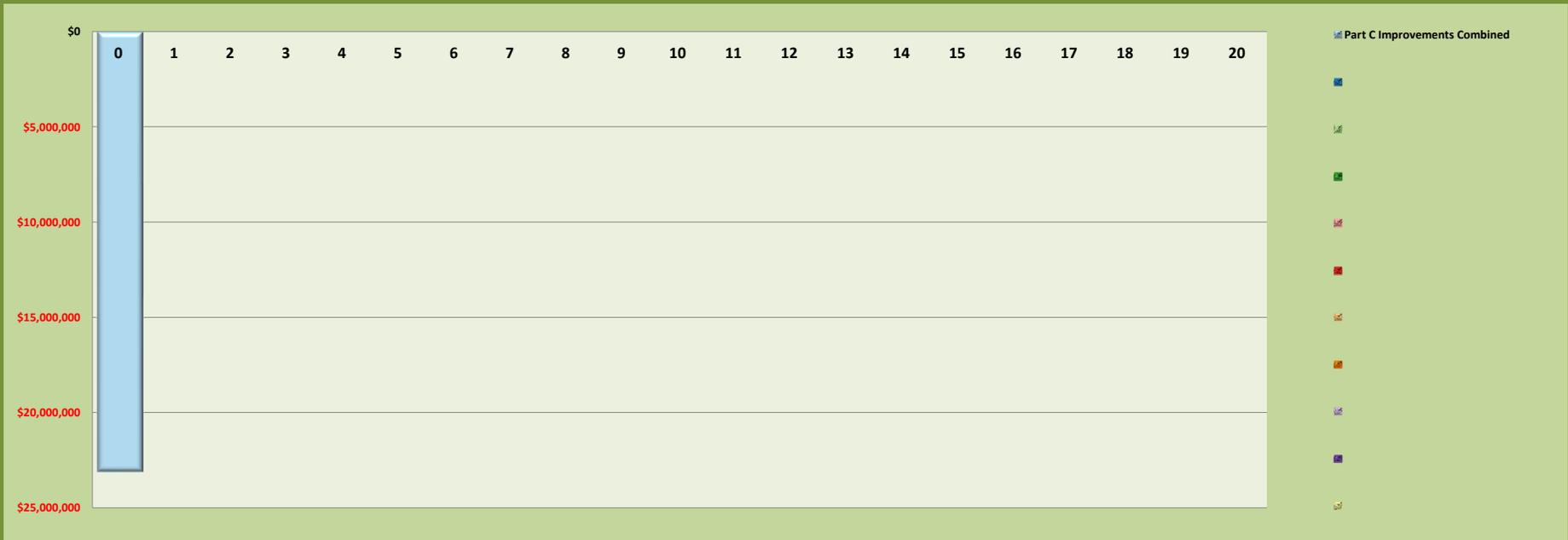


Safety Benefit - Cost Analysis

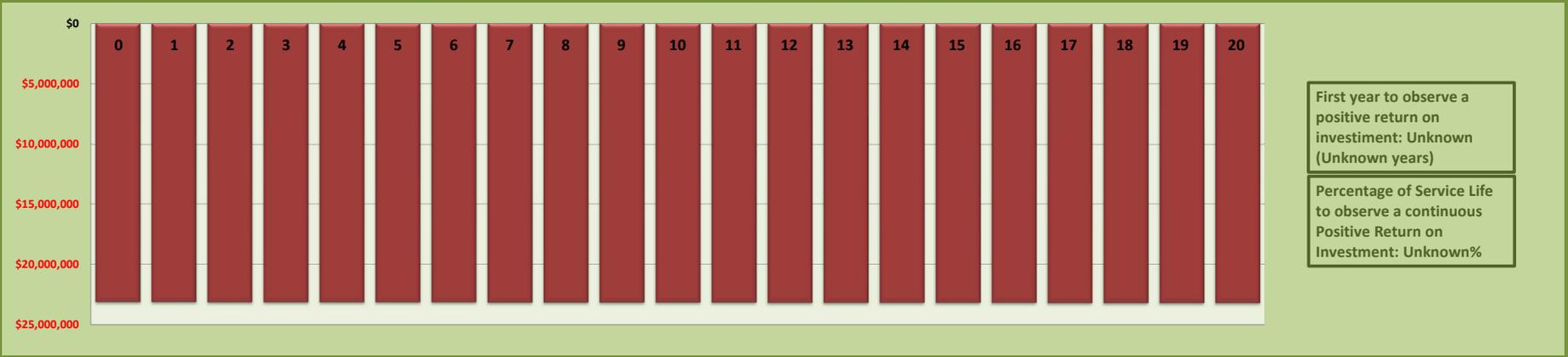
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-271 SB to I-71 SB - 65 mph Ramp - Alternative 7	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



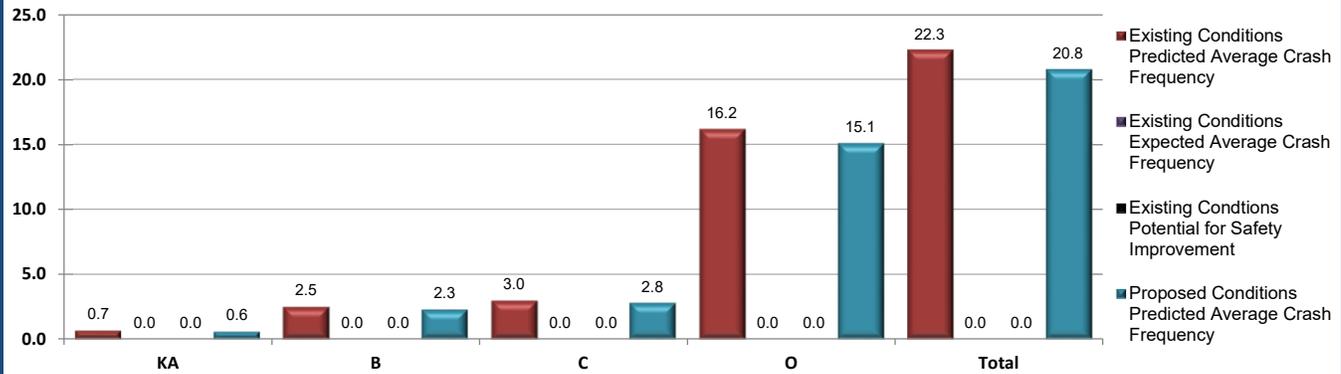


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Analysis of Existing SR 3/94 Corridor after I71 SB to I271 NB Diversion	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.6792	2.4662	2.9743	16.1922	22.3119
N_{expected} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{potential for improvement} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{expected} - Proposed Conditions	0.6301	2.2897	2.7690	15.1384	20.8272



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Analysis of Existing SR 3/94 Corridor after I71 SB to I271 NB Diversion	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$54,564,000.00			\$54,564,000.00	\$54,564,000.00	-1.485	\$651,807
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$54,564,000.00	\$0.00	\$0.00	\$54,564,000.00	\$54,564,000.00	-1.485	\$651,807



Safety Benefit - Cost Analysis

General Information

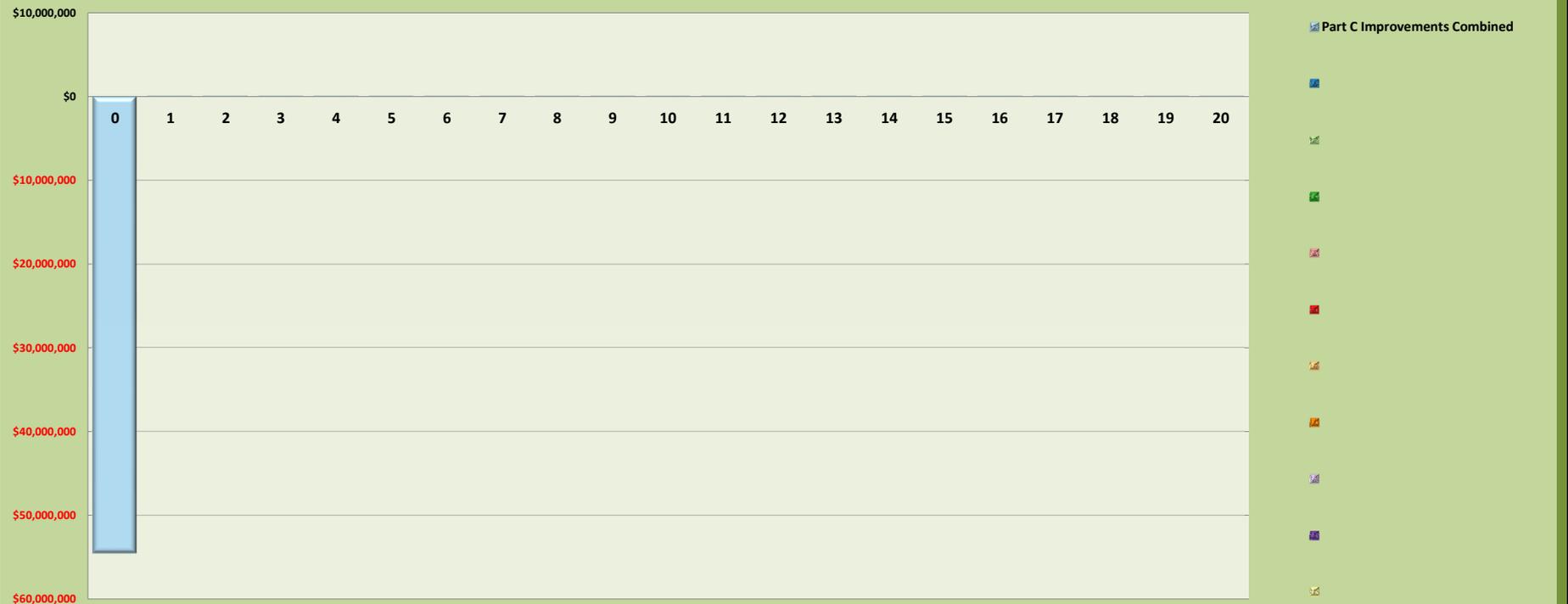
Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Analysis of Existing SR 3/94 Corridor after I71 SB to I271 NB Diversion	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator	
Net Present Value of Project	\$54,564,000.00
Net Present Value of Safety Benefits	\$651,806.80
Net Benefit	(\$53,912,193.20)
Benefit / Cost Ratio	0.01

Expected Annual Crash Adjustment	
Number of Fatal & Incapacitating Injury Crashes	-0.049
Number of Injury Crashes	-0.431
Number of Total Crashes	-1.485

Comments:

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



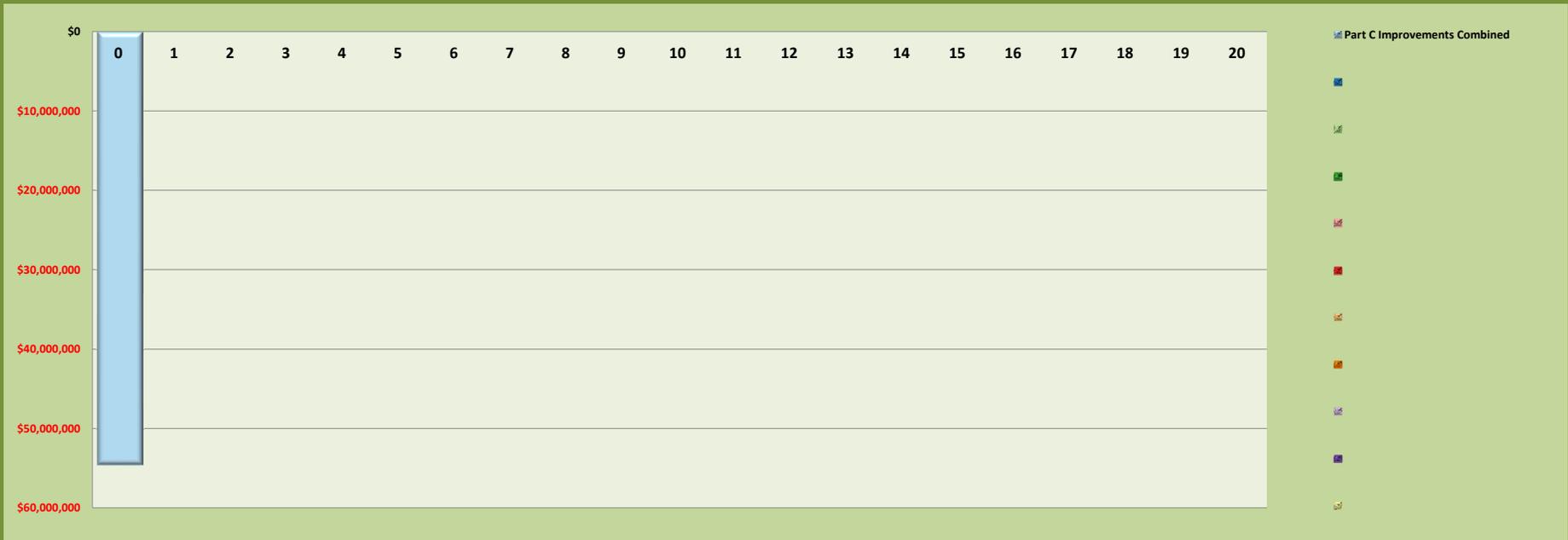


Safety Benefit - Cost Analysis

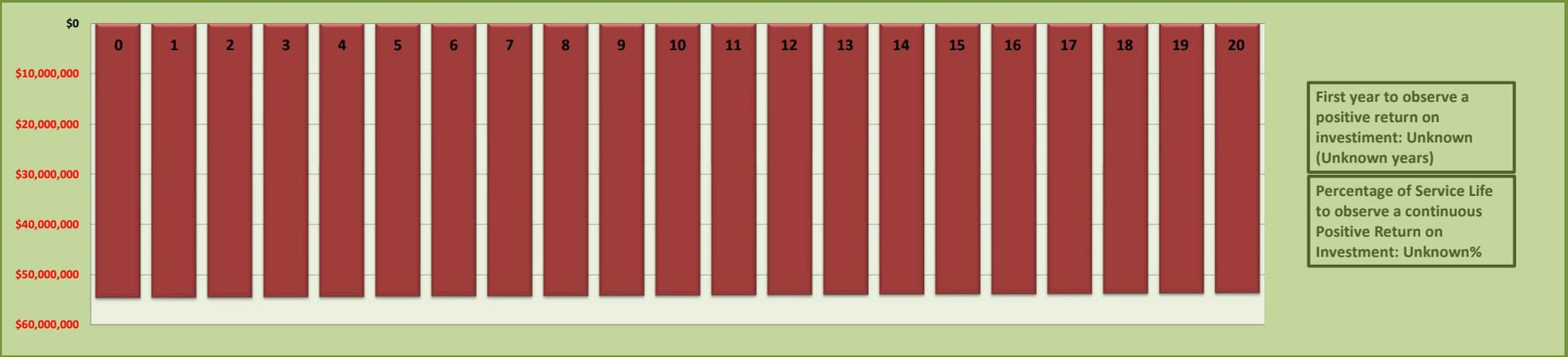
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Analysis of Existing SR 3/94 Corridor after I71 SB to I271 NB Diversion	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



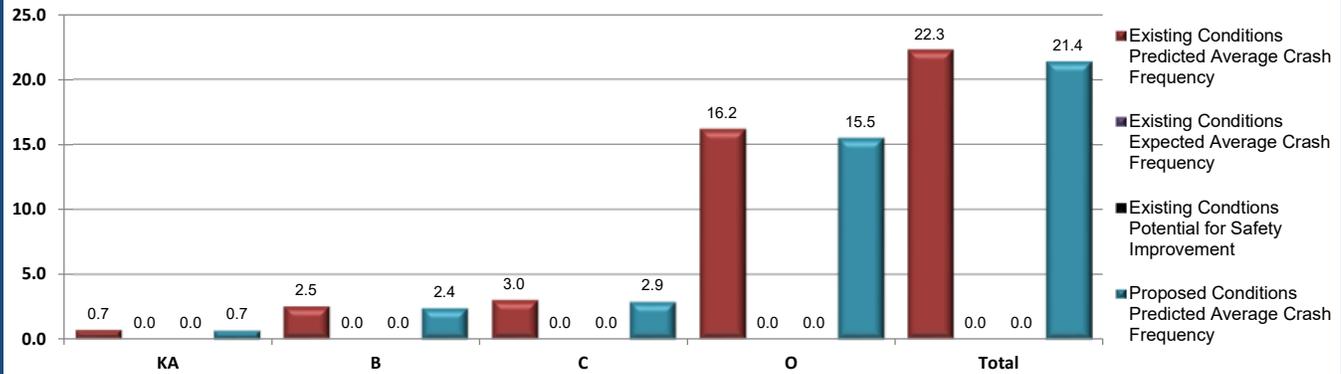


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Analysis of Existing SR 3/94 Corridor after I271 SB to I71 NB Diversion	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.6792	2.4662	2.9743	16.1922	22.3119
N_{expected} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{potential for improvement} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{expected} - Proposed Conditions	0.6507	2.3633	2.8561	15.5329	21.4030



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Analysis of Existing SR 3/94 Corridor after I271 SB to I71 NB Diversion	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$6,836,000.00			\$6,836,000.00	\$6,836,000.00	-0.909	\$386,618
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$6,836,000.00	\$0.00	\$0.00	\$6,836,000.00	\$6,836,000.00	-0.909	\$386,618



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Analysis of Existing SR 3/94 Corridor after I271 SB to I71 NB Diversion	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philipposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator

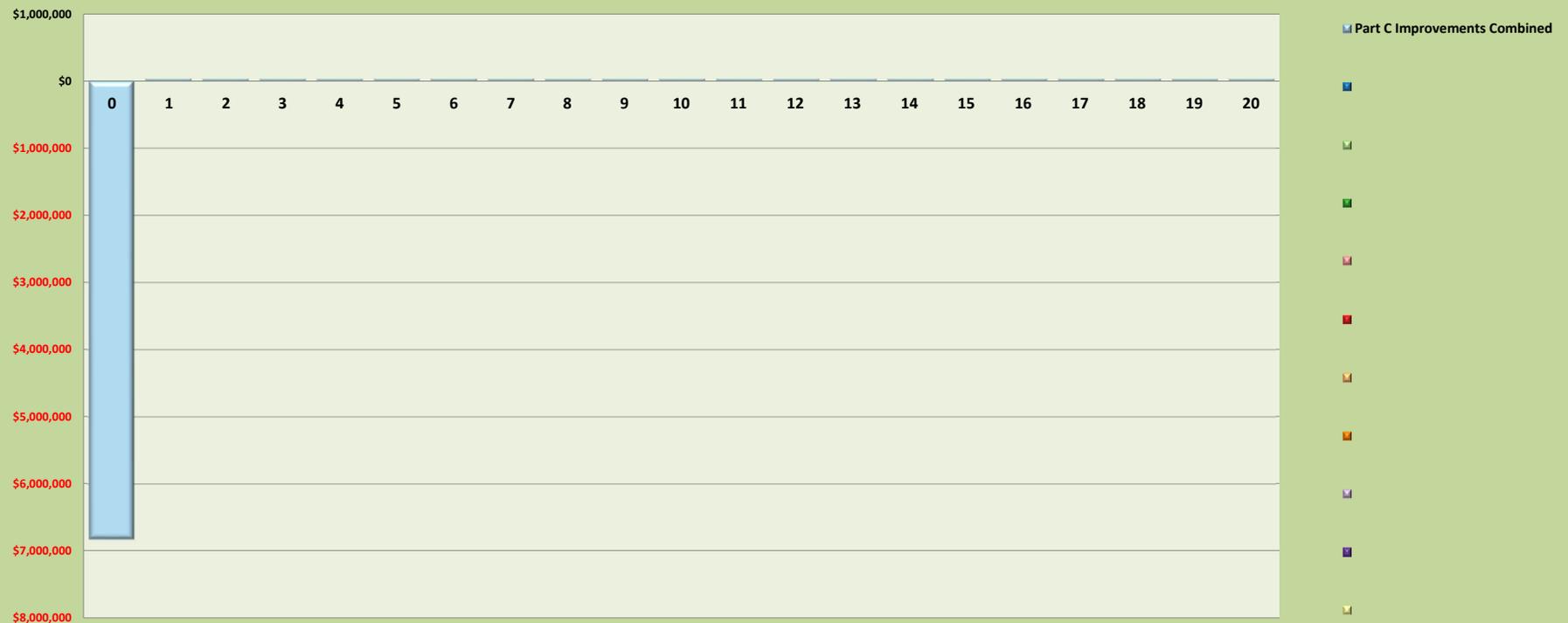
Net Present Value of Project	\$6,836,000.00
Net Present Value of Safety Benefits	\$386,618.47
Net Benefit	(\$6,449,381.53)
Benefit / Cost Ratio	0.06

Expected Annual Crash Adjustment

Number of Fatal & Incapacitating Injury Crashes	-0.029
Number of Injury Crashes	-0.250
Number of Total Crashes	-0.909

Comments:

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



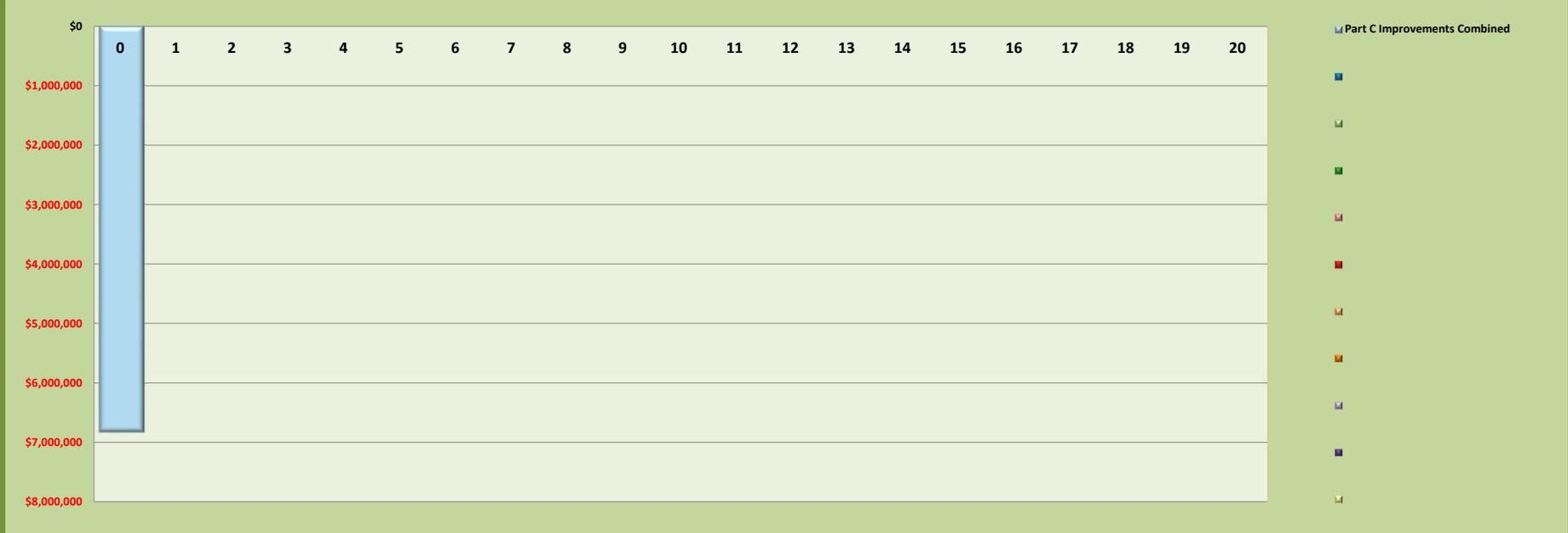


Safety Benefit - Cost Analysis

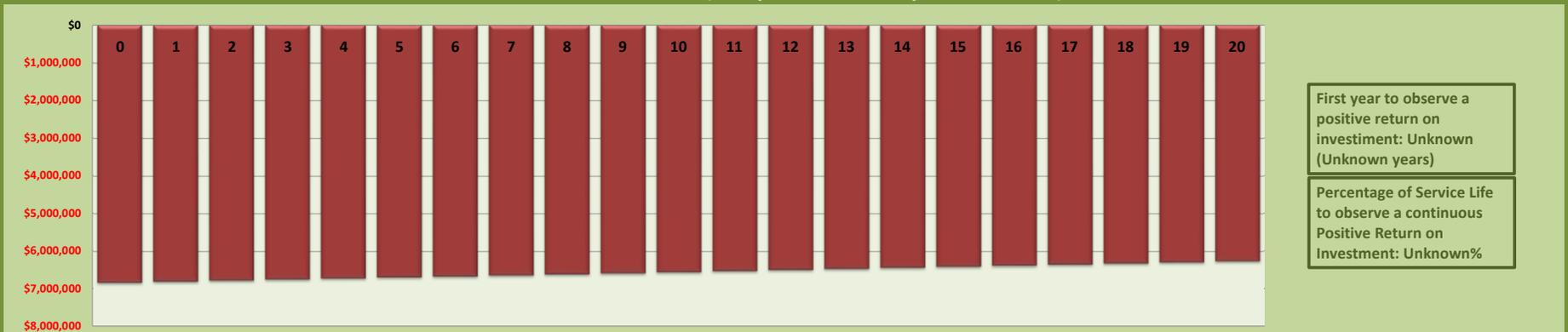
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Analysis of Existing SR 3/94 Corridor after I271 SB to I71 NB Diversion	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



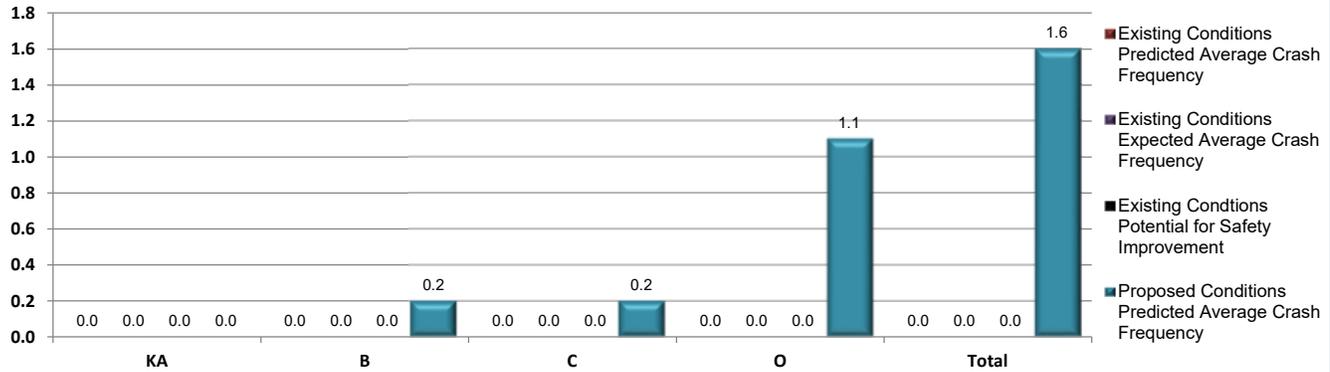


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-71 SB to I-271 NB - 55 mph Ramp - Alternative 3	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions					0.0000
N_{expected} - Existing Conditions					0.0000
N_{potential for improvement} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{expected} - Proposed Conditions	0.0163	0.2332	0.2456	1.0564	1.5515



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-71 SB to I-271 NB - 55 mph Ramp - Alternative 3	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$54,564,000.00			\$54,564,000.00	\$54,564,000.00	1.552	(\$514,690)
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$54,564,000.00	\$0.00	\$0.00	\$54,564,000.00	\$54,564,000.00	1.552	(\$514,690)



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-71 SB to I-271 NB - 55 mph Ramp - Alternative 3	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philipposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator

Net Present Value of Project **\$54,564,000.00**

Net Present Value of Safety Benefits **(\$514,690.25)**

Net Benefit **(\$55,078,690.25)**

Benefit / Cost Ratio **-0.01**

Expected Annual Crash Adjustment

Number of Fatal & Incapacitating Injury Crashes **0.016**

Number of Injury Crashes **0.495**

Number of Total Crashes **1.552**

Comments:

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



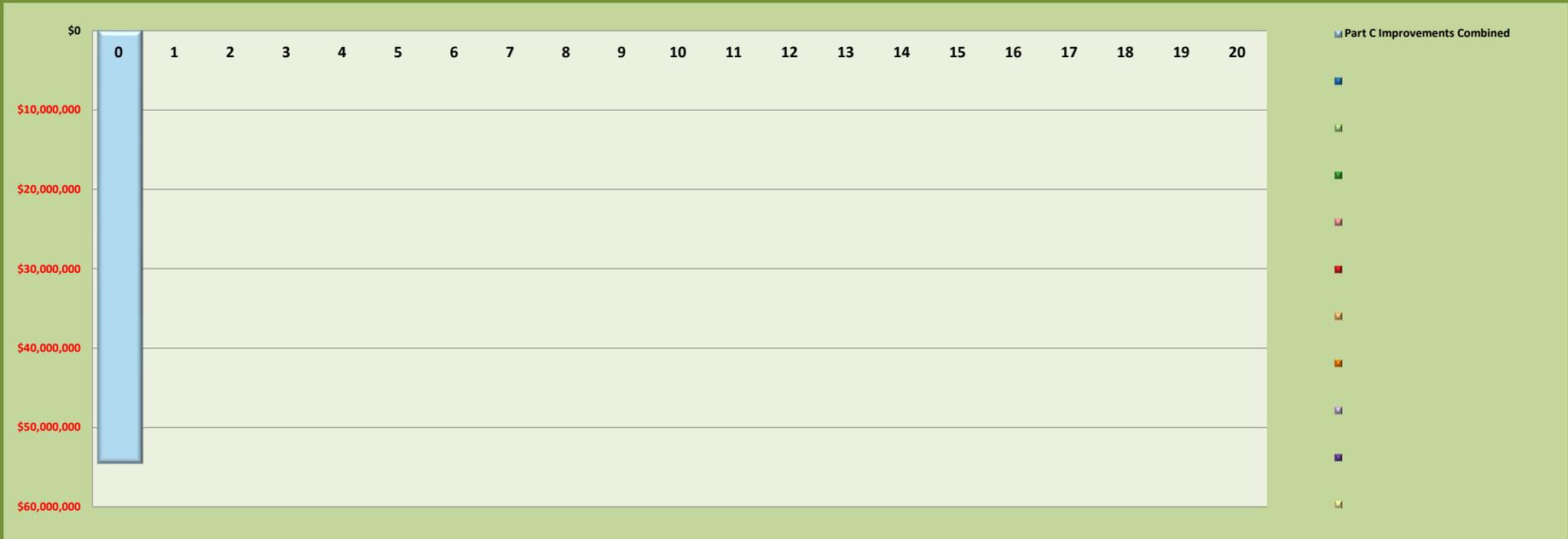


Safety Benefit - Cost Analysis

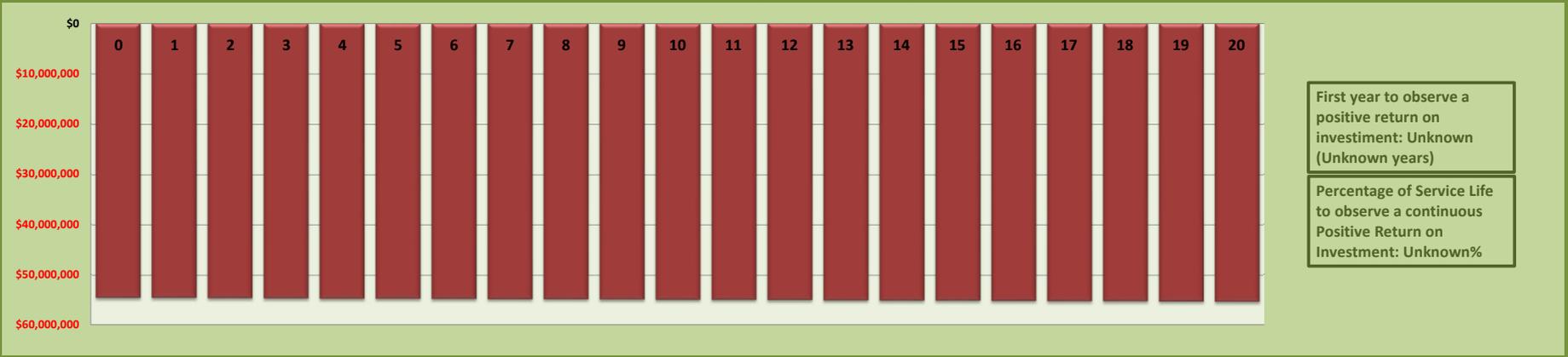
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-71 SB to I-271 NB - 55 mph Ramp - Alternative 3	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



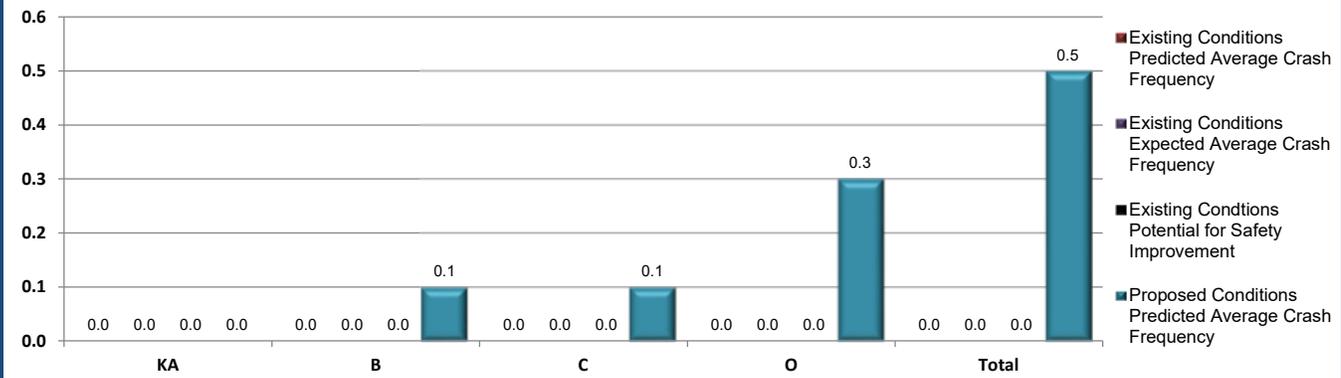


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-271 SB to I-71 NB - 55 mph Ramp - Alternative 4	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions					0.0000
N_{expected} - Existing Conditions					0.0000
N_{potential for improvement} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{expected} - Proposed Conditions	0.0303	0.0867	0.1084	0.2560	0.4814



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-271 SB to I-71 NB - 55 mph Ramp - Alternative 4	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$6,836,000.00			\$6,836,000.00	\$6,836,000.00	0.481	(\$375,454)
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$6,836,000.00	\$0.00	\$0.00	\$6,836,000.00	\$6,836,000.00	0.481	(\$375,454)



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-271 SB to I-71 NB - 55 mph Ramp - Alternative 4	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator	
Net Present Value of Project	\$6,836,000.00
Net Present Value of Safety Benefits	(\$375,454.41)
Net Benefit	(\$7,211,454.41)
Benefit / Cost Ratio	-0.05

Expected Annual Crash Adjustment	
Number of Fatal & Incapacitating Injury Crashes	0.030
Number of Injury Crashes	0.225
Number of Total Crashes	0.481

Comments:

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



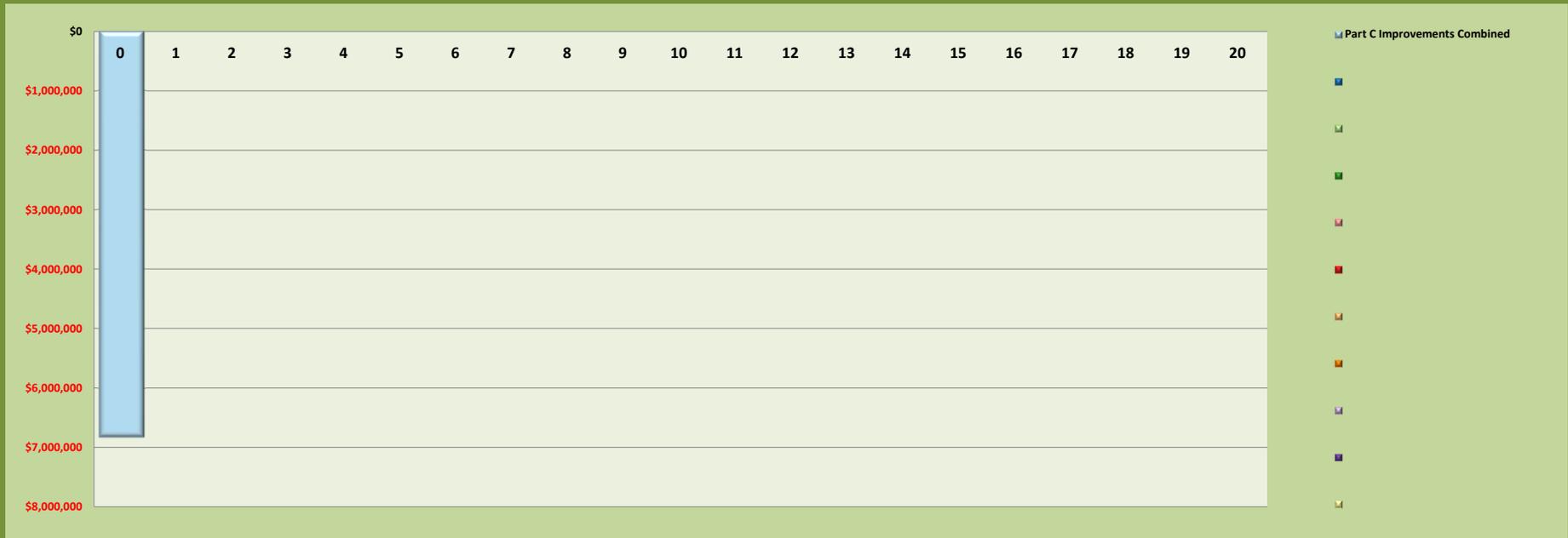


Safety Benefit - Cost Analysis

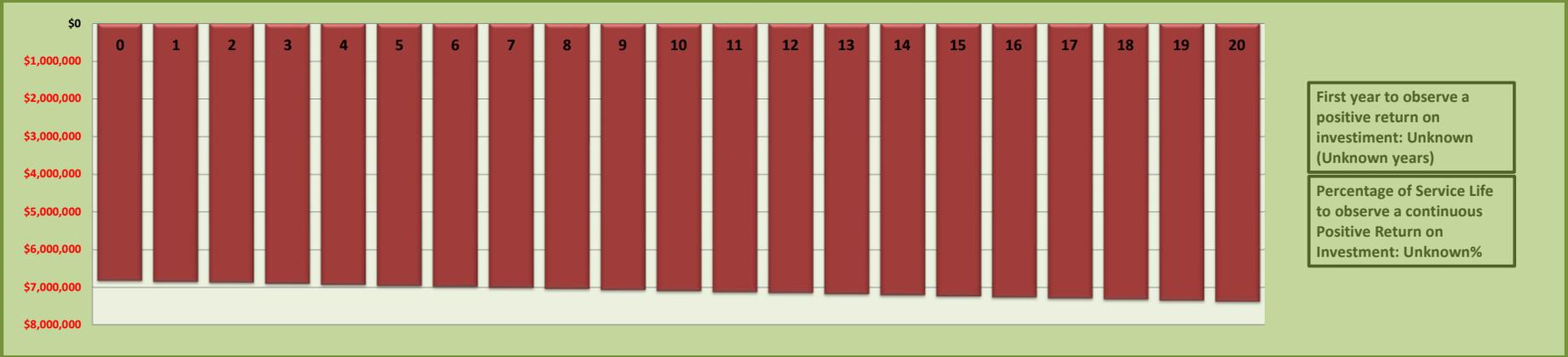
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-271 SB to I-71 NB - 55 mph Ramp - Alternative 4	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



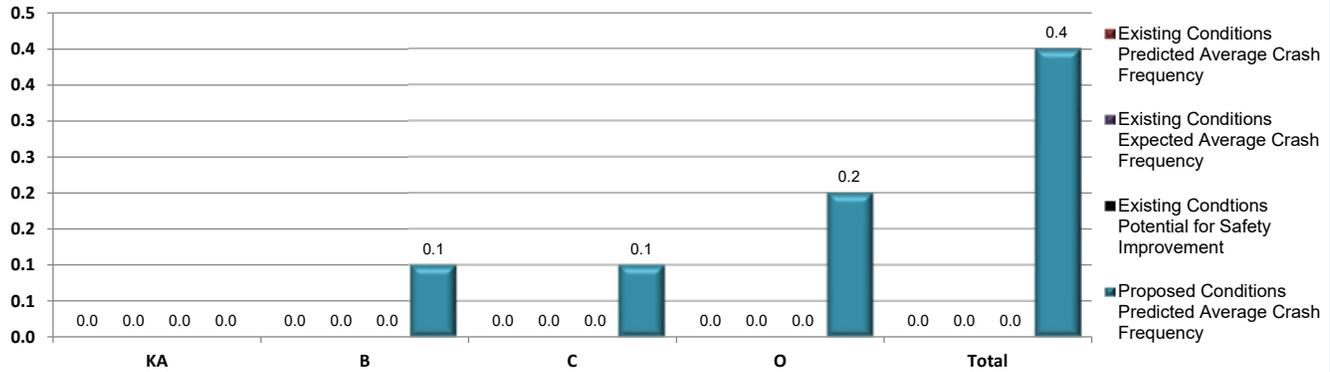


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-271 SB to I-71 NB - 65 mph Ramp - Alternative 5	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions					0.0000
N_{expected} - Existing Conditions					0.0000
N_{potential for improvement} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{expected} - Proposed Conditions	0.0283	0.0809	0.1018	0.2381	0.4491



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-271 SB to I-71 NB - 65 mph Ramp - Alternative 5	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$9,192,000.00			\$9,192,000.00	\$9,192,000.00	0.449	(\$350,981)
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$9,192,000.00	\$0.00	\$0.00	\$9,192,000.00	\$9,192,000.00	0.449	(\$350,981)



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-271 SB to I-71 NB - 65 mph Ramp - Alternative 5	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philipposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator

Net Present Value of Project **\$9,192,000.00**

Net Present Value of Safety Benefits **(\$350,981.24)**

Net Benefit **(\$9,542,981.24)**

Benefit / Cost Ratio **-0.04**

Expected Annual Crash Adjustment

Number of Fatal & Incapacitating Injury Crashes **0.028**

Number of Injury Crashes **0.211**

Number of Total Crashes **0.449**

Comments:

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



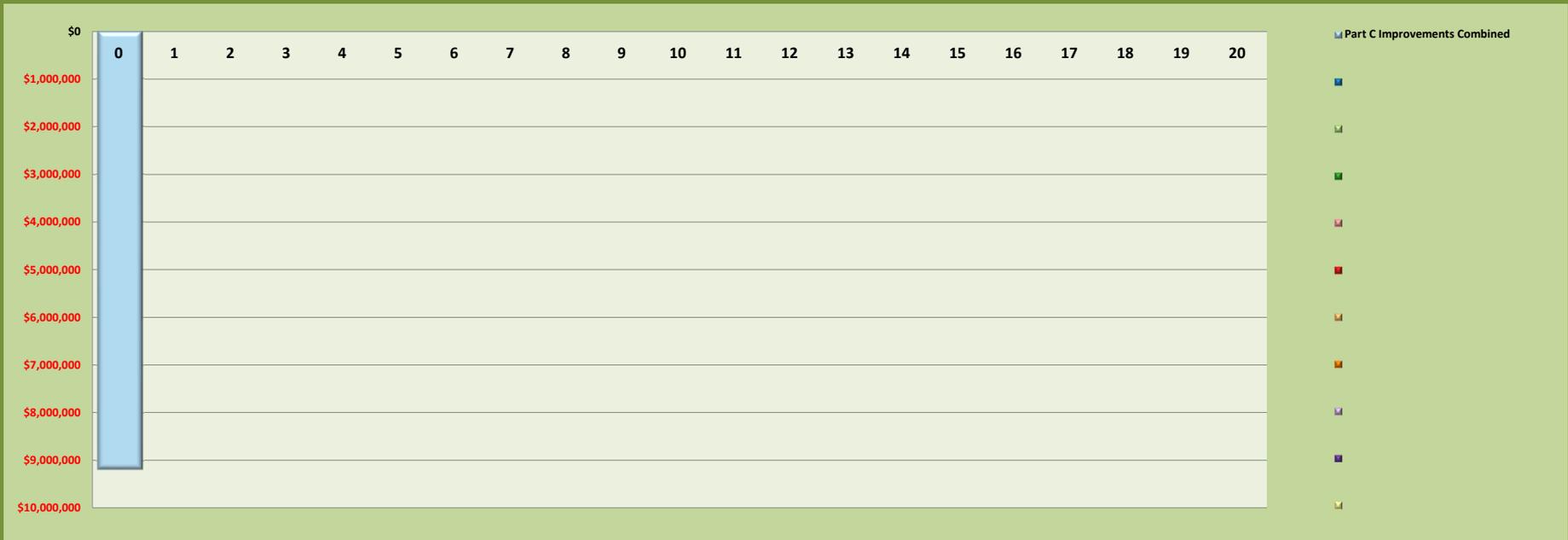


Safety Benefit - Cost Analysis

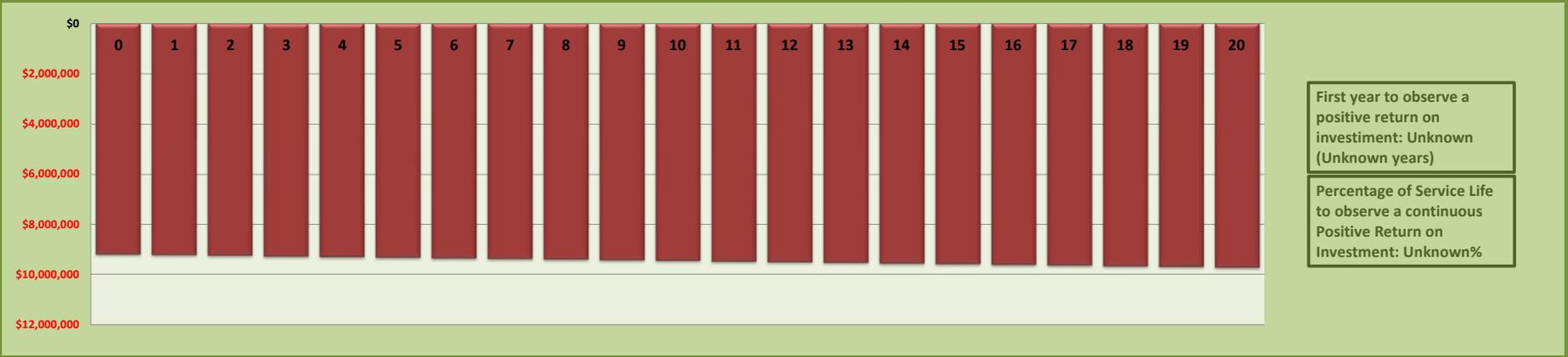
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	I-271 SB to I-71 NB - 65 mph Ramp - Alternative 5	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philipposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



IR-71/IR-271 Interchange Build ECAT Reports

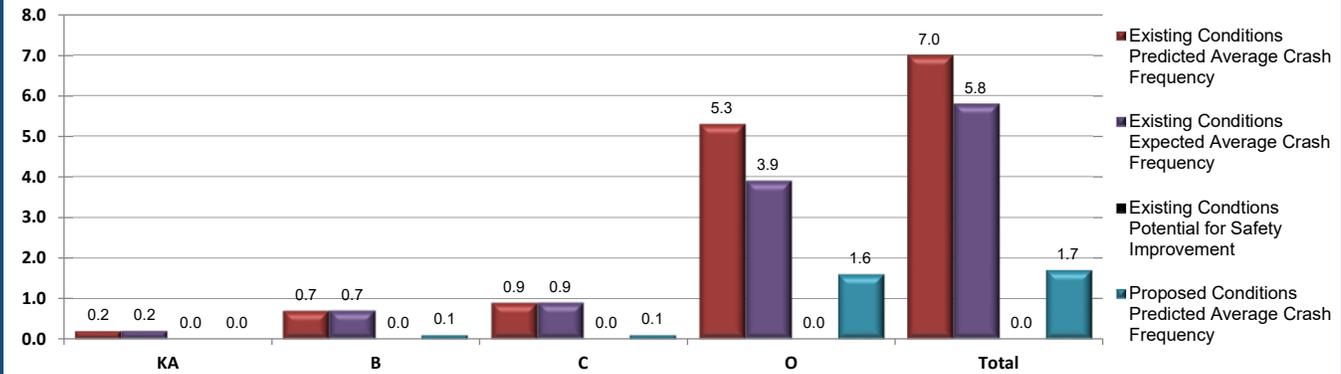


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #10 - Roundabout Alternative (Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.1645	0.6999	0.8853	5.2884	7.0381
N_{expected} - Existing Conditions	0.1715	0.7291	0.9218	3.9318	5.7542
N_{potential for improvement} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{expected} - Proposed Conditions	0.0075	0.0634	0.0785	1.5632	1.7126



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #10 - Roundabout Alternative (Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$4,378,000.00			\$4,378,000.00	\$4,378,000.00		
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00	-5.326	\$2,328,186
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$4,378,000.00	\$0.00	\$0.00	\$4,378,000.00	\$4,378,000.00	-5.326	\$2,328,186



Safety Benefit - Cost Analysis

General Information

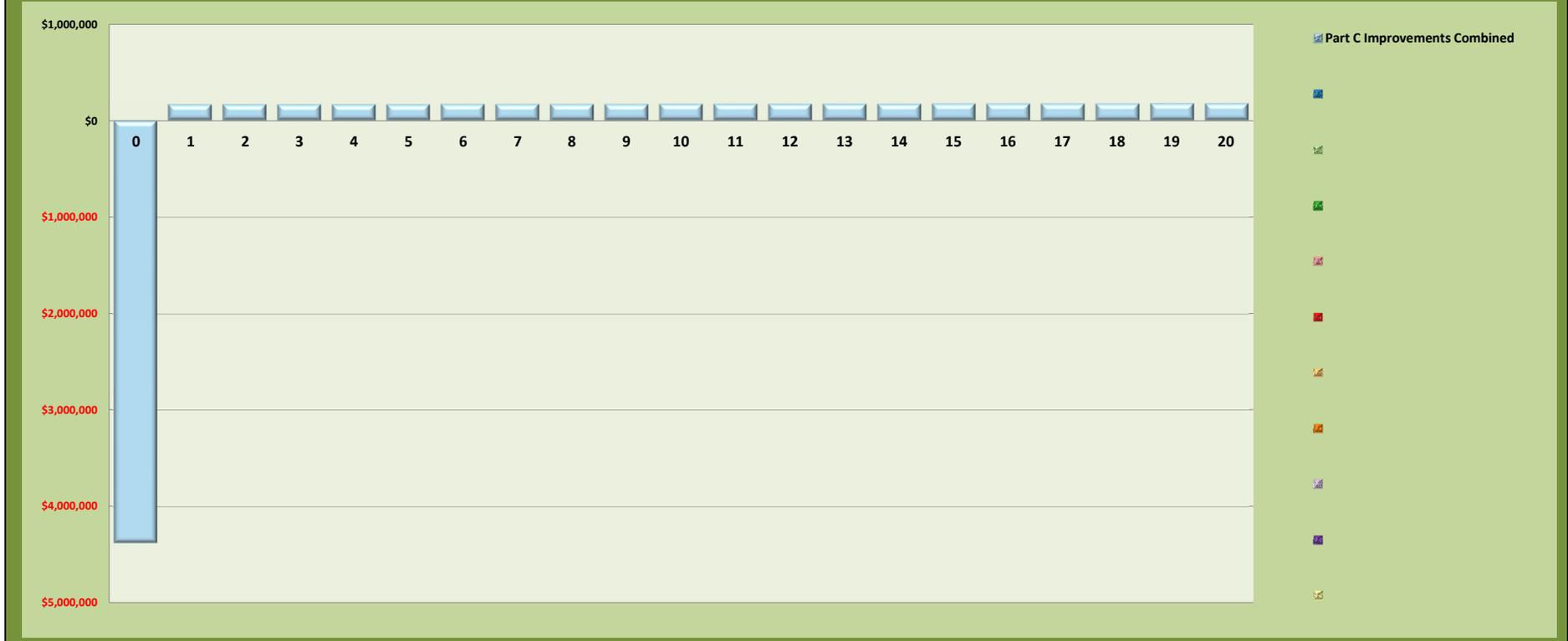
Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #10 - Roundabout Alternative (Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator	
Net Present Value of Project	\$4,378,000.00
Net Present Value of Safety Benefits	\$2,328,186.31
Net Benefit	(\$2,049,813.69)
Benefit / Cost Ratio	0.53

Expected Annual Crash Adjustment	
Number of Fatal & Incapacitating Injury Crashes	-0.157
Number of Injury Crashes	-1.600
Number of Total Crashes	-5.326

Comments:

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



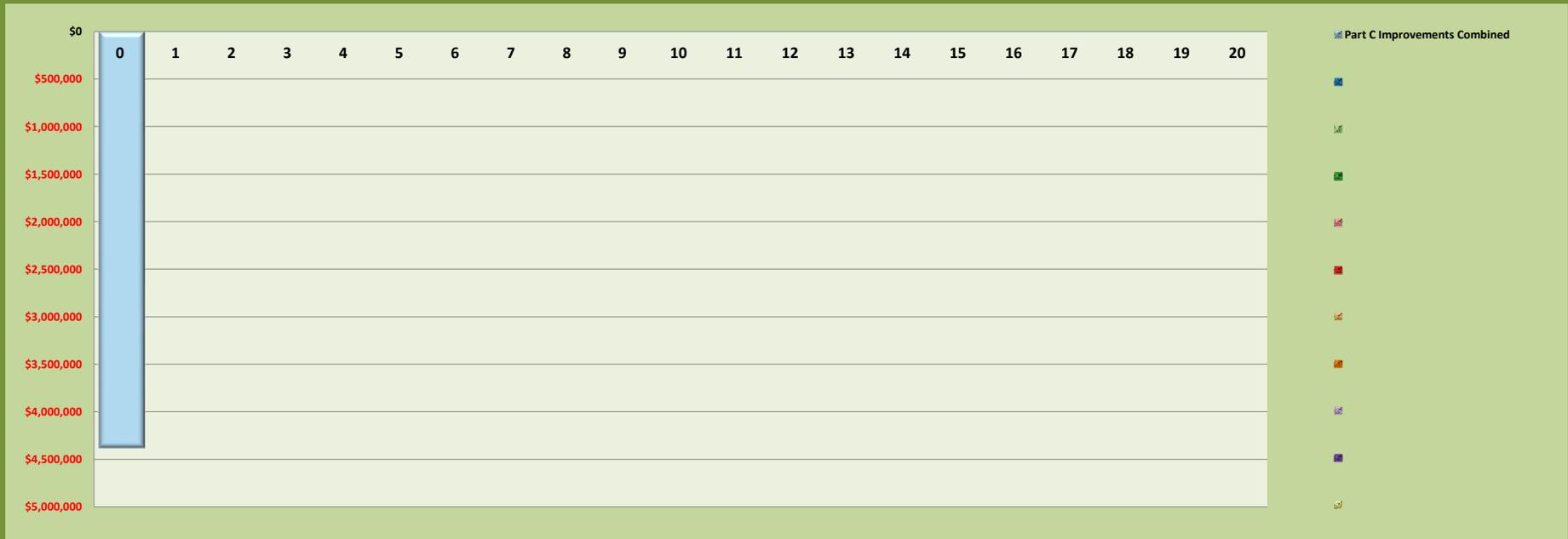


Safety Benefit - Cost Analysis

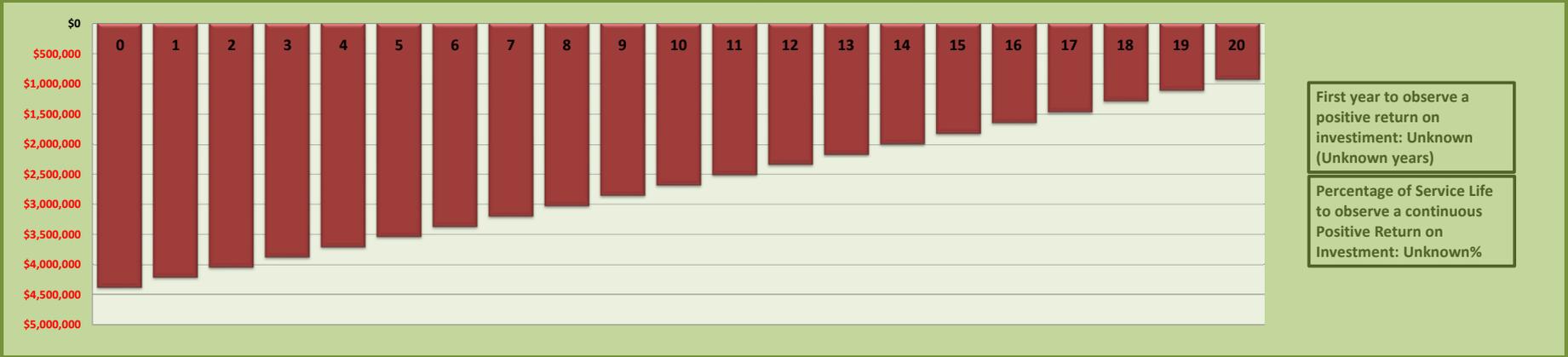
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #10 - Roundabout Alternative (Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



First year to observe a positive return on investment: Unknown (Unknown years)

Percentage of Service Life to observe a continuous Positive Return on Investment: Unknown%

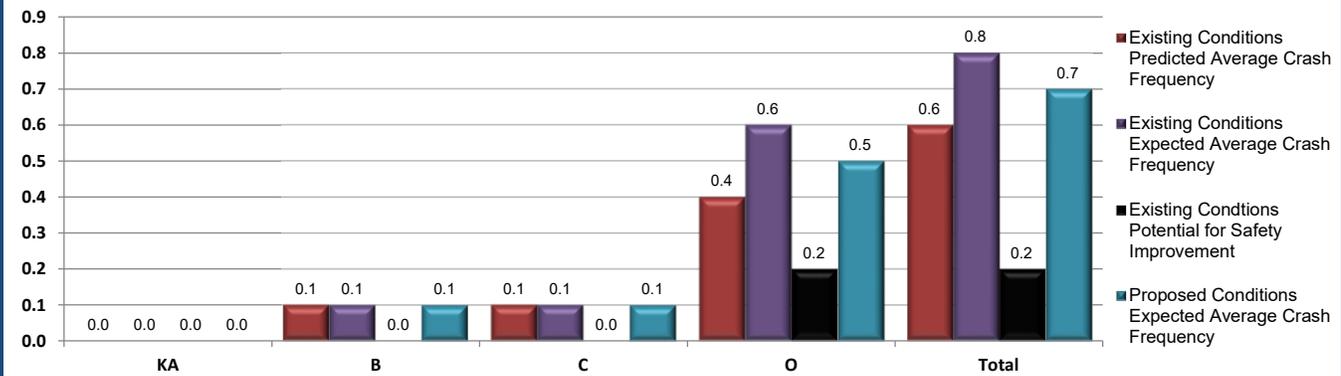


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #30 - Right Turn Lane Alternative (Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.0358	0.0838	0.0727	0.4151	0.6074
N_{expected} - Existing Conditions	0.0402	0.0939	0.0816	0.6208	0.8365
N_{potential for improvement} - Existing Conditions	0.0044	0.0101	0.0089	0.2057	0.2291
N_{expected} - Proposed Conditions	0.0310	0.0723	0.0628	0.5339	0.7000



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #30 - Right Turn Lane Alternative (Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$80,000.00			\$80,000.00	\$80,000.00	-0.137	\$100,423
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$80,000.00	\$0.00	\$0.00	\$80,000.00	\$80,000.00	-0.137	\$100,423



Safety Benefit - Cost Analysis

General Information

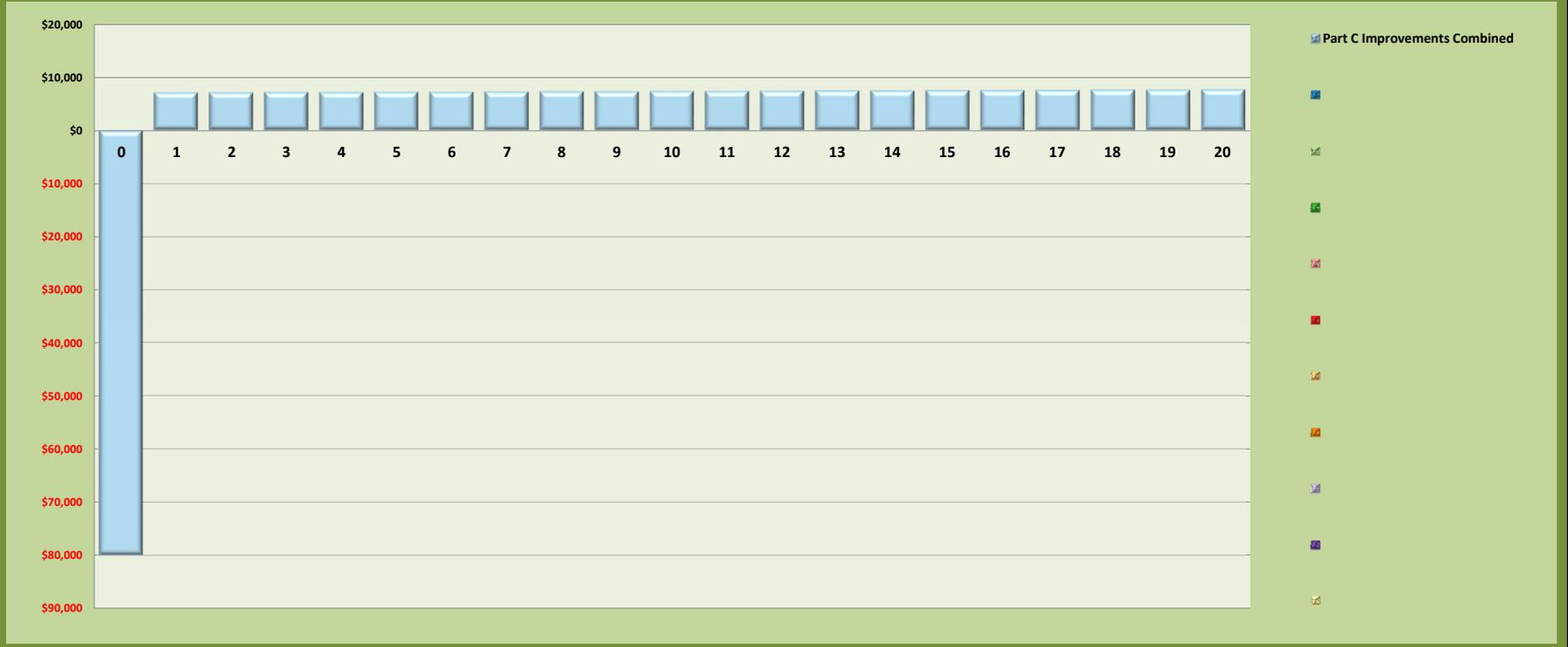
Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #30 - Right Turn Lane Alternative (Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philipposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator	
Net Present Value of Project	\$80,000.00
Net Present Value of Safety Benefits	\$100,423.25
Net Benefit	\$20,423.25
Benefit / Cost Ratio	1.26

Expected Annual Crash Adjustment	
Number of Fatal & Incapacitating Injury Crashes	-0.009
Number of Injury Crashes	-0.050
Number of Total Crashes	-0.137

Comments:

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



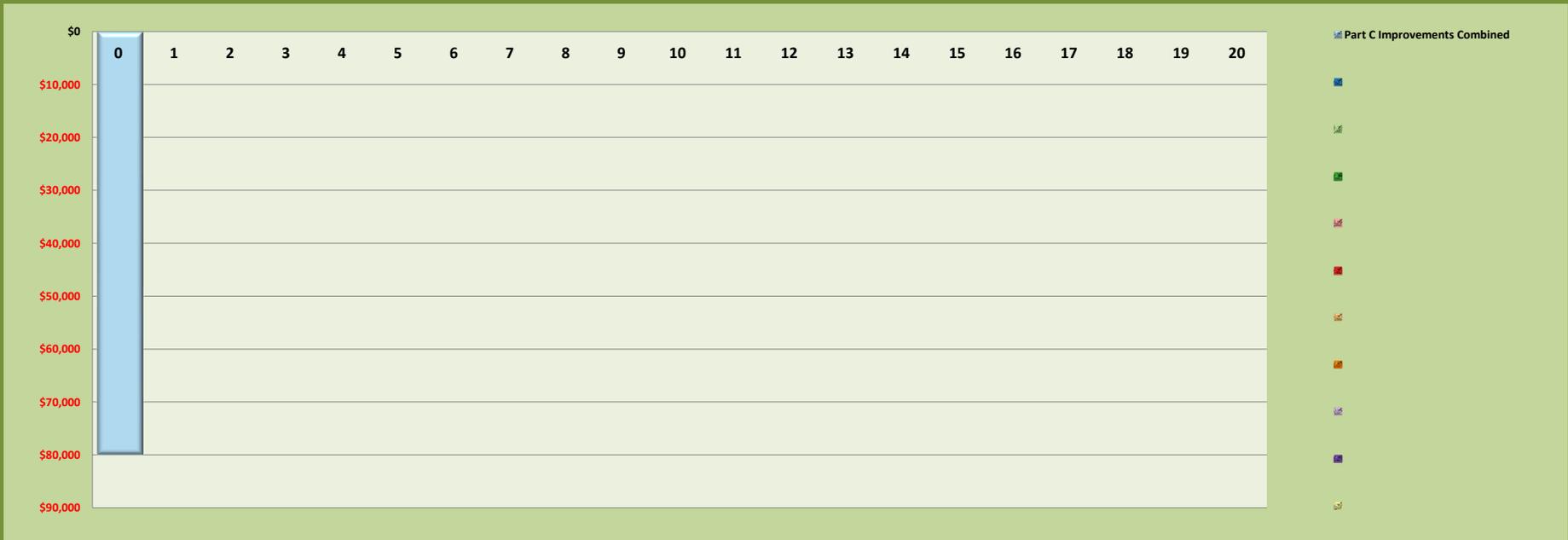


Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #30 - Right Turn Lane Alternative (Build conditions)	Contact Phone	(740) 345-1921
Reference Number	PID 117028	Date Performed	10/16/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



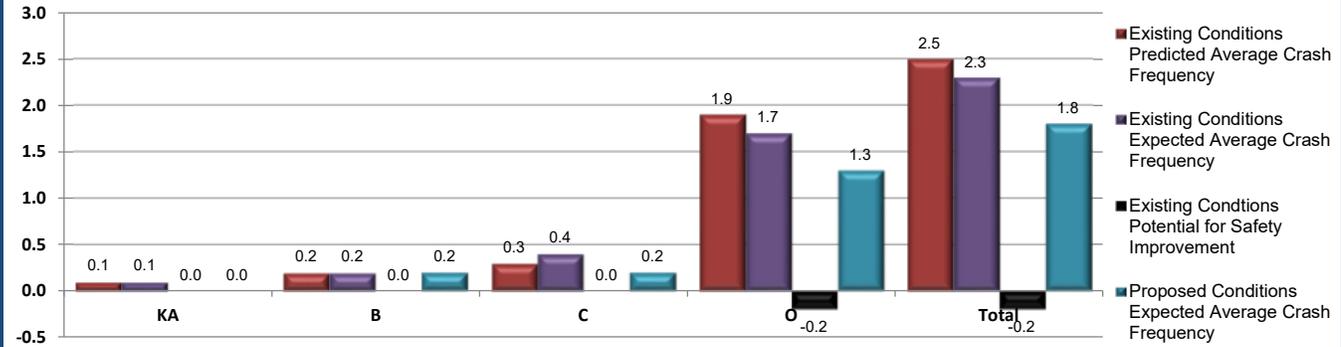


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #40 - Added Turn Lane Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.0527	0.2167	0.3349	1.9435	2.5478
N_{expected} - Existing Conditions	0.0561	0.2308	0.3568	1.7007	2.3444
N_{potential for improvement} - Existing Conditions	0.0034	0.0141	0.0219	-0.2428	-0.2034
N_{expected} - Proposed Conditions	0.0386	0.1586	0.2452	1.3299	1.7723



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #40 - Added Turn Lane Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$1,327,000.00			\$1,327,000.00	\$1,327,000.00	-0.572	\$0
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$1,327,000.00	\$0.00	\$0.00	\$1,327,000.00	\$1,327,000.00	-0.572	\$0



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #40 - Added Turn Lane Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philipposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator	
Net Present Value of Project	\$1,327,000.00
Net Present Value of Safety Benefits	\$0.00
Net Benefit	(\$1,327,000.00)
Benefit / Cost Ratio	0.00

Expected Annual Crash Adjustment	
Number of Fatal & Incapacitating Injury Crashes	-0.018
Number of Injury Crashes	-0.201
Number of Total Crashes	-0.572

Comments:

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



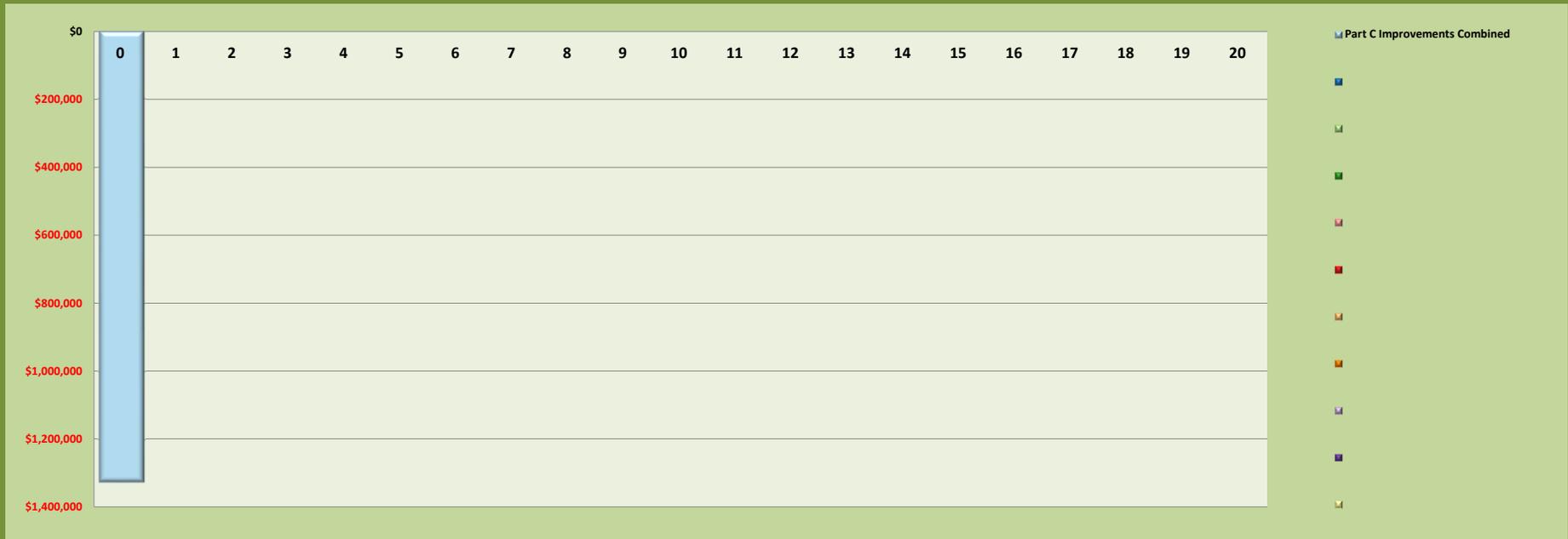


Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #40 - Added Turn Lane Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



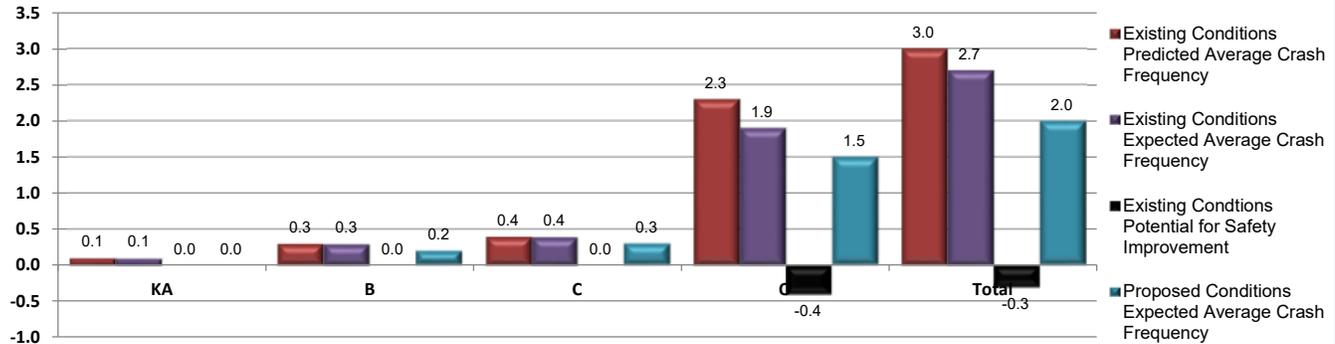


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #40 - Added Turn Lane Alternative W Right Turn Lane (No-Build)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.0621	0.2559	0.3952	2.2791	2.9923
N_{expected} - Existing Conditions	0.0656	0.2702	0.4178	1.9237	2.6773
N_{potential for improvement} - Existing Conditions	0.0035	0.0143	0.0226	-0.3554	-0.3150
N_{expected} - Proposed Conditions	0.0446	0.1838	0.2842	1.4950	2.0076



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #40 - Added Turn Lane Alternative W Right Turn Lane (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$1,631,000.00			\$1,631,000.00	\$1,631,000.00	-0.670	\$329,032
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$1,631,000.00	\$0.00	\$0.00	\$1,631,000.00	\$1,631,000.00	-0.670	\$329,032



Safety Benefit - Cost Analysis

General Information

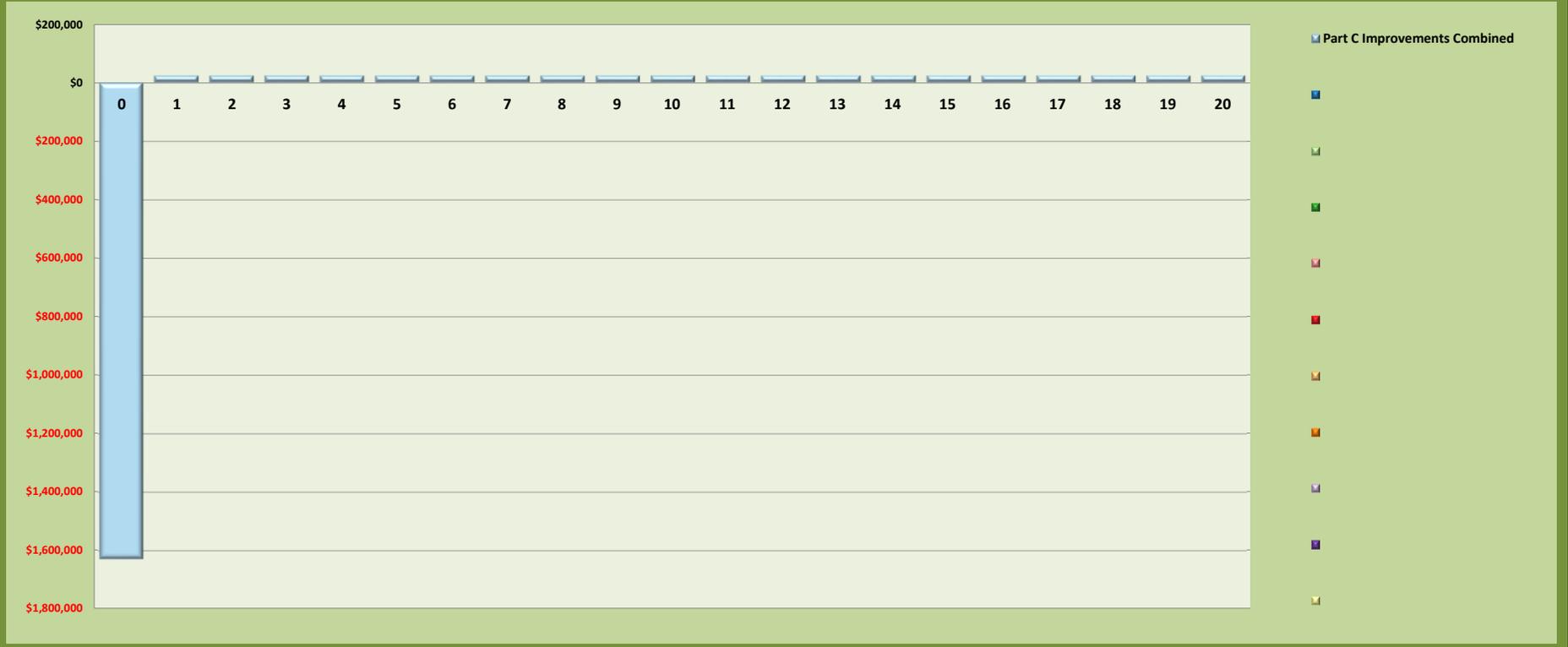
Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #40 - Added Turn Lane Alternative W Right Turn Lane (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator	
Net Present Value of Project	\$1,631,000.00
Net Present Value of Safety Benefits	\$329,031.91
Net Benefit	(\$1,301,968.09)
Benefit / Cost Ratio	0.20

Expected Annual Crash Adjustment	
Number of Fatal & Incapacitating Injury Crashes	-0.021
Number of Injury Crashes	-0.241
Number of Total Crashes	-0.670

Comments:

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



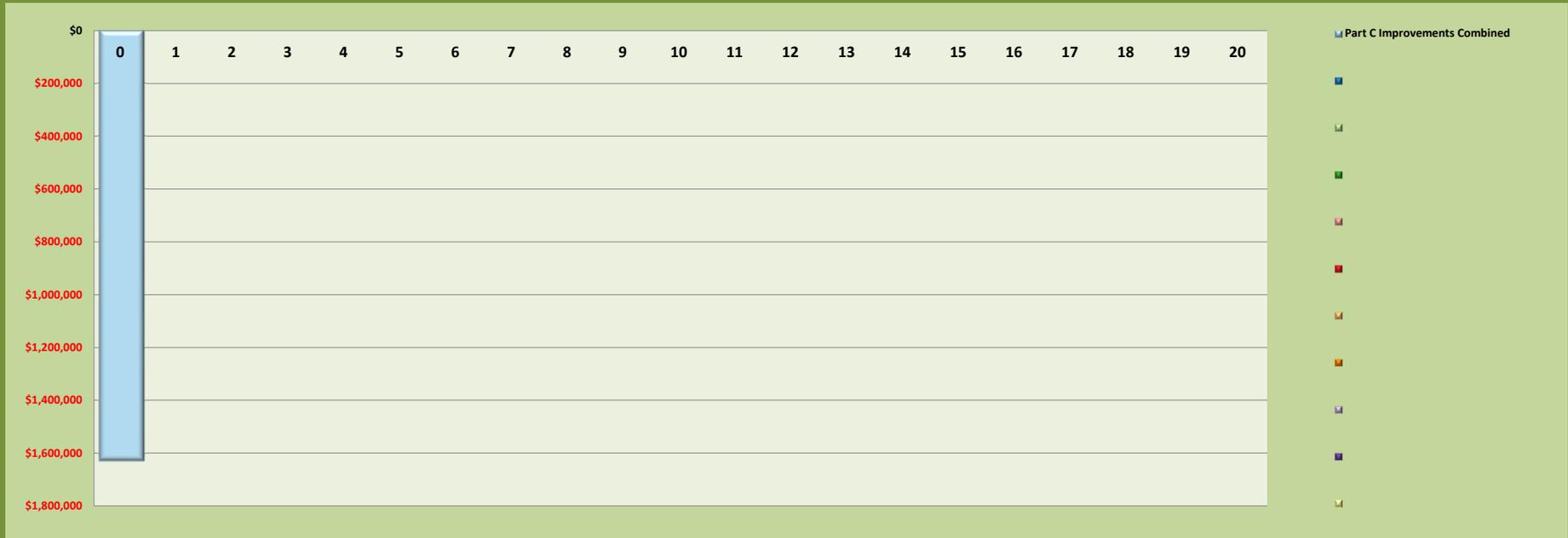


Safety Benefit - Cost Analysis

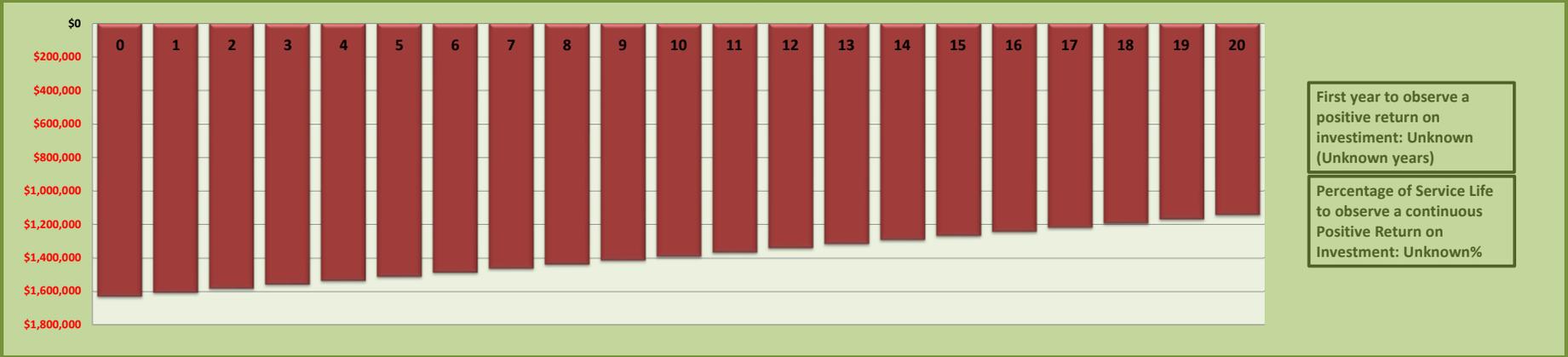
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #40 - Added Turn Lane Alternative W Right Turn Lane (No-Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



First year to observe a positive return on investment: Unknown (Unknown years)

Percentage of Service Life to observe a continuous Positive Return on Investment: Unknown%

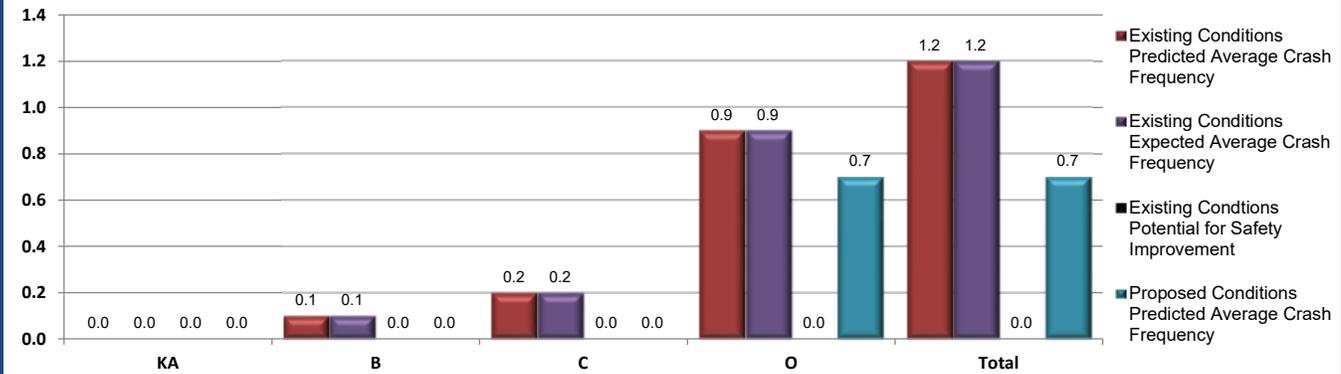


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #230 - Roundabout Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/21/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.0243	0.0996	0.1539	0.8839	1.1617
N_{expected} - Existing Conditions	0.0288	0.1181	0.1822	0.9134	1.2425
N_{potential for improvement} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{expected} - Proposed Conditions	0.0040	0.0343	0.0425	0.6579	0.7387



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #230 - Roundabout Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/21/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$3,000,000.00			\$3,000,000.00	\$3,000,000.00	-0.423	\$289,395
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$3,000,000.00	\$0.00	\$0.00	\$3,000,000.00	\$3,000,000.00	-0.423	\$289,395



Safety Benefit - Cost Analysis

General Information

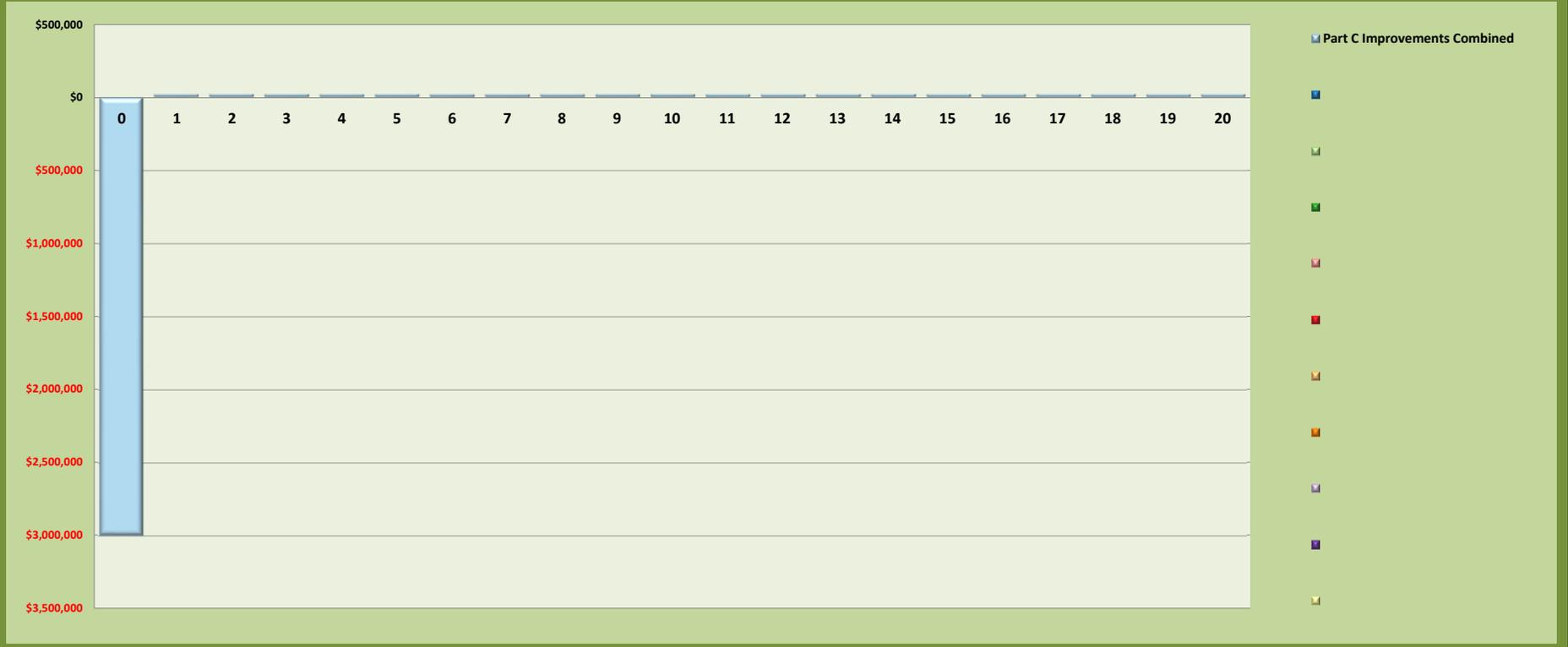
Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #230 - Roundabout Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/21/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator	
Net Present Value of Project	\$3,000,000.00
Net Present Value of Safety Benefits	\$289,395.09
Net Benefit	(\$2,710,604.91)
Benefit / Cost Ratio	0.10

Expected Annual Crash Adjustment	
Number of Fatal & Incapacitating Injury Crashes	-0.020
Number of Injury Crashes	-0.197
Number of Total Crashes	-0.423

Comments:

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



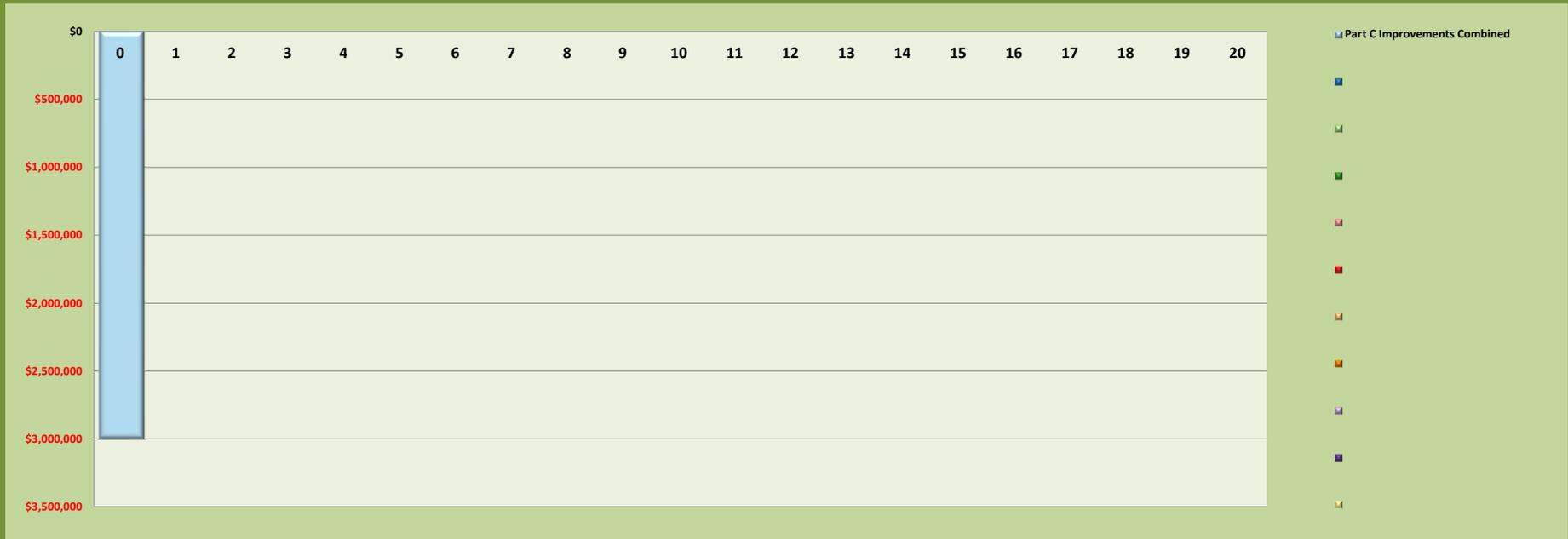


Safety Benefit - Cost Analysis

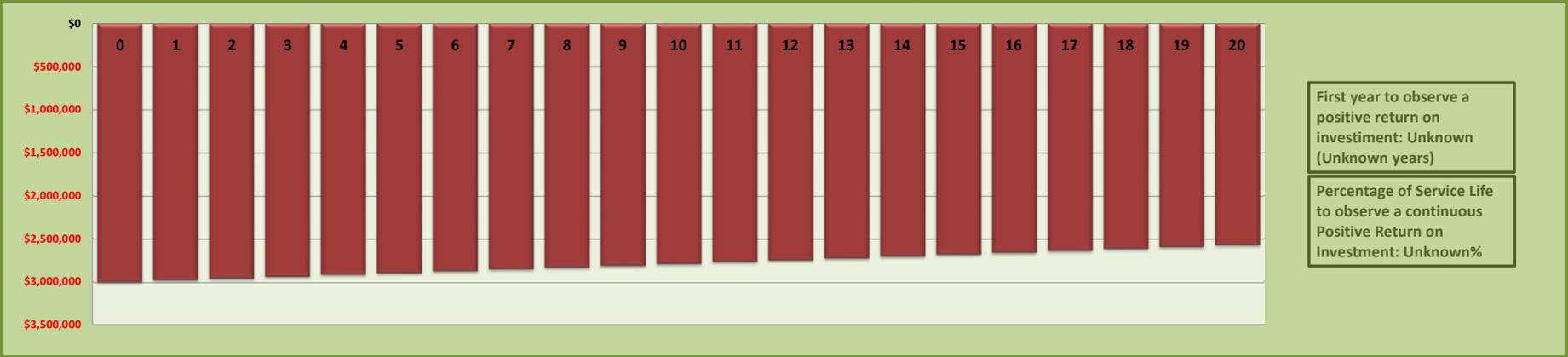
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersection #230 - Roundabout Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/21/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



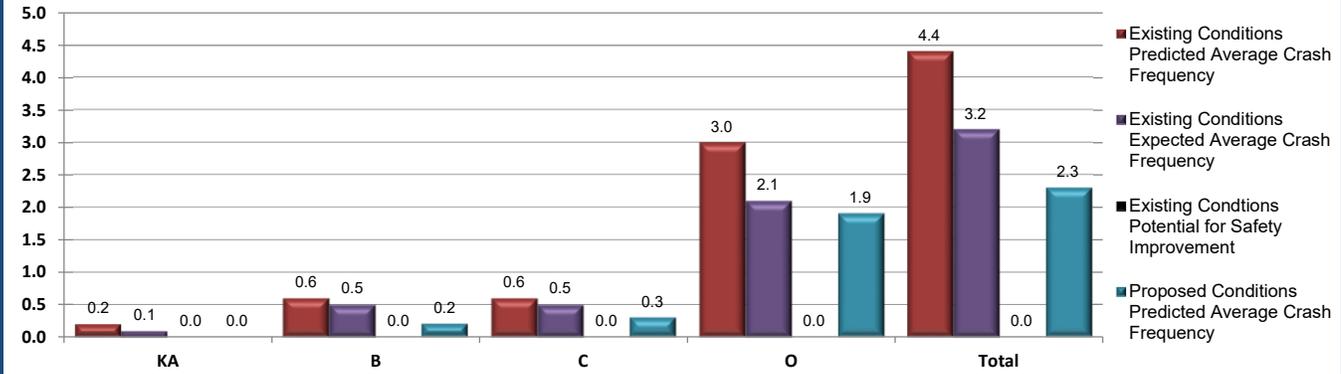


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Roundabout/Turn Lane Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.1962	0.6180	0.5846	3.0278	4.4266
N_{expected} - Existing Conditions	0.1423	0.4591	0.4640	2.1418	3.2072
N_{potential for improvement} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{expected} - Proposed Conditions	0.0378	0.1720	0.2557	1.8661	2.3316



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Roundabout/Turn Lane Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$3,724,000.00			\$3,724,000.00	\$3,724,000.00	-2.095	\$1,791,897
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$3,724,000.00	\$0.00	\$0.00	\$3,724,000.00	\$3,724,000.00	-2.095	\$1,791,897



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Roundabout/Turn Lane Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator	
Net Present Value of Project	\$3,724,000.00
Net Present Value of Safety Benefits	\$1,791,897.40
Net Benefit	(\$1,932,102.60)
Benefit / Cost Ratio	0.48

Expected Annual Crash Adjustment	
Number of Fatal & Incapacitating Injury Crashes	-0.158
Number of Injury Crashes	-0.933
Number of Total Crashes	-2.095

Comments:

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



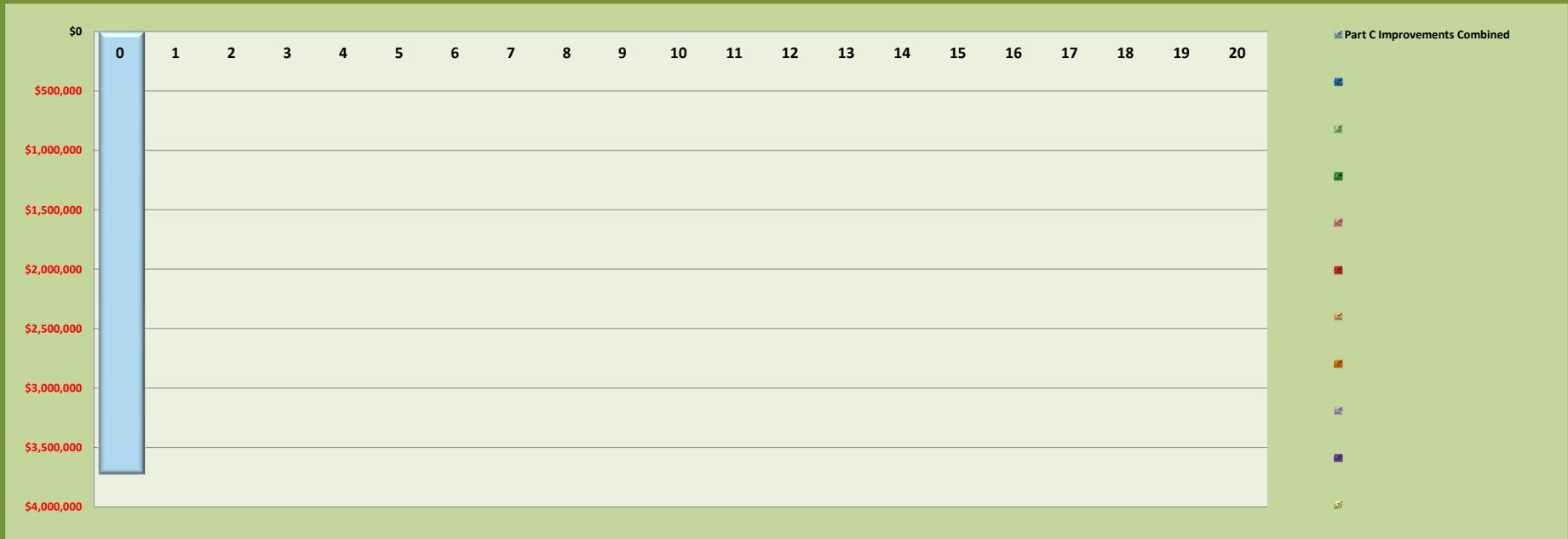


Safety Benefit - Cost Analysis

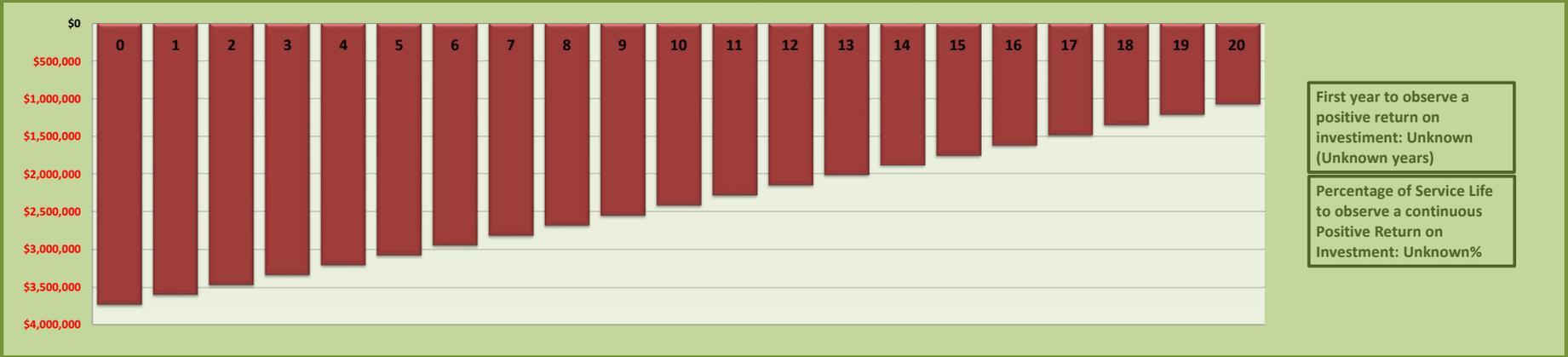
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Roundabout/Turn Lane Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



First year to observe a positive return on investment: Unknown (Unknown years)

Percentage of Service Life to observe a continuous Positive Return on Investment: Unknown%

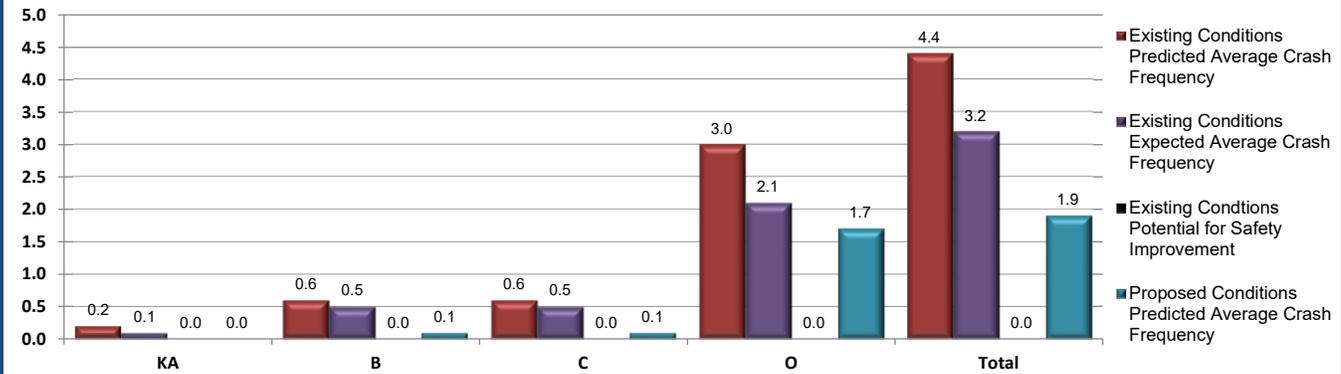


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Double Roundabout Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.1962	0.6180	0.5846	3.0278	4.4266
N_{expected} - Existing Conditions	0.1423	0.4591	0.4640	2.1418	3.2072
N_{potential for improvement} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{expected} - Proposed Conditions	0.0089	0.0740	0.0914	1.6938	1.8681



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Double Roundabout Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$5,088,000.00			\$5,088,000.00	\$5,088,000.00		
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00	-2.559	\$2,209,310
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$5,088,000.00	\$0.00	\$0.00	\$5,088,000.00	\$5,088,000.00	-2.559	\$2,209,310



Safety Benefit - Cost Analysis

General Information

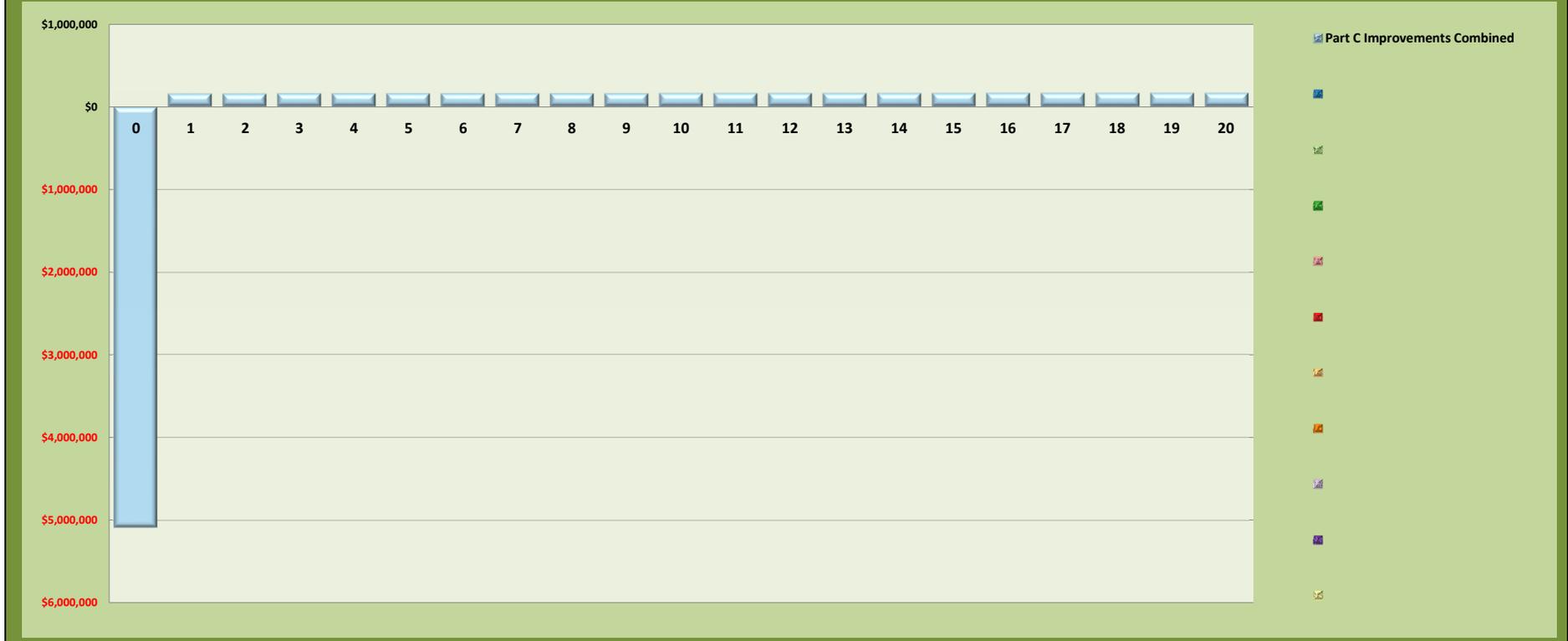
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Project Description	Intersections #240, #250 - Double Roundabout Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator	
Net Present Value of Project	\$5,088,000.00
Net Present Value of Safety Benefits	\$2,209,309.94
Net Benefit	(\$2,878,690.06)
Benefit / Cost Ratio	0.43

Expected Annual Crash Adjustment	
Number of Fatal & Incapacitating Injury Crashes	-0.187
Number of Injury Crashes	-1.225
Number of Total Crashes	-2.559

Comments:

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



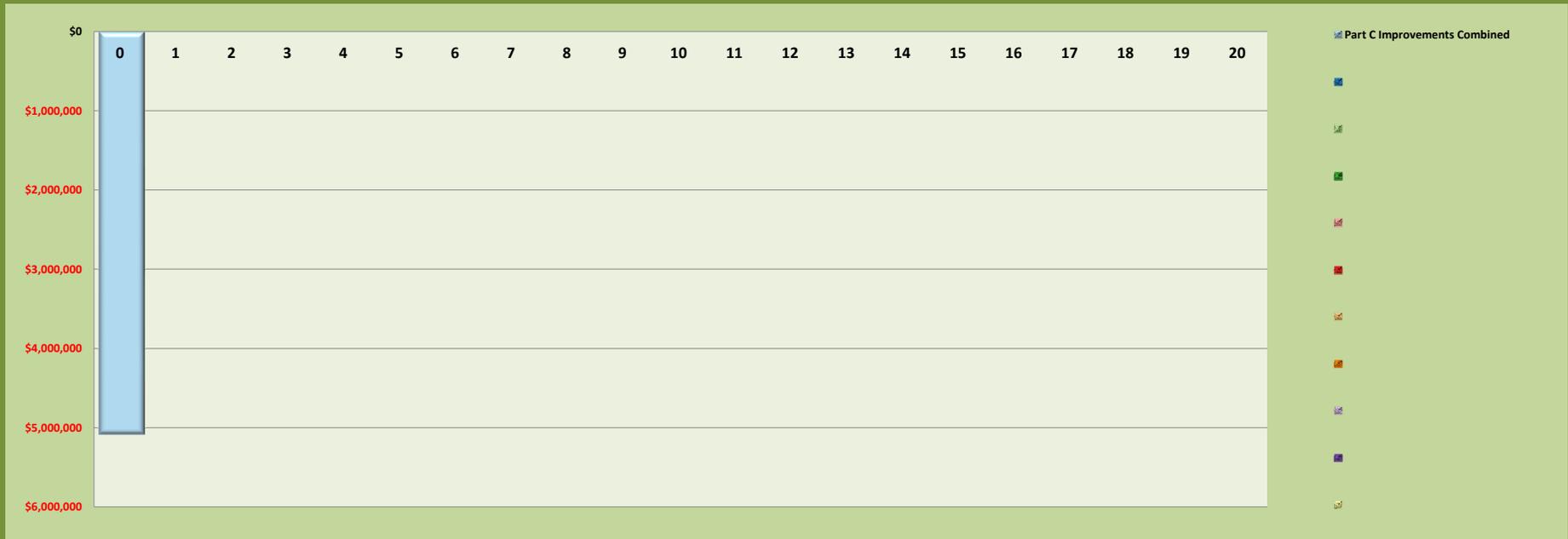


Safety Benefit - Cost Analysis

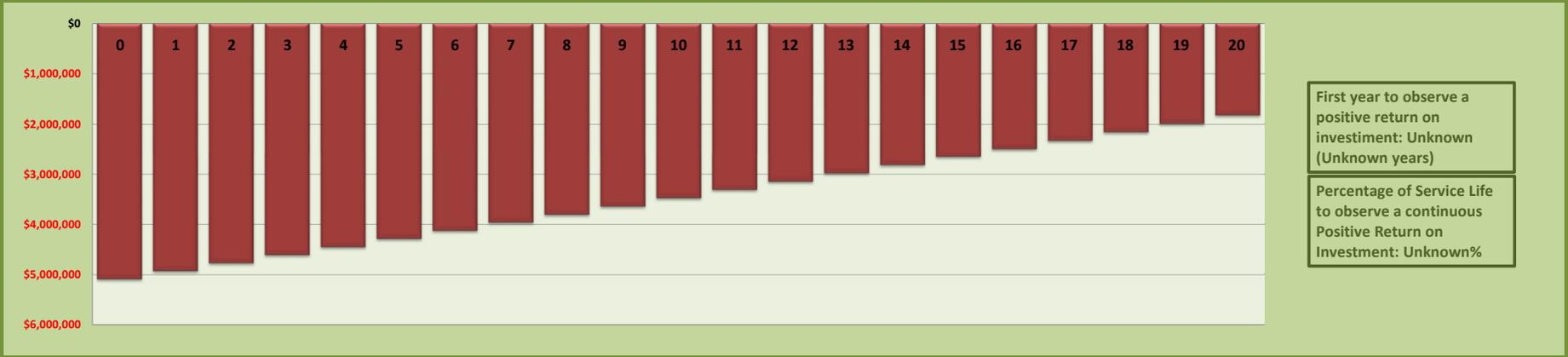
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Double Roundabout Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



First year to observe a positive return on investment: Unknown (Unknown years)

Percentage of Service Life to observe a continuous Positive Return on Investment: Unknown%

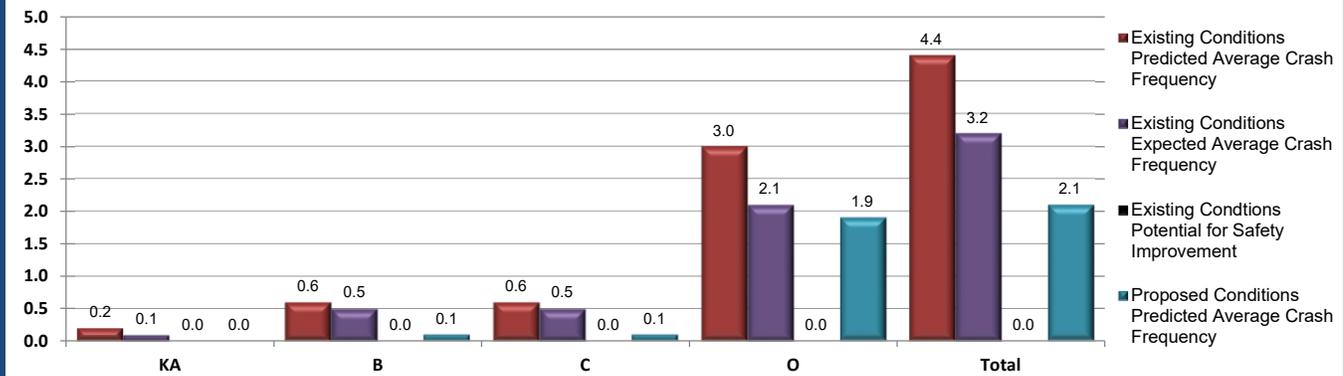


Project Safety Performance Report

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Peanut Roundabout Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Summary of Anticipated Safety Performance of the Project (average crashes/year)



Project Summary Results (Without Animal Crashes)

	KA	B	C	O	Total
N_{predicted} - Existing Conditions	0.1962	0.6180	0.5846	3.0278	4.4266
N_{expected} - Existing Conditions	0.1423	0.4591	0.4640	2.1418	3.2072
N_{potential for improvement} - Existing Conditions	0.0000	0.0000	0.0000	0.0000	0.0000
N_{expected} - Proposed Conditions	0.0080	0.0668	0.0827	1.9479	2.1054



Safety Benefit - Cost Analysis

General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Peanut Roundabout Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

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
Site Characteristic Improvements (Please add description about improvements i.e. Lane widening)	20	\$4,668,000.00			\$4,668,000.00	\$4,668,000.00		
Site Characteristic Improvements (Please add description about improvements i.e. Lighting)					\$0.00	\$0.00		
Site Characteristic Improvements (Please add description about improvements i.e. Signal Phasing)					\$0.00	\$0.00	-2.321	\$2,229,124
Site Characteristic Improvements (Please add description about improvements i.e. Added Right Turn Lane)					\$0.00	\$0.00		
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
					\$0.00	\$0.00	0.000	\$0
Totals		\$4,668,000.00	\$0.00	\$0.00	\$4,668,000.00	\$4,668,000.00	-2.321	\$2,229,124



Safety Benefit - Cost Analysis

General Information

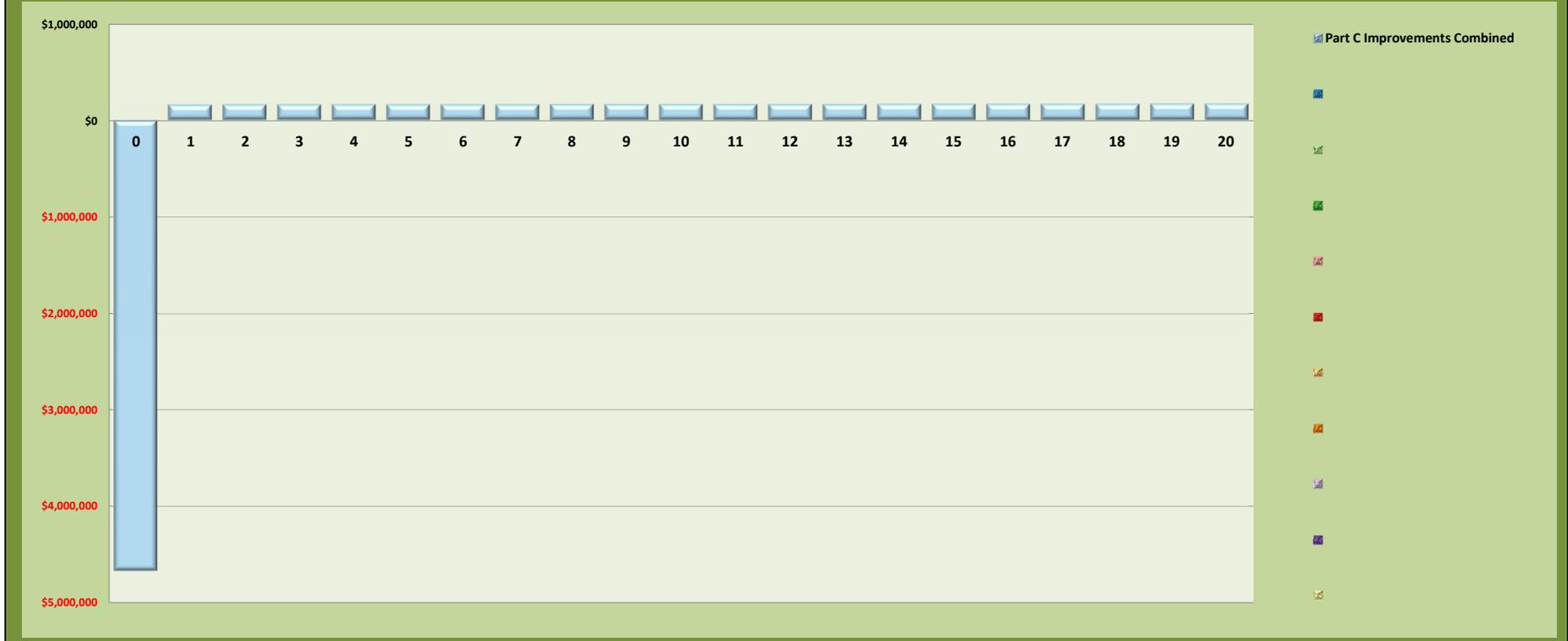
Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Peanut Roundabout Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philiposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Benefit - Cost Calculator	
Net Present Value of Project	\$4,668,000.00
Net Present Value of Safety Benefits	\$2,229,124.23
Net Benefit	(\$2,438,875.77)
Benefit / Cost Ratio	0.48

Expected Annual Crash Adjustment	
Number of Fatal & Incapacitating Injury Crashes	-0.188
Number of Injury Crashes	-1.241
Number of Total Crashes	-2.321

Comments:

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



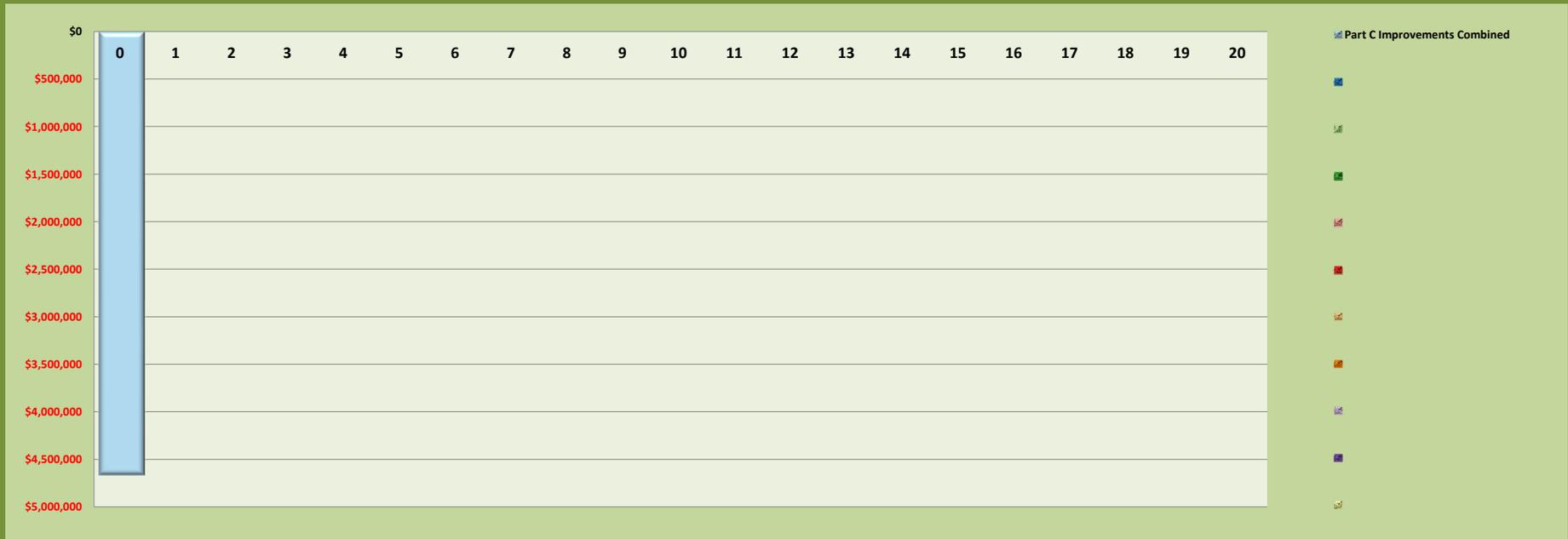


Safety Benefit - Cost Analysis

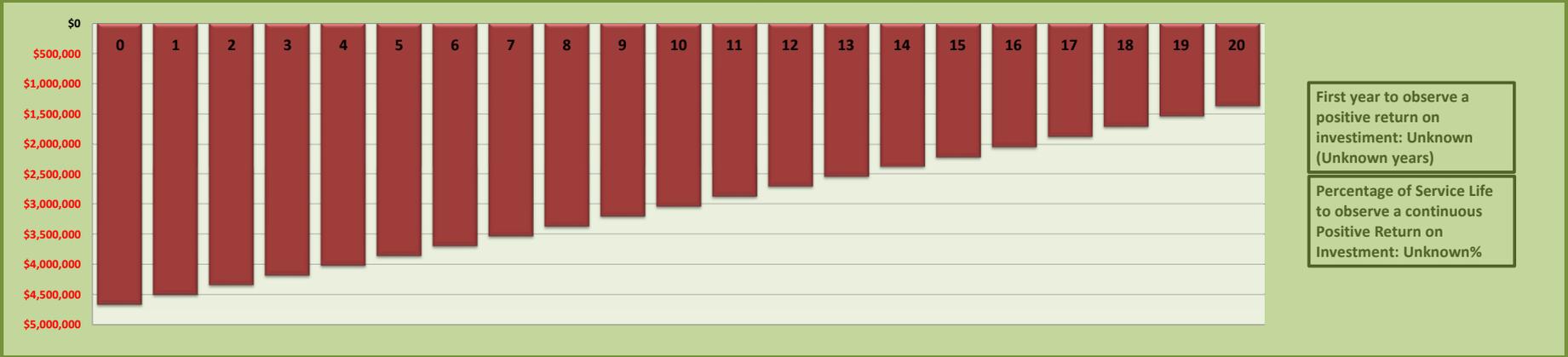
General Information

Project Name	23-039 ODOT MED-71-271 Planning Study	Contact Email	jstipe@adrinnovation.com
Project Description	Intersections #240, #250 - Peanut Roundabout Alternative (Build conditions)	Contact Phone	740-345-1921
Reference Number	PID 117028	Date Performed	10/22/2025
Analyst	Ben Philipposian / Jackson Stipe	Analysis Year	2050
Agency/Company	ADR & Associates		

Project Costs Only Cash Flows By Countermeasure Per Year



Return on Investment (Safety Benefits and Project Investments)



First year to observe a positive return on investment: Unknown (Unknown years)

Percentage of Service Life to observe a continuous Positive Return on Investment: Unknown%