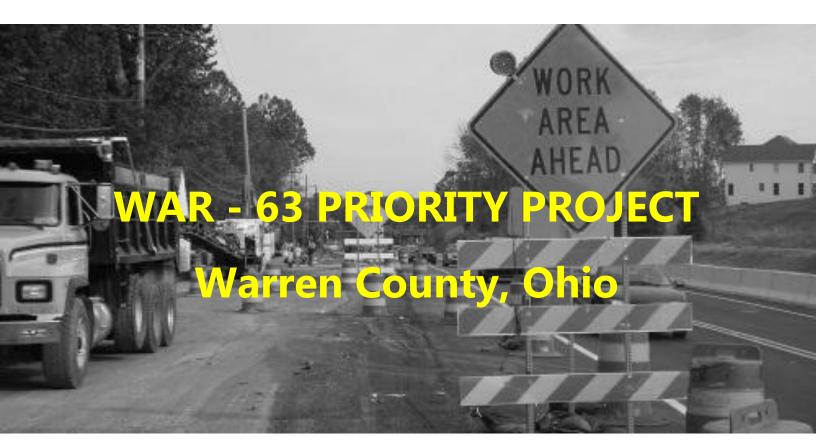
Life-Cycle Cost Analysis





Warren County Transportation Improvement District May 2019 (Final Report June 2019)

WAR-63 PRIORITY PROJECT WARREN COUNTY, OHIO

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Executive Summary

Life-cycle cost analysis (LCCA) work was completed for the WAR-63 Priority Project using FHWA's *RealCost* software tool. The purpose of the LCCA work was to aid Warren County and its partners in identifying Best Value approaches to delivering and managing needed transportation improvements over the life of the investment, and also to provide project life activity costs to Benefit-Cost work separately performed for the Project. The LCCA work gives confirmation to all investors, stakeholders and citizens that life-cycle costs have been considered and, to the extent practicable, incorporated in recommended strategies for the Priority Project.

LCCA is an engineering economic analysis tool that considers all of the costs – those borne by public agencies as well as those borne by roadway users - incurred during the service life of an asset. LCCA is promoted and encouraged by the U.S. DOT FHWA as a best practice in indentifying and delivering cost- effective transportation alternatives and project components.

Four improvement scenarios were evaluated for a 31-year analysis period (construction plus a 30 year service life) for the WAR-63 priority project: 1) 4-Lane Undivided, 2) 4-Lane Divided, 3) 4-Lane Undivided expansion to 6 lanes in Service Life Year 10, and 4) 4-Lane Divided expansion to 6 lanes in Service Life Year 10. Also evaluated was the existing facility No-Build condition, to establish baseline activity costs.

LCCA findings are summarized as follows:

After initial construction, the Priority Improvement Project will save users (Warren County motorists) about \$376,000 per year in delays and operating costs related to regular facility management and maintenance, assuming a 4-Lane Undivided facility is constructed; the savings increase to about \$454,000 with the construction of a 4-Lane Divided facility.

There are LCCA differences between a 4-Lane Undivided and a 4-Lane Divided design. In general, the 4-Lane Divided section provides a 21% better LCCA outcome and substantially lower costs to users, but with higher costs to agencies. The difference in costs to users is primarily related to construction period impacts, with the 4-Lane Undivided section having a tighter construction footprint with more friction and conflicts under maintenance of traffic.

The efficacy of future expansion (addition of 2 through lanes) under each of the two build scenarios was tested. Expansion under the 4-Lane Divided Expansion scenario provided a 23% better LCCA outcome than the 4-Lane Undivided Expansion scenario.

The TID in cooperation with Ohio DOT should consider soliciting Alternative Technical Concept Bids during the Design-Build procurement process to identify best value for agencies and users. These could include bids for both divided and undivided sections, as well as bids based on performance criterial during construction that specifies lanes available, work-zone capacity, permissible queue lengths, speeds and durations.

1.0 Introduction and Overview

A \$25 million roadway improvement project is planned and proposed for a 3-mile priority section of Ohio Route 63 in Warren County, Ohio. The Warren County Transportation Improvement District (WCTID) is the lead local agency and primary local funder of construction costs. In partnership with the Ohio Department of Transportation, the project will be delivered in a design-build package, with certain performance elements attached to the project delivery.

As the primary local funder of the project, the WCTID is interested in project life cycle costs for best ways to address corridor capacity, safety and operational needs. Understanding life cycle costs is expected to help identify some of the performance-based Alternative Technical Concepts that may be appropriate to incorporate in the Design-Build project delivery package to be developed by ODOT and the WCTID in early 2020.

Life Cycle Cost Analysis (LCCA) is an engineering and economic analysis method for assessing the total cost of constructing, maintaining, and operating a facility over an extended period of time (typically 30 years). LCCA considers the costs incurred by both the implementing agency and the users of the facility.

Life cycle costs directly couple to, and help illuminate, Asset Management requirements for a given transportation investment.

RealCost version 2.5, a software product and LCCA tool developed by the U.S. DOT Federal Highway Administration Office of Asset Management, was used to evaluate user costs associated with five strategic alternatives for the WAR-63 Priority Project. RealCost can be used to evaluate comparative life-cycle costs of detail design options for a given project (different structure or pavement designs, for example). For the WAR-63 project, we have adapted the capabilities of the RealCost tool to identify life-cycle costs at the larger scale of entire strategic alternatives incorporating different detail design conditions.

A separate Benefit-Cost Analysis (BCA) is being conducted for the WAR-63 Priority Project¹. The latest version of the *California Life-Cycle Benefit/Cost Analysis Model* 6.2², an approved Benefit-Cost model used in DOT grants programs assessments, is being used to compare alternative strategies with differing performance profiles for the WAR-63 Priority Project.

Because *Real*Cost calculates user costs (for example, costs extending from time penalties during construction or ongoing or periodic asset management activities) at a greater level of detail and confidence than *Cal-B/C*, the user cost outputs from the *Real*Cost tool allow

California Department of Transportation, with INFRA updates, 2019

¹ A project construction funding request is being submitted to USDOT under its *BUILD* infrastructure grants program; BUILD requires submittal of a Benefit-Cost Analysis compliant with USDOT guidance.

identification and evaluation of the design parameters that most influence the important user cost metric.

The construction and ongoing activity agency costs determined in the *Real*Cost life-cycle cost work are used as consistent inputs to the separate Benefit-Cost work.

Unlike *Cal-B/C* or other benefit-cost analysis tools, *Real*Cost does not calculate vehicle operating, accident or emission costs. These costs are accounted for under the BCA work.

2.0 Methods and Approach

The methods used in Life Cycle Cost Analysis for the WAR-63 Priority Project follow guidance established by FHWA for application of the *Real*Cost tool. A deterministic cost analysis approach was used in the analysis.

Including identification of analysis period, there are six steps involved in FHWA's LCCA methodology³:

- Step 1 Select analysis period
 Step 2 Establish alternative design strategies
 Step 3 Determine activity timing
 Step 4 Estimate agency costs
 Step 5 Compute life-cycle (including user) costs
- Step 6 Evaluate the results

<u>Step 1 – Select analysis period</u>

An analysis period of 30 years or more is typical for life cycle cost evaluation in transportation⁴. A 31-year analysis period was selected for the WAR-63 Priority Project (construction plus a 30 year service life), which fully incorporates the first cycle of major roadway rehabilitation work, and, to appropriately simplify salvage value calculations per FHWA guidance corresponds to the structural life of six major culverts spanning the project corridor.

Step 2 – Establish alternative design strategies

*Real*Cost's capabilities were adapted to estimate the total (user and agency) discounted life cycle costs (absent vehicle operating, accident or emission costs) associated with five alternative design strategies identified for the WAR-63 Priority Project. Each alternative strategy has a different performance profile which is accounted for and evaluated separately under the project Benefit-Cost work using the *Cal-B/C* analysis tool.

The five Strategies evaluated were:

- 1. No Build;
- 2. Four Lane Undivided;
- 3. Four Lane Divided;
- 4. Four Lane Undivided Expansion to 6 Lanes in Service Year 10;
- 5. Four Lane Divided Expansion to 6 Lanes in Service Year 10.

Evaluating the No-Build scenario, Scenario 1, helps identify the costs borne by roadway users in continuing to operate and maintain an inadequate existing facility, compared to new investment scenarios. Scenario 2 describes the "minimum build" design alternative: a four-lane undivided section with center turns lanes at access locations. Scenario 3 is a four-lane divided section (grass median, with center turn lanes at access locations).

³ Life-Cycle Cost Analysis RealCost User Manual (FHWA, 2004)

⁴ Life-Cycle Cost Analysis RealCost User Manual version 2.5, page 1 (FHWA, 2010)

Scenarios 4 and 5 account for life-cycle costs of adding 2 additional through-capacity lanes (one in each direction) to Scenarios 2 and 3, respectively, in Analysis Year 10, as "just-in-time" accommodation of future corridor development and traffic growth.

Step 3 – Determine activity timing

A schedule of initial and future activities for implementation and ongoing management of each of the strategies was developed, including estimated timing, duration and frequency of for each activity.

Step 4 – Estimate agency costs

Agency costs for the initial construction and future costs of rehabilitation, maintenance and operation of each strategic alternative were estimated using developed component construction cost estimates and best professional judgments from team design and operations engineers.

Schedules of activity timing and agency costs are outlined in these tables found in **Appendix A**:

- Table 1. Activity Costs and Timing by Strategy
- Table 2. Maintenance Cost Build Minor and Regular Maintenance Costs
- Table 3. Maintenance Cost Requiring no Maintenance of Traffic Input Values

Step 5 – Compute life-cycle costs

There are two additional input components to computation of life-cycle costs:

First, Project Level Data was accumulated for each strategy.

These inputs and justification can be found in Table 4 in **Appendix B**:

Table 4. Strategy Level Inputs

Second, Activity Level Data was developed and complied for each strategy. These inputs and descriptions can be found in Tables 5 through 9 in **Appendix C**:

- Table 5. *Activity Level Inputs No Build Strategy*
- Table 6. Activity Level Inputs 4-Lane Undivided Strategy
- Table 7. Activity Level Inputs 4-Lane Divided Strategy
- Table 8. Activity Level Inputs 4-Lane Undivided Expansion Strategy
- Table 9. Activity Level Inputs 4-Lane Divided Expansion Strategy

From these inputs, *Real*Cost v. 2.5 was used to calculate the discounted agency and user life cycle costs for each strategy.

The *Real*Cost excel spreadsheet files used in calculating Life Cycle Costs are available in **ATTACHMENT 5B** at this link:

ftp://ftp.co.warren.oh.us/WAR-63%20Priority%20Project%20BUILD%20application%20ATTACHMENTS/

Step 6 – Evaluate results

The deterministic results of the life-cycle cost analysis were evaluated and compared among alternative strategies. Section 4 of this report provides a summary of the results, which are also provided in Tables 10 through 12 in Appendix D:

Table 10. Summary of Life Cycle Costs Including Initial Construction Period Costs

Table 11. Summary of Life Cycle Costs – Expansion and Rehabilitation Costs

Table 12. Summary of Life Cycle Costs – Rehabilitation Costs Only

3.0 **Summary of Inputs to Analysis**

The LCCA work for the WAR-63 Priority Project accounted for the following input categories in assessing life-cycle costs:

Activity Level Inputs

Agency Construction Cost

Work Zone User Costs

Work Zone Duration (days)

Number of Lanes Open in Each direction During Work Zone

Activity Service Life (years)

Activity Structural Life (years)

Maintenance Frequency (years)

Agency Maintenance Cost

Work Zone Length (miles)

Work Zone Speed Limit (mph)

Work Zone Capacity (vphpl)

Traffic Hourly Distribution

Time of Day Lane Closures (24-hour clock)

Primary Maintenance Cost Categories

Pavement

Culverts

Open Drainage

Shoulders

Guardrail

Median

Cable Barrier

Signs and Signals

Outages

Activity Costs and Timing by Strategy

Initial Construction

Expansion: 4-Lane to 6-Lane (if applicable)

Pavement:

Replace Surface Wearing Course

Full Depth Pavement Rehabilitation

Culverts: Replace Cross-culverts @ 6 locations

Open Drainage: Major Open Drainage Rehabilitation

Shoulders: Major Shoulder Rehabilitation

Guardrail: Guardrail Replacement

Median (If applicable): Major Graded Median Rehabilitation Cable Barrier (if applicable): Median Cable Barrier Replacement

Signs and Signals: Replace Overhead Signs and Signals

Outages: Spot Incident Repairs

Under Work Zone User Costs, FHWA default values for user 'value of time' costs were used for all strategies/alternatives, as follows:

Value of Time for Passenger Cars (\$/hour)	\$14.80
Value of Time for Single Unit Trucks (\$/hour)	\$28.60
Value of Time for Combination Trucks (\$/hour)	\$28.60

4.0 Results and Key Findings by Scenario

Results of Life-Cycle Cost Analysis for the WAR-63 Priority Project are summarized by scenario in the tables in Appendix D.

- Table 10. Summary of Life Cycle Costs Including Initial Construction Period Costs
- Table 11. Summary of Life Cycle Costs Expansion and Rehabilitation Costs
- Table 12. Summary of Life Cycle Costs Rehabilitation Costs Only

The results are expressed both as Present Value and Equivalent Uniform Annual Cost, assuming a 7% discount rate. All salvage values appropriate for the 30-year analysis period have been accounted for in the reporting of PV and EUAC values. Agency costs and user costs are reported separately.

General Findings

User costs are particularly sensitive to work-zone limitation on speed and capacity, as well as duration. Work-zone conditions that limit these variables result in significantly higher user costs.

No Build Scenario

The no-build scenario results in the highest present value agency rehabilitation costs (87% greater than the next highest scenario – 4-Lane Divided) and the highest present value user cost (twice the next highest scenario – 4-Lane Undivided). This is a result partly of timing of subsequent costs following initial construction being delayed, but even when considering undiscounted agency costs, rehabilitation costs for the no-build scenario exceed those of the 4-Lane Divided scenario by \$2,158,830 or 39%.

Four Lane Undivided and Four Lane Divided Scenarios

Present value of agency costs of the 4-Lane Divided scenario exceed those of the 4-Lane Undivided scenario by \$4,216,350 or 16%, but these are dwarfed by the higher user costs associated with the 4-Lane Undivided scenario amounting to a present value difference of \$13,446,960, or almost three times those associated with the 4-Lane Divided scenario.

If one considers the differential cost between doing something and doing nothing (build vs. no-build), the incremental cost of the 4-Lane Undivided scenario amounts to a discounted present value of \$21,911,170 in agency life-cycle costs and an increase of \$8,611,690 in user costs (less than the total \$13, 319,210 in construction period user costs).

The incremental cost of the 4-Lane Divided scenario amounts to a discounted present value of \$26,127,520 in agency life-cycle costs and a decrease in user costs of \$4,835,240 over the 31-year life of the project (including the initial construction period).

Four Lane Undivided and Four Lane Divided Expansion Scenarios

The capacity expansion scenarios were included to illustrate and examine the penalty of expanding two additional through lanes, one in each direction, to handle expected future traffic demand. This would involve adding two lanes to the south for the 4-Lane Undivided section (and in the process reworking the roadway cross section), and two lanes inboard in the median zone for the 4-Lane Divided section.

Over the life time of the project, the NPV of agency costs for the 4-Lane Divided section exceed those of the 4-Lane Undivided section by \$2,110,770. Again, it is user costs that dwarf the agency cost savings, with the NPV of user costs for the 4-Lane Undivided Expansion scenario exceeding the 4-Lane Divided Expansion scenario by \$12,637,060 over the life of the project, over a 10-fold increase. This is primarily a result of initial construction and expansion period lane restrictions necessary for maintenance of traffic.

5.0 Recommendations for Project Implementation

Estimates of activity costs and identification of timing of subsequent rehabilitation activities are carried forward to the Benefit-Cost Analysis and the Asset Management Plan.

The TID in cooperation with Ohio DOT should consider soliciting Alternative Technical Concept Bids during the Design-Build procurement process to identify best value for agencies and users. These could include bids for both divided and undivided sections, as well as bids based on performance criterial during construction that specifies lanes available, work-zone capacity, permissible queue lengths, speeds and durations.

LIFE-CYCLE COST ANALYSIS - WAR-63 PRIORITY PROJECT WARREN COUNTY TRANSPORTATION IMPROVEMENT DISTRICT
JUNE 2019
Appendix A – ACTIVITY TIMING AND ESTIMATE OF AGENCY COSTS

Table 1. Activity Costs and Timing by Strategy

WARREN COUNTY TRANSPORTATION IMPROVEMENT DISTRICT WAR 63 PRIORITY SEGMENT LIFE CYCLE COST ANALYSIS ACTIVITY COSTS AND TIMING BY STRATEGY

		No Buile	d Cost		4-Lane U	Individed		4-Lane	Divided			4-Lane Und	ivided Ex	kpansion				4-Lane D	ivided Ex	pansion	
												First Occurance		•	First Occurance/			First Occuran			First Occurance/
Activity		Cost	First Occurance/ Frequency		Cost	First Occurance/ Fequency		Cost	First Occurance/ Fequency			Frequency	Cost			Cost Life		Frequency	Cost		Frequency (Service Life 11- 30)
Initial Construction:				I			ı			l						1					
Construction only (no ROW or																					
development costs)	\$	-		\$	24,000,000	1/31	\$	28,000,000	1/31	\$	24,000,000	1/31	\$	-		\$	28,000,000	1/31	\$	-	
Expansion:																					
4-Lane to 6-Lane	\$	-								\$	-		\$	15,000,000	12/31	\$	-		\$	10,000,000	12/31
Pavement:																					
Replace Surface Wearing Course	\$	450,000	1/11	\$	750,000	16/15	\$	750,000	16/15	\$	-		\$	1,125,000	17/15	\$	-		\$	1,125,000	17/15
Full Deapth Pavement		•	,		,	,		,	•						,					, ,	,
Rehabilitation	\$	3,515,000	11/15													ı					
																l					
Culverts:																					
Replace Cross-culverts @ 6				١.			1.			١.						l					
locations	\$	576,000	11/30	\$	-	31/30	\$	-	31/30	\$	-		\$	-		\$	-		\$	-	
																ı					
Open Drainage:																					
Major Open Drainage			- /	1.			١,			١,											
Rehabilitation	\$	180,000	5/15	\$	180,000	16/15	\$	215,000	16/15	\$	-		\$	180,000	27/15	\$	-		\$	180,000	27/15
Shoulders:																l					
Major Shoulder Rehabilitation	\$	123,000	11/10	Ś	123,000	11/10	Ś	123,000	11/10	\$			Ś	123,000	27/15	Ś			Ś	123,000	27/10
Major Shoulder Rehabilitation	۲	123,000	11/10	٦	123,000	11/10	٦	123,000	11/10	٦	_		Ą	123,000	27/13	۰			Ļ	123,000	27/10
Guardrail:																ı					
Guardrail Replacement	\$	77,000	11/18	Ś	159,000	18/18	Ś	159,000	18/18				\$	159,000	30/18	\$	-		\$	159,000	30/18
	T	,	,	7		,	1		,				•		,	Ť			*		,
Median:																ı					
Major Graded Median																					
Rehabilitation							\$	153,000	11/10							\$	-		\$	110,000	22/10
																ı					
Cable Barrier																					
							1.														
Median Cable Barrier Replacement							\$	366,000	21/20							\$	-		\$	-	
																ı					
Signs and Signals																					
Replace Overhead Signs and	۸.	472.000	44/45	۱,	0.45,000	16/15	۱,	150,000	16/15				<u> </u>	1 417 500	27/45	,			<u> </u>	1 417 500	27/15
Signals	\$	473,000	11/15	\$	945,000	16/15	\$	158,000	16/15				\$	1,417,500	27/15	\$	-		\$	1,417,500	27/15
Outages							1									ĺ					
Spot Incident Caused Repairs	\$	55,000	1/2	\$	55,000	1/4	Ś	55,000	1/5	\$	55,000	1/4	\$	55,000	12/5	Ś	55,000	1/5	\$	55,000	12/5
Spot incluent caused hepairs	ې	33,000	1/2	ب ا	33,000	1/4	۲	33,000	1/3	د ا	33,000	1/4	۲	33,000	12/3	۲	33,000	1/3	۲	33,000	12/3

Table 2. Maintenance Cost Build - Minor and Regular Maintenance Costs

Warren County Transportation Improvement District Life Cycle Cost Analysis WAR-SR-63 Minor and Regular Maintenance (No MOT Required)

			No E	Build					4-Lane	Divided					4-Lane U	ndivided		
		st per urance	Frequency of Occurance (Number per Time Period)	Time Period	Anr	nual Cost		ost per curance	Frequency of Occurance (Number per Time Period)	Time Period	Anr	nual Cost		Cost per occurance	Frequency of Occurance (Number per Time Period)	Time Period	Anı	nual Cost
Pavement Snow Removal/Pretreatment Crack Sealing/Pot Hole Repair	\$	3,000 5,400	8.00 3.00	Annual Annual	\$	24,000 16,200	\$	5,000 3,600	8.00 3.00	Annual Annual	\$	40,000 10,800	\$	5,000 3,600	8.00 3.00	Annual Annual	\$	40,000 10,800
Subtotal					\$	40,200					\$	50,800					\$	50,800
Culverts Culvert Inspection (6) Culvert Cleanout (6) Subtotal	\$ \$	2,100 5,000	1.00 0.50	Annual Annual	\$ \$	2,100 2,500 4,600	\$	2,100 7,000	1.00 0.50	Annual Annual	\$ \$	2,100 3,500 5,600	\$	2,100 10,000	1.00 0.50	Annual Annual	\$ \$	2,100 5,000 7,100
Open Drainage																		
Stormwater BMP Maintenance Ditch Cleaning Curb Inlet Cleanout	\$ \$ \$	8,500 1,000	0.00 0.25 0.25	Annual Annual Annual	\$ \$ \$	- 2,125 250	\$ \$ \$	8,500 1,000	0.00 0.25 0.25	Annual Annual Annual	\$ \$ \$	2,125 250	\$ - \$ \$	8,500 1,000	0.00 0.25 0.25	Annual Annual Annual	\$ - \$ \$	2,125 250
Subtotal					\$	2,375					\$	2,375					\$	2,375
Shoulders Mowing Litter and Debris Cleanup Sweeping and Vacuuming ROW Fence Repair/Replacement	\$ \$ \$	1,200 1,200 2,200 8,500	3.00 2.00 2.00 0.10	Annual Annual Annual Annual	\$ \$ \$	3,600 2,400 4,400 850	\$ \$ \$	2,400 1,200 2,200 8,500	3.00 2.00 2.00 0.10	Annual Annual Annual Annual	\$ \$ \$	7,200 2,400 4,400 850	\$ \$ \$	2,400 1,200 2,200 8,500	3.00 2.00 2.00 0.10	Annual Annual Annual Annual	\$ \$ \$	7,200 2,400 4,400 850
Subtotal					\$	11,250					\$	14,850					\$	14,850
Guardrail Median Mowing Barrier													\$	1,200	3.00	Annual	\$	3,600
Signs and Signals Signal Inspection/Timing Bulb/Lamp/Sensor	\$	2,100	1.00	Annual	\$	2,100	\$	2,100	1.00	Annual	\$	2,100	\$	2,100	1.00	Annual	\$	2,100
Replacement Signal Repair/Maintenance	\$ \$	600 3,000	1.00 0.25	Annual Annual	\$	600 750	\$	600 3,000	1.00 0.25	Annual Annual	\$ \$	600 750	\$	600 3,000	1.00 0.25	Annual Annual	\$	600 750
Sign Replacement (Traffic Control and Ground Mounted)	\$	24,000	0.10	Annual	\$	2,400	\$	24,000	0.10	Annual	\$	2,400	\$	36,000	0.10	Annual	\$	3,600
Subtotoal	~	,500	0.10	, I GUI	\$	5,850	ľ	2-,000	0.10	,	\$	5,850	ľ	30,000	0.10	, (da)	\$	7,050
Outages						, -	'					, -	•					-
Total					\$	64,275					\$	79,475					\$	85,775

Table 3. Maintenance Cost Requiring No Maintenance of Traffic - Input Values

WARREN COUNTY TRANSPORTATION IMPROVEMENT DISTRICT WAR 63 PRIORITY SEGMENT LIFE CYCLE COST ANALYSIS MAINTENANCE COSTS - NO MOT

							4-	Lane Undivided	4-	ane Undivided	4	l-Lane Divided	4	l-Lane Divided
								Expansion	Expansion			Expansion		Expansion
Activity	No Build			4-Lane Undivided		4-Lane Divided		(Years 1-10)		(Years 11-30)		(Years 1-10)		(Years 11-30)
														_
Pavement	\$	40,000	\$	51,000	\$	51,000	\$	51,000	\$	76,500	\$	51,000	\$	76,500
Culverts	\$	5,000	\$	6,000	\$	7,000	\$	6,000	\$	9,000	\$	7,000	\$	9,000
Open Drainage	\$	2,000	\$	2,000	\$	2,000	\$	2,000	\$	2,000	\$	2,000	\$	2,000
Shoulders	\$	11,000	\$	15,000	\$	15,000	\$	15,000	\$	15,000	\$	15,000	\$	15,000
Guardrail														
Median					\$	4,000					\$	4,000	\$	4,000
Cable Barrier														
Signs and Signals	\$	6,000	\$	6,000	\$	7,000	\$	6,000	\$	9,000	\$	7,000	\$	9,000
Outages														
	\$	64,000	\$	80,000	\$	86,000	\$	80,000	\$	111,500	\$	86,000	\$	115,500

LIFE-CYCLE COST ANALYSIS - WAR-63 PRIORITY PROJECT WARREN COUNTY TRANSPORTATION IMPROVEMENT DISTRICT JUNE 2019
Appendix B – PROJECT LEVEL INPUT DATA BY SCENARIO

Table 4. Strategy Level Inputs

WARREN COUNTY TRANSPORTATION IMPROVEMENT DISTRICT
WAR 63 PRIORITY SEGMENT
LIFE CYCLE COST ANALYSIS
STRATEGY LEVEL INPUTS

	No Build	4-Lane Undivided	4-Lane Divided	4-Lane Undivided Expansion Years 1-10	4-Lane Undivided Expansion Years 10-30	4-Lane Divided Expansion Years 1-10	4-Lane Divided Expansion Years 10-30	Remarks
1. Economic Variables								
Value of Time for Passenger Cars (\$/hour)	\$ 14.80	\$ 14.80	\$ 14.80	\$ 14.80	\$ 14.80	\$ 14.80	\$ 14.80	U.S. DOT Benefit-Cost Guidance Appendix A
Value of Time for Single Unit Trucks (\$/hour)	\$ 28.60	\$ 28.60	\$ 28.60	\$ 28.60	\$ 28.60	\$ 28.60		U.S. DOT Benefit-Cost Guidance Appendix A
Value of Time for Combination Trucks (\$/hour)	\$ 28.60	\$ 28.60	\$ 28.60	\$ 28.60	\$ 28.60	\$ 28.60	\$ 28.60	U.S. DOT Benefit-Cost Guidance Appendix A
2. Analysis Options								
Include User Costs in Analysis	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Recommended <i>Real</i> Cost Defualts
Include User Cost Remaning Life Value	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Recommended <i>Real</i> Cost Defualts
Use Differential User Costs	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Recommended <i>Real</i> Cost Defualts
User Cost Computation Method	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Recommended <i>Real</i> Cost Defualts
Include Agency Cost Remaining Life Value	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Recommended <i>Real</i> Cost Defualts
Traffic Direction	Both	Both	Both	Both	Both	Both	Both	Recommended Real Cost Defualts
Analysis Period (Years)	31	31	31			31		Recommended Real Cost Defualts
Beginning of Analysis Period	2021	2021	2021	2021	2021	2021		Recommended Real Cost Defualts
Discount Rate (%)	7.0	7.0	7.0			7.0		Recommended Real Cost Defualts
Number of Alternatives	2	2	2	2	2	2	2	Recommended <i>Real</i> Cost Defualts
3. Traffic Data								
AADT Construction Year (total for								
both directions)	20,600	20,600	20,600	20,600	20,600	20,600	20,600	Current AADT
Cars as Percentage of AADT (%)	91.0%	91.0%	91.0%	91.0%		91.0%		
Single Unit Trucks as % of AADT (%)	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	ODOT Traffic Count Database
Combination Trucks as % of AADT								
(%)	7.0%	7.0%	7.0%	7.0%	7.0%	7.0%	7.0%	Recommended <i>Real</i> Cost Defualts
Annual Growth Rate of Traffic (%) Speed Limit Under Normal	3.0%	3.2%	3.2%	3.2%	3.2%	3.2%	3.2%	ODOT SHIFT Tool and Reasoned Judgement
Operating Conditions (mph)	55	55	55	55	55	55	55	Posted Speed
Number of Lanes in Each Direction	33	33	33	33	33	33	33	l osted speed
During Normal Conditions	1	2	2	2	3	2	3	Design
Free Flow Capacity (vphpl)	1500	1900	1900		1900			Reasoned Judegement
Rural or Urban Hourly Traffic Distribution	Rural	Rural	Rural	Rural	Rural	Rural	Rural	Straddles Unbanized Boundary
Queue Dissipation Capacity (vphpl)	1100	1100	1100	1100	1100	1100	1100	Reasoned Judegement
Maximum AADT (total for both	1100	1100	1100	1100	1100	1100	1100	neasoned sudegement
directions)	40,000	40,000	40,000	40,000	40,000	40,000	40,000	ODOT SHIFT forecast tool
Maximum Queue Length (miles)	1.0						· ·	Alternate Route Available

LIFE-CYCLE COST ANALYSIS - WAR-63 PRIORITY PROJECT WARREN COUNTY TRANSPORTATION IMPROVEMENT DISTRICT JUNE 2019	
Appendix C – ACTIVITY LEVEL INPUT DATA BY SCENARIO	

Table 5. Activity Level Inputs – No Build Strategy

WARREN COUNTY TRANSPORTATION IMPROVEMENT DISTRICT
WAR 63 PRIORITY SEGMENT
LIFE CYCLE COST ANALYSIS
ACTIVITY LEVEL INPUTS
NO BUILD STRATEGY

	Initial Construction	Expansion	Pavement	Culverts	Major Drainage Rehabilitation	Major Shoulder Rehabilitation	Guardrial Replacement	Major Median Median Barı Rehabilitation Replaceme	rier nt	rhead Sign & Signal placement	Outages Requiring Maintenance of Traffic*
Activity 1											
Agency Construction Cost			\$ 450,000	\$ -	\$ -	\$ -	\$ -		\$		\$ 55,000
Work Zone User Costs			Calculated	Calculated	Calculated	Calculated	Calculated		C	alculated	Calculated
Work Zone Duration (days)			60	0	0	0	0			0	1
Number of Lanes Open in Each			0.5	0.5	1.0	٥٢	0.5			0.5	0.5
Direction During Work Zone Activity Service Life (years)			0.5	0.5 11	1.0	0.5 11				0.5	0.5
Activity Structural Life (years)			11	11	5	11				11	0
Maintenance Frequency (years)			1	1	1	1	0			1	0
Agency Maintenance Cost			\$ 40,000	\$ 5,000	\$ 2,000	\$ 11,000	\$ -		\$	6,000	\$ -
Work Zone Length (miles)			3.00	0.00	0.00	0.00				0.00	0.10
Work Zone Speed Limit (mph)			40	40	50	25				40	25
Work Zone Capacity (vphpl)			500 Week Day 1	500 Week Day 1	500 Week Day 1	500 Week Day 1			14/	750 'eek Day 1	500 Week Day 1
Traffic Hourly Distribution Time of Day Lane Closures (24 hour			week Day 1	week Day 1	week Day 1	week Day 1	Week Day 1		VV	еек рау 1	week Day 1
clock)			7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00		7:0	00 - 15:00	7:00 - 15:00
Activity 2											
Agency Construction Cost Work Zone User Costs			\$ 3,515,000 Calculated	\$ 576,000 Calculated	\$ 180,000 Calculated	\$ 123,000 Calculated	\$ 77,000 Calculated		\$	473,000 alculated	
Work Zone Oser Costs Work Zone Duration (days)			120	54	30				C	aicuiateu 6	
Number of Lanes Open in Each			120	34	30	30	20				
Direction During Work Zone			0.5	0.5	1.0	0.5	0.5			0.5	
Activity Service Life (years)			15	25	15	10	18			15	
Activity Structural Life (years)			25	30	15	10				15	
Maintenance Frequency (years)			1 10 000	1 5 000	1	1	0			1	
Agency Maintenance Cost Work Zone Length (miles)			\$ 40,000 3.00	\$ 5,000 0.20	\$ 2,000 3.00	\$ 11,000 3.00			\$	6,000 0.10	
Work Zone Speed Limit (mph)			40	40	5.00	25				40	
Work Zone Capacity (vphpl)			500	500	750	500				750	
Traffic Hourly Distribution			Week Day 1	Week Day 1	Week Day 1	Week Day 1	Week Day 1		W	eek Day 1	
Time of Day Lane Closures (24 hour clock)			7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00		7:	00 - 15:00	
Activity 3											
Agency Construction Cost			\$ 450,000		\$ 180,000	\$ 123,000	\$ 77,000		\$	473,000	
Work Zone User Costs			Calculated		Calculated	Calculated	Calculated			alculated	
Work Zone Duration (days)			60		30	30	20			6	
Number of Lanes Open in Each											
Direction During Work Zone			0.5		1.0					0.5	
Activity Service Life (years)			5		11					5	
Activity Structural Life (years) Maintenance Frequency (years)			15 1		15	10	18 0			15 1	
Agency Maintenance Cost			\$ 40,000		\$ 2,000	\$ 11,000			\$	6,000	
Work Zone Length (miles)			3.00		3.00					0.10	
Work Zone Speed Limit (mph)			40		50	25				40	
Work Zone Capacity (vphpl)			500		750	500				750	
Traffic Hourly Distribution			Week Day 1		Week Day 1	Week Day 1	Week Day 1		W	eek Day 1	
Time of Day Lane Closures (24 hour clock)			7:00 - 15:00		7:00 - 15:00	7:00 - 15:00	7:00 - 15:00		7:0	00 - 15:00	

^{*}Outages occur every 2 years -Activity 1 is repeated 16 times

Table 6. Activity Level Inputs – 4-Lane Undivided Strategy

WARREN COUNTY TRANSPORTATION IMPROVEMENT DISTRICT
WAR 63 PRIORITY SEGMENT
LIFE CYCLE COST ANALYSIS
ACTIVITY LEVEL INPUTS
4-LANE UNDIVIDED STRATEGY

	Initial Construction	Expansion	Pavement	Culverts	Major Drainage Rehabilitation	Major Shoulder Rehabilitation	Guardrial Replacement	Major Median Rehabilitation	Median Barrier Replacement	Overhead Sign & Signal Replacement	Outages Requiring Maintenance of Traffic*
Activity 1											
Agency Construction Cost Work Zone User Costs	\$ 24,000,000 Calculated		\$ - Calculated	\$ - Calculated	\$ - Calculated	\$ - Calculated	\$ - Calculated			Calculated	\$ 55,000 Calculated
Work Zone Duration (days)	365		0	0	0	0	0			0	1
Number of Lanes Open in Each	1.0		1.0	1.0	1.0	1.0	1.0			1.0	1.0
Direction During Work Zone Activity Service Life (years)	1.0		1.0	1.0	1.0	1.0 11	1.0 18			1.0	
Activity Service Life (years) Activity Structural Life (years)	31		16 16	31 31	16 16	11	18			16 16	
Maintenance Frequency (years)	0		1	1	10	1	0			10	
Agency Maintenance Cost	\$ -		\$ 51,000	\$ 6,000	\$ 2,000	\$ 15,000	\$ -			\$ 6,000	\$ -
Work Zone Length (miles)	3		0.00	0.00	0.00	0.00	0.00			0.00	*
Work Zone Speed Limit (mph)	40		40	40	40	25	25			40	
Work Zone Capacity (vphpl)	500		500	500	500	500	500			500	750
Traffic Hourly Distribution	Week Day 1		Week Day 1	Week Day 1	Week Day 1	Week Day 1	Week Day 1			Week Day 1	Week Day 1
Time of Day Lane Closures (24 hour clock)	7:00 - 15:00		7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00			7:00 - 15:00	7:00 - 15:00
Activity 2											
Agency Construction Cost			\$ 750,000		\$ 180,000	\$ 123,000	\$ 159,000			\$ 945,000	
Work Zone User Costs			Calculated		Calculated	Calculated	Calculated			Calculated	
Work Zone Duration (days)			75		30	30	20			24	
Number of Lanes Open in Each											
Direction During Work Zone			1.0		1.0	2.0	1.5			1.0	
Activity Service Life (years)			15		15	10	13			15	
Activity Structural Life (years)			15		15	10	18			15	
Maintenance Frequency (years)			1		1	1 15 000	0			1	
Agency Maintenance Cost			\$ 51,000 3.00		\$ 2,000 3.00	\$ 15,000 3.00	\$ -			\$ 6,000 0.10	
Work Zone Length (miles) Work Zone Speed Limit (mph)			40		5.00	25	25			40	
Work Zone Capacity (vphpl)			500		500	500	500			500	
Traffic Hourly Distribution			Week Day 1		Week Day 1	Week Day 1	Week Day 1			Week Day 1	
Time of Day Lane Closures (24 hour clock)			7:00 - 15:00		7:00 - 15:00	7:00 - 15:00	7:00 - 15:00			7:00 - 15:00	
Activity 3											
Agency Construction Cost						\$ 123,000					
Work Zone User Costs						Calculated					
Work Zone Duration (days)						30					
Number of Lanes Open in Each											
Direction During Work Zone						2.0					
Activity Service Life (years)						10					
Activity Structural Life (years)						10					
Maintenance Frequency (years)						1					
Agency Maintenance Cost						\$ 15,000					
Work Zone Length (miles)						3.00					
Work Zone Speed Limit (mph)						25					
Work Zone Capacity (vphpl)						500 Week Day 1					
Traffic Hourly Distribution Time of Day Lane Closures (24 hour						Week Day 1					
clock)						7:00 - 15:00					

^{*}Outages occur every 4 years -Activity 1 is repeated 8 times

Table 7. Activity Level Inputs – 4-Lane Divided Strategy

WARREN COUNTY TRANSPORTATION IMPROVEMENT DISTRICT
WAR 63 PRIORITY SEGMENT
LIFE CYCLE COST ANALYSIS
ACTIVITY LEVEL INPUTS
4-LANE DIVIDED STRATEGY

	Initial Construction	Expansion	Pavement	Culverts	Major Drainage Rehabilitation	Major Shoulder Rehabilitation	Guardrial Replacement	Major Median Rehabilitation	Median Barrier Replacement	Overhead Sign & Signal Replacement	Outages Requiring Maintenance of Traffic*
Activity 1											
Agency Construction Cost	\$ 28,000,000		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 55,000
Work Zone User Costs	Calculated		Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Caculated	Calculated	Calculated
Work Zone Duration (days)	365		0	0	0	0	0	0	0	0	1
Number of Lanes Open in Each											
Direction During Work Zone	1.0		1.0			1.0	1.0		1.0	1.0	
Activity Service Life (years)	31		16			11	18		20	16	
Activity Structural Life (years)	31		16	31	. 16	11	18	11	20	16	
Maintenance Frequency (years) Agency Maintenance Cost	\$ -		\$ 51,000	\$ 7,000	\$ 2,000	\$ 15,000	\$ -	\$ 4,000	\$ -	\$ 7,000) \$ -
Work Zone Length (miles)	3		0.00	0.00	7 -/	0.00	0.00		0.00	0.00	
Work Zone Speed Limit (mph)	45		40			40	25		50	40	
Work Zone Capacity (vphpl)	1000		500			750	500		1150	750	
Traffic Hourly Distribution	Week Day 1		Week Day 1	Week Day 1	Week Day 1	Week Day 1	Week Day 1	Week Day 1	Week Day 1	Week Day 1	Week Day 1
Time of Day Lane Closures (24 hour clock)	7:00 - 15:00		7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00
Activity 2											
Agency Construction Cost			\$ 750,000		\$ 180,000	\$ 123,000	\$ 159,000	\$ 153,000	\$ 366,000	\$ 945,000	
Work Zone User Costs			Calculated		Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	
Work Zone Duration (days)			75		30	30			70		
Number of Lanes Open in Each											
Direction During Work Zone			1.0		1.0	2.0	1.5	1.5	2.0	1.0	
Activity Service Life (years)			15		15	10	13	10	11	15	
Activity Structural Life (years)			15		15	10	18	10	20	15	
Maintenance Frequency (years)			1		1	1	1	1	1	1	
Agency Maintenance Cost			\$ 51,000			\$ 15,000	\$ -	\$ 4,000	\$ -	\$ 7,000	
Work Zone Length (miles)			3.00		3.00	3.00	0.50		3.00	0.10	
Work Zone Speed Limit (mph)			40 500		50 750	40 750	25 500		50	40 750	
Work Zone Capacity (vphpl) Traffic Hourly Distribution			Week Day 1		Week Day 1	Week Day 1	Week Day 1	Week Day 1	1150 Week Day 1	Week Day 1	
Time of Day Lane Closures (24 hour			7:00 - 15:00		7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	
clock)											
Activity 3											
Agency Construction Cost						\$ 123,000		\$ 153,000			
Work Zone User Costs						Calculated		Calculated			
Work Zone Duration (days)						30		30			
Number of Lanes Open in Each Direction During Work Zone						2.0		1.5			
Activity Service Life (years)						10		1.3			
Activity Structural Life (years)						10		10			
Maintenance Frequency (years)						1		1			
Agency Maintenance Cost						\$ 15,000		\$ 4,000			
Work Zone Length (miles)						3.00		3.00			
Work Zone Speed Limit (mph)						40		50			
Work Zone Capacity (vphpl)						750		1150			
Traffic Hourly Distribution						Week Day 1		Week Day 1			
Time of Day Lane Closures (24 hour clock)						7:00 - 15:00		7:00 - 15:00			

Table 8. Activity Level Inputs – 4-Lane Undivided Expansion Strategy

WARREN COUNTY TRANSPORTATION IMPROVEMENT DISTRICT
WAR 63 PRIORITY SEGMENT
LIFE CYCLE COST ANALYSIS
ACTIVITY LEVEL INPUTS
4-LANE UNDIVIDED EXPANSION STRATEGY

Activity 1	Initial Construction	Expansion	Pavement	Culverts	Major Drainage Rehabilitation	Major Shoulder Rehabilitation	Guardrial Replacement	Major Median Rehabilitation	Median Barrier Replacement	Overhead Sign & Signal Replacement	Outages Requiring Maintenance of Traffic*
Activity 1											
Agency Construction Cost	\$ 24,000,000 \$	-	\$ -	\$ -	\$ -	\$ -	\$ -			\$ -	\$ 55,000
Work Zone User Costs	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated			Calculated	Calculated
Work Zone Duration (days)	365	0	0	0	0	0	0			0	1
Number of Lanes Open in Each											
Direction During Work Zone	1.0	1.0	1.0	1.0	1.0	1.0	1.0			1.0	1.0
Activity Service Life (years)	11	11	11	11	11	11	11			11	4
Activity Structural Life (years)	31	31	11	11	11	11	11			11	0
Maintenance Frequency (years)	0	0	1	1	1	1	0			1	0
Agency Maintenance Cost	\$ - \$	-	\$ 51,000 \$	-/	\$ 2,000	\$ 15,000	\$ -			\$ 6,000	\$ -
Work Zone Length (miles)	3	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.10
Work Zone Speed Limit (mph)	40	40	40	40	40	25	25			40	
Work Zone Capacity (vphpl)	500	750	750	750	750	750	750			750	
Traffic Hourly Distribution	Week Day 1	Week Day 1	Week Day 1	Week Day 1	Week Day 1	Week Day 1	Week Day 1			Week Day 1	Week Day 1
Time of Day Lane Closures (24 hour	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00			7:00 - 15:00	7:00 - 15:00
clock)											
Activity 2											
Agency Construction Cost	9	15,000,000	\$ - \$	-	¢		\$ -			\$ -	\$ 55,000
Work Zone User Costs	7	Calculated	Calculated	Calculated	Calculated	Calculated	Calculated			Calculated	Calculated
Work Zone Duration (days)		240	O	Calculated	O	Calculated 0	0			O Calculated	
Number of Lanes Open in Each		240	0	Ŭ	J	J	0			0	_
Direction During Work Zone		2.0	2.0	2.0	2.0	2.0	2.5			2.0	2.0
Activity Service Life (years)		20	15	20	15	10	18			15	
Activity Structural Life (years)		31	15	20	15	10	18			15	
Maintenance Frequency (years)		0	1	1	1	1	0			1	0
Agency Maintenance Cost	Ş	-	\$ 76,500 \$	9,000	\$ 2,000	\$ 15,000	\$ -			\$ 9,000	
Work Zone Length (miles)		3.00	3.00	0.00	3.00	3.00	0.50			0.10	
Work Zone Speed Limit (mph)		45	45	45	50	25	25			40	
Work Zone Capacity (vphpl)		1000	1000	1000	1000	1000	1000			500	1000
Traffic Hourly Distribution		Week Day 1	Week Day 1	Week Day 1	Week Day 1	Week Day 1	Week Day 1			Week Day 1	Week Day 1
Time of Day Lane Closures (24 hour clock)		7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00			7:00 - 15:00	7:00 - 15:00
Activity 3											
Agency Construction Cost			\$ 1,125,000		\$ 180,000	\$ 123,000	\$ 159,000			\$ 1,417,500	
Work Zone User Costs			Calculated		Calculated	Calculated	Calculated			Calculated	
Work Zone Duration (days)			75		30	30	20			24	
Number of Lanes Open in Each											
Direction During Work Zone			2.0		2.0	2.0	2.5			2.0	
Activity Service Life (years)			5		5	10	2			5	
Activity Structural Life (years)			15		15	10	18			15	
Maintenance Frequency (years)			1		1	1	0			1	
Agency Maintenance Cost			\$ 76,500		\$ 2,000		\$ -			\$ 9,000	
Work Zone Length (miles)			3.00		3.00	3.00	0.50			0.10	
Work Zone Speed Limit (mph)			45		50	25	25			40	
Work Zone Capacity (vphpl)			1000		1000	1000	1000			500	
Traffic Hourly Distribution			Week Day 1		Week Day 1	Week Day 1	Week Day 1			Week Day 1	
Time of Day Lane Closures (24 hour clock)			7:00 - 15:00		7:00 - 15:00	7:00 - 15:00	7:00 - 15:00			7:00 - 15:00	

Table 9. Activity Level Inputs – 4-Lane Divided Expansion Strategy

WARREN COUNTY TRANSPORTATION IMPROVEMENT DISTRICT
WAR 63 PRIORITY SEGMENT
LIFE CYCLE COST ANALYSIS
ACTIVITY LEVEL INPUTS
4-LANE DIVIDED STRATEGY

Activity 1	Initial Construction	Expansion	Pavement	Culverts	Major Drainage Rehabilitation	Major Shoulder Rehabilitation	Guardrial Replacement	Major Median Rehabilitation	Median Barrier Replacement	Overhead Sign & Signal Replacement	Outages Requiring Maintenance of Traffic*
·											
Agency Construction Cost	\$ 28,000,000		\$ -	\$ -	\$ - - · · · ·	\$ -	, '		\$ -	\$ -	
Work Zone User Costs	Calculated		Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	Caculated	Calculated	Calculated
Work Zone Duration (days)	365		0	0	0	0	0	0	0	0	1
Number of Lanes Open in Each			4.0			4.0	4.0				4.0
Direction During Work Zone	1.0		1.0	1.0		1.0	1.0	1.0	1.0		1.0
Activity Service Life (years)	31		16	31 31		11 11	18 18	11			5
Activity Structural Life (years) Maintenance Frequency (years)	31		16	51	16	11	18	11	1		0
Agency Maintenance Cost	\$ -		\$ 51,000	\$ 7,000	\$ 2,000	\$ 15,000	\$ -	\$ 4,000		\$ 7,000	\$ -
Work Zone Length (miles)	3		0.00	0.00		0.00	0.00	0.00		, ,,,,,,,	0.10
Work Zone Speed Limit (mph)	45		40	40		40	25	50			40
Work Zone Capacity (vphpl)	1000		500	500		750	500	1150			750
Traffic Hourly Distribution	Week Day 1		Week Day 1	Week Day 1	Week Day 1	Week Day 1	Week Day 1	Week Day 1	Week Day 1	Week Day 1	Week Day 1
Time of Day Lane Closures (24 hour	·						· '			, , ,	·
clock)	7:00 - 15:00		7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00
Activity 2 Agency Construction Cost			\$ 750,000		\$ 180,000	\$ 123,000	\$ 159,000	\$ 153,000	\$ 366,000	\$ 945,000	
Work Zone User Costs			Calculated		Calculated	Calculated	Calculated	Calculated	Calculated	Calculated	
Work Zone Duration (days)			75		30	30	20	30	70	24	
Number of Lanes Open in Each											
Direction During Work Zone			1.0		1.0	2.0	1.5	1.5	2.0		
Activity Service Life (years)			15		15	10	13	10			
Activity Structural Life (years)			15		15	10	18	10			
Maintenance Frequency (years)			1		1	1	1	1	1		
Agency Maintenance Cost			\$ 51,000		\$ 2,000	\$ 15,000	\$ -	\$ 4,000	\$ -	\$ 7,000	
Work Zone Length (miles)			3.00		3.00	3.00	0.50	3.00			
Work Zone Speed Limit (mph)			40 500		50 750	40 750	25 500	50 1150			
Work Zone Capacity (vphpl) Traffic Hourly Distribution			Week Day 1		Week Day 1	Week Day 1	Week Day 1	Week Day 1	Week Day 1	Week Day 1	
Time of Day Lane Closures (24 hour			, i			, i				,	
clock)			7:00 - 15:00		7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	7:00 - 15:00	
Activity 3						Å 422.000		452.000			
Agency Construction Cost						\$ 123,000		\$ 153,000			
Work Zone Duration (days)						Calculated 30		Calculated 30			
Work Zone Duration (days) Number of Lanes Open in Each						30		50			
Direction During Work Zone						2.0		1.5			
Activity Service Life (years)						10		1.3			
Activity Service Life (years) Activity Structural Life (years)						10		10			
Maintenance Frequency (years)						10		10			
Agency Maintenance Cost						\$ 15,000		\$ 4,000			
Work Zone Length (miles)						3.00		3.00			
Work Zone Speed Limit (mph)						40		50			
Work Zone Capacity (vphpl)						750		1150			
Traffic Hourly Distribution						Week Day 1		Week Day 1			
Time of Day Lane Closures (24 hour											
clock)						7:00 - 15:00		7:00 - 15:00			

^{*}Outages occur every 5 years -Activity 1 is repeated 6 times

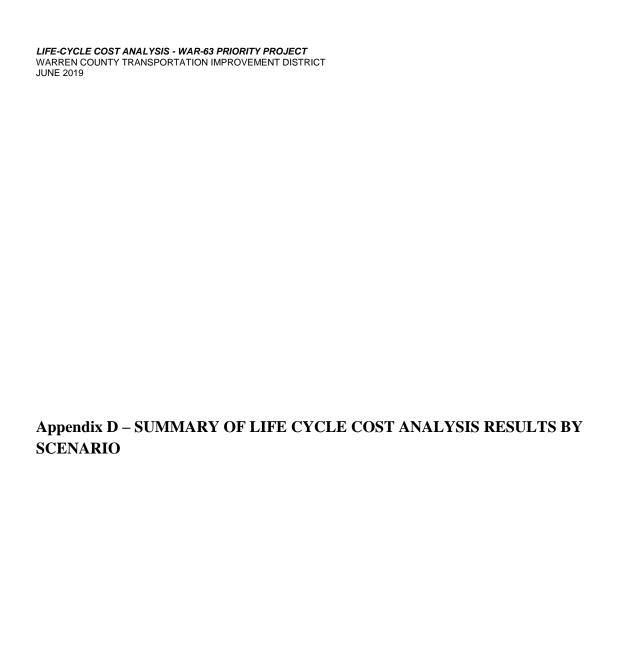


Table 10. Summary of Life Cycle Costs Including Initial Construction Period Costs

WARREN COUNTY TRANSPORTATION IMPROVEMENT DISTRICT
WAR 63 PRIORITY SEGMENT
LIFE CYCLE COST ANALYSIS
SUMMARY INCLUDING INITIAL CONSTRUCTION PERIOD COSTS

ACTIVITIES						NO E	UILI	D				
		Undiscou	nted	Sum		Present Value (D	iscou	unted at 7%)		Equivalent Unifo	orm.	Annual Cost
	_	Agency Cost		User Cost		Agency Cost		User Cost		Agency Cost		User Cost
Initial Build	Ś		Ś		Ś		Ś		Ś		Ś	
Expannsion	Š		Ś		İš		Š		Ś		Š	
Pavement	Ś	4,532,000	Ś	8.141.320	ŝ	2,544,770	Ś	5,308,310	\$	203.060	\$	423,590
Culverts	\$	529,000	\$	1,755,620	\$	309,750	\$	1,143,360	\$	24,720	\$	91,240
Major Drainage Rehab	\$	368,000	\$	835,680	\$	191,840	\$	313,930	\$	15,310	\$	25,050
Major Shoulder Rehab	\$	554,000	\$	3,226,790	\$	216,760	\$	1,149,860	\$	17,300	\$	91,760
Guardrail Replacement	\$	89,830	\$	2,139,850	\$	42,850	\$	1,006,350	\$	3,420	\$	80,300
Major Median Rehab	\$		\$		\$		\$		\$		\$	
Median Barrier Replacement	\$		\$		\$		\$		\$		\$	
Overhead Sign/Signal Replacement	\$	761,130	\$	335,310	\$	330,380	\$	145,530	\$	26,620	\$	11,730
Outages Requiring MOT	\$	880,000	\$	770,740	\$	384,710	\$	326,980	\$	30,700	\$	26,090
	\$	7,713,960	\$	17,205,310	\$	4,021,060	\$	9,394,320	\$	321,130	\$	749,760

ACTIVITIES						4 LANE U	NDI	/IDED				
		Undiscou	nted	Sum		Present Value (D	iscou	unted at 7%)		Equivalent Unifo	orm	Annual Cost
	_	Agency Cost		User Cost		Agency Cost		User Cost		Agency Cost		User Cost
Initial Build	\$	24,000,000	5	13,319,210	, \$	24,000,000	5	13,319,210	, \$	1,915,130	5	1,062,830
Expansion	\$		\$	-	\$	-	\$	-	\$	-	\$	-
Pavement	\$	2,229,000	\$	6,259,140	\$	869,640	\$	2,120,190	\$	63,390	\$	169,180
Culverts	\$	180,000	\$		\$	74,450	\$		\$	5,940	\$	
Major Drainage Rehab	\$	238,000	\$	2,445,910	\$	85,110	\$	828,510	\$	6,790	\$	66,110
Major Shoulder Rehab	\$	666,000	\$	2,265,130	\$	263,530	\$	656,230	\$	21,030	\$	52,360
Guardrail Replacement	\$	114,830	\$	927,460	\$	41,620	\$	336,150	\$	3,320	\$	26,820
Major Median Rehab	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Median Barrier Replacement	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Overhead Sign/Signal Replacement	\$	1,119,000	\$	1,942,020	\$	392,530	\$	657,830	\$	31,320	\$	52,490
Outages Requiring MOT	\$	440,000	\$	320,800	\$	205,350	\$	87,920	\$	16,390	\$	7,020
	s	28,986,830	\$	27,479,670	 \$	25,932,230	\$	18,006,040	s	2,063,310	\$	1,436,810

ACTIVITIES						4-LANE	DIVI	DED				
		Undiscou	ntec	d Sum		Present Value (D	iscou	inted at 7%)		Equivalent Unifo	orm	Annual Cost
		Agency Cost		User Cost		Agency Cost		User Cost		Agency Cost		User Cost
to be a little of the state of		20 000 000		054 300		20,000,000		054 200		2 224 240		60.470
Initial Build	5	28,000,000	\$	854,290	۶	28,000,000	\$	854,290	5	2,234,310	5	68,170
Expansion	\$		\$		LE		\$		\$		\$	
Pavement	\$	2,229,000	\$	6,259,140	\$	869,640	\$	2,120,190	\$	69,390	\$	169,180
Culverts	\$	210,000	\$	-	\$	86,860	\$	-	\$	6,930	\$	-
Major Drainage Rehab	\$	238,000	\$	1,628,730	\$	85,110	\$	551,710	\$	6,790	\$	44,020
Major Shoulder Rehab	\$	666,000	\$	381,410	\$	263,530	\$	129,700	\$	21,030	\$	10,350
Guardrail Replacement	\$	114,830	\$	927,460	\$	41,620	\$	336,150	\$	3,320	\$	26,820
Major Median Rehab	\$	418,000	\$	110,770	\$	156,410	\$	37,670	\$	12,480	\$	3,010
Median Barrier Replacement	\$	201,300	\$	77,580	\$	74,360	\$	28,660	\$	5,930	\$	2,290
Overhead Sign/Signal Replacement	\$	1,148,000	\$	1,284,610	\$	404,600	\$	435,140	\$	32,290	\$	34,720
Outages Requiring MOT	\$	330,000	\$	220,700	\$	166,450	\$	65,570	\$	13,280	\$	5,230
	\$	33,555,130	\$	11,744,690	\$	30,148,580	\$	4,559,080	\$	2,405,750	\$	363,790

ACTIVITIES					4-L	ANE UNDIVIDED	XP.	ANSION YEAR 10			
		Undiscou	ntec	d Sum		Present Value (D	isco	unted at 7%)	Equivalent Unifo	orm	Annual Cost
	_	Agency Cost		User Cost		Agency Cost		User Cost	Agency Cost		User Cost
Initial Build	\$	24,000,000		13,319,210		24,000,000		13,319,210	\$ 1,915,130		1,062,830
Expansion	\$	9,677,420	\$	512,470	\$	6,472,920	\$	342,770	\$ 516,520	\$	27,350
Pavement	\$	2,262,000	\$	113,620	\$	822,310	\$	30,790	\$ 65,620	\$	2,460
Culverts	\$	231,000	\$		\$	86,330	\$		\$ 6,890	\$	
Major Drainage Rehab	\$	116,000	\$	21,390	\$	39,790	\$	5,800	\$ 3,170	\$	460
Major Shoulder Rehab	\$	543,000	\$	632,190	\$	205,090	\$	152,680	\$ 16,370	\$	12,180
Guardrail Replacement	\$	17,670	\$	13,790	\$	5,000	\$	3,900	\$ 400	\$	310
Major Median Rehab											
Median Barrier Replacement											
Overhead Sign/Signal Replacement	\$	694,500	\$	415,240	\$	212,850	\$	112,550	\$ 16,980	\$	8,980
Outages Requiring MOT	\$	385,000	\$	21,220	\$	271,080	\$	13,460	\$ 21,630	\$	1,070
	\$	37,926,590	\$	15,049,130	\$	32,115,370	\$	13,981,160	\$ 2,562,710	\$	1,115,640

ACTIVITIES					4	-LANE DIVIDED EX	(PAI	NSION YEAR 10				
		Undiscou	nted	i Sum		Present Value (D	iscou	unted at 7%)		Equivalent Unifo	orm.	Annual Cost
		Agency Cost		User Cost		Agency Cost		User Cost		Agency Cost		User Cost
Initial Build	¢	28.000.000	ć	854,290	ć	28,000,000	c	854,290	Ś	2,234,310	¢	68,170
Expansion	ć	6.774.190		241,220		4,531,050		161,340		361,560		12,870
	,	2.262.000				822,310		30,790	2	65.620		2,460
Pavement	2	-,,		113,620	?	,		30,790	?	,		2,400
Culverts	\$	241,000	\$	-	\$	93,360	\$		\$	7,450	\$	-
Major Drainage Rehab	\$	116,000	\$	21,390	\$	39,790	\$	5,800	\$	3,170	\$	460
Major Shoulder Rehab	\$	543,000	\$	632,190	\$	205,090	\$	152,680	\$	16,370	\$	12,180
Guardrail Replacement	\$	17,670	\$	13,790	\$	5,000	\$	3,900	\$	400	\$	310
Major Median Rehab	\$	22,000	\$	64,040	\$	73,340	\$	15,470	\$	5,850	\$	1,230
Median Barrier Replacement	\$		\$	-	\$	-	\$		\$		\$	
Overhead Sign/Signal Replacement	\$	704,500	\$	415,240	\$	219,880	\$	112,550	\$	17,550	\$	8,980
Outages Requiring MOT	\$	330,000	\$	10,590	\$	236,320	\$	7,280	\$	18,860	\$	580
	\$	39,010,360	\$	2,366,370	\$	34,226,140	\$	1,344,100	\$	2,731,140	\$	107,240

Table 11. Summary of Life Cycle Costs - Expansion and Rehabilitation Costs

WARREN COUNTY TRANSPORTATION IMPROVEMENT DISTRICT
WAR 63 PRIORITY SEGMENT
LIFE CYCLE COST ANALYSIS
SUMMARY OF EXPANSION AND REHABILITATION COSTS

ACTIVITIES						NO E	UILI	o				
		Undiscou	nted	Sum		Present Value (D	iscou	inted at 7%)		Equivalent Unifo	orm /	Annual Cost
		Agency Cost		User Cost		Agency Cost		User Cost		Agency Cost		User Cost
Expannsion	Ś	_	\$		۱s		Ś	-1	Ś	_	Ś	_
Pavement	Ś	4,532,000	Ś	8,141,320	ŝ	2,544,770	Ś	5,308,310	Ś	203,060	Ś	423,590
Culverts	\$	529,000	\$	1,755,620	\$	309,750	\$	1,143,360	\$	24,720	\$	91,240
Major Drainage Rehab	\$	368,000	\$	835,680	\$	191,840	\$	313,930	\$	15,310	\$	25,050
Major Shoulder Rehab	\$	554,000	\$	3,226,790	\$	216,760	\$	1,149,860	\$	17,300	\$	91,760
Guardrail Replacement	\$	89,830	\$	2,139,850	\$	42,850	\$	1,006,350	\$	3,420	\$	80,300
Major Median Rehab	\$		\$		\$		\$		\$		\$	
Median Barrier Replacement	\$	-	\$		\$		\$	-	\$	-	\$	-
Overhead Sign/Signal Replacement	\$	761,130	\$	335,310	\$	330,380	\$	145,530	\$	26,620	\$	11,730
Outages Requiring MOT	\$	880,000	\$	770,740	\$	384,710	\$	326,980	\$	30,700	\$	26,090
	\$	7,713,960	\$	17,205,310	\$	4,021,060	\$	9,394,320	\$	321,130	\$	749,760

ACTIVITIES					4-LANE U	NDIV	/IDED			
		Undiscou	nted	Sum	Present Value (D	iscou	inted at 7%)	Equivalent Unifo	orm A	Annual Cost
	_	Agency Cost		User Cost	Agency Cost		User Cost	Agency Cost		User Cost
Expansion	\$		\$	-1	\$	\$	-1	\$ _	\$	_
Pavement	\$	2,229,000	\$	6,259,140	\$ 869,640	\$	2,120,190	\$ 63,390	\$	169,180
Culverts	\$	180,000	\$		\$ 74,450	\$		\$ 5,940	\$	-
Major Drainage Rehab	\$	238,000	\$	2,445,910	\$ 85,110	\$	828,510	\$ 6,790	\$	66,110
Major Shoulder Rehab	\$	666,000	\$	2,265,130	\$ 263,530	\$	656,230	\$ 21,030	\$	52,360
Guardrail Replacement	\$	114,830	\$	927,460	\$ 41,620	\$	336,150	\$ 3,320	\$	26,820
Major Median Rehab	\$		\$	-	\$	\$	-	\$	\$	
Median Barrier Replacement	\$		\$	-	\$	\$	-	\$	\$	
Overhead Sign/Signal Replacement	\$	1,119,000	\$	1,942,020	\$ 392,530	\$	657,830	\$ 31,320	\$	52,490
Outages Requiring MOT	\$	440,000	\$	320,800	\$ 205,350	\$	87,920	\$ 16,390	\$	7,020
	\$	4,986,830	\$	14,160,460	\$ 1,932,230	\$	4,686,830	\$ 148,180	\$	373,980

ACTIVITIES					4-LANE	DIVI	DED			
		Undiscou	ntec	d Sum	Present Value (D	iscou	unted at 7%)	Equivalent Unifo	orm /	Annual Cost
	_	Agency Cost		User Cost	Agency Cost		User Cost	Agency Cost		User Cost
_										
Expansion	\$		4		\$	\$		\$	\$	
Pavement	\$	2,229,000	\$	6,259,140	\$ 869,640	\$	2,120,190	\$ 69,390	\$	169,180
Culverts	\$	210,000	\$		\$ 86,860	\$		\$ 6,930	\$	
Major Drainage Rehab	\$	238,000	\$	1,628,730	\$ 85,110	\$	551,710	\$ 6,790	\$	44,020
Major Shoulder Rehab	\$	666,000	\$	381,410	\$ 263,530	\$	129,700	\$ 21,030	\$	10,350
Guardrail Replacement	\$	114,830	\$	927,460	\$ 41,620	\$	336,150	\$ 3,320	\$	26,820
Major Median Rehab	\$	418,000	\$	110,770	\$ 156,410	\$	37,670	\$ 12,480	\$	3,010
Median Barrier Replacement	\$	201,300	\$	77,580	\$ 74,360	\$	28,660	\$ 5,930	\$	2,290
Overhead Sign/Signal Replacement	\$	1,148,000	\$	1,284,610	\$ 404,600	\$	435,140	\$ 32,290	\$	34,720
Outages Requiring MOT	\$	330,000	\$	220,700	\$ 166,450	\$	65,570	\$ 13,280	\$	5,230
	\$	5,555,130	\$	10,890,400	\$ 2,148,580	\$	3,704,790	\$ 171,440	\$	295,620

ACTIVITIES					4-1	LANE UNDIVIDED E	EXP/	ANSION YEAR 10				
		Undiscou	nted	Sum		Present Value (D	iscou	inted at 7%)		Equivalent Unifo	orm.	Annual Cost
		Agency Cost		User Cost		Agency Cost		User Cost		Agency Cost		User Cost
Expansion	\$	9,677,420	\$	512,470	\$	6,472,920	\$	342,770	\$	516,520	\$	27,350
Pavement	\$	2,262,000	\$	113,620	\$	822,310	\$	30,790	\$	65,620	\$	2,460
Culverts	\$	231,000	\$		\$	86,330	\$		\$	6,890	\$	
Major Drainage Rehab	\$	116,000	\$	21,390	\$	39,790	\$	5,800	\$	3,170	\$	460
Major Shoulder Rehab	\$	543,000	\$	632,190	\$	205,090	\$	152,680	\$	16,370	\$	12,180
Guardrail Replacement	\$	17,670	\$	13,790	\$	5,000	\$	3,900	\$	400	\$	310
Major Median Rehab												
Median Barrier Replacement					١.							
Overhead Sign/Signal Replacement	5	694,500	\$	415,240	\$	212,850	\$	112,550	5	16,980	\$	8,980
Outages Requiring MOT	\$	385,000	\$	21,220	\$	271,080	\$	13,460	\$	21,630	\$	1,070
	\$	13,926,590	\$	1,729,920	\$	8,115,370	\$	661,950	\$	647,580	\$	52,810

ACTIVITIES	4-LANE DIVIDED EXPANSION YEAR 10											
		Undiscounted Sum				Present Value (D	inted at 7%)	Equivalent Uniform Annual Cost				
	_	Agency Cost		User Cost		Agency Cost		User Cost		Agency Cost		User Cost
Expansion	\$	6.774.190	\$	241.220	۱s	4.531.050	Ś	161.340	Ś	361.560	\$	12.870
Pavement	\$	2,262,000	\$	113,620	\$	822,310	\$	30,790	\$	65,620	\$	2,460
Culverts	\$	241,000	\$	-	\$	93,360	\$	-	\$	7,450	\$	
Major Drainage Rehab	\$	116,000	\$	21,390	\$	39,790	\$	5,800	\$	3,170	\$	460
Major Shoulder Rehab	\$	543,000	\$	632,190	\$	205,090	\$	152,680	\$	16,370	\$	12,180
Guardrail Replacement	\$	17,670	\$	13,790	\$	5,000	\$	3,900	\$	400	\$	310
Major Median Rehab	\$	22,000	\$	64,040	\$	73,340	\$	15,470	\$	5,850	\$	1,230
Median Barrier Replacement	\$		\$		\$		\$		\$		\$	
Overhead Sign/Signal Replacement	\$	704,500	\$	415,240	\$	219,880	\$	112,550	\$	17,550	\$	8,980
Outages Requiring MOT	\$	330,000	\$	10,590	\$	236,320	\$	7,280	\$	18,860	\$	580
	\$	11,010,360	\$	1,512,080	\$	6,226,140	\$	489,810	Ś	496.830	\$	39,070

Table 12. Summary of Life Cycle Costs – Rehabilitation Costs Only

WARREN COUNTY TRANSPORTATION IMPROVEMENT DISTRICT
WAR 63 PRIORITY SEGMENT
LIFE CYCLE COST ANALYSIS
SUMMARY OF REHABILITATION COSTS

ACTIVITIES	NO BUILD											
		Undiscou	Undiscounted Sum			Present Value (D	inted at 7%)	Equivalent Uniform Annual Cost				
		Agency Cost		User Cost		Agency Cost		User Cost		Agency Cost		User Cost
Pavement	\$	4,532,000	\$	8,141,320	 \$	2,544,770	\$	5,308,310	\$	203,060	\$	423,590
Culverts	\$	529,000	\$	1,755,620	\$	309,750	\$	1,143,360	\$	24,720	\$	91,240
Major Drainage Rehab	\$	368,000	\$	835,680	\$	191,840	\$	313,930	\$	15,310	\$	25,050
Major Shoulder Rehab	\$	554,000	\$	3,226,790	\$	216,760	\$	1,149,860	\$	17,300	\$	91,760
Guardrail Replacement	\$	89,830	\$	2,139,850	\$	42,850	\$	1,006,350	\$	3,420	\$	80,300
Major Median Rehab	\$		\$		\$		\$		\$		\$	
Median Barrier Replacement	\$		\$	-	\$	-	\$		\$		\$	
Overhead Sign/Signal Replacement	\$	761,130	\$	335,310	\$	330,380	\$	145,530	\$	26,620	\$	11,730
Outages Requiring MOT	\$	880,000	\$	770,740	\$	384,710	\$	326,980	\$	30,700	\$	26,090
	\$	7,713,960	\$	17,205,310	\$	4,021,060	\$	9,394,320	\$	321,130	\$	749,760

ACTIVITIES	4-LANE UNDIVIDED											
			Undiscounted Sum				Present Value (Discounted at 7%)					Annual Cost
	_	Agency Cost		User Cost		Agency Cost		User Cost		Agency Cost		User Cost
Pavement	Ś	2.229.000	Ś	6.259.140	ls	869,640	Ś	2.120.190	\$	63,390	Ś	169.180
Culverts	Ś	180,000	Ś	-	\$	74,450	\$	-	\$	5,940	\$	
Major Drainage Rehab	\$	238,000	\$	2,445,910	\$	85,110	\$	828,510	\$	6,790	\$	66,110
Major Shoulder Rehab	\$	666,000	\$	2,265,130	\$	263,530	\$	656,230	\$	21,030	\$	52,360
Guardrail Replacement	\$	114,830	\$	927,460	\$	41,620	\$	336,150	\$	3,320	\$	26,820
Major Median Rehab	\$		\$		\$		\$		\$		\$	
Median Barrier Replacement	\$		\$		\$		\$		\$		\$	
Overhead Sign/Signal Replacement	\$	1,119,000	\$	1,942,020	\$	392,530	\$	657,830	\$	31,320	\$	52,490
Outages Requiring MOT	\$	440,000	\$	320,800	\$	205,350	\$	87,920	\$	16,390	\$	7,020
	\$	4,986,830	\$	14,160,460	\$	1,932,230	\$	4,686,830	\$	148,180	\$	373,980

ACTIVITIES		4-LANE DIVIDED										
		Undiscou	nted	l Sum		Present Value (D	isco	unted at 7%)		Equivalent Unifo	orm /	Annual Cost
	_	Agency Cost		User Cost		Agency Cost		User Cost		Agency Cost		User Cost
Pavement	s	2,229,000	Ś	6,259,140	Ś	869,640	Ś	2,120,190	\$	69,390	Ś	169,180
Culverts	\$	210,000	\$	-	\$	86,860	\$	-	\$	6,930	\$	
Major Drainage Rehab	\$	238,000	\$	1,628,730	\$	85,110	\$	551,710	\$	6,790	\$	44,020
Major Shoulder Rehab	\$	666,000	\$	381,410	\$	263,530	\$	129,700	\$	21,030	\$	10,350
Guardrail Replacement	\$	114,830	\$	927,460	\$	41,620	\$	336,150	\$	3,320	\$	26,820
Major Median Rehab	\$	418,000	\$	110,770	\$	156,410	\$	37,670	\$	12,480	\$	3,010
Median Barrier Replacement	\$	201,300	\$	77,580	\$	74,360	\$	28,660	\$	5,930	\$	2,290
Overhead Sign/Signal Replacement	\$	1,148,000	\$	1,284,610	\$	404,600	\$	435,140	\$	32,290	\$	34,720
Outages Requiring MOT	\$	330,000	\$	220,700	\$	166,450	\$	65,570	\$	13,280	\$	5,230
	\$	5,555,130	\$	10,890,400	\$	2,148,580	\$	3,704,790	\$	171,440	\$	295,620

ACTIVITIES	4-LANE UNDIVIDED EXPANSION YEAR 10											
		Undiscou	Sum	Present Value (D	unted at 7%)	Equivalent Uniform Annual Cost						
	_	Agency Cost		User Cost		Agency Cost		User Cost		Agency Cost		User Cost
Pavement	\$	2,262,000	\$	113,620	Ś	822,310	\$	30,790	\$	65,620	\$	2,460
Culverts	\$	231,000	\$		\$	86,330	\$		\$	6,890	\$	
Major Drainage Rehab	\$	116,000	\$	21,390	\$	39,790	\$	5,800	\$	3,170	\$	460
Major Shoulder Rehab	\$	543,000	\$	632,190	\$	205,090	\$	152,680	\$	16,370	\$	12,180
Guardrail Replacement	\$	17,670	\$	13,790	\$	5,000	\$	3,900	\$	400	\$	310
Major Median Rehab	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Median Barrier Replacement	\$		\$		\$		\$		\$		\$	
Overhead Sign/Signal Replacement	\$	694,500	\$	415,240	\$	212,850	\$	112,550	\$	16,980	\$	8,980
Outages Requiring MOT	\$	385,000	\$	21,220	\$	271,080	\$	13,460	\$	21,630	\$	1,070
	\$	4,249,170	\$	1,217,450	\$	1,642,450	\$	319,180	\$	131,060	\$	25,460

ACTIVITIES	4-LANE DIVIDED EXPANSION YEAR 10											
	Undiscou	Sum		Present Value (D	iscou	nted at 7%)	Equivalent (Equivalent Uniform Annual Cost				
	_	Agency Cost		User Cost		Agency Cost		User Cost	Agency Cost		User Cost	
Pavement	\$	2,262,000	\$	113,620	\$	822,310	\$	30,790 \$	65,6	20 :	\$ 2,460	
Culverts	\$	241,000	\$		\$	93,360	\$	- \$	7,4	50 5	\$ -	
Major Drainage Rehab	\$	116,000	\$	21,390	\$	39,790	\$	5,800 \$	3,1	70 :	\$ 460	
Major Shoulder Rehab	\$	543,000	\$	632,190	\$	205,090	\$	152,680 \$	16,3	70 5	\$ 12,180	
Guardrail Replacement	\$	17,670	\$	13,790	\$	5,000	\$	3,900 \$	4	00 5	\$ 310	
Major Median Rehab	\$	22,000	\$	64,040	\$	73,340	\$	15,470 \$	5,8	50 :	\$ 1,230	
Median Barrier Replacement	\$		\$	-	\$		\$	- \$		- 5	\$ -	
Overhead Sign/Signal Replacement	\$	704,500	\$	415,240	\$	219,880	\$	112,550 \$	17,5	50 5	\$ 8,980	
Outages Requiring MOT	\$	330,000	\$	10,590	\$	236,320	\$	7,280 \$	18,8	50 5	\$ 580	
	\$	4,236,170	\$	1,270,860	\$	1,695,090	\$	328,470 \$	135,2	70 !	\$ 26,200	

LIFE-CYCLE COST ANALYSIS - WAR-63 PRIORITY PROJECT WARREN COUNTY TRANSPORTATION IMPROVEMENT DISTRICT JUNE 2019
ONE 2013
Appendix E – <i>REAL</i> COST INPUT AND RESULTS BY SENARIO AND ACTIVITY

REALCOST INPUT AND RESULTS NO BUILD SCENARIO

Probabilistic Life Cycle Cost Analysis Worksheet

INI	PUT WORKSHEET		
111	FOT WORKSHELT		
1.	Economic Variables		
•	Value of Time for Passenger Cars (\$/hour)	\$14.80	
	Value of Time for Passenger Gals (\$/hour)	\$28.60	
	Value of Time for Combination Trucks (\$/hour)	\$28.60	
	value of Time for Combination Trucks (φ/nour)	\$20.00	
2.	Analysis Options		
<u> </u>	Include User Costs in Analysis	Yes	
	Include User Cost Remaining Life Value	Yes	
	Use Differential User Costs	Yes	
		Calculated	
	User Cost Computation Method	Yes	
	Include Agency Cost Remaining Life Value Traffic Direction	Both	
	Analysis Period (Years)	31	
	Beginning of Analysis Period	2021	
	Discount Rate (%)	7.0	
	Number of Alternatives	2	
•	Design Details		
3.	Project Details	ODO	
	State Route	SR63	
	Project Name	State Route 63 Priority Segment	[
	Region	OH	
	County	Warren	
	Analyzed By	Diana Martin	
	Mileposts		
	Begin	0.00	
	End	3.00	
	Length of Project (miles)	3.00	
	Comments		
4	Traffic Data		
**	AADT Construction Year (total for both directions)	20,600	
	Cars as Percentage of AADT (%)	91.0	
	Single Unit Trucks as Percentage of AADT (%)	2.0	
	Combination Trucks as Percentage of AADT (%)	7.0	
	Annual Growth Rate of Traffic (%)	3.0	
	Speed Limit Under Normal Operating Conditions (mph)	55	
	<u> </u>	33	
	No of Lanes in Each Direction During Normal Conditions	1500	
	Free Flow Capacity (vphpl)	1500	
	· · · · · · · · · · · · · · · · · · ·	·	
	Maximum Queue Length (miles)	1.0	
	Rural or Urban Hourly Traffic Distribution Queue Dissipation Capacity (vphpl) Maximum AADT (total for both directions) Maximum Queue Length (miles)	Rural 1100 40,000 1.0	

Alternative 1	No Build - Pa	vement 1	Alternative 2	No Build - Pa	evement 2	
Number of Activities	3		Number of Activities	3		
A and other a	DEDI 105 T	IDEA OF WEADING OCCUP	A sale de la	DEDL + OF T	IDEA OF THE	INC OF
Activity 1 Agency Construction Cost (\$1000)	SAFO CO	JRFACE WEARING COUR	Activity 1 Agency Construction Cost (\$1000)	\$450.00	JRFACE WEAR	NING CO
User Work Zone Costs (\$1000)	φ450.00		User Work Zone Costs (\$1000)	φ430.00		
Work Zone Duration (days)	60		Work Zone Duration (days)	60		
No of Lanes Open in Each Direction During Work			No of Lanes Open in Each Direction During Wor		-	
Activity Service Life (years)	11.0		Activity Service Life (years)	11.0		
Activity Service Life (years) Activity Structural Life (years)	11.0	-	Activity Service Life (years) Activity Structural Life (years)	11.0		
Maintenance Frequency (years)	11.0	<u> </u>	Maintenance Frequency (years)	11.0		
	40			40		
Agency Maintenance Cost (\$1000) Work Zone Length (miles)	3.00		Agency Maintenance Cost (\$1000) Work Zone Length (miles)	3.00		
Work Zone Length (miles) Work Zone Speed Limit (mph)	40		Work Zone Length (miles) Work Zone Speed Limit (mph)	40		
Work Zone Speed Limit (mpn) Work Zone Capacity (vphpl)	40		Work Zone Speed Limit (mpn) Work Zone Capacity (vphpl)	40		
Traffic Hourly Distribution	Week Day 1			Week Day 1		
		24 have alask)	Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb		24 have alask)	
Time of Day of Lane Closures (use whole numbe Inbound		Z4-nour clock)	Inhound			
	Start			Start	End	
First period of lane closure	/	0:00	First period of lane closure		15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Outhound	Ctant	End	Outbound	Ctant	E	
Outbound	Start	End		Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
A - 45-46 - O	ELILL DEDTI	LDAY/EMENT DELIAD	A = 15-26 - O	ELILL DEDTU	DAY/EMENT D	ELLA D
Activity 2 Agency Construction Cost (\$1000)	FULL DEPTH	PAVEMENT REHAB	Activity 2 Agency Construction Cost (\$1000)	FULL DEPTH	PAVEMENT R	EHAB
	\$3,515.00			\$3,515.00		
User Work Zone Costs (\$1000)	100		User Work Zone Costs (\$1000)	400		
Work Zone Duration (days)	120		Work Zone Duration (days)	120		
No of Lanes Open in Each Direction During Work			No of Lanes Open in Each Direction During Wor			
Activity Service Life (years)	15.0		Activity Service Life (years)	15.0		
Activity Structural Life (years)	25.0		Activity Structural Life (years)	25.0		
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	40		Agency Maintenance Cost (\$1000)	40		
Work Zone Length (miles)	3.00		Work Zone Length (miles)	3.00		
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500		
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number			Time of Day of Lane Closures (use whole number			
Inbound	Start	End	Inbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Outbound	Start	End	Outbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Activity 3	REPLACE SU	JRFACE WEARING COUR		REPLACE SU	JRFACE WEAR	RING CO
Agency Construction Cost (\$1000)	\$450.00		Agency Construction Cost (\$1000)	\$450.00		
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)			
Work Zone Duration (days)	60		Work Zone Duration (days)	60		
No of Lanes Open in Each Direction During Work	0.5		No of Lanes Open in Each Direction During Wor			
Activity Service Life (years)	5.0		Activity Service Life (years)	5.0		
Activity Structural Life (years)	15.0		Activity Structural Life (years)	15.0		
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	40		Agency Maintenance Cost (\$1000)	40		
Work Zone Length (miles)	3.00		Work Zone Length (miles)	3.00		
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500		
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number		24-hour clock)	Time of Day of Lane Closures (use whole number		24-hour clock)	
Inbound	Start	End	Inbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Time police of land bloodie			Tima ponda di funo diodure			
Outbound	Start	End	Outbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure	-		Second period of lane closure		- 13	
Third period of lane closure			Third period of lane closure			
i ilii u periou di iane ciosure			rriila period or larie closure			

Probabilistic Life Cycle Cost Analysis Worksheet

_		Total Cost							
	Alterna	ative 1	Alternative 2						
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)					
Undiscounted Sum	\$4,532.00	\$8,141.32	\$4,532.00	\$8,141.32					
Present Value	\$2,544.77	\$5,308.31	\$2,544.77	\$5,308.31					
EUAC	\$203.06	\$423.59	\$203.06	\$423.59					
Lowest Present Value	e Agency Cost	Alternative 1							
Lowest Present Value	e User Cost	Alternative 1							

WCTID SR 63 Probabilistic Life Cycle Cost Analysis Worksheet

INPUT WORKSHEET 1. Economic Variables Value of Time for Passenger Cars (\$/hour) Value of Time for Single Unit Trucks (\$/hour) Value of Time for Combination Trucks (\$/hour) \$28.60	
Value of Time for Passenger Cars (\$/hour)\$14.80Value of Time for Single Unit Trucks (\$/hour)\$28.60	
Value of Time for Passenger Cars (\$/hour)\$14.80Value of Time for Single Unit Trucks (\$/hour)\$28.60	
Value of Time for Single Unit Trucks (\$/hour) \$28.60	
Value of Time for Combination Trucks (\$/hour) \$28.60	
2. Analysis Options	
Include User Costs in Analysis Yes	
Include User Cost Remaining Life Value Yes	
Use Differential User Costs Yes	
User Cost Computation Method Calculated	
Include Agency Cost Remaining Life Value Yes	
Traffic Direction Both	
Analysis Period (Years)	
Beginning of Analysis Period 2021	
Discount Rate (%)	
Number of Alternatives 2	
3. Project Details	
State Route SR63	-
Project Name State Route 63 Priority	Segment
Region OH	
County	
Analyzed By Diana Martin	
Mileposts	
Begin 0.00	
End 3.00	
Length of Project (miles) 3.00	
Comments	
4. Traffic Data	
4. Traffic Data AADT Construction Year (total for both directions) 20,600	
AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) 91.0	
AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) 20,600 91.0 2.0	
AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) 7.0	
AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) 20,600 91.0 2.0 7.0 3.0	
AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph) 20,600 91.0 2.0 7.0 3.0 55	
AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) 20,600 91.0 2.0 7.0 3.0	
AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph) 20,600 91.0 2.0 7.0 3.0 55	
AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions	
AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions 1 Free Flow Capacity (vphpl)	
AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution	
AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution Queue Dissipation Capacity (vphpl) 100	

WCTID SR 63 Probabilistic Life Cycle Cost Analysis Worksheet

Alternative 1	No Build - Culv	verts 1	Alternative 2	No Build - Cul	verts 2
Number of Activities	2		Number of Activities	2	
Activity 1	INITIAL BUILD)	Activity 1	INITIAL BUILI)
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Work	0.5		No of Lanes Open in Each Direction During Wor	0.5	
Activity Service Life (years)	11.0		Activity Service Life (years)	11.0	
Activity Structural Life (years)	11.0		Activity Structural Life (years)	11.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	5		Agency Maintenance Cost (\$1000)	5	
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00	
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole numbe	rs based on a 2	24-hour clock)	Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Activity 2		OSS CULVERTS (TOTAL FO	Activity 2		ROSS CULVERTS
Agency Construction Cost (\$1000)	\$576.00		Agency Construction Cost (\$1000)	\$576.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	54		Work Zone Duration (days)	54	
No of Lanes Open in Each Direction During Work			No of Lanes Open in Each Direction During Wor		
Activity Service Life (years)	25.0		Activity Service Life (years)	25.0	
Activity Structural Life (years)	30.0		Activity Structural Life (years)	30.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	5		Agency Maintenance Cost (\$1000)	5	
Work Zone Length (miles)	0.20		Work Zone Length (miles)	0.20	
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	500 Week Day 1		Work Zone Capacity (vphpl)	500	
Traffic Hourly Distribution		M b113	Traffic Hourly Distribution	Week Day 1	04 1
Time of Day of Lane Closures (use whole numbe		End	Time of Day of Lane Closures (use whole number		End
Inbound	Start		Inbound	Start	
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure	- '		Second period of lane closure		10
Third period of lane closure			Third period of lane closure		
			rinia penda di idhe ciosule		

Total Cost									
	Altern	Alternative 1		ive 2					
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)					
Undiscounted Sum	\$529.00	\$1,755.62	\$529.00	\$1,755.62					
Present Value	\$309.75	\$1,143.36	\$309.75	\$1,143.36					
EUAC	\$24.72	\$91.24	\$24.72	\$91.24					
Lowest Present Value	e Agency Cost	Alternative 1							
Lowest Present Value	e User Cost	Alternative 1							

INPUT WORKSHEET		
INFOT WORKSHELT		
1. Economic Variables		
Value of Time for Passenger Cars (\$/hour)	\$14.80	
Value of Time for Plassenger Cars (\$\text{\$\ext{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\ext{\$\texitil{\$\text{\$\exitit{\$\text{\$\exitit{\$\text{\$\texitet{\$\text{\$\}\$\text{\$\text{\$\text{\$\e	\$28.60	
Value of Time for Combination Trucks (\$/hour)	\$28.60	
value of Time for Combination Trucks (φ/nour)	φ20.00	
2. Analysis Options		
Include User Costs in Analysis	Yes	
Include User Costs in Analysis Include User Cost Remaining Life Value	Yes	
Use Differential User Costs	Yes	
	Calculated	
User Cost Computation Method	Yes	
Include Agency Cost Remaining Life Value Traffic Direction	Both	
Analysis Period (Years)	31	
Beginning of Analysis Period	2021	
Discount Rate (%)	7.0	
Number of Alternatives	2	
2 Project Patrile		
3. Project Details	ODOS	
State Route	SR63	
Project Name	State Route 63 Priority Segment	
Region	ОН	
County	Warren	
Analyzed By	Diana Martin	
Mileposts		
Begin	0.00	
End	3.00	
Length of Project (miles)	3.00	
Comments		
4. 7.05. 8.4.		
4. Traffic Data	20,000	
AADT Construction Year (total for both directions)	20,600	
Cars as Percentage of AADT (%)	91.0	
Single Unit Trucks as Percentage of AADT (%)	2.0	
Combination Trucks as Percentage of AADT (%)	7.0	
Annual Growth Rate of Traffic (%)	3.0	
Speed Limit Under Normal Operating Conditions (mph)	<u>55</u>	
	4	
No of Lanes in Each Direction During Normal Conditions	1	
No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl)	1 1500	
No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution	Rural	
No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution Queue Dissipation Capacity (vphpl)		
No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution	Rural	
No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution Queue Dissipation Capacity (vphpl)	Rural 1100	

Alternative 1	No Build - Mai	or Open Draina	age Rehab 1	Alternative 2	No Build - Mai	or Open Drainage Rel
Number of Activities	3		g	Number of Activities	3	
Activity 1	INITIAL BUILD)		Activity 1	INITIAL BUILD)
Agency Construction Cost (\$1000)	\$0.00			Agency Construction Cost (\$1000)	\$0.00	
	Ψ0.00				Ψ0.00	
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0			Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Worl	k 1			No of Lanes Open in Each Direction During Wor	ł <u>1</u>	
Activity Service Life (years)	5.0			Activity Service Life (years)	5.0	
Activity Structural Life (years)	5.0			Activity Structural Life (years)	5.0	
	5.0			Maintenance Francisco (veers)	3.0	
Maintenance Frequency (years)				Maintenance Frequency (years)		
Agency Maintenance Cost (\$1000)	2			Agency Maintenance Cost (\$1000)	2	
Work Zone Length (miles)	0.00			Work Zone Length (miles)	0.00	
Work Zone Speed Limit (mph)	50			Work Zone Speed Limit (mph)	50	
Work Zone Capacity (vphpl)	500			Work Zone Capacity (vphpl)	500	
	144 - de Daniel				Marala David	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)		Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)
Inbound	Start	End		Inbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
		- 15				10
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
Outbound	Start	End		Outbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
		15				10
Second period of lane closure			<u> </u>	Second period of lane closure		
Third period of lane closure				Third period of lane closure		
Activity 2	MAJOR OPEN	N DRAINAGE F	REHAB	Activity 2	MAJOR OPEN	N DRAINAGE REHAB
Agency Construction Cost (\$1000)	¢190.00	C DIG WILL COL I	LI II LD	Agency Construction Cost (\$1000)	\$190.00	T DI G III G C I C C I G C C
	\$100.00				\$100.00	
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)		
Work Zone Duration (days)	30			Work Zone Duration (days)	30	
No of Lanes Open in Each Direction During Worl	1			No of Lanes Open in Each Direction During Wor	1	
Activity Service Life (years)	15.0			Activity Service Life (years)	15.0	
Activity Service Life (years)	10.0				10.0	
Activity Structural Life (years)	15.0			Activity Structural Life (years)	15.0	
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	2			Agency Maintenance Cost (\$1000)	2	
Work Zone Length (miles)	3.00			Work Zone Length (miles)	3.00	
Work Zone Speed Limit (mph)	50			Work Zone Speed Limit (mph)	50	
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number		24 have alask)		Time of Day of Lane Closures (use whole number		24 have alask)
Inbound	Start	End		Inbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
Third period of faile closure				Third period of faile closure		
Outbound	Start	End		Outbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
First period of larie closure				Second period of lane closure		
Second period of lane closure						
				Third period of lane closure		
Second period of lane closure Third period of lane closure				Third period of lane closure		
Second period of lane closure Third period of lane closure Activity 3		N DRAINAGE F	REHAB	Third period of lane closure Activity 3		N DRAINAGE REHAB
Second period of lane closure Third period of lane closure	MAJOR OPEN \$180.00	I DRAINAGE F	REHAB	Third period of lane closure	MAJOR OPEN	N DRAINAGE REHAB
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000)		I DRAINAGE F	REHAB	Third period of lane closure Activity 3 Agency Construction Cost (\$1000)		N DRAINAGE REHAB
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000)		I DRAINAGE F	REHAB	Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000)		N DRAINAGE REHAB
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)	\$180.00 30	I DRAINAGE F	REHAB	Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)		N DRAINAGE REHAB
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work	\$180.00 30	N DRAINAGE F	REHAB	Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor	\$180.00 30	N DRAINAGE REHAB
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)	\$180.00 30	N DRAINAGE F	REHAB	Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)		N DRAINAGE REHAB
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years)	\$180.00 30 k 1	I DRAINAGE F	REHAB	Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years)	\$180.00 30	N DRAINAGE REHAB
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years)	\$180.00 30 k 1 11.0	N DRAINAGE F	REHAB	Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years)	\$180.00 30 1 11.0	N DRAINAGE REHAB
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	\$180.00 30 k 1 11.0	N DRAINAGE F	REHAB	Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	\$180.00 30 1 11.0	N DRAINAGE REHAB
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	\$180.00 30 1 11.0 15.0 1	N DRAINAGE F	REHAB	Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	\$180.00 30 1 11.0 15.0 1	N DRAINAGE REHAB
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	\$180.00 30 k 1 11.0	≬ DRAINAGE F	REHAB	Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	\$180.00 30 1 11.0	N DRAINAGE REHAB
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	\$180.00 30 1 11.0 15.0 1	DRAINAGE F	REHAB	Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	\$180.00 30 1 11.0 15.0 1	N DRAINAGE REHAB
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Speed Limit (miles) Work Zone Speed Limit (mph)	\$180.00 30 1 11.0 15.0 1 2 3.00 50	V DRAINAGE F	REHAB	Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)	\$180.00 30 1 11.0 15.0 1 2 3.00 50	N DRAINAGE REHAB
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yehpl)	\$180.00 30 11.0 15.0 1 2 3.00 50 750	DRAINAGE F	REHAB	Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Capacity (yphpl)	\$180.00 30 11 11.0 15.0 1 2 3.00 50 750	N DRAINAGE REHAB
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (vphpl) Traffic Hourly Distribution	\$180.00 30 1 11.0 15.0 1 2 3.00 50 750 Week Day 1		REHAB	Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Adivity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vyhpl) Traffic Hourly Distribution	\$180.00 30 1 11.0 15.0 1 2 3.00 50 Week Day 1	
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yehpl)	\$180.00 30 1 11.0 15.0 1 2 3.00 50 750 Week Day 1		REHAB	Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Capacity (yphpl)	\$180.00 30 1 11.0 15.0 1 2 3.00 50 Week Day 1	
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Admintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourty Distribution Time of Day of Lane Closures (use whole number	\$180.00 30 1 11.0 15.0 1 2 3.00 50 750 Week Day 1 ers based on a		REHAB	Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	\$180.00 30 1 11.0 15.0 1 2 3.00 50 750 Week Day 1	24-hour clock)
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yehpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound	\$180.00 30 1 11.0 15.0 1 2 3.00 50 750 Week Day 1	24-hour clock)	REHAB	Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Structural Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound	\$180.00 30 1 11.0 15.0 1 2 3.00 50 Week Day 1	24-hour clock) End
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yehpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure	\$180.00 30 1 11.0 15.0 1 2 3.00 50 750 Week Day 1 ers based on a	24-hour clock)	REHAB	Activity 3 Agency Construction Cost (§1000) User Work Zone Costs (§1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (§1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vyhpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	\$180.00 30 1 11.0 15.0 1 2 3.00 50 750 Week Day 1	24-hour clock)
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure	\$180.00 30 1 11.0 15.0 1 2 3.00 50 750 Week Day 1 ers based on a	24-hour clock)	REHAB	Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Deped Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure	\$180.00 30 1 11.0 15.0 1 2 3.00 50 750 Week Day 1	24-hour clock) End
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yehpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure	\$180.00 30 1 11.0 15.0 1 2 3.00 50 750 Week Day 1 ers based on a	24-hour clock)	REHAB	Activity 3 Agency Construction Cost (§1000) User Work Zone Costs (§1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (§1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vyhpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	\$180.00 30 1 11.0 15.0 1 2 3.00 50 750 Week Day 1	24-hour clock) End
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure	\$180.00 30 1 11.0 15.0 1 2 3.00 50 750 Week Day 1 ers based on a	24-hour clock)	REHAB	Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Deped Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure	\$180.00 30 1 11.0 15.0 1 2 3.00 50 750 Week Day 1	24-hour clock) End
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Capacity (ryhpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$180.00 30 1 11.0 15.0 1 2 3.00 50 750 Week Day 1 ars based on a Start 7	24-hour clock) End 15	REHAB	Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vyhpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$180.00 30 11 11.00 15.0 12 3.00 50 750 Week Day 1 rs based on a Start 7	24-hour clock) End 15
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Admintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$180.00 30 1 11.0 15.0 1 2 3.00 50 750 Week Day 1 ers based on a	24-hour clock)	REHAB	Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Dead Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$180.00 30 1 11.0 15.0 1 2 3.00 50 750 Week Day 1	24-hour clock) End 15
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yehpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Toutbound First period of lane closure	\$180.00 30 1 11.0 15.0 1 2 3.00 50 750 Week Day 1 ars based on a Start 7	24-hour clock) End 15	REHAB	Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Opead Limit (mph) Work Zone Opeadity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	\$180.00 30 11 11.00 15.0 12 3.00 50 750 Week Day 1 rs based on a Start 7	24-hour clock) End 15
Second period of lane closure Third period of lane closure Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Admintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$180.00 30 1 11.0 15.0 1 2 3.00 50 750 Week Day 1 ars based on a Start 7	24-hour clock) End 15	REHAB	Activity 3 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Dead Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$180.00 30 11 11.00 15.0 12 3.00 50 750 Week Day 1 rs based on a Start 7	24-hour clock) End 15

Total Cost								
	Altern	ative 1	Alternative 2					
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)				
Undiscounted Sum	\$368.00	\$835.68	\$368.00	\$835.68				
Present Value	\$191.84	\$313.93	\$191.84	\$313.93				
EUAC	\$15.31	\$25.05	\$15.31	\$25.05				
Lowest Present Value	e Agency Cost	Alternative 1						
Lowest Present Value	e User Cost	Alternative 1						

INPUT WORKSHEET		
INFOT WORKSHELT		
1. Economic Variables		
Value of Time for Passenger Cars (\$/hour)	\$14.80	
Value of Time for Plassenger Cars (\$\text{\$\ext{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\ext{\$\texitil{\$\text{\$\exitit{\$\text{\$\exitit{\$\text{\$\texitet{\$\text{\$\}\$\text{\$\text{\$\text{\$\e	\$28.60	
Value of Time for Combination Trucks (\$/hour)	\$28.60	
value of Time for Combination Trucks (φ/nour)	φ20.00	
2. Analysis Options		
Include User Costs in Analysis	Yes	
Include User Costs in Analysis Include User Cost Remaining Life Value	Yes	
Use Differential User Costs	Yes	
	Calculated	
User Cost Computation Method	Yes	
Include Agency Cost Remaining Life Value Traffic Direction	Both	
Analysis Period (Years)	31	
Beginning of Analysis Period	2021	
Discount Rate (%)	7.0	
Number of Alternatives	2	
2 Project Patrile		
3. Project Details	ODOS	
State Route	SR63	
Project Name	State Route 63 Priority Segment	
Region	ОН	
County	Warren	
Analyzed By	Diana Martin	
Mileposts		
Begin	0.00	
End	3.00	
Length of Project (miles)	3.00	
Comments		
4. 7.05. 8.4.		
4. Traffic Data	20,000	
AADT Construction Year (total for both directions)	20,600	
Cars as Percentage of AADT (%)	91.0	
Single Unit Trucks as Percentage of AADT (%)	2.0	
Combination Trucks as Percentage of AADT (%)	7.0	
Annual Growth Rate of Traffic (%)	3.0	
Speed Limit Under Normal Operating Conditions (mph)	<u>55</u>	
	4	
No of Lanes in Each Direction During Normal Conditions	1	
No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl)	1 1500	
No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution	Rural	
No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution Queue Dissipation Capacity (vphpl)		
No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution	Rural	
No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution Queue Dissipation Capacity (vphpl)	Rural 1100	

Alternative 1	No Build - Ma	jor Shoulder Rehab 1	Alternative 2	No Build - Ma	jor Shoulder Reha	ab 2
Number of Activities	3	or Orlodider (Chab)	Number of Activities	3	Jor Cricaider (Cric	ub Z
Number of Activities	J		Number of Activities			
Activity 1	INITIAL BUILI		Activity 1	INITIAL BUIL	D	
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00		
User Work Zone Costs (\$1000)	\$0.00		User Work Zone Costs (\$1000)	\$0.00		
	0			0		
Work Zone Duration (days)	0		Work Zone Duration (days)	0		
No of Lanes Open in Each Direction During Work	0.5		No of Lanes Open in Each Direction During Wor			
Activity Service Life (years)	11.0		Activity Service Life (years)	11.0		
Activity Structural Life (years)	11.0		Activity Structural Life (years)	11.0		
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	11		Agency Maintenance Cost (\$1000)	11		
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00		
	25			25		
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)			
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500		
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole numbe	rs based on a	24-hour clock)	Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)	
Inbound	Start	End	Inbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure		·	Second period of lane closure		.0	
Third period of lane closure			Third period of lane closure			
0.00			2 "			
Outbound	Start	End	Outbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Tima ponda di lana diodulo			Tima ponda di iuno dioduro			
A attivity 2	MA IOD CLILL	OLDER REHAB	Activity 2	MA IOD CLILL	OLDER REHAB	
Activity 2		JEDER REHAB	Activity 2		T TER KEHAB	
Agency Construction Cost (\$1000)	\$123.00		Agency Construction Cost (\$1000)	\$123.00		
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)			
Work Zone Duration (days)	30		Work Zone Duration (days)	30		
No of Lanes Open in Each Direction During Work	0.5		No of Lanes Open in Each Direction During Wor	0.5		
Activity Service Life (years)	10.0		Activity Service Life (years)	10.0		
Activity Conventional Life (years)						
Activity Structural Life (years)	10.0		Activity Structural Life (years)	10.0		
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	11		Agency Maintenance Cost (\$1000)	11		
Work Zone Length (miles)	3.00		Work Zone Length (miles)	3.00		
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25		
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500		
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1		
		04			04	
Time of Day of Lane Closures (use whole numbe			Time of Day of Lane Closures (use whole number			
Inbound	Start	End	Inbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Outbound	Start	End	Outbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
	/	10		- /	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Activity 3	MAJOR SHU	OLDER REHAB	Activity 3	MAJOR SHU	OLDER REHAB	
Agency Construction Cost (\$1000)	\$123.00		Agency Construction Cost (\$1000)	\$123.00		
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)			
Work Zone Duration (days)	30		Work Zone Duration (days)	30		
No of Lanes Open in Each Direction During Work	0.5		No of Lanes Open in Each Direction During Wor	0.5		
Activity Service Life (years)	10.0		Activity Service Life (years)	10.0		
Activity Structural Life (years)	10.0		Activity Structural Life (years)	10.0		
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	11		Agency Maintenance Cost (\$1000)	11		
Work Zone Length (miles)	3.00		Work Zone Length (miles)	3.00		
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25		
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500		
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1		
		24 have alask)			O4 have alasts	
Time of Day of Lane Closures (use whole numbe			Time of Day of Lane Closures (use whole number			
Inbound	Start	End	Inbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
a ponoa or lano diodulo			Tima ponda di tana diadata			
Outbound	Ctt	End	Outbound	Ctant	End	
	Start	End		Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			

Total Cost								
	Altern	ative 1	Alternative 2					
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)				
Undiscounted Sum	\$554.00	\$3,226.79	\$554.00	\$3,226.79				
Present Value	\$216.76	\$1,149.86	\$216.76	\$1,149.86				
EUAC	\$17.30	\$91.76	\$17.30	\$91.76				
Lowest Present Value	e Agency Cost	Alternative 1						
Lowest Present Value	e User Cost	Alternative 1						

INI	PUT WORKSHEET		
114	FOI WORKSHEET		
1.	Economic Variables		
••	Value of Time for Passenger Cars (\$/hour)	\$14.80	
	Value of Time for Passenger Cars (\$\psi\nour)	\$28.60	
	Value of Time for Combination Trucks (\$/hour)	\$28.60	
	value of Time for Combination Trucks (ψ/nour)	Ψ20.00	
2.	Analysis Options		
	Include User Costs in Analysis	Yes	
	Include User Cost Remaining Life Value	Yes	
	Use Differential User Costs	Yes	
	User Cost Computation Method	Calculated	
	Include Agency Cost Remaining Life Value	Yes	
	Traffic Direction	Both	
	Analysis Period (Years)	31	
	Beginning of Analysis Period	2021	
	Discount Rate (%)	7.0	
	Number of Alternatives	2	
	INUITIDE OF AILEFFIALIVES		
3.	Project Details		
٥.	State Route	SR63	
	Project Name	State Route 63 Priority Segment	
	Region	OH	
	County	Warren	
	Analyzed By	Diana Martin	
	Mileposts	Diana Martin	
	•	0.00	
	Begin End	3.00	
		3.00	
	Length of Project (miles)	3.00	
	Comments		
4.	Traffic Data		
	AADT Construction Year (total for both directions)	20,600	
	Cars as Percentage of AADT (%)	91.0	
	Single Unit Trucks as Percentage of AADT (%)	2.0	
	Combination Trucks as Percentage of AADT (%)	7.0	
	Annual Growth Rate of Traffic (%)	3.0	
	Speed Limit Under Normal Operating Conditions (mph)	55	
	No of Lanes in Each Direction During Normal Conditions	1	
	Free Flow Capacity (vphpl)	1500	
	Rural or Urban Hourly Traffic Distribution	Rural	
	Queue Dissipation Capacity (vphpl)	1100	
	Maximum AADT (total for both directions)	40,000	
	Maximum Queue Length (miles)	1.0	

Alternative 1	4-Lane Undivi	ded - Guardrail Replacement 1	Alternative 2	4-Lane Undivi	ded - Guardrail Rep	olace
Number of Activities	3	uou Oddirdraii Nepiacement	Number of Activities	3	aca - Guardran Rep	
Training of Frederica	J		Tumbo of Hourido			
Activity 1	INITIAL BUILD)	Activity 1	INITIAL BUILD)	
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00		
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)			
Work Zone Duration (days)	0		Work Zone Duration (days)	0		
No of Lanes Open in Each Direction During Work	0.5		No of Lanes Open in Each Direction During Wor	0.5		
Activity Service Life (years)	10.0		Activity Service Life (years)	10.0		
Activity Structural Life (years)	10.0		Activity Structural Life (years)	10.0		
Maintenance Frequency (years)	0		Maintenance Frequency (years)	0		
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00		
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25		
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500		
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole numbe		24-hour clock)	Time of Day of Lane Closures (use whole number		24-hour clock)	
Inbound	Start	End	Inbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Outbound	Start	End	Outbound	Start	End	_
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			_
Third period of lane closure			Third period of lane closure			
a ported of fairle diedalle			Tima ponda or land dissuit			
Activity 2	GUARDRAIL	REPLACEMENT 1	Activity 2	GUARDRAII	REPLACEMENT 2	
Agency Construction Cost (\$1000)	\$77.00	ter er toement	Agency Construction Cost (\$1000)	\$77.00	TEL ENGLINEIT E	_
User Work Zone Costs (\$1000)	\$11.00		User Work Zone Costs (\$1000)	\$11.00		
Work Zone Duration (days)	20		Work Zone Duration (days)	20		
No of Lanes Open in Each Direction During Work	0.5		No of Lanes Open in Each Direction During Wor	0.5		
Activity Service Life (years)	18.0		Activity Service Life (years)	18.0		
	18.0			18.0		_
Activity Structural Life (years)	18.0		Activity Structural Life (years)			
Maintenance Frequency (years)	0		Maintenance Frequency (years)	0		
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	0.50		Work Zone Length (miles)	0.50		
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25		
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500		
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number			Time of Day of Lane Closures (use whole number			
Inbound	Start	End	Inbound	Start	End	
First period of lane closure	7	<u>15</u>	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Outbound	Start	End	Outbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Activity 3		REPLACEMENT 1	Activity 3	GUARDRAIL	REPLACEMENT 2	
Agency Construction Cost (\$1000)	\$77.00		Agency Construction Cost (\$1000)	\$77.00		
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)			
Work Zone Duration (days)	20		Work Zone Duration (days)	20		
No of Lanes Open in Each Direction During Work	0.5		No of Lanes Open in Each Direction During Wor	0.5		
Activity Service Life (years)	3.0		Activity Service Life (years)	3.0		
Activity Structural Life (years)	18.0		Activity Structural Life (years)	18.0		
Maintenance Frequency (years)	0		Maintenance Frequency (years)	0		
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	0.50		Work Zone Length (miles)	0.50		
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25		
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500		_
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1		_
Time of Day of Lane Closures (use whole numbe		24-hour clock)	Time of Day of Lane Closures (use whole number		24-hour clock)	_
Inbound	Start	End	Inbound	Start	End	_
First period of lane closure	7	15	First period of lane closure	7	15	_
Second period of lane closure	/	10	Second period of lane closure		10	_
Third period of lane closure			Third period of lane closure			_
i filira perioa di farie closure			i nira perioa di lane ciosure			_
Outh a und	Ctont	Fau	Outhound	Ctout	Fd	
Outbound	Start	End	Outbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			

Total Cost								
	Altern	ative 1	Alternative 2					
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)				
Undiscounted Sum	\$89.83	\$2,139.85	\$89.83	\$2,139.85				
Present Value	\$42.85	\$1,006.35	\$42.85	\$1,006.35				
EUAC	\$3.42	\$80.30	\$3.42	\$80.30				
Lowest Present Valu	e Agency Cost	Alternative 1						
Lowest Present Value	e User Cost	Alternative 1						

Construction				400		
Alternative 1		d - Overhead	Signs and Signa	Alternative 2	Baseline Build	l - Overhead Signs ar
Number of Activities	3			Number of Activities	3	
A - M-de - 4	INITIAL DUIL			4-4-4-4	INUTIAL DUM	
Activity 1	INITIAL BUILD	1		Activity 1	INITIAL BUILI	J I
Agency Construction Cost (\$1000)	\$0.00			Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0			Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Worl	0.5			No of Lanes Open in Each Direction During Wor	0.5	
Activity Service Life (years)	11.0			Activity Service Life (years)	11.0	
Activity Structural Life (years)	11.0			Activity Structural Life (years)	11.0	
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	6			Agency Maintenance Cost (\$1000)	6	
Work Zone Length (miles)	0.00			Work Zone Length (miles)	0.00	
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40	
Work Zone Speed Limit (mph) Work Zone Capacity (vphpl)				Work Zone Speed Limit (mph) Work Zone Capacity (vphpl)		
	750				750	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number				Time of Day of Lane Closures (use whole number		
Inbound	Start	End		Inbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
,				,		
Outbound	Start	End		Outbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
Second period of lane closure	- /	15		Second period of lane closure	-	10
Third period of lane closure				Third period of lane closure		
Activity 2	REPLACE OV	ERHEAD SIG	NS AND SIGNA	Activity 2	REPLACE O\	ERHEAD SIGNS AN
Agency Construction Cost (\$1000)	\$473.00			Agency Construction Cost (\$1000)	\$473.00	
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)		
Work Zone Duration (days)	6			Work Zone Duration (days)	6	
No of Lanes Open in Each Direction During Worl	0.5			No of Lanes Open in Each Direction During Wor	0.5	
Activity Service Life (years)	15.0			Activity Service Life (years)	15.0	
	15.0				15.0	
Activity Structural Life (years)	15.0			Activity Structural Life (years)	15.0	
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	6			Agency Maintenance Cost (\$1000)	6	
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10	
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number		24 hour alook)		Time of Day of Lane Closures (use whole number		24 hour clock)
Inbound	Start	End		Inhound		End
First period of lane closure	Start	EIIG			Start	Ella
	/	15		First period of lane closure		15
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
Outbound	Start	End		Outbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
Third period of faile closure				Tillia pelloa di lalle ciosare		
Activity 3	DEDLACE OF	/EDUEAD CIC	NS AND SIGNA	Activity 3	DEDLACE OF	/ERHEAD SIGNS AN
		I ENTEAU SIG	NO AND SIGNA			I SIGNS AN
Agency Construction Cost (\$1000)	\$473.00			Agency Construction Cost (\$1000)	\$473.00	
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)		
Work Zone Duration (days)	6			Work Zone Duration (days)	6	
No of Lanes Open in Each Direction During Worl	0.5			No of Lanes Open in Each Direction During Wor		
Activity Service Life (years)	5.0			Activity Service Life (years)	5.0	
Activity Structural Life (years)	15.0			Activity Structural Life (years)	15.0	
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)				Agency Maintenance Cost (\$1000)	6	
Work Zone Longth (miles)	0.10				0.10	
Work Zone Length (miles)				Work Zone Length (miles)		
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number	rs based on a	24-hour clock)		Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)
Inbound	Start	End		Inbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
Second period of lane closure		15		Second period of lane closure		10
Third period of lane closure				Third period of lane closure		
Outbound	Start	End		Outbound	Start	End
			1	First period of lane closure	7	15
First period of lane closure	7	15			/	10
	7	15		Second period of lane closure	- 1	10
First period of lane closure	7	15				10

Total Cost								
	Altern	ative 1	Alternat	ive 2				
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)				
Undiscounted Sum	\$761.13	\$335.31	\$761.13	\$335.31				
Present Value	\$330.38	\$145.53	\$330.38	\$145.53				
EUAC	\$26.62	\$11.73	\$26.62	\$11.73				
Lowest Present Value	e Agency Cost	Alternative 1						
Lowest Present Value	e User Cost	Alternative 1						

IND	PUT WORKSHEET		
IINE	OT WORKSHELT		
1.	Economic Variables		
	Value of Time for Passenger Cars (\$/hour)	\$14.80	
	Value of Time for Passenger Cars (\$\text{\pinour}) Value of Time for Single Unit Trucks (\$/hour)	\$28.60	
	Value of Time for Combination Trucks (\$/hour)	\$28.60	
	value of Time for Combination Trucks (\$\phi\text{nodi})	\$20.00	
2.	Analysis Options		
	Include User Costs in Analysis	Yes	
	Include User Costs in Analysis Include User Cost Remaining Life Value	Yes	
	Use Differential User Costs	Yes	
		Calculated	
	User Cost Computation Method	Yes	
	Include Agency Cost Remaining Life Value Traffic Direction	Both	
	Analysis Period (Years)	31	
	Beginning of Analysis Period	2021	
	Discount Rate (%)	7.0	
Γ	Number of Alternatives	2	
_	Duniont Dataile		
	Project Details	0.000	
	State Route	SR63	1
	Project Name	State Route 63 Priority Segm	ent
	Region	OH	
	County	Warren	
	Analyzed By	Diana Martin	
[Mileposts		
	Begin	0.00	
	End	3.00	
L	Length of Project (miles)	3.00	
(Comments		
	Treffic Deta		
4.	Traffic Data	20,000	
	AADT Construction Year (total for both directions)	20,600	
	Cars as Percentage of AADT (%)	91.0	
	Single Unit Trucks as Percentage of AADT (%)	2.0	
	Combination Trucks as Percentage of AADT (%)	7.0	
	Annual Growth Rate of Traffic (%)	7.0	
	Speed Limit Under Normal Operating Conditions (mph)	55	
	No of Lanes in Each Direction During Normal Conditions	1	
	Free Flow Capacity (vphpl)	1500	
	Rural or Urban Hourly Traffic Distribution	Rural	
	Queue Dissipation Capacity (vphpl)	1100	
-	Maximum AADT (total for both directions)	40,000	
	Maximum Queue Length (miles)	1.0	
ı	Maximum Queue Length (miles)	1.0	

Construction							
Alternative 1		d - Outages 1		Alternative 2	Baseline Build	l - Outages 2	
Number of Activities	16			Number of Activities	16		
Activity 1	SPOT INCIDI	ENT-CAUSED	REPAIR	Activity 1	SPOT INCIDE	NT-CAUSED F	REPAIR
Agency Construction Cost (\$1000)	\$55.00			Agency Construction Cost (\$1000)	\$55.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	1.00E+00	1		Work Zone Duration (days)	1		
No of Lanes Open in Each Direction During Wor	0.5			No of Lanes Open in Each Direction During Wor	0.5		
Activity Service Life (years)	2.0			Activity Service Life (years)	2.0		
Activity Structural Life (years)	0.0			Activity Structural Life (years)	0.0		
Maintenance Frequency (years)	0	1		Maintenance Frequency (years)	0		
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10		
Work Zone Speed Limit (mph)	25			Work Zone Speed Limit (mph)	25		
Work Zone Capacity (vphpl)	500			Work Zone Capacity (vphpl)	500		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number		24-hour clock)	Time of Day of Lane Closures (use whole number		24-hour clock)	
Inbound	Start	End	,	Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure		- 10		Second period of lane closure		10	
Third period of lane closure				Third period of lane closure			
Third period of faile diodate			_	Third period of faile diodate			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	Otal t	LIIU		First period of lane closure	otait 7	LIIU 15	
		10	<u>'</u>		- '	10	
Second period of lane closure			_	Second period of lane closure Third period of lane closure			
Third period of lane closure				Tilliu periou di falle ciosule			
Activity 2	SDOT INCIDI	ENT-CAUSED	DEDAIR	Activity 2	SDOT INCIDE	NT-CAUSED F	DEDAID
Activity 2 Agency Construction Cost (\$1000)	SEC CO	T -CAUSED	NEFAIR		¢EE 00	IN I-CHUSED I	CEAIR
	φ35.00	1		Agency Construction Cost (\$1000)	φο5.00		
User Work Zone Costs (\$1000)		1		User Work Zone Costs (\$1000)			
Work Zone Duration (days)	1			Work Zone Duration (days)	0.5		
No of Lanes Open in Each Direction During Wor		-		No of Lanes Open in Each Direction During Wor			
Activity Service Life (years)	2.0	-		Activity Service Life (years)	2.0		
Activity Structural Life (years)	0.0			Activity Structural Life (years)	0.0		
Maintenance Frequency (years)	0			Maintenance Frequency (years)	0		
Agency Maintenance Cost (\$1000)	0 10	 		Agency Maintenance Cost (\$1000)	0 10		
Work Zone Length (miles)	0.10	4		Work Zone Length (miles)	0.10		
Work Zone Speed Limit (mph)	25	i		Work Zone Speed Limit (mph)	25		
Work Zone Capacity (vphpl)	500	1		Work Zone Capacity (vphpl)	500		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)	Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)	
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15	5	First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
·				·			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15	5	First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
·							
Activity 3	SPOT INCIDI	ENT-CAUSED	REPAIR	Activity 3	SPOT INCIDE	NT-CAUSED F	REPAIR
Activity 3 Agency Construction Cost (\$1000)	SPOT INCIDI	ENT-CAUSED	REPAIR	Activity 3 Agency Construction Cost (\$1000)	SPOT INCIDE \$55.00	NT-CAUSED F	REPAIR
		ENT-CAUSED	REPAIR		SPOT INCIDE \$55.00	NT-CAUSED F	REPAIR
Agency Construction Cost (\$1000)		ENT-CAUSED	REPAIR	Agency Construction Cost (\$1000)	\$55.00	NT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)	\$55.00 1	ENT-CAUSED	REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)	\$55.00 \$55.00	NT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor	\$55.00 1	ENT-CAUSED	REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor	\$55.00 1	NT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years)	\$55.00 1 0.5		REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years)	\$55.00 1 0.5 2.0	NT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years)	\$55.00 1 0.5 2.0 0.0		REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years)	\$55.00 1 0.5 2.0 0.0	NT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	\$55.00 1 0.5 2.0 0.0 0		REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	\$55.00 1 0.5 2.0 0.0	NT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	\$55.00 1 0.5 2.0 0.0 0 0		REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	\$55.00 1 0.5 2.0 0.0 0 0	NT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	\$55.00 1 8 0.5 2.0 0.0 0 0 0.10		REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	\$55.00 1 1 0.5 2.0 0.0 0 0 0.10	NT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)	\$55.00 1 0.5 2.0 0.0 0 0		REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)	\$55.00 1 0.5 2.0 0.0 0 0	:NT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl)	\$55.00 1 0.05 2.0 0.0 0 0 0.10 25 500		REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl)	\$55.00 1 0.55 2.0 0.0 0 0 0.10 25 500	NT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (milles) Work Zone Length (milles) Work Zone Capacity (yphpl) Traffic Hourly Distribution	\$55.00 1 1 0.5 2.0 0.0 0 0.1 25 500 Week Day 1			Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution	\$55.00 1 0.5 2.0 0.0 0 0 0.10 25 500 Week Day 1		REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number	\$55.00 1 0.5 2.0 0.0 0 0.10 25 500 Week Day 1	24-hour clock		Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (ryphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number	\$55.00 1 1 0.5 2.0 0.0 0 0 0.10 25 500 Week Day 1 ors based on a	24-hour clock)	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Cost (\$1000) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound	\$55.00 1 1 0.5 2.0 0.0 0 0.1 25 500 Week Day 1	24-hour clock End		Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yehpi) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	\$55.00 1 0.5 2.0 0.0 0 0 0.10 25 500 Week Day 1	24-hour clock) End	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (milles) Work Zone Length (milles) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	\$55.00 1 0.5 2.0 0.0 0 0.10 25 500 Week Day 1	24-hour clock		Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	\$55.00 1 1 0.5 2.0 0.0 0 0 0.10 25 500 Week Day 1 ors based on a	24-hour clock)	REPAIR
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Activity 5	SPOT INCIDE	NT-CAUSED	REPAIR	Activity 5	SPOT INCIDE	NT-CAUSED F	REPAIR
Agency Construction Cost (\$1000)	\$55.00			Agency Construction Cost (\$1000)	\$55.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	1			Work Zone Duration (days)	1		
No of Lanes Open in Each Direction During Work	0.5			No of Lanes Open in Each Direction During Work	0.5		
Activity Service Life (years)	2.0			Activity Service Life (years)	2.0		
Activity Structural Life (years)	0.0			Activity Structural Life (years)	0.0		
Maintenance Frequency (years)	0			Maintenance Frequency (years)	0.0		
	0			Agency Maintenance Cost (\$1000)	0		
Agency Maintenance Cost (\$1000)							
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10		
Work Zone Speed Limit (mph)	25			Work Zone Speed Limit (mph)	25		
Work Zone Capacity (vphpl)	500			Work Zone Capacity (vphpl)	500		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)		Time of Day of Lane Closures (use whole numbe	rs based on a	24-hour clock)	
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Tilliu pellou of falle closure				Third period of falle closure			
	·			0.11	O		
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Activity 6	SPOT INCIDE	NT-CAUSED	REPAIR	Activity 6	SPOT INCIDE	NT-CAUSED F	REPAIR
Agency Construction Cost (\$1000)	\$55.00			Agency Construction Cost (\$1000)	\$55.00		
User Work Zone Costs (\$1000)	\$00.00			User Work Zone Costs (\$1000)	+00.00		
	4				4		
Work Zone Duration (days)	0.5			Work Zone Duration (days)	1		
No of Lanes Open in Each Direction During Work		-		No of Lanes Open in Each Direction During Work	0.5		
Activity Service Life (years)	2.0			Activity Service Life (years)	2.0		
Activity Structural Life (years)	0.0			Activity Structural Life (years)	0.0		
Maintenance Frequency (years)	0			Maintenance Frequency (years)	0		
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10		
Work Zone Speed Limit (mph)	25			Work Zone Speed Limit (mph)	25		
Work Zone Capacity (vphpl)	500			Work Zone Capacity (vphpl)	500		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
		24 hour starts		Time of Day of Lane Closures (use whole numbe		24 hour elects	
Time of Day of Lane Closures (use whole numbe							
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
<u>'</u>				-			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
		15			- /	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Activity 7	SPOT INCIDE	NT-CAUSED	REPAIR	Activity 7	SPOT INCIDE	NT-CAUSED F	REPAIR
Agency Construction Cost (\$1000)	\$55.00			Agency Construction Cost (\$1000)	\$55.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	1			Work Zone Duration (days)	1		
No of Lanes Open in Each Direction During Work	0.5			No of Lanes Open in Each Direction During Work	0.5		
Activity Service Life (years)	2.0			Activity Service Life (years)	2.0		
	0.0				0.0		
Activity Structural Life (years)				Activity Structural Life (years)			
Maintenance Frequency (years)	0			Maintenance Frequency (years)	0		
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10		
Work Zone Speed Limit (mph)	25			Work Zone Speed Limit (mph)	25		
Work Zone Capacity (vphpl)	500			Work Zone Capacity (vphpl)	500		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole numbe		24-hour clock)		Time of Day of Lane Closures (use whole numbe		24-hour clock)	
Inbound	Start	End		Inbound	Start	End	
	Jidit			First period of lane closure	Oldit		
First period of lane closure	- /	15			/	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
· · · · · · · · · · · · · · · · · · ·							
			DEDAID		SPOT INCIDE	NT-CAUSED F	REPAIR
Activity 8	SPOT INCIDE	NT-CAUSED	REPAIR	Activity 8			
Activity 8 Agency Construction Cost (\$1000)	SPOT INCIDE	NT-CAUSED	REPAIR	Activity 8 Agency Construction Cost (\$1000)			
Agency Construction Cost (\$1000)		NT-CAUSED	REPAIR	Agency Construction Cost (\$1000)	\$55.00		
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000)		NT-CAUSED	REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000)			
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)	\$55.00 1	ENT-CAUSED	REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)	\$55.00 1		
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work	\$55.00 1 0.5	ENT-CAUSED	REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work	\$55.00 1 0.5		
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years)	\$55.00 1 0.5 2.0	ENT-CAUSED	REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years)	\$55.00 1 0.5 2.0		
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years)	\$55.00 1 0.5 2.0 0.0	ENT-CAUSED	KEPAIK	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years)	\$55.00 1 0.5 2.0 0.0		
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	\$55.00 1 0.5 2.0 0.0 0	ENT-CAUSED	KEPAIK	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	\$55.00 1 0.5 2.0 0.0 0		
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	\$55.00 1 0.5 2.0 0.0 0		KEPAIK	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	\$55.00 1 0.5 2.0 0.0 0		
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	\$55.00 1 0.5 2.0 0.0 0		KEPAIK	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	\$55.00 1 0.5 2.0 0.0 0		
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	\$55.00 1 4 0.5 2.0 0.0 0 0 0 0.10		REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	\$55.00 1 0.5 2.0 0.0 0 0 0.10		
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)	\$55.00 1 0.5 2.00 0.00 0 0 0.10 25		REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)	\$55.00 1 0.5 2.0 0.0 0 0 0.10 25		
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl)	\$55.00 1 0.55 2.0 0.0 0 0 0.10 25 500		REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yphpl)	\$55.00 1 0.5 2.0 0.0 0 0 0.10 25 500		
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Servicurual Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution	\$55.00 1 0.5 2.0 0.0 0 0 0.10 25 500 Week Day 1			Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution	\$55.00 1 0.5 2.0 0.0 0 0 0.10 25 500 Week Day 1	24 Laur	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Servicural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	\$55.00 1 0.5 2.0 0.0 0 0.10 25 500 Week Day 1 rs based on a	24-hour clock)		Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	\$55.00 1 0.5 2.0 0.0 0 0 0.10 25 500 Week Day 1 rs based on a		
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	\$55.00 1 0.5 2.0 0.0 0 0 0.10 25 500 Week Day 1			Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Deped Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound	\$55.00 1 0.5 2.0 0.0 0 0 0.10 25 500 Week Day 1	24-hour clock) End	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Servicural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	\$55.00 1 0.5 2.0 0.0 0 0.10 25 500 Week Day 1 rs based on a	24-hour clock)		Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	\$55.00 1 0.5 2.0 0.0 0 0 0.10 25 500 Week Day 1 rs based on a		
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	\$55.00 1 0.5 2.0 0.0 0 0.10 25 500 Week Day 1 rs based on a	24-hour clock) End		Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Deped Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound	\$55.00 1 0.5 2.0 0.0 0 0 0.10 25 500 Week Day 1 rs based on a	End	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Adency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (typhpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure	\$55.00 1 0.5 2.0 0.0 0 0.10 25 500 Week Day 1 rs based on a	24-hour clock) End		Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yr)ph) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure	\$55.00 1 0.5 2.0 0.0 0 0 0.10 25 500 Week Day 1 rs based on a	End	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	\$55.00 1 0.5 2.0 0.0 0 0.10 25 500 Week Day 1 rs based on a	24-hour clock) End		Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	\$55.00 1 0.5 2.0 0.0 0 0 0.10 25 500 Week Day 1 rs based on a	End	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Servicurual Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$55.00 1 0.5 2.0 0.0 0 0.0 0 0.10 25 500 Week Day 1 rs based on a Start 7	24-hour clock) End		Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$55.00 1 0.5 2.0 0.0 0.0 0.10 25 500 Week Day 1 rs based on a Start 7	End 15	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (vphpl) Traffice Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$55.00 1 0.5 2.0 0.0 0 0.10 25 500 Week Day 1 rs based on a	24-hour clock) End		Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Structural Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yrphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$55.00 1 0.5 2.0 0.0 0 0 0.10 25 500 Week Day 1 rs based on a	End 15 End	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$55.00 1 0.5 2.0 0.0 0 0.0 0 0.10 25 500 Week Day 1 rs based on a Start 7	24-hour clock) End		Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Advityl Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Deed Limit (mph) Work Zone Ocapacity (yephpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure	\$55.00 1 0.5 2.0 0.0 0.0 0.10 25 500 Week Day 1 rs based on a Start 7	End 15	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Servicural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpi) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Outbound First period of lane closure Second period of lane closure	\$55.00 1 0.5 2.0 0.0 0 0.0 0 0.10 25 500 Week Day 1 rs based on a Start 7	24-hour clock) End		Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure	\$55.00 1 0.5 2.0 0.0 0.0 0.10 25 500 Week Day 1 rs based on a Start 7	End 15 End	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$55.00 1 0.5 2.0 0.0 0 0.0 0 0.10 25 500 Week Day 1 rs based on a Start 7	24-hour clock) End		Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Advityl Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Deed Limit (mph) Work Zone Ocapacity (yephpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure	\$55.00 1 0.5 2.0 0.0 0.0 0.10 25 500 Week Day 1 rs based on a Start 7	End 15 End	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Service Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Gapacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure	\$55.00 1 0.5 2.0 0.0 0 0.10 25 5000 Week Day 1 rs based on a Start 7	24-hour clock) End 15 End 15		Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Advity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Capacity (ryhpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure	\$55.00 1 0.5 2.0 0.0 0 0.10 25 500 Week Day 1 rs based on a : Start 7	End 15 End 15	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Servicural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpi) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Outbound First period of lane closure Second period of lane closure	\$55.00 1 0.5 2.0 0.0 0 0.10 25 5000 Week Day 1 rs based on a Start 7	24-hour clock) End		Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure	\$55.00 1 0.5 2.0 0.0 0 0.10 25 500 Week Day 1 rs based on a : Start 7	End 15 End	REPAIR

User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor						
Work Zone Duration (days)			User Work Zone Costs (\$1000)			
	1		Work Zone Duration (days)	1		
or Europ Open in Each Direction Duffing Wor	k 0.5		No of Lanes Open in Each Direction During W	orl 0.5		
Activity Service Life (years)	2.0		Activity Service Life (years)	2.0		
Activity Structural Life (years)	0.0		Activity Structural Life (years)	0.0		
Maintenance Frequency (years)	0		Maintenance Frequency (years)	0		
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	0.10		Work Zone Length (miles)	0.10		
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25		
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500		
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole numb	ers based on a	24-hour clock)	Time of Day of Lane Closures (use whole num	bers based on a	24-hour clock)	
Inbound	Start	End	Inbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Outbound	Start	End	Outbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Activity 10	SPOT INCIDE	NT-CAUSED	REPAIR Activity 10	SPOT INCIDE	ENT-CAUSED REF	PAIR
Agency Construction Cost (\$1000)	\$55.00		Agency Construction Cost (\$1000)	\$55.00		
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)			
Work Zone Duration (days)	1		Work Zone Duration (days)	1		
No of Lanes Open in Each Direction During Wor	k 0.5		No of Lanes Open in Each Direction During W	ork 0.5		
Activity Service Life (years)	2.0		Activity Service Life (years)	2.0		
Activity Structural Life (years)	0.0		Activity Structural Life (years)	0.0		
Maintenance Frequency (years)	0		Maintenance Frequency (years)	0		
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	0.10		Work Zone Length (miles)	0.10		
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25		
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500		
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole numb	ers based on a	24-hour clock)	Time of Day of Lane Closures (use whole num	bers based on a	24-hour clock)	
Inbound	Start	End	Inbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Outbound	Start	End	Outbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
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Activity 11	SPOT INCIDE	NT-CAUSED	REPAIR Activity 11	SPOT INCIDE	NT-CAUSED REP	PAIR
Agency Construction Cost (\$1000)	\$55.00		Agency Construction Cost (\$1000)	\$55.00		
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)			
Work Zone Duration (days)	1		Work Zone Duration (days)	1		
No of Lanes Open in Each Direction During Wo	k 0.5		No of Lanes Open in Each Direction During W	orl 0.5		
Activity Service Life (years)	2.0		Activity Service Life (years)	2.0		
Activity Structural Life (years)	0.0		Activity Structural Life (years)	0.0		
	0.0		Maintenance Frequency (years)			
Maintenance Frequency (years)				0		
Maintenance Frequency (years)				0		
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0		
Agency Maintenance Cost (\$1000) Work Zone Length (miles)	0.10		Agency Maintenance Cost (\$1000) Work Zone Length (miles)	0 0.10		
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)	0.10 25		Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)	0.10 25		
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl)	0 0.10 25 500		Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl)	0 0.10 25 500		
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution	0.10 25 500 Week Day 1	24 have aloud	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution	0 0.10 25 500 Week Day 1		
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb	0 0.10 25 500 Week Day 1 ers based on a		Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num	0 0.10 25 500 Week Day 1 bers based on a	24-hour clock)	
Agency Maintenance Cost (\$1000) Work Zone Length (milles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound	0.10 25 500 Week Day 1	End	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound	0 0.10 25 500 Week Day 1	24-hour clock) End	
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure	0 0.10 25 500 Week Day 1 ers based on a		Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure	0 0.10 25 500 Week Day 1 bers based on a	24-hour clock)	
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure	0 0.10 25 500 Week Day 1 ers based on a	End	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure	0 0.10 25 500 Week Day 1 bers based on a	24-hour clock) End	
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure	0 0.10 25 500 Week Day 1 ers based on a	End	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure	0 0.10 25 500 Week Day 1 bers based on a	24-hour clock) End	
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure	0.10 25 500 Week Day 1 ers based on a Start 7	End 15	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure Third period of lane closure	0 0.10 25 500 Week Day 1 bers based on a Start 7	24-hour clock) End 15	
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	0 0.10 25 500 Week Day 1 ers based on a	End 15 End	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	0 0.10 25 500 Week Day 1 bers based on a	24-hour clock) End 15	
Agency Maintenance Cost (\$1000) Work Zone Length (milles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	0.10 25 500 Week Day 1 ers based on a Start 7	End 15	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	0 0.10 25 500 Week Day 1 bers based on a Start 7	24-hour clock) End 15	
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	0.10 25 500 Week Day 1 ers based on a Start 7	End 15 End	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure	0 0.10 25 500 Week Day 1 bers based on a Start 7	24-hour clock) End 15	
Agency Maintenance Cost (\$1000) Work Zone Length (milles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	0.10 25 500 Week Day 1 ers based on a Start 7	End 15 End	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	0 0.10 25 500 Week Day 1 bers based on a Start 7	24-hour clock) End 15	
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure	0 0.10 2.55 500 Week Day 1 ers based on a Start 7 Start 7	End 15 End 15	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure	0 0.10 2.55 500 Week Day 1 bers based on a Start 7	24-hour clock) End 15 End 15	PAIR
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Activity 12	0 0.10 2.55 500 Week Day 1 ers based on a Start 7 Start 7	End 15 End	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure	0 0.10 2.55 500 Week Day 1 bers based on a Start 7	24-hour clock) End 15	PAIR
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure	0 0.10 2.55 5.00 Week Day 1 ers based on a Start 7 Start 7 Start 7 SPOT INCIDE	End 15 End 15	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure	0 0.10 25 500 Week Day 1 Ders based on a Start 7 Start 7 SPOT INCIDE	24-hour clock) End 15 End 15	PAIR
Agency Maintenance Cost (\$1000) Work Zone Length (milles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 12 Agency Construction Cost (\$1000)	0 0.10 2.55 5.00 Week Day 1 ers based on a Start 7 Start 7 Start 7 SPOT INCIDE	End 15 End 15	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 12 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000)	0 0.10 25 500 Week Day 1 Ders based on a Start 7 Start 7 SPOT INCIDE	24-hour clock) End 15 End 15	PAIR
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Activity 12 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)	0 0.10 2.55 5.00 Week Day 1 ers based on a Start 7 Start 7 Start 7 SPOT INCIDE \$55.00	End 15 End 15	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure County Distribution Activity 12 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)	0 0.10 256 500 Week Day 1 1 bers based on a Start 7 Start 7 SPOT INCIDE \$55.00	24-hour clock) End 15 End 15	PAIR
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 12 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work	0 0.10 2.55 500 Week Day 1 ers based on a Start 7 Start 7 SPOT INCIDE \$55.00	End 15 End 15	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure	0 0.10 2.15 5.00 Week Day 1 Ders based on a Start 7 Start 7 SPOT INCIDE \$55.00	24-hour clock) End 15 End 15	PAIR
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 12 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years)	0 0.10 2.55 5.00 Week Day 1 ers based on a Start 7 Start 7 SPOT INCIDE \$55.00 1 1 0.55 2.0	End 15 End 15	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure	0 0.10 25 500 Week Day 1 Ders based on a Start 7 Start 7 SPOT INCIDE \$55.00 1 1 014 0.55	24-hour clock) End 15 15 End 15 End 15	PAIR
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Outbound First period of lane closure Outbound First period of lane closure Second period of lane closure Activity 12 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years)	0 0.10 255 500 Week Day 1 ers based on a Start 7 Start 7 Start 555.00 1 1 0.5 2.0 0.00	End 15 End 15	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 12 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During W Activity Service Life (years) Activity Structural Life (years)	0 0.10 265 5000 Week Day 1 Ders based on a Start 7 Start 7 SPOT INCIDE \$55.00 1 0.5 2.0 0.0	24-hour clock) End 15 15 End 15 NT-CAUSED REF	PAIR
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 12 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Service Life (years) Maintenance Frequency (years)	0 0.10 2.55 500 Week Day 1 ers based on a Start 7 Start 7 SPOT INCIDE \$55.00 1 1 0.00 0	End 15 End 15	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure Outbound First period of lane closure First period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure	0 0.10 2.55 500 Week Day 1 bers based on a Start 7 Start 7 SPOT INCIDE \$55.00 1 00 0.00	24-hour clock) End 15 End 15 End 15	PAIR
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Outbound First period of lane closure Second period of lane closure Activity 12 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	0 0.10 255 500 Week Day 1 ers based on a Start 7 Start 7 SPOT INCIDE \$55.00 11 8 0.5 2.0 0.0 0	End 15 End 15	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Activity 12 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During W Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	0 0.10 25 500 Week Day 1 27 Start 7 Start 7 SPOT INCIDE \$55.00 10 10 0.0 0 0 0	24-hour clock) End 15 End 15 End 15	PAIR
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Activity 12 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	0 0.10 0.10 255 500 Week Day 1 7 Start 7 Start 7 SSPOT INCIDE \$55.00 1 0.00 0.00	End 15 End 15	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Activity 12 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During W Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	0 0.10 255 5000 Week Day 1 Ders based on a Start 7 Start Start 7 SPOT INCIDE \$55.00 1 0.50 0.00 0.00 0.10	24-hour clock) End 15 End 15 End 15	PAIR
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Outbound First period of lane closure Outbound First period of lane closure Second period of lane closure First period of lane closure Second period of lane closure Second period of lane closure Activity 12 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Structural Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Deved Limit (mph)	0 0.10 2.55 5.00 Week Day 1 ers based on a Start 7 Start 7 SPOT INCIDE \$55.00 4 1 9.0.55 2.0 0.0 0 0.10 0.10 2.55	End 15 End 15	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure Geomy Period of lane closure Outbound First period of lane closure First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Activity 12 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During W Activity Service Life (years) Activity Service Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Loged Limit (mph)	0 0.10	24-hour clock) End 15 End 15 End 15	PAIR
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Activity 12 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Agency Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph)	0 0.10 255 500 Week Day 1 ers based on a Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 1 9 0.5 2.0 0.0 0 0.10 255 500	End 15 End 15	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Activity 12 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During W Activity Service Life (years) Activity Service Life (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Capacity (vphpl)	0 0.10 25 500 Week Day 1 25 Start 7 Start 7 SPOT INCIDE \$55.00 0 0.00 0 0.10 25 500	24-hour clock) End 15 End 15 End 15	PAIR
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 12 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Traffic Hourly Distribution	0 0.10 255 500 Week Day 1 Start 7 Start Start 7 SSPOT INCIDE \$55.00 0.0 0.0 0.10 25 500 Week Day 1	End 15 End 15 NT-CAUSED	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Second period of lane closure User Work Zone Costs (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During W Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution	0 0.10 25 500 Week Day 1 bers based on a Start 7 Start 7 SPOT INCIDE \$55.00 0.00 0.01 0.00 0.01 0.00 Week Day 1	24-hour clock) End 15 End 15 End NT-CAUSED REF	PAIR
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Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 12 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Speed Limit (mph) Work Zone Capacity (yrphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure	0 0.10 255 500 Week Day 1 Pers based on a Start 7 Start 7 SPOT INCIDE \$55.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End 15 End 15 NT-CAUSED 24-hour clock) End 15 End 15	Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of Iane closure Second period of Iane closure Third period of Iane closure Second period of Iane closure Second period of Iane closure Third period of Iane closure Second period of Iane closure Third period of Iane closure Second period of Iane closure Third period of Iane closure Activity 12 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During W Activity Service Life (years) Activity Service Life (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole num Inbound First period of Iane closure Second period of Iane closure Third period of Iane closure Third period of Iane closure Second period of Iane closure Third period of Iane closure	0 0.10	24-hour clock) End 15 End 15 End 15 ATT-CAUSED REF	

Activity Service Life (years) Activity Structural Life (years)	2.0		Activity Service Life (years)	0.0	
	2.0		Activity Service Life (years)	2.0	
	0.0		Activity Structural Life (years)	0.0	
Maintenance Frequency (years)	0		Maintenance Frequency (years)	0	
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0	
Work Zone Length (miles)	0.10		Work Zone Length (miles)	0.10	
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25	
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500	
Traffic Hourly Distribution	Week Day 1			Veek Day 1	
Time of Day of Lane Closures (use whole number			Time of Day of Lane Closures (use whole numbers		
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Outbound	Start	End	Outbound	Stort	End
	Start			Start	
First period of lane closure	/	15	First period of lane closure	/	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Activity 14	SPOT INCIDE	NT-CAUSED	REPAIR Activity 14 S	SPOT INCIDE	NT-CAUSED REPA
Agency Construction Cost (\$1000)	\$55.00	I	Agency Construction Cost (\$1000)	\$55.00	TT ONOOLD HELY
	\$55.00			\$55.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	1		Work Zone Duration (days)	1	
No of Lanes Open in Each Direction During Worl	0.5		No of Lanes Open in Each Direction During Work	0.5	
Activity Service Life (years)	2.0		Activity Service Life (years)	2.0	
Activity Structural Life (years)	0.0		Activity Structural Life (years)	0.0	
	0.0			0.0	
Maintenance Frequency (years)			Maintenance Frequency (years)		
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0	
Work Zone Length (miles)	0.10		Work Zone Length (miles)	0.10	
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25	
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500	
Traffic Hourly Distribution	Week Day 1	1		Veek Day 1	
Time of Day of Lane Closures (use whole number		24 hour clocks	Time of Day of Lane Closures (use whole numbers		24 hour clock)
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Third ported of fairle disease			Tima period of faile electric		
Outbound	011	For d	Outhoused	044	E. d
	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Activity 15	SDOT INCIDE	NT-CAUSED	REPAIR Activity 15	SPOT INCIDE	NT-CAUSED REPA
		I			INT-CAUSED REF
Agency Construction Cost (\$1000)	\$55.00		Agency Construction Cost (\$1000)	\$55.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
User Work Zone Costs (\$1000)	1			1	
User Work Zone Costs (\$1000) Work Zone Duration (days)	0.5		Work Zone Duration (days)	1 0.5	
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl			Work Zone Duration (days) No of Lanes Open in Each Direction During Work	1 0.5	
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years)	2.0		Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years)	2.0	
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years)	2.0 0.0		Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years)	2.0 0.0	
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	2.0 0.0 0		Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	2.0 0.0 0	
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years)	2.0 0.0		Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years)	2.0 0.0	
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	2.0 0.0 0		Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	2.0 0.0 0	
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	2.0 0.0 0 0 0.10		Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	2.0 0.0 0 0 0 0.10	
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)	2.0 0.0 0 0 0.10 25		Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)	2.0 0.0 0 0 0.10 25	
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yphpl)	2.0 0.0 0 0 0.10 25 500		Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl)	2.0 0.0 0 0 0.10 25 500	
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Traffic Hourly Distribution	2.0 0.0 0 0 0.10 25 500 Week Day 1		Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution W	2.0 0.0 0 0 0.10 25 500 Veek Day 1	
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	2.0 0.0 0 0 0.10 25 500 Week Day 1 ors based on a		Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Deped Limit (mph) Work Zone Capacity (yhph) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbers	2.0 0.0 0 0 0.10 25 500 Veek Day 1 s based on a 2	
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	2.0 0.0 0 0 0.10 25 500 Week Day 1	24-hour clock) End	Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbers Inbound	2.0 0.0 0 0 0.10 25 500 Veek Day 1	24-hour clock) End
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	2.0 0.0 0 0 0.10 25 500 Week Day 1 ors based on a		Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Deped Limit (mph) Work Zone Capacity (yhph) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbers	2.0 0.0 0 0 0.10 25 500 Veek Day 1 s based on a 2	
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	2.0 0.0 0 0 0.10 25 500 Week Day 1 ors based on a	End	Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Openacity (yehpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbers Inbound First period of lane closure	2.0 0.0 0 0 0.10 25 500 Veek Day 1 s based on a 2	End
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yohpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure	2.0 0.0 0 0 0.10 25 500 Week Day 1 ors based on a	End	Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Deed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbers Inbound First period of lane closure Second period of lane closure	2.0 0.0 0 0 0.10 25 500 Veek Day 1 s based on a 2	End
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	2.0 0.0 0 0 0.10 25 500 Week Day 1 ors based on a	End	Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Openacity (yehpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbers Inbound First period of lane closure	2.0 0.0 0 0 0.10 25 500 Veek Day 1 s based on a 2	End
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User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yohpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inhound First period of lane closure Second period of lane closure Third period of lane closure	2.0 0.0 0 0 0.10 25 500 Week Day 1 ors based on a	End 15	Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Deed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbers Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	2.0 0.0 0 0 0.10 25 500 Veek Day 1 s based on a 2	End 15 End
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Exped Limit (mph) Work Zone Speed Limit (mph) Work Zone Capacity (yphpi) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	2.0 0.0 0 0 0 0.10 25 500 Week Day 1 rs based on a Start	End 15	Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbers Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure First period of lane closure	2.0 0.0 0 0 0.10 25 500 Veek Day 1 s based on a 2 Start	End 15
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yohpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inhound First period of lane closure Second period of lane closure Third period of lane closure	2.0 0.0 0 0 0 0.10 25 500 Week Day 1 rs based on a Start	End 15	Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Deed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbers Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	2.0 0.0 0 0 0.10 25 500 Veek Day 1 s based on a 2 Start	End 15 End
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yehpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure	2.0 0.0 0 0 0 0.10 25 500 Week Day 1 rs based on a Start	End 15	Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Deed Limit (mph) Work Zone Capacity (yhph) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbers Inbound First period of lane closure Second period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure	2.0 0.0 0 0 0.10 25 500 Veek Day 1 s based on a 2 Start	End 15 End
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Exped Limit (mph) Work Zone Speed Limit (mph) Work Zone Capacity (yphpi) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	2.0 0.0 0 0 0 0.10 25 500 Week Day 1 rs based on a Start	End 15	Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbers Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure First period of lane closure	2.0 0.0 0 0 0.10 25 500 Veek Day 1 s based on a 2 Start	End 15 End
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Total Cost								
	Altern	ative 1	Alternat	ive 2				
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)				
Undiscounted Sum	\$880.00	\$770.74	\$880.00	\$770.74				
Present Value	\$384.71	\$326.98	\$384.71	\$326.98				
EUAC	\$30.70	\$26.09	\$30.70	\$26.09				
Lowest Present Value	e Agency Cost	Alternative 1						
Lowest Present Value	e User Cost	Alternative 1						

REALCOST INPUT AND RESULTS 4-LANE UNDIVIDED SCENARIO

INPUT WORKSHEET	
INFOT WORKSTILLT	
1. Economic Variables	
	¢14.00
Value of Time for Passenger Cars (\$/hour)	\$14.80
Value of Time for Single Unit Trucks (\$/hour)	\$28.60
Value of Time for Combination Trucks (\$/hour)	\$28.60
2. Analysis Options	
Include User Costs in Analysis	Yes
Include User Cost Remaining Life Value	Yes
Use Differential User Costs	Yes
User Cost Computation Method	Calculated
Include Agency Cost Remaining Life Value	Yes
Traffic Direction	Both
Analysis Period (Years)	31
Beginning of Analysis Period	2021
Discount Rate (%)	7.0
Number of Alternatives	2
3. Project Details	
State Route	SR63
Project Name	State Route 63 Priority Segment
Region	OH
County	Warren
Analyzed By	Diana Martin
Mileposts	
Begin	0.00
End	3.00
Length of Project (miles)	3.00
Comments	
4. Traffic Data	
AADT Construction Year (total for both directions)	20,600
Cars as Percentage of AADT (%)	91.0
Single Unit Trucks as Percentage of AADT (%)	2.0
Combination Trucks as Percentage of AADT (%)	7.0
Annual Growth Rate of Traffic (%)	3.2
Speed Limit Under Normal Operating Conditions (mph)	55
No of Lanes in Each Direction During Normal Conditions	2
Free Flow Capacity (vphpl)	1900
Rural or Urban Hourly Traffic Distribution	Rural
Queue Dissipation Capacity (vphpl)	1100
Maximum AADT (total for both directions)	40,000
Maximum Queue Length (miles)	1.0
Mayillalli Anene Fellâlli (Illilez)	1.0

Alternative 1	4-Lane Undivided Initial Construction 1		Alternative 2	4-Lane Undivided Initial Construction		
Number of Activities	1		Number of Activities	1		
Activity 1	INITIAL BUILD)	Activity 1	INITIAL BUILD	D	
Agency Construction Cost (\$1000)	\$24,000.00		Agency Construction Cost (\$1000)	\$24,000.00		
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)			
Work Zone Duration (days)	365		Work Zone Duration (days)	365		
No of Lanes Open in Each Direction During Wo	rk 1		No of Lanes Open in Each Direction During Wo	rk 1		
Activity Service Life (years)	31.0		Activity Service Life (years)	31.0		
Activity Structural Life (years)	31.0		Activity Structural Life (years)	31.0		
Maintenance Frequency (years)	0		Maintenance Frequency (years)	0		
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	3.00		Work Zone Length (miles)	3.00		
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500		
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole numb	ers based on a 2	24-hour clock)	Time of Day of Lane Closures (use whole numb	ers based on a	24-hour clock)	
Inbound	Start	End	Inbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Outbound	Start	End	Outbound	Start	End	
First period of lane closure	Start	15	First period of lane closure	Jian	15	
Second period of lane closure	/	10	Second period of lane closure		15	
Third period of lane closure			Third period of lane closure			
milità period di farie ciosure			Third period of faile closure			

Total Cost							
	Alterna	ative 1	Alternat	ive 2			
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)			
Undiscounted Sum	\$24,000.00	\$13,319.21	\$24,000.00	\$13,319.21			
Present Value	\$24,000.00	\$13,319.21	\$24,000.00	\$13,319.21			
EUAC	\$1,915.13	\$1,062.83	\$1,915.13	\$1,062.83			
Lowest Present Value	e Agency Cost	Alternative 1					
Lowest Present Value	e User Cost	Alternative 1					

INPUT WORKSHEET		
INFOT WORKSTILLT		
1. Economic Variables		
Value of Time for Passenger Cars (\$/hour)	\$14.80	
Value of Time for Passenger Cars (\$\pi\text{flour}) Value of Time for Single Unit Trucks (\$\frac{1}{2}\text{hour})	\$28.60	
Value of Time for Combination Trucks (\$/hour)	\$28.60	
Value of Time for Combination Trucks (φ/nour)	\$20.00	
2. Analysis Options		
Include User Costs in Analysis	Yes	
Include User Costs in Analysis Include User Cost Remaining Life Value	Yes	
Use Differential User Costs	Yes	
User Cost Computation Method	Calculated	
·	Yes	
Include Agency Cost Remaining Life Value Traffic Direction	Both	
Analysis Period (Years)	31	
Beginning of Analysis Period	2021	
Discount Rate (%)	7.0	
Number of Alternatives	2	
2 Project Dateila		
3. Project Details	ODO	
State Route	SR63	
Project Name	State Route 63 Priority Segment	
Region	OH	
County	Warren	
Analyzed By	Diana Martin	
Mileposts		
Begin	0.00	
End	3.00	
Length of Project (miles)	3.00	
Comments		
4. Traffic Data		
AADT Construction Year (total for both directions)	20,600	
Cars as Percentage of AADT (%)	91.0	
Single Unit Trucks as Percentage of AADT (%)	2.0	
Combination Trucks as Percentage of AADT (%)	7.0	
Annual Growth Rate of Traffic (%)	3.2	
Speed Limit Under Normal Operating Conditions (mph)	55	
No of Lanes in Each Direction During Normal Conditions	4000	
Free Flow Capacity (vphpl)	1900	
Rural or Urban Hourly Traffic Distribution	Rural	
Queue Dissipation Capacity (vphpl)	1100	
Maximum AADT (total for both directions)	40,000	
Maximum Queue Length (miles)	1.0	

onstruction						
Alternative 1	4-Lane Undivid	ded - Pavement 1	Alternative 2	4-Lane Undiv	ided - Pavemen	nt 2
Number of Activities	2		Number of Activities	2		
A - 49 - 24 - 4	INITIAL DUILE		B - 65-36 - 4	INUTIAL DUM		
	INITIAL BUILD		Activity 1	INITIAL BUILI \$0.00	<u>)</u>	
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00		
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)			
Work Zone Duration (days)	0		Work Zone Duration (days)	0		
No of Lanes Open in Each Direction During Work			No of Lanes Open in Each Direction During Wo			
Activity Service Life (years)	16.0		Activity Service Life (years)	16.0		
Activity Structural Life (years)	16.0		Activity Structural Life (years)	16.0		
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	51		Agency Maintenance Cost (\$1000)	51		
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00		
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500		
	Week Day 1		Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number			Time of Day of Lane Closures (use whole numb			
Inbound	Start	End	Inbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Outbound	Start	End	Outbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
·			·			
	SURFACE WE	ARING COURSE REPLA			EARING COUR	SE R
Agency Construction Cost (\$1000)	\$750.00		Agency Construction Cost (\$1000)	\$750.00		
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)			
Work Zone Duration (days)	75		Work Zone Duration (days)	75		
No of Lanes Open in Each Direction During Work	1		No of Lanes Open in Each Direction During Wo	+ 1		
Activity Service Life (years)	15.0		Activity Service Life (years)	15.0		
Activity Structural Life (years)	15.0		Activity Structural Life (years)	15.0		
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	51		Agency Maintenance Cost (\$1000)	51		
Work Zone Length (miles)	3.00		Work Zone Length (miles)	3.00		
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500		
	Week Day 1		Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number	rs based on a 2	24-hour clock)	Time of Day of Lane Closures (use whole numb	ers based on a	24-hour clock)	
Inbound	Start	End	Inbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Tima ponda or land diodalo			Tima ponda on fante diodate			
Outbound	Start	End	Outbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure		,,,	Second period of lane closure		10	
			Third period of lane closure			
Third period of lane closure						

	_	Total Cost				
	Alterna	ative 1	Alternat	ive 2		
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)		
Undiscounted Sum	\$2,229.00	\$6,259.14	\$2,229.00	\$6,259.14		
Present Value	\$869.64	\$2,120.19	\$869.64	\$2,120.19		
EUAC	\$69.39	\$169.18	\$69.39	\$169.18		
Lowest Present Valu	e Agency Cost	Alternative 1				
Lowest Present Value	e User Cost	Alternative 1				

WCTID SR 63 Probabilistic Life Cycle Cost Analysis Worksheet

INPUT WORKSHEET	
INFOT WORKSTILLT	
1. Economic Variables	
	¢14.00
Value of Time for Passenger Cars (\$/hour)	\$14.80
Value of Time for Single Unit Trucks (\$/hour)	\$28.60
Value of Time for Combination Trucks (\$/hour)	\$28.60
2. Analysis Options	
Include User Costs in Analysis	Yes
Include User Cost Remaining Life Value	Yes
Use Differential User Costs	Yes
User Cost Computation Method	Calculated
Include Agency Cost Remaining Life Value	Yes
Traffic Direction	Both
Analysis Period (Years)	31
Beginning of Analysis Period	2021
Discount Rate (%)	7.0
Number of Alternatives	2
3. Project Details	
State Route	SR63
Project Name	State Route 63 Priority Segment
Region	OH
County	Warren
Analyzed By	Diana Martin
Mileposts	
Begin	0.00
End	3.00
Length of Project (miles)	3.00
Comments	
4. Traffic Data	
AADT Construction Year (total for both directions)	20,600
Cars as Percentage of AADT (%)	91.0
Single Unit Trucks as Percentage of AADT (%)	2.0
Combination Trucks as Percentage of AADT (%)	7.0
Annual Growth Rate of Traffic (%)	3.2
Speed Limit Under Normal Operating Conditions (mph)	55
No of Lanes in Each Direction During Normal Conditions	2
Free Flow Capacity (vphpl)	1900
Rural or Urban Hourly Traffic Distribution	Rural
Queue Dissipation Capacity (vphpl)	1100
Maximum AADT (total for both directions)	40,000
Maximum Queue Length (miles)	1.0
Maximum Queue Lengin (miles)	1.0

Alternative 1	4-Lane Undivi	ded - Culverts 1	Alternative 2	4-Lane Undiv	ided - Culverts 2	2
Number of Activities	1		Number of Activities	1		
Activity 1	INITIAL BUILD)	Activity 1	INITIAL BUILI	<u> </u>	
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00		
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)			
Work Zone Duration (days)	0		Work Zone Duration (days)	0		
No of Lanes Open in Each Direction During Worl	1		No of Lanes Open in Each Direction During Wo	1 1		
Activity Service Life (years)	31.0		Activity Service Life (years)	31.0		
Activity Structural Life (years)	31.0		Activity Structural Life (years)	31.0		
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	6		Agency Maintenance Cost (\$1000)	6		
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00		
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500		
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number	rs based on a	24-hour clock)	Time of Day of Lane Closures (use whole numb	ers based on a	24-hour clock)	
Inbound	Start	End	Inbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Outbound	Start	End	Outbound	Start	End	
First period of lane closure	Jidil	LIIU		Jidit	LIIU	
	- /	15	First period of lane closure	- /	15	
Second period of lane closure Third period of lane closure			Second period of lane closure			
i filira period of lane closure			Third period of lane closure			

_		Total Cost				
	Altern	ative 1	Alternat	ive 2		
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)		
Undiscounted Sum	\$180.00	\$0.00	\$180.00	\$0.00		
Present Value	\$74.45	\$0.00	\$74.45	\$0.00		
EUAC	\$5.94	\$0.00	\$5.94	\$0.00		
Lowest Present Value	e Agency Cost	Alternative 1				
Lowest Present Value	e User Cost	Alternative 1				

INPUT WORKSHEET	
INFOT WORKSTILLT	
1. Economic Variables	
	¢14.00
Value of Time for Passenger Cars (\$/hour)	\$14.80
Value of Time for Single Unit Trucks (\$/hour)	\$28.60
Value of Time for Combination Trucks (\$/hour)	\$28.60
2. Analysis Options	
Include User Costs in Analysis	Yes
Include User Cost Remaining Life Value	Yes
Use Differential User Costs	Yes
User Cost Computation Method	Calculated
Include Agency Cost Remaining Life Value	Yes
Traffic Direction	Both
Analysis Period (Years)	31
Beginning of Analysis Period	2021
Discount Rate (%)	7.0
Number of Alternatives	2
3. Project Details	
State Route	SR63
Project Name	State Route 63 Priority Segment
Region	OH
County	Warren
Analyzed By	Diana Martin
Mileposts	
Begin	0.00
End	3.00
Length of Project (miles)	3.00
Comments	
4. Traffic Data	
AADT Construction Year (total for both directions)	20,600
Cars as Percentage of AADT (%)	91.0
Single Unit Trucks as Percentage of AADT (%)	2.0
Combination Trucks as Percentage of AADT (%)	7.0
Annual Growth Rate of Traffic (%)	3.2
Speed Limit Under Normal Operating Conditions (mph)	55
No of Lanes in Each Direction During Normal Conditions	2
Free Flow Capacity (vphpl)	1900
Rural or Urban Hourly Traffic Distribution	Rural
Queue Dissipation Capacity (vphpl)	1100
Maximum AADT (total for both directions)	40,000
Maximum Queue Length (miles)	1.0
Maximum Queue Lengin (miles)	1.0

onstruction							
Alternative 1	4-Lane Undivi	ded - Major Op	oen Drainage Re	Alternative 2	4-Lane Undivided - Major Open D		
Number of Activities	2			Number of Activities	2		
A adivides d	INITIAL BUILD			A addition of	INITIAL BUIL		
Activity 1)		Activity 1	\$0.00	<u> </u>	
Agency Construction Cost (\$1000)	\$0.00			Agency Construction Cost (\$1000)	\$0.00		
User Work Zone Costs (\$1000)	0			User Work Zone Costs (\$1000)	0		
Work Zone Duration (days)	- U			Work Zone Duration (days)	0		
No of Lanes Open in Each Direction During Work				No of Lanes Open in Each Direction During Wo			
Activity Service Life (years)	16.0			Activity Service Life (years)	16.0		
Activity Structural Life (years)	16.0			Activity Structural Life (years)	16.0		
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	2			Agency Maintenance Cost (\$1000)	2		
Work Zone Length (miles)	0.00			Work Zone Length (miles)	0.00		
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	500			Work Zone Capacity (vphpl)	500		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number				Time of Day of Lane Closures (use whole number			
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
				•			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
				'			
Activity 2	MAJOR OPEN	DRAINAGE I	REHAB	Activity 2	MAJOR OPE	N DRAINAGE RE	EHAB
Agency Construction Cost (\$1000)	\$180.00			Agency Construction Cost (\$1000)	\$180.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	30			Work Zone Duration (days)	30		
No of Lanes Open in Each Direction During Worl	1			No of Lanes Open in Each Direction During Wo	rk 1		
Activity Service Life (years)	15.0			Activity Service Life (years)	15.0		
Activity Structural Life (years)	15.0			Activity Structural Life (years)	15.0		
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	2			Agency Maintenance Cost (\$1000)	2		
Work Zone Length (miles)	3.00			Work Zone Length (miles)	3.00		
Work Zone Speed Limit (mph)	50			Work Zone Speed Limit (mph)	50		
Work Zone Capacity (vphpl)	500			Work Zone Capacity (vphpl)	500		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number		24-hour clock)		Time of Day of Lane Closures (use whole numl		24-hour clock)	
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure	,	10		Second period of lane closure		10	
Third period of lane closure				Third period of lane closure			
				Third period of falle closure			
Third period of fathe closure				Outbound	Start	End	
	Start	Fnd		Calbouriu	Start		
Outbound	Start	End 15		First period of lane closure	7	15	
Outbound First period of lane closure	Start 7	End 15		First period of lane closure	7	15	
Outbound	Start 7			First period of lane closure Second period of lane closure Third period of lane closure	7	15	

_		Total Cost				
	Alterna	Alternative 1		ive 2		
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)		
Undiscounted Sum	\$238.00	\$2,445.91	\$238.00	\$2,445.91		
Present Value	\$85.11	\$828.51	\$85.11	\$828.51		
EUAC	\$6.79	\$66.11	\$6.79	\$66.11		
Lowest Present Value	e Agency Cost	Alternative 1				
Lowest Present Value	e User Cost	Alternative 1				

INPUT WORKSHEET		
INFOT WORKSTILLT		
1. Economic Variables		
Value of Time for Passenger Cars (\$/hour)	\$14.80	
Value of Time for Passenger Cars (\$\pi\text{flour}) Value of Time for Single Unit Trucks (\$\frac{1}{2}\text{hour})	\$28.60	
Value of Time for Combination Trucks (\$/hour)	\$28.60	
Value of Time for Combination Trucks (φ/nour)	\$20.00	
2. Analysis Options		
Include User Costs in Analysis	Yes	
Include User Costs in Analysis Include User Cost Remaining Life Value	Yes	
Use Differential User Costs	Yes	
User Cost Computation Method	Calculated	
·	Yes	
Include Agency Cost Remaining Life Value Traffic Direction	Both	
Analysis Period (Years)	31	
Beginning of Analysis Period	2021	
Discount Rate (%)	7.0	
Number of Alternatives	2	
2 Project Dateila		
3. Project Details	ODO	
State Route	SR63	
Project Name	State Route 63 Priority Segment	
Region	OH	
County	Warren	
Analyzed By	Diana Martin	
Mileposts		
Begin	0.00	
End	3.00	
Length of Project (miles)	3.00	
Comments		
4. Traffic Data		
AADT Construction Year (total for both directions)	20,600	
Cars as Percentage of AADT (%)	91.0	
Single Unit Trucks as Percentage of AADT (%)	2.0	
Combination Trucks as Percentage of AADT (%)	7.0	
Annual Growth Rate of Traffic (%)	3.2	
Speed Limit Under Normal Operating Conditions (mph)	55	
No of Lanes in Each Direction During Normal Conditions	4000	
Free Flow Capacity (vphpl)	1900	
Rural or Urban Hourly Traffic Distribution	Rural	
Queue Dissipation Capacity (vphpl)	1100	
Maximum AADT (total for both directions)	40,000	
Maximum Queue Length (miles)	1.0	

Alternative 1	4-Lane Undivi	ded - Major Shoulder Rehab 1	Alternative 2	4-Lane Undivi	ded - Major Shoulder R
Number of Activities	3	and major official freshab t	Number of Activities	3	aca major cricalder is
	-				
Activity 1	INITIAL BUILD		Activity 1	INITIAL BUILD)
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Work	1		No of Lanes Open in Each Direction During Wor	1	
Activity Service Life (years)	11.0		Activity Service Life (years)	11.0	
Activity Structural Life (years)	11.0		Activity Structural Life (years)	11.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	15		Agency Maintenance Cost (\$1000)	15	
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00	
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25	
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole numbe	rs based on a 2	24-hour clock)	Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
			···· F-··		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure	,		Second period of lane closure		·
Third period of lane closure			Third period of lane closure		
a ponda di land diddiri			Tima ponda di tano dibbato		
Activity 2	MAJOR SHUC	OLDER REHAB	Activity 2	MAJOR SHU	OLDER REHAB
Agency Construction Cost (\$1000)	\$123.00		Agency Construction Cost (\$1000)	\$123.00	
User Work Zone Costs (\$1000)	Ψ120.00		User Work Zone Costs (\$1000)	ψ120.00	
Work Zone Duration (days)	30		Work Zone Duration (days)	30	
No of Lanes Open in Each Direction During Work	2		No of Lanes Open in Each Direction During Wor	30	
Activity Service Life (years)	10.0		Activity Service Life (years)	10.0	
				10.0	
Activity Structural Life (years)	10.0		Activity Structural Life (years)	10.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	15		Agency Maintenance Cost (\$1000)	15	
Work Zone Length (miles)	3.00		Work Zone Length (miles)	3.00	
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25	
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number			Time of Day of Lane Closures (use whole number		
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	<u>15</u>	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Activity 3	MAJOR SHUC	OLDER REHAB	Activity 3	MAJOR SHU	OLDER REHAB
Agency Construction Cost (\$1000)	\$123.00		Agency Construction Cost (\$1000)	\$123.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	30		Work Zone Duration (days)	30	
No of Lanes Open in Each Direction During Work	2		No of Lanes Open in Each Direction During Wor		
Activity Service Life (years)	10.0		Activity Service Life (years)	10.0	
Activity Structural Life (years)	10.0		Activity Structural Life (years)	10.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	15		Agency Maintenance Cost (\$1000)	15	
Work Zone Length (miles)	3.00		Work Zone Length (miles)	3.00	
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25	
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole numbe		24-hour clock)	Time of Day of Lane Closures (use whole number		24-hour clock)
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure	- 1	- 15	Second period of lane closure		13
Third period of lane closure			Third period of lane closure		
mira period or rarie closure			Third period of fane closure		
Outbound	Ctant	End	Outhoused	Ct-ut	End
First period of lane closure	Start	End	Outbound	Start	End
	/	15	First period of lane closure	/	15
Second period of lane closure Third period of lane closure			Second period of lane closure Third period of lane closure		

_	<u>—</u>	Total Cost		
	Alterna	ative 1	Alternat	ive 2
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)
Undiscounted Sum	\$666.00	\$2,265.13	\$666.00	\$2,265.13
Present Value	\$263.53	\$656.23	\$263.53	\$656.23
EUAC	\$21.03	\$52.36	\$21.03	\$52.36
Lowest Present Value	e Agency Cost	Alternative 1		
Lowest Present Value	e User Cost	Alternative 1		

INPUT WORKSHEET	
INFOT WORKSTILLT	
1. Economic Variables	
	¢14.00
Value of Time for Passenger Cars (\$/hour)	\$14.80
Value of Time for Single Unit Trucks (\$/hour)	\$28.60
Value of Time for Combination Trucks (\$/hour)	\$28.60
2. Analysis Options	
Include User Costs in Analysis	Yes
Include User Cost Remaining Life Value	Yes
Use Differential User Costs	Yes
User Cost Computation Method	Calculated
Include Agency Cost Remaining Life Value	Yes
Traffic Direction	Both
Analysis Period (Years)	31
Beginning of Analysis Period	2021
Discount Rate (%)	7.0
Number of Alternatives	2
3. Project Details	
State Route	SR63
Project Name	State Route 63 Priority Segment
Region	OH
County	Warren
Analyzed By	Diana Martin
Mileposts	
Begin	0.00
End	3.00
Length of Project (miles)	3.00
Comments	
4. Traffic Data	
AADT Construction Year (total for both directions)	20,600
Cars as Percentage of AADT (%)	91.0
Single Unit Trucks as Percentage of AADT (%)	2.0
Combination Trucks as Percentage of AADT (%)	7.0
Annual Growth Rate of Traffic (%)	3.2
Speed Limit Under Normal Operating Conditions (mph)	55
No of Lanes in Each Direction During Normal Conditions	2
Free Flow Capacity (vphpl)	1900
Rural or Urban Hourly Traffic Distribution	Rural
Queue Dissipation Capacity (vphpl)	1100
Maximum AADT (total for both directions)	40,000
Maximum Queue Length (miles)	1.0
Mayillalli Anene Fellâlli (Illilez)	1.0

onstruction Alternative 1	4-Lane Undivi	ded - Guardrail Replacement 1	Alternative 2	4-Lane Undivi	ded - Guardrail Replace
Number of Activities	2	ded - Guardrail Replacement	Number of Activities	2	Guardian Replace
Number of Activities			Number of Activities		
Activity 1	INITIAL BUILD		Activity 1	INITIAL BUILD)
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)	•	
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Worl	1		No of Lanes Open in Each Direction During Worl	1	
Activity Service Life (years)	18.0		Activity Service Life (years)	18.0	
Activity Structural Life (years)	18.0		Activity Structural Life (years)	18.0	
Maintenance Frequency (years)	0		Maintenance Frequency (years)	0	
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0	
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00	
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25	
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)	Time of Day of Lane Closures (use whole number	rs based on a	24-hour clock)
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
-			'		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
			'		
Activity 2	MAJOR SHU	OLDER REHAB	Activity 2	MAJOR SHU	OLDER REHAB
Agency Construction Cost (\$1000)	\$159.00		Agency Construction Cost (\$1000)	\$159.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	20		Work Zone Duration (days)	20	
No of Lanes Open in Each Direction During Worl			No of Lanes Open in Each Direction During Worl	1.5	
Activity Service Life (years)	13.0		Activity Service Life (years)	13.0	
Activity Structural Life (years)	18.0		Activity Structural Life (years)	18.0	
Maintenance Frequency (years)	0		Maintenance Frequency (years)	0	
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0	
Work Zone Length (miles)	0.50		Work Zone Length (miles)	0.50	
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25	
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number		24-hour clock)	Time of Day of Lane Closures (use whole number		24-hour clock)
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7		First period of lane closure	7	
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
p 0 000 ar 0					

		Total Cost		
	Alternative 1		Alternat	ive 2
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)
Undiscounted Sum	\$114.83	\$927.46	\$114.83	\$927.46
Present Value	\$41.62	\$336.15	\$41.62	\$336.15
EUAC	\$3.32	\$26.82	\$3.32	\$26.82
Lowest Present Valu	e Agency Cost	Alternative 1		
Lowest Present Value	e User Cost	Alternative 1		

	PUT WORKSHEET		
	TO I WORKSHELT		
1.	Economic Variables		
	Value of Time for Passenger Cars (\$/hour)	\$14.80	
	Value of Time for Passenger Cars (\$/hour)	\$28.60	
	Value of Time for Combination Trucks (\$/hour)	\$28.60	
	value of Tillie for Combination Trucks (\$/flour)	\$28.00	
2.	Analysis Options		
	Include User Costs in Analysis	Yes	
	Include User Costs in Arialysis Include User Cost Remaining Life Value	Yes	
	Use Differential User Costs	Yes	
		Calculated	
	User Cost Computation Method	Yes	
	Include Agency Cost Remaining Life Value Traffic Direction	Both	
	Analysis Period (Years)	31	
	Beginning of Analysis Period	2021	
	Discount Rate (%)	7.0	
	Number of Alternatives	2	
2	Project Dateila		
3.	Project Details	0.000	
	State Route	SR63	0
	Project Name	State Route 63 Priority	Segment
	Region	OH	
	County	Warren	
	Analyzed By	Diana Martin	
	Mileposts		
	Begin	0.00	
	End	3.00	
	Length of Project (miles)	3.00	
	Comments		
4.	Traffic Data		
4.	Traffic Data AADT Construction Year (total for both directions)	20,600	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%)	91.0	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%)	91.0 2.0	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%)	91.0	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%)	91.0 2.0	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%)	91.0 2.0 7.0	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%)	91.0 2.0 7.0 3.2	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph)	91.0 2.0 7.0 3.2	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl)	91.0 2.0 7.0 3.2 55	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution	91.0 2.0 7.0 3.2 55 2 1900	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution Queue Dissipation Capacity (vphpl)	91.0 2.0 7.0 3.2 55 2 1900 Rural 1100	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution	91.0 2.0 7.0 3.2 55 2 1900 Rural	

onstruction Alternative 1	4 Lana Lindiu	ded - Overhead Signs and Signs	Alternative 2	4 Lana Lindia	ided - Overhead Si
		ded - Overnead Signs and Sig			ided - Overnead Si
Number of Activities	2		Number of Activities	2	
Activity 1	INITIAL BUILI		Activity 1	INITIAL BUIL)
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)	70.00		User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Work	1		No of Lanes Open in Each Direction During Wor	1	
Activity Service Life (years)	16.0		Activity Service Life (years)	16.0	
Activity Structural Life (years)	16.0		Activity Structural Life (years)	16.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	6		Agency Maintenance Cost (\$1000)	6	
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00	
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole numbe		24-hour clock)	Time of Day of Lane Closures (use whole number		24-hour clock)
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Third period of faire diodate			Third period of faire diosare		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure		10	Second period of lane closure		10
Third period of lane closure			Third period of lane closure		
Trilla period of farie diodate			Third period of faire diodate		
Activity 2	REPLACE O\	ERHEAD SIGNS AND SIGNA	Activity 2	REPLACE OV	/ERHEAD SIGNS
Agency Construction Cost (\$1000)	\$945.00		Agency Construction Cost (\$1000)	\$945.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	24		Work Zone Duration (days)	24	
No of Lanes Open in Each Direction During Work	1		No of Lanes Open in Each Direction During Wor	1	
Activity Service Life (years)	15.0		Activity Service Life (years)	15.0	
Activity Structural Life (years)	15.0		Activity Structural Life (years)	15.0	
Maintenance Frequency (years)	1			1	
Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	1		Maintenance Frequency (years)	1	
Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	1 6 0.10			1 6 0.10	
Agency Maintenance Cost (\$1000) Work Zone Length (miles)	1 6 0.10 40		Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	1 6	
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)			Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)	1 6 0.10	
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl)	40		Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl)	1 6 0.10 40	
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)	40 500 Week Day 1	24-hour clock)	Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)	1 6 0.10 40 500 Week Day 1	24-hour clock)
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution	40 500 Week Day 1	24-hour clock) End	Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution	1 6 0.10 40 500 Week Day 1	24-hour clock)
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound	40 500 Week Day 1 rs based on a		Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	1 6 0.10 40 500 Week Day 1 rs based on a	
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	40 500 Week Day 1 rs based on a Start	End	Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	1 6 0.10 40 500 Week Day 1 rs based on a Start	End
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound	40 500 Week Day 1 rs based on a Start	End	Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	1 6 0.10 40 500 Week Day 1 rs based on a Start	End
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure	40 500 Week Day 1 rs based on a Start	End	Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure	1 6 0.10 40 500 Week Day 1 rs based on a Start	End
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	40 500 Week Day 1 rs based on a Start	End	Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	1 6 0.10 40 500 Week Day 1 rs based on a Start	End
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	40 500 Week Day 1 rs based on a Start 7	End 15	Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	1 6 0.10 40 500 Week Day 1 rs based on a Start 7	End 15
Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	40 500 Week Day 1 rs based on a Start 7	End 15	Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	1 6 0.10 40 500 Week Day 1 rs based on a Start 7	End 15

		Total Cost		
	Altern	ative 1	Alternat	ive 2
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)
Undiscounted Sum	\$1,119.00	\$1,942.02	\$1,119.00	\$1,942.02
Present Value	\$392.53	\$657.83	\$392.53	\$657.83
EUAC	\$31.32	\$52.49	\$31.32	\$52.49
Lowest Present Value	e Agency Cost	Alternative 1		
Lowest Present Value	e User Cost	Alternative 1		

INPUT WORKSHEET		
INFOT WORKSTILLT		
1. Economic Variables		
Value of Time for Passenger Cars (\$/hour)	\$14.80	
Value of Time for Passenger Cars (\$\pi\text{Out}) Value of Time for Single Unit Trucks (\$/hour)	\$28.60	
Value of Time for Combination Trucks (\$/hour)	\$28.60	
Value of Time for Combination Trucks (φ/nour)	φ20.00	
2. Analysis Options		
Include User Costs in Analysis	Yes	
Include User Costs in Analysis Include User Cost Remaining Life Value	Yes	
Use Differential User Costs	Yes	
User Cost Computation Method	Calculated	
·	Yes	
Include Agency Cost Remaining Life Value Traffic Direction	Both	
Analysis Period (Years)	31	
Beginning of Analysis Period	2021	
Discount Rate (%)	7.0	
Number of Alternatives	2	
2 Project Dateile		
3. Project Details	ODOO	
State Route	SR63	
Project Name	State Route 63 Priority Segment	
Region	OH	
County	Warren	
Analyzed By	Diana Martin	
Mileposts		
Begin	0.00	
End	3.00	
Length of Project (miles)	3.00	
Comments		
4. Traffic Data		
AADT Construction Year (total for both directions)	20,600	
,		
Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%)	91.0	
Combination Trucks as Percentage of AADT (%)	7.0	
Annual Growth Rate of Traffic (%)	3.2	
Speed Limit Under Normal Operating Conditions (mph)	55	
No of Lanes in Each Direction During Normal Conditions	2	
Free Flow Capacity (vphpl)	1900	
Rural or Urban Hourly Traffic Distribution	Rural	
Queue Dissipation Capacity (vphpl)	1100	
Maximum AADT (total for both directions)	40,000	
Maximum Queue Length (miles)	1.0	

Alternative 1							
		ided - Outages	s 1	Alternative 2		ided - Outages 2	2
Number of Activities	8			Number of Activities	8		
Activity 1	SPOT INCID	ENT-CAUSED	DEDAIDS	Activity 1	SPOT INCIDE	ENT-CAUSED R	PEDVIDO
Agency Construction Cost (\$1000)	\$55.00	I CAUSED	REFAIRS	Agency Construction Cost (\$1000)	\$55.00	INT-CAUSED K	EFAIRE
User Work Zone Costs (\$1000)	Ψ00.00			User Work Zone Costs (\$1000)	Ψ00.00		
Work Zone Duration (days)	- 1			Work Zone Duration (days)	1		
No of Lanes Open in Each Direction During Wo	rk 1			No of Lanes Open in Each Direction During Work	1		
Activity Service Life (years)	4.0			Activity Service Life (years)	4.0		
Activity Structural Life (years)	0.0			Activity Service Life (years) Activity Structural Life (years)	0.0		
Maintenance Frequency (years)	0.0	1		Maintenance Frequency (years)	0.0		
Agency Maintenance Cost (\$1000)	0	<u></u>		Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	0.10	-		Work Zone Length (miles)	0.10		
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750		
Traffic Hourly Distribution	Week Day 1	 		Traffic Hourly Distribution	Week Day 1		
		O4 have alask	\			24 haun alaak)	
Time of Day of Lane Closures (use whole numb)	Time of Day of Lane Closures (use whole number Inbound			
Inbound First period of lane cleaure	Start	End 15			Start	End 15	
First period of lane closure		15	2	First period of lane closure		15	
Second period of lane closure			_	Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Outbound	Ctout	F-4		Outbound	Ctout	Fee	
	Start	End			Start	End	
First period of lane closure		15	2	First period of lane closure		15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Activity 2	SDOT INCID	ENT CALICED	DEDAIDS	Activity 2	CDOT INCIDE	NT CAUSED D	EDAIDO
Activity 2 Agency Construction Cost (\$1000)	SPUT INCIDI	ENT-CAUSED	REPAIRS	Activity 2	SPUT INCIDE	ENT-CAUSED R	CEPAIRS
	\$55.00			Agency Construction Cost (\$1000)	\$55.00	 	
User Work Zone Costs (\$1000)		 		User Work Zone Costs (\$1000)	4	 	
Work Zone Duration (days)	1	-		Work Zone Duration (days)	1	 	
No of Lanes Open in Each Direction During Wo	1 4 0			No of Lanes Open in Each Direction During Work	1	 	
Activity Service Life (years)	4.0	-		Activity Service Life (years)	4.0	 	
Activity Structural Life (years)	0.0	4		Activity Structural Life (years)	0.0	+	
Maintenance Frequency (years)	0	 		Maintenance Frequency (years)	0	 	
Agency Maintenance Cost (\$1000)	0]		Agency Maintenance Cost (\$1000)	0	 	
Work Zone Length (miles)	0.10	 		Work Zone Length (miles)	0.10	+	
Work Zone Speed Limit (mph)	40	4		Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	750	<u>'</u>		Work Zone Capacity (vphpl)	750		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	L	
Time of Day of Lane Closures (use whole numb)	Time of Day of Lane Closures (use whole number			
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15	<u> </u>	First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15	<u> </u>	First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Activity 3		ENT-CAUSED	REPAIRS	Activity 3	SPOT INCIDE	NT-CAUSED R	KEPAIRS
Agency Construction Cost (\$1000)	\$55.00			Agency Construction Cost (\$1000)	\$55.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	1			Work Zone Duration (days)	1	-	
No of Lanes Open in Each Direction During Wo				No of Lanes Open in Each Direction During World	1	-	
Activity Service Life (years)	4.0	<u> </u>		Activity Service Life (years)	4.0	-	
Activity Structural Life (years)	0.0	<u> </u>		Activity Structural Life (years)	0.0	-	
Maintenance Frequency (years)	0	1		Maintenance Frequency (years)	0		
Agency Maintenance Cost (\$1000)	0	1		Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10	 	
Work Zone Speed Limit (mph)	40	<u> </u>		Work Zone Speed Limit (mph)	40	-	
Work Zone Capacity (vphpl)	750	4		Work Zone Capacity (vphpl)	750	1	
		•				+	
Traffic Hourly Distribution	Week Day 1	041		Traffic Hourly Distribution	Week Day 1		
Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb	ers based on a)	Time of Day of Lane Closures (use whole number	rs based on a		
Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound		End		Time of Day of Lane Closures (use whole numbe Inbound		End	
Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure	ers based on a			Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	rs based on a		
Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure	ers based on a	End		Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure	rs based on a	End	
Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure	ers based on a	End		Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	rs based on a	End	
Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of Iane closure Second period of Iane closure Third period of Iane closure	pers based on a Start 7	End 15		Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	rs based on a Start 7	End 15	
Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	ers based on a	End 15	5	Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	rs based on a	End 15	
Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	pers based on a Start 7	End 15	5	Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	rs based on a Start 7	End 15	
Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure	pers based on a Start 7	End 15	5	Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure	rs based on a Start 7	End 15	
Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	pers based on a Start 7	End 15	5	Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	rs based on a Start 7	End 15	
Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure	Start Start Start 7	End 15		Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure	rs based on a Start 7 Start Start 7	End 15	
Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure	Start Start Start Start Start Start Start Start SPOT INCIDI	End 15		Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Activity 4	s based on a Start 7 Start Start 7 Start Start 7	End 15	REPAIR
Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure First period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000)	Start Start Start 7	End 15		Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000)	rs based on a Start 7 Start Start 7	End 15	REPAIR
Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000)	Start Start Start Start Start Start Start Start SPOT INCIDI	End 15		Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000)	s based on a Start 7 Start Start 7 Start Start 7	End 15	REPAIR
Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)	Start 7 SPOT INCIDI \$55.00	End 15		Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)	s based on a Start 7 Start Start 7 Start Start 7	End 15	REPAIR
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Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wo Activity Service Life (years) Activity Service Life (years) Adency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure	SPOT INCIDI SPOT INCIDI \$55.00 1 1 1 1 1 1 1 1 1 1 1 1	End 15 End 15 End 25 End 24-hour clock; End	REPAIRS	Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Capacity (viph) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 4.0 0.0 0 0.0 0.10 40 750 Week Day 1 rs based on a	End 15 15 15 15 15 15 15 15 15 15 15 15 15	REPAIR:
Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wo Activity Service Life (years) Activity Structural Life (years) Adaintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure	Start 7 Start 7 SPOT INCIDI \$55.00 In 4.0 0.0 0 0.10 4.0 750 Week Day 1 Ders based on a Start 7	End 15 End 15 ENT-CAUSED 24-hour clock; End 15	REPAIRS	Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Service Life (years) Activity Service Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	Start 7 Start 7 SPOT INCIDE \$55.00 1 4.0 0.0 0 0.10 4.0 0.10 4.0 0.10 T50 Week Day 1 1 rs based on a Start 7	End 15 15 15 15 15 15 15 15 15 15 15 15 15	REPAIR
Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wo Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Capacity (yhppl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure	SPOT INCIDI SPOT INCIDI \$55.00 1 1 1 1 1 1 1 1 1 1 1 1	End 15 End 15 End 15 Ent 15 24-hour clock; End 15	REPAIRS	Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Service Life (years) Activity Structural Life (years) Agency Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 4.0 0.0 0 0.0 0.10 4.0 750 Week Day 1 rs based on a	End 15 15 End 15	REPAIR
Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wo Activity Service Life (years) Activity Service Life (years) Adentivity Service Life (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yhph) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure	Start 7 Start 7 SPOT INCIDI \$55.00 In 4.0 0.0 0 0.10 4.0 750 Week Day 1 Ders based on a Start 7	End 15 End 15 ENT-CAUSED 24-hour clock; End 15	REPAIRS	Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Capacity (typhpi) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Third period of lane closure Third period of lane closure	Start 7 Start 7 SPOT INCIDE \$55.00 1 4.0 0.0 0 0.10 4.0 0.10 4.0 0.10 T50 Week Day 1 1 rs based on a Start 7	End 15 15 15 15 15 15 15 15 15 15 15 15 15	REPAIRS
Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wo Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Capacity (yhppl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure	Start 7 Start 7 SPOT INCIDI \$55.00 In 4.0 0.0 0 0.10 4.0 750 Week Day 1 Ders based on a Start 7	End 15 End 15 End 15 Ent 15 24-hour clock; End 15	REPAIRS	Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Service Life (years) Activity Structural Life (years) Agency Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	Start 7 Start 7 SPOT INCIDE \$55.00 1 4.0 0.0 0 0.10 4.0 0.10 4.0 0.10 T50 Week Day 1 1 rs based on a Start 7	End 15 15 End 15	REPAIRS

Activity 5				A otivity E		ENIT CALICED O	JED VID
		NT-CAUSED	KEPAIRS	Activity 5		NT-CAUSED R	KEPAIR:
Agency Construction Cost (\$1000)	\$55.00			Agency Construction Cost (\$1000)	\$55.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	1			Work Zone Duration (days)	1		
No of Lanes Open in Each Direction During Wor	k 1			No of Lanes Open in Each Direction During Worl	1		
Activity Service Life (years)	4.0			Activity Service Life (years)	4.0		
Activity Service Life (years) Activity Structural Life (years)	0.0			Activity Service Life (years) Activity Structural Life (years)	0.0		
Maintenance Frequency (years)	0			Maintenance Frequency (years)	0		
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10		
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
						041 1 11	
Time of Day of Lane Closures (use whole number				Time of Day of Lane Closures (use whole number			
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Outbound	Start	End		Outbound	Start	End	
	Start	Ellu			Start		
First period of lane closure		15		First period of lane closure	- /	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Activity 6	SPOT INCIDE	NT-CAUSED	REPAIRS	Activity 6	SPOT INCIDE	NT-CAUSED R	EPAIR
Agency Construction Cost (\$1000)	\$55.00	37.0000		Agency Construction Cost (\$1000)	\$55.00		
	φυσ.00				φυσ.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	1			Work Zone Duration (days)	1		
No of Lanes Open in Each Direction During Wor				No of Lanes Open in Each Direction During Work	1		
Activity Service Life (years)	4.0			Activity Service Life (years)	4.0		
Activity Structural Life (years)	0.0			Activity Structural Life (years)	0.0		
Maintenance Frequency (years)	0.0			Maintenance Frequency (years)	0.0		
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10		
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number				Time of Day of Lane Closures (use whole number			
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Time period of faile discuss				Tima period of faile diodale			
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		INTEGROSED		Agency Construction Cost (\$1000)		NI-O/IOCED I	
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_		Total Cost		
	Alterna	ative 1	Alternat	ive 2
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)
Undiscounted Sum	\$440.00	\$320.80	\$440.00	\$320.80
Present Value	\$205.35	\$87.92	\$205.35	\$87.92
EUAC	\$16.39	\$7.02	\$16.39	\$7.02
Lowest Present Value	e Agency Cost	Alternative 1		
Lowest Present Value	e User Cost	Alternative 1		

REALCOST INPUT AND RESULTS

4-LANE DIVIDED SCENARIO

	PUT WORKSHEET		
	TO I WORKSHELT		
1.	Economic Variables		
	Value of Time for Passenger Cars (\$/hour)	\$14.80	
	Value of Time for Passenger Cars (\$/hour)	\$28.60	
	Value of Time for Combination Trucks (\$/hour)	\$28.60	
	value of Tillie for Combination Trucks (\$/flour)	\$28.00	
2.	Analysis Options		
	Include User Costs in Analysis	Yes	
	Include User Costs in Arialysis Include User Cost Remaining Life Value	Yes	
	Use Differential User Costs	Yes	
		Calculated	
	User Cost Computation Method	Yes	
	Include Agency Cost Remaining Life Value Traffic Direction	Both	
	Analysis Period (Years)	31	
	Beginning of Analysis Period	2021	
	Discount Rate (%)	7.0	
	Number of Alternatives	2	
2	Project Dataile		
3.	Project Details	0.000	
	State Route	SR63	0
	Project Name	State Route 63 Priority	Segment
	Region	OH	
	County	Warren	
	Analyzed By	Diana Martin	
	Mileposts		
	Begin	0.00	
	End	3.00	
	Length of Project (miles)	3.00	
	Comments		
4.	Traffic Data		
4.	Traffic Data AADT Construction Year (total for both directions)	20,600	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%)	91.0	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%)	91.0 2.0	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%)	91.0	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%)	91.0 2.0	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%)	91.0 2.0 7.0	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%)	91.0 2.0 7.0 3.2	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph)	91.0 2.0 7.0 3.2	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl)	91.0 2.0 7.0 3.2 55	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution	91.0 2.0 7.0 3.2 55 2 1900	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution Queue Dissipation Capacity (vphpl)	91.0 2.0 7.0 3.2 55 2 1900 Rural 1100	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution	91.0 2.0 7.0 3.2 55 2 1900 Rural	

Alternative 1	4-Lane Divided	d - Initial Build 1	Alternative 2	4-Lane Divid	ed - Initial Build	2
Number of Activities	1		Number of Activities	1		
Activity 1	INITIAL BUILD)	Activity 1	INITIAL BUIL	.D	
Agency Construction Cost (\$1000)	\$28,000.00		Agency Construction Cost (\$1000)	\$28,000.00		
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)			
Work Zone Duration (days)	365		Work Zone Duration (days)	365	5	
No of Lanes Open in Each Direction During Worl	1		No of Lanes Open in Each Direction Do	ring Work 1	1	
Activity Service Life (years)	31.0		Activity Service Life (years)	31.0)	
Activity Structural Life (years)	31.0		Activity Structural Life (years)	31.0)	
Maintenance Frequency (years)	0		Maintenance Frequency (years)	()	
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	()	
Work Zone Length (miles)	3.00		Work Zone Length (miles)	3.00)	
Work Zone Speed Limit (mph)	45		Work Zone Speed Limit (mph)	45	5	
Work Zone Capacity (vphpl)	1000		Work Zone Capacity (vphpl)	1000)	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number	rs based on a 2	24-hour clock)	Time of Day of Lane Closures (use who	iole numbers based on a 24-hour clock)		
Inbound	Start	End	Inbound	Start	End	
First period of lane closure	7	15	First period of lane closu	re 7	7 15	
Second period of lane closure			Second period of lane cl	osure		
Third period of lane closure			Third period of lane close	ure		
Outbound	Start	End	Outbound	Start	End	
First period of lane closure	7	15	First period of lane closu		7 15	
Second period of lane closure	- '	10	Second period of lane cl		10	
Third period of lane closure			Third period of lane close			

	-	Total Cost			
	Altern	ative 1	Alternative 2		
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)	
Undiscounted Sum	\$28,000.00	\$854.29	\$28,000.00	\$854.29	
Present Value	\$28,000.00	\$854.29	\$28,000.00	\$854.29	
EUAC	\$2,234.31	\$68.17	\$2,234.31	\$68.17	
Lowest Present Value	e Agency Cost	Alternative 1			
ů ,		Alternative 1			

	PUT WORKSHEET		
	TO I WORKSHELT		
1.	Economic Variables		
	Value of Time for Passenger Cars (\$/hour)	\$14.80	
	Value of Time for Passenger Cars (\$/hour)	\$28.60	
	Value of Time for Combination Trucks (\$/hour)	\$28.60	
	value of Tillie for Combination Trucks (\$/flour)	\$28.00	
2.	Analysis Options		
	Include User Costs in Analysis	Yes	
	Include User Costs in Arialysis Include User Cost Remaining Life Value	Yes	
	Use Differential User Costs	Yes	
		Calculated	
	User Cost Computation Method	Yes	
	Include Agency Cost Remaining Life Value Traffic Direction	Both	
	Analysis Period (Years)	31	
	Beginning of Analysis Period	2021	
	Discount Rate (%)	7.0	
	Number of Alternatives	2	
2	Project Dataile		
3.	Project Details	0.000	
	State Route	SR63	0
	Project Name	State Route 63 Priority	Segment
	Region	OH	
	County	Warren	
	Analyzed By	Diana Martin	
	Mileposts		
	Begin	0.00	
	End	3.00	
	Length of Project (miles)	3.00	
	Comments		
4.	Traffic Data		
4.	Traffic Data AADT Construction Year (total for both directions)	20,600	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%)	91.0	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%)	91.0 2.0	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%)	91.0	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%)	91.0 2.0	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%)	91.0 2.0 7.0	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%)	91.0 2.0 7.0 3.2	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph)	91.0 2.0 7.0 3.2	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl)	91.0 2.0 7.0 3.2 55	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution	91.0 2.0 7.0 3.2 55 2 1900	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution Queue Dissipation Capacity (vphpl)	91.0 2.0 7.0 3.2 55 2 1900 Rural 1100	
4.	Traffic Data AADT Construction Year (total for both directions) Cars as Percentage of AADT (%) Single Unit Trucks as Percentage of AADT (%) Combination Trucks as Percentage of AADT (%) Annual Growth Rate of Traffic (%) Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution	91.0 2.0 7.0 3.2 55 2 1900 Rural	

nstruction	4.L. and Division	- D	- L - 4	A14	A Lawre Division	1 D	- la - l
		d - Pavement Reha	ab 1	Alternative 2		d - Pavement Re	<u>ehab</u>
Number of Activities	2			Number of Activities	2		
Activity 1	INITIAL BUILD			Activity 1	INITIAL BUILD		_
Agency Construction Cost (\$1000)	\$0.00	<u>, </u>		Agency Construction Cost (\$1000)	\$0.00		_
User Work Zone Costs (\$1000)	Ψ0.00			User Work Zone Costs (\$1000)	\$0.00		
Work Zone Duration (days)	0			Work Zone Duration (days)	0		
No of Lanes Open in Each Direction During Work	9			No of Lanes Open in Each Direction During Wor	L 1		
Activity Service Life (years)	16.0			Activity Service Life (years)	16.0		_
Activity Service Life (years) Activity Structural Life (years)	16.0			Activity Service Life (years) Activity Structural Life (years)	16.0		
Maintenance Frequency (years)	10.0			Maintenance Frequency (years)	16.0		
	51				51		
Agency Maintenance Cost (\$1000)	0.00			Agency Maintenance Cost (\$1000)			
Work Zone Length (miles)				Work Zone Length (miles)	0.00		
Work Zone Speed Limit (mph)	45			Work Zone Speed Limit (mph)	45		
Work Zone Capacity (vphpl)	1000			Work Zone Capacity (vphpl)	1000		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole numbe				Time of Day of Lane Closures (use whole numb			
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
·				•			
Activity 2	SURFACE WE	EARING COURSE	REPLACE	Activity 2	SURFACE WI	EARING COURS	SE R
Agency Construction Cost (\$1000)	\$750.00			Agency Construction Cost (\$1000)	\$750.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	75			Work Zone Duration (days)	75		
No of Lanes Open in Each Direction During Work	1			No of Lanes Open in Each Direction During Wor	1		
Activity Service Life (years)	15.0			Activity Service Life (years)	15.0		
Activity Structural Life (years)	15.0			Activity Structural Life (years)	15.0		
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	51			Agency Maintenance Cost (\$1000)	51		
Work Zone Length (miles)	3.00			Work Zone Length (miles)	3.00		
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	500			Work Zone Capacity (vphpl)	500		
	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole numbe		24 have alask)		Time of Day of Lane Closures (use whole numb		24 have alask)	
Inbound	Start			Inbound	Start		
	Start	End 15			Start	End 15	
First period of lane closure	/	15		First period of lane closure	/	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure	-	10		Second period of lane closure		10	
Third period of lane closure				Third period of lane closure			
				Third period of falle closure			

_		Total Cost			
	Alterna	ative 1	Alternative 2		
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)	
Undiscounted Sum	\$2,229.00	\$6,259.14	\$2,229.00	\$6,259.14	
Present Value	\$869.64	\$2,120.19	\$869.64	\$2,120.19	
EUAC	\$69.39	\$169.18	\$69.39	\$169.18	
Lowest Present Value Agency Cost		Alternative 1			
Lowest Present Value	e User Cost	Alternative 1			

WCTID SR 63 Probabilistic Life Cycle Cost Analysis Worksheet

	DUT WORKSUEET		
IN	PUT WORKSHEET		
1.			
	Value of Time for Passenger Cars (\$/hour)	\$14.80	
	Value of Time for Single Unit Trucks (\$/hour)	\$28.60	
	Value of Time for Combination Trucks (\$/hour)	\$28.60	
2 .	Analysis Options		
	Include User Costs in Analysis	Yes	
	Include User Cost Remaining Life Value	Yes	
	Use Differential User Costs	Yes	
	User Cost Computation Method	Calculated	
	Include Agency Cost Remaining Life Value	Yes	
	Traffic Direction	Both	
	Analysis Period (Years)	31	
	Beginning of Analysis Period	2021	
	Discount Rate (%)	7.0	
	Number of Alternatives	2	
3.	Project Details		
	State Route	SR63	
	Project Name	State Route 63 Priority Segment	
	Region	OH	
	County	Warren	
	Analyzed By	Diana Martin	
	Mileposts	Diaria Martin	
	Begin	0.00	
	End	3.00	
	Length of Project (miles)	3.00	
	Length of Project (miles)	3.00	
	Occurred to		
	Comments		
	Troffic Data		
4.	Traffic Data	20,000	
	AADT Construction Year (total for both directions)	20,600	
	Cars as Percentage of AADT (%)	91.0	
	Single Unit Trucks as Percentage of AADT (%)	2.0	
	Combination Trucks as Percentage of AADT (%)	7.0	
	Annual Growth Rate of Traffic (%)	3.2	
L	Speed Limit Under Normal Operating Conditions (mph)	55	
	No of Lanes in Each Direction During Normal Conditions	2	
	Free Flow Capacity (vphpl)	1900	
	Rural or Urban Hourly Traffic Distribution	Rural	
	Queue Dissipation Capacity (vphpl)	1100	
	Maximum AADT (total for both directions)	40,000	
	Maximum Queue Length (miles)	1.0	
	5 (,		

WCTID SR 63 Probabilistic Life Cycle Cost Analysis Worksheet

Alternative 1	4-Lane Divide	d - Culverts 1	Alternative 2	4-Lane Divided	d - Culverts 2
Number of Activities	1		Number of Activities	1	
Activity 1	INITIAL BUILD)	Activity 1	INITIAL BUILD)
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Work	1		No of Lanes Open in Each Direction During Wo	+ <mark>1</mark>	
Activity Service Life (years)	31.0		Activity Service Life (years)	31.0	
Activity Structural Life (years)	31.0		Activity Structural Life (years)	31.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	7		Agency Maintenance Cost (\$1000)	7	
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00	
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number	rs based on a	24-hour clock)	Time of Day of Lane Closures (use whole numb	ers based on a 2	24-hour clock)
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		

		Total Cost			
	Altern	ative 1	Alternative 2		
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)	
Undiscounted Sum	\$210.00	\$0.00	\$210.00	\$0.00	
Present Value	\$86.86	\$0.00	\$86.86	\$0.00	
EUAC	\$6.93	\$0.00	\$6.93	\$0.00	
Lowest Present Valu	e Agency Cost	Alternative 1			
Lowest Present Valu	e User Cost	Alternative 1			

INPUT WORKSHEET	
INFOT WORKSTILLT	
1. Economic Variables	
	¢14.00
Value of Time for Passenger Cars (\$/hour)	\$14.80
Value of Time for Single Unit Trucks (\$/hour)	\$28.60
Value of Time for Combination Trucks (\$/hour)	\$28.60
2. Analysis Options	
Include User Costs in Analysis	Yes
Include User Cost Remaining Life Value	Yes
Use Differential User Costs	Yes
User Cost Computation Method	Calculated
Include Agency Cost Remaining Life Value	Yes
Traffic Direction	Both
Analysis Period (Years)	31
Beginning of Analysis Period	2021
Discount Rate (%)	7.0
Number of Alternatives	2
3. Project Details	
State Route	SR63
Project Name	State Route 63 Priority Segment
Region	OH
County	Warren
Analyzed By	Diana Martin
Mileposts	
Begin	0.00
End	3.00
Length of Project (miles)	3.00
Comments	
4. Traffic Data	
AADT Construction Year (total for both directions)	20,600
Cars as Percentage of AADT (%)	91.0
Single Unit Trucks as Percentage of AADT (%)	2.0
Combination Trucks as Percentage of AADT (%)	7.0
Annual Growth Rate of Traffic (%)	3.2
Speed Limit Under Normal Operating Conditions (mph)	55
No of Lanes in Each Direction During Normal Conditions	2
Free Flow Capacity (vphpl)	1900
Rural or Urban Hourly Traffic Distribution	Rural
Queue Dissipation Capacity (vphpl)	1100
Maximum AADT (total for both directions)	40,000
Maximum Queue Length (miles)	1.0
Mayillalli Anene Fellâlli (Illilez)	1.0

Construction						
Alternative 1	4-Lane Divide	d - Drainage Rehab 1	Alternative 2	4-Lane Divide	d - Drainage Reha	ab 2
Number of Activities	2		Number of Activities	2		
Activity 1	INITIAL BUILD)	Activity 1	INITIAL BUILI)	
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00		
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)			
Work Zone Duration (days)	0		Work Zone Duration (days)	0		
No of Lanes Open in Each Direction During Work			No of Lanes Open in Each Direction During Wor			
Activity Service Life (years)	16.0		Activity Service Life (years)	16.0		
Activity Structural Life (years)	16.0		Activity Structural Life (years)	16.0		
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	2		Agency Maintenance Cost (\$1000)	2		
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00		
Work Zone Speed Limit (mph)	50		Work Zone Speed Limit (mph)	50		
Work Zone Capacity (vphpl)	750		Work Zone Capacity (vphpl)	750		
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number			Time of Day of Lane Closures (use whole numb			
Inbound	Start	End	Inbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Outbound	Start	End	Outbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Activity 2	MA IOD ODEN	DRAINAGE REHAB	Activity 2	MA IOD ODE	N DRAINAGE REH	LIAD
Activity 2 Agency Construction Cost (\$1000)	\$180.00	DRAINAGE REHAD	Activity 2 Agency Construction Cost (\$1000)	\$180.00	V DRAINAGE REF	пав
User Work Zone Costs (\$1000)	\$100.00		User Work Zone Costs (\$1000)	\$100.00		
	30			30		
Work Zone Duration (days)			Work Zone Duration (days)			
No of Lanes Open in Each Direction During Work Activity Service Life (years)	15.0		No of Lanes Open in Each Direction During Wor	15.0		
	15.0		Activity Service Life (years)	15.0		
Activity Structural Life (years)	15.0		Activity Structural Life (years)	15.0		
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000) Work Zone Length (miles)	3.00		Agency Maintenance Cost (\$1000)	3.00		
			Work Zone Length (miles)			
Work Zone Speed Limit (mph)	50		Work Zone Speed Limit (mph)	50 750		
Work Zone Capacity (vphpl)	750		Work Zone Capacity (vphpl)	Week Day 1		
Traffic Hourly Distribution	Week Day 1	24 havin alaak)	Traffic Hourly Distribution		24 have alask)	
Time of Day of Lane Closures (use whole numbe		24-hour clock) End	Time of Day of Lane Closures (use whole numb			
	Start			Start 7	End	
First period of lane closure	7	15	First period of lane closure	/	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Outbound	Start	End	Outbound	Start	End	
	7	15	First period of lane closure	7	15	
			i iist polica of latte closure		10	
First period of lane closure			Second period of lane closure			
			Second period of lane closure Third period of lane closure			

		Total Cost			
	Altern	ative 1	Alternative 2		
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)	
Undiscounted Sum	\$238.00	\$1,628.73	\$238.00	\$1,628.73	
Present Value	\$85.11	\$551.71	\$85.11	\$551.71	
EUAC	\$6.79	\$44.02	\$6.79	\$44.02	
Lowest Present Valu	e Agency Cost	Alternative 1			
Lowest Present Value User Cost		Alternative 1			

INPUT WORKSHEET	
INFOT WORKSTILLT	
1. Economic Variables	
	¢14.00
Value of Time for Passenger Cars (\$/hour)	\$14.80
Value of Time for Single Unit Trucks (\$/hour)	\$28.60
Value of Time for Combination Trucks (\$/hour)	\$28.60
2. Analysis Options	
Include User Costs in Analysis	Yes
Include User Cost Remaining Life Value	Yes
Use Differential User Costs	Yes
User Cost Computation Method	Calculated
Include Agency Cost Remaining Life Value	Yes
Traffic Direction	Both
Analysis Period (Years)	31
Beginning of Analysis Period	2021
Discount Rate (%)	7.0
Number of Alternatives	2
3. Project Details	
State Route	SR63
Project Name	State Route 63 Priority Segment
Region	OH
County	Warren
Analyzed By	Diana Martin
Mileposts	
Begin	0.00
End	3.00
Length of Project (miles)	3.00
Comments	
4. Traffic Data	
AADT Construction Year (total for both directions)	20,600
Cars as Percentage of AADT (%)	91.0
Single Unit Trucks as Percentage of AADT (%)	2.0
Combination Trucks as Percentage of AADT (%)	7.0
Annual Growth Rate of Traffic (%)	3.2
Speed Limit Under Normal Operating Conditions (mph)	55
No of Lanes in Each Direction During Normal Conditions	2
Free Flow Capacity (vphpl)	1900
Rural or Urban Hourly Traffic Distribution	Rural
Queue Dissipation Capacity (vphpl)	1100
Maximum AADT (total for both directions)	40,000
Maximum Queue Length (miles)	1.0
Mayillalli Anene Fellâlli (Illilez)	1.0

Construction							
Alternative 1		d - Major Shou	ulder Rehabilitati	Alternative 2	4-Lane Divide	<mark>d - Major Shou</mark>	lder Rehabil
Number of Activities	3			Number of Activities	3		
Activity 1	INITIAL BUILD)		Activity 1	INITIAL BUILE)	
Agency Construction Cost (\$1000)	\$0.00			Agency Construction Cost (\$1000)	\$0.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	0			Work Zone Duration (days)	0		
No of Lanes Open in Each Direction During Wor	1			No of Lanes Open in Each Direction During Wor	1		
Activity Service Life (years)	11.0			Activity Service Life (years)	11.0		
Activity Structural Life (years)	11.0			Activity Structural Life (years)	11.0		
Maintenance Frequency (years)	11.0			Maintenance Frequency (years)	11.0		
	45				45		
Agency Maintenance Cost (\$1000)	15			Agency Maintenance Cost (\$1000)	15		
Work Zone Length (miles)	0.00			Work Zone Length (miles)	0.00		
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)		Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)	
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure		.0	
			+				
Third period of lane closure			_	Third period of lane closure			
0.46	O4 :			0.46-	0/ 1		
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Activity 2	MAJOR SHOU	JLDER REHA	В	Activity 2	MAJOR SHOU	JLDER REHA	3
Agency Construction Cost (\$1000)	\$123.00			Agency Construction Cost (\$1000)	\$123.00		
User Work Zone Costs (\$1000)	\$120.00			User Work Zone Costs (\$1000)	ψ120.00		
Work Zone Duration (days)	20			Work Zone Duration (days)	20		
	30				30		
No of Lanes Open in Each Direction During Wor	2			No of Lanes Open in Each Direction During Wor			
Activity Service Life (years)	10.0			Activity Service Life (years)	10.0		
Activity Structural Life (years)	10.0			Activity Structural Life (years)	10.0		
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	15			Agency Maintenance Cost (\$1000)	15		
Work Zone Length (miles)	3.00			Work Zone Length (miles)	3.00		
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750		
	750				100		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number				Time of Day of Lane Closures (use whole number			
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
<u>'</u>				•			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure	- 1	- 13	+	Second period of lane closure		13	
Third period of lane closure			-	Third period of lane closure			
A -41-16- A	NA 105 61/5	II DED SELLE		A - 42-24 - 0	144 105 01	II DED DEL	
Activity 3		JLDER REHA	R	Activity 3		JLDER REHA	3
Agency Construction Cost (\$1000)	\$123.00			Agency Construction Cost (\$1000)	\$123.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	30			Work Zone Duration (days)	30		
No of Lanes Open in Each Direction During Wor	2			No of Lanes Open in Each Direction During Wor	2		
Activity Service Life (years)	10.0			Activity Service Life (years)	10.0		
Activity Structural Life (years)	10.0			Activity Structural Life (years)	10.0		
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	15			Agency Maintenance Cost (\$1000)	15		
	3.00			Agency Maniteffance Cost (\$1000)	3.00		
Work Zone Length (miles)				Work Zone Length (miles)			
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)		Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)	
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure		10		Second period of lane closure		10	
Third period of lane closure				Third period of lane closure			
Tillia pelloa di lalle closule			_	Third period of idile closure			
0.46	Ot :			0.46-	0/ 1		
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Second period of lane closure							
Third period of lane closure			1	Third period of lane closure			

_	_	Total Cost		
	Alternative 1		Alternat	ive 2
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)
Undiscounted Sum	\$666.00	\$381.41	\$666.00	\$381.41
Present Value	\$263.53	\$129.70	\$263.53	\$129.70
EUAC	\$21.03	\$10.35	\$21.03	\$10.35
Lowest Present Value	e Agency Cost	Alternative 1		
Lowest Present Value	e User Cost	Alternative 1		

INPUT WORKS	SHEET		
iiii o i workik			
1. Economic Va	ariahles		
	for Passenger Cars (\$/hour)	\$14.80	
	for Single Unit Trucks (\$/hour)	\$28.60	
	for Combination Trucks (\$/hour)	\$28.60	
Value of Time	ioi Combination Tracks (which)	Ψ20.00	
2. Analysis Opt	ions		
	costs in Analysis	Yes	
	Cost Remaining Life Value	Yes	
Use Differentia		Yes	
	nputation Method	Calculated	
	y Cost Remaining Life Value	Yes	
Traffic Directio		Both	
Analysis Perio		31	
Beginning of A		2021	
Discount Rate		7.0	
Number of Alte		2	
Number of Alle	JIII LIIV GO		
3. Project Detai	le .		
State Route		SR63	
Project Name			3 Priority Segment
Region		OH OH	of Honly Segment
County		Warren	
Analyzed By		Diana Martin	
Mileposts		Diana Martin	
Begin		0.00	
End		3.00	
Length of Proje	act (miles)	3.00	
Lengurorroje	set (miles)	3.00	
Comments			
Comments			
4. Traffic Data			
	ction Year (total for both directions)	20,600	
	ntage of AADT (%)	91.0	
	icks as Percentage of AADT (%)	2.0	
	rucks as Percentage of AADT (%)	7.0	
	Rate of Traffic (%)	3.2	
	nder Normal Operating Conditions (mph)	55	
		2	
	Each Direction During Normal Conditions		
Free Flow Cap	• • • • • • • • • • • • • • • • • • • •	1900	
	Hourly Traffic Distribution	Rural	
•	tion Capacity (vphpl)	1100	
	OT (total for both directions)	40,000	
iviaximum Que	ue Length (miles)	1.0	

onstruction						
Alternative 1		d - Guardrail F	Replacement 1	Alternative 2	100	ed - Guardrail Replacem
Number of Activities	2			Number of Activities	2	
Activity 1	INITIAL BUILD)		Activity 1	INITIAL BUIL	D
Agency Construction Cost (\$1000)	\$0.00			Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)	\$0.00			User Work Zone Costs (\$1000)	\$0.00	
Work Zone Duration (days)	0			Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Worl	k 1			No of Lanes Open in Each Direction During Wor	1 1	
Activity Service Life (years)	18.0			Activity Service Life (years)	18.0	
Activity Structural Life (years)	18.0			Activity Structural Life (years)	18.0	
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0	
Work Zone Length (miles)	0.00			Work Zone Length (miles)	0.00	
Work Zone Speed Limit (mph)	25			Work Zone Speed Limit (mph)		
Work Zone Capacity (vphpl)	500			Work Zone Capacity (vphpl)	25 500	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number		24-hour clock)		Time of Day of Lane Closures (use whole numb		24-hour clock)
Inbound	Start	End		Inbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
Tima ported of faile diocare				Time period of faile diodate		
Outbound	Start	End		Outbound	Start	End
First period of lane closure	7	15		First period of lane closure		15
Second period of lane closure	•			Second period of lane closure		
Third period of lane closure				Third period of lane closure		
				•		
Activity 2	GUARDRAIL	REPLACEME	NT 1	Activity 2	GUARDRAIL	REPLACEMENT 2
Agency Construction Cost (\$1000)	\$159.00			Agency Construction Cost (\$1000)	\$159.00	
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)		
Work Zone Duration (days)	20			Work Zone Duration (days)	20	
No of Lanes Open in Each Direction During Worl	1.5			No of Lanes Open in Each Direction During Wor	1.5	
Activity Service Life (years)	13.0			Activity Service Life (years)	13.0	
Activity Structural Life (years)	18.0			Activity Structural Life (years)	18.0	
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0	
Work Zone Length (miles)	0.50			Work Zone Length (miles)	0.50	
Work Zone Speed Limit (mph)	25			Work Zone Speed Limit (mph)	25	
Work Zone Capacity (vphpl)	500			Work Zone Capacity (vphpl)	500	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number	ers based on a 2	24-hour clock)		Time of Day of Lane Closures (use whole numb	ers based on a	24-hour clock)
Inbound	Start	End		Inbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
Outbound	Start	End		Outbound	Start	End
First period of lane closure	SIAIT	Ena 15			Start	End 15
	/	15		First period of lane closure	/	15
Second period of lane closure				Second period of lane closure Third period of lane closure		
Third period of lane closure						

_		Total Cost		
	Alternative 1		Alternat	ive 2
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)
Undiscounted Sum	\$114.83	\$927.46	\$114.83	\$927.46
Present Value	\$41.62	\$336.15	\$41.62	\$336.15
EUAC	\$3.32	\$26.82	\$3.32	\$26.82
Lowest Present Value	e Agency Cost	Alternative 1		
Lowest Present Value	e User Cost	Alternative 1		

INPUT WORKSHEET	
INFOT WORKSTILLT	
1. Economic Variables	
Value of Time for Passenger Cars (\$/hour)	\$14.80
Value of Time for Single Unit Trucks (\$/hour)	\$28.60
Value of Time for Combination Trucks (\$/hour)	\$28.60
value of Time for Combination Tracks (whoth)	Ψ20.00
2. Analysis Options	
Include User Costs in Analysis	Yes
Include User Cost Remaining Life Value	Yes
Use Differential User Costs	Yes
User Cost Computation Method	Calculated
Include Agency Cost Remaining Life Value	Yes
Traffic Direction	Both
Analysis Period (Years)	31
Beginning of Analysis Period	2021
Discount Rate (%)	7.0
Number of Alternatives	2
INUITIDE OF AIRCHIAITYES	
3. Project Details	
State Route	SR63
Project Name	State Route 63 Priority Segment
Region	OH
County	Warren
Analyzed By	Diana Martin
Mileposts	Diaria iviaruii
•	0.00
Begin End	3.00
	3.00
Length of Project (miles)	3.00
Comments	
4. Traffic Data	
AADT Construction Year (total for both directions)	20,600
Cars as Percentage of AADT (%)	91.0
Single Unit Trucks as Percentage of AADT (%)	2.0
Combination Trucks as Percentage of AADT (%)	7.0
Annual Growth Rate of Traffic (%)	3.2
Speed Limit Under Normal Operating Conditions (mph)	55
No of Lanes in Each Direction During Normal Conditions	2
Free Flow Capacity (vphpl)	1900
Rural or Urban Hourly Traffic Distribution	Rural
Queue Dissipation Capacity (vphpl)	1150
Maximum AADT (total for both directions)	40,000
Maximum Queue Length (miles)	1.0

Alternative 1	4-Lane Divide	d - Major Graded Median Reha	Alternative 2	4-Lane Divide	d - Major Graded Media
Number of Activities	3	a major Oracea Medicin Men	Number of Activities	3	ajor Oradou Media
Trained of Fredridge			Name of North Co		
Activity 1	INITIAL BUILD)	Activity 1	INITIAL BUILD	
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Work	2		No of Lanes Open in Each Direction During Wor		
Author Complex Life (complex)	44.0				
Activity Service Life (years)	11.0		Activity Service Life (years)	11.0	
Activity Structural Life (years)	11.0		Activity Structural Life (years)	11.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	4		Agency Maintenance Cost (\$1000)	4	
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00	
Work Zone Speed Limit (mph)	50		Work Zone Speed Limit (mph)	50	
Work Zone Capacity (vphpl)	1150		Work Zone Capacity (vphpl)	1150	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number		24-hour clock)	Time of Day of Lane Closures (use whole number		24-hour clock)
Inbound	Start	End	Inbound	Start	End
First period of lane closure	Start	LIIU 45		Start	15
		15	First period of lane closure		15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
p					
Activity 2	MAJOR GRAD	DED MEDIAN REHAB	Activity 2	MAJOR GRAI	DED MEDIAN REHAB
Agency Construction Cost (\$1000)	\$153.00	LO MEDIANTICIAD	Agency Construction Cost (\$1000)	\$153.00	VICE IN INCHARD
	\$100.00		User Work Zone Costs (\$1000)	\$100.00	
User Work Zone Costs (\$1000)					
Work Zone Duration (days)	30		Work Zone Duration (days)	30	
No of Lanes Open in Each Direction During Worl	2		No of Lanes Open in Each Direction During Wor		
Activity Service Life (years)	10.0		Activity Service Life (years)	10.0	
Activity Structural Life (years)	10.0		Activity Structural Life (years)	10.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	A		Agency Maintenance Cost (\$1000)		
Work Zone Length (miles)	3.00		Work Zone Length (miles)	3.00	
Work Zone Speed Limit (mph)	50		Work Zone Speed Limit (mph)	50	
Work Zone Capacity (vphpl)	1150		Work Zone Capacity (vphpl)	1150	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number	rs based on a 2		Time of Day of Lane Closures (use whole number	ers based on a	
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Tima polica di lano diodaro			Tima portoa el tarto diocaro		
Outbound	Start	End	Outbound	Start	End
	Start			Start	
First period of lane closure	/	15	First period of lane closure	/	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Activity 3	MAJOR GRAD	DED MEDIAN REHAB	Activity 3	MAJOR GRAI	DED MEDIAN REHAB
Agency Construction Cost (\$1000)	\$153.00		Agency Construction Cost (\$1000)	\$153.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	30		Work Zone Duration (days)	30	
No of Lanes Open in Each Direction During Worl	2		No of Lanes Open in Each Direction During Wor	, 2	
Activity Service Life (years)	10.0		Activity Service Life (years)	10.0	
	10.0			.0.0	
Activity Structural Life (years)	10.0		Activity Structural Life (years)	10.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	4		Agency Maintenance Cost (\$1000)	4	
Work Zone Length (miles)	3.00		Work Zone Length (miles)	3.00	
Work Zone Speed Limit (mph)	50		Work Zone Speed Limit (mph)	50	
Work Zone Capacity (vphpl)	1150		Work Zone Capacity (vphpl)	1150	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number		24-hour clock)	Time of Day of Lane Closures (use whole number		24-hour clock)
Inbound	Start	End	Inbound	Start	End
	Jidil	15 End		Jidit	15 End
First period of lane closure	/	19	First period of lane closure	/	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
			Third period of lane closure		
Third period of lane closure					

Total Cost							
	Alternative 1		Alternat	ive 2			
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)			
Undiscounted Sum	\$418.00	\$110.77	\$418.00	\$110.77			
Present Value	\$156.41	\$37.67	\$156.41	\$37.67			
EUAC	\$12.48	\$3.01	\$12.48	\$3.01			
Lowest Present Value	e Agency Cost	Alternative 1					
Lowest Present Value	e User Cost	Alternative 1					

\$14.20	
Ψ20.00	
Vac	
7.0	
CD62	
Diana Martin	
0.00	
3.00	
20,600	
20,600 91.0	
<u> </u>	
91.0	
91.0 2.0	
91.0 2.0 7.0	
91.0 2.0 7.0 3.2	
91.0 2.0 7.0 3.2	
91.0 2.0 7.0 3.2 55 2	
91.0 2.0 7.0 3.2 55 2 1900 Rural	
91.0 2.0 7.0 3.2 55 2 1900 Rural 1100	
91.0 2.0 7.0 3.2 55 2 1900 Rural	
	\$14.20 \$28.60 \$28.60 \$28.60 Yes Yes Yes Calculated Yes Both 31 2021 7.0 2 SR63 State Route 63 Priority Segment OH Warren Diana Martin 0.00 3.00 3.00 3.00 3.00

onstruction					
Alternative 1	4-Lane Divided	d - Median Cable Barrier Repa	Alternative 2	4-Lane Divide	ed - Median Cable Ba
Number of Activities	2		Number of Activities	2	
Activity 1	INITIAL BUILD		Activity 1	INITIAL BUILI	D
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Worl	1		No of Lanes Open in Each Direction During Wor	1	
Activity Service Life (years)	20.0		Activity Service Life (years)	20.0	
Activity Structural Life (years)	20.0		Activity Structural Life (years)	20.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0	
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00	
Work Zone Speed Limit (mph)	50		Work Zone Speed Limit (mph)	50	
Work Zone Capacity (vphpl)	1150		Work Zone Capacity (vphpl)	1150	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number	ers based on a 2	24-hour clock)	Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
·			·		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Activity 2		LE BARRIER REPLACEMENT	Activity 2		LE BARRIER REPL
Agency Construction Cost (\$1000)	\$366.00		Agency Construction Cost (\$1000)	\$366.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	70		Work Zone Duration (days)	70	
No of Lanes Open in Each Direction During Work	2		No of Lanes Open in Each Direction During Wor	2	
Activity Service Life (years)	11.0		Activity Service Life (years)	11.0	
Activity Structural Life (years)	20.0		Activity Structural Life (years)	20.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0	
Work Zone Length (miles)	3.00		Work Zone Length (miles)	3.00	
Work Zone Speed Limit (mph)			Work Zone Speed Limit (mph)		
	50				
Work Zone Capacity (vphpl)	1150		Work Zone Capacity (vphpl)	1150	
Work Zone Capacity (vphpl) Traffic Hourly Distribution	1150 Week Day 1		Work Zone Capacity (vphpl) Traffic Hourly Distribution	Week Day 1	
Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	1150 Week Day 1 ers based on a 2		Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number	Week Day 1 ers based on a	
Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound	1150 Week Day 1	End	Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound	Week Day 1	End
Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	1150 Week Day 1 ers based on a 2		Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure	Week Day 1 ers based on a	
Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound	Meek Day 1 ers based on a 2 Start	End	Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound	Week Day 1 ers based on a Start	End
Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	Meek Day 1 ers based on a 2 Start	End	Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure	Week Day 1 ers based on a Start	End
Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	1150 Week Day 1 ers based on a 2 Start 7	End 15	Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure	Week Day 1 ers based on a Start 7	End 15
Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	Meek Day 1 ers based on a 2 Start	End	Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	Week Day 1 ers based on a Start	End 15
Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	1150 Week Day 1 ers based on a 2 Start 7	End 15	Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	Week Day 1 ers based on a Start 7	End 15
Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	1150 Week Day 1 ers based on a 2 Start 7	End 15	Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	Week Day 1 ers based on a Start 7	End 15

Total Cost							
	Alternative 1		Alternat	tive 2			
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)			
Undiscounted Sum	\$201.30	\$77.58	\$201.30	\$77.58			
Present Value	\$74.36	\$28.66	\$74.36	\$28.66			
EUAC	\$5.93	\$2.29	\$5.93	\$2.29			
Lowest Present Value	e Agency Cost	Alternative 1					
Lowest Present Value	e User Cost	Alternative 1					

INPUT WORKSHEET	
INFOT WORKSTILLT	
1. Economic Variables	
	¢14.00
Value of Time for Passenger Cars (\$/hour)	\$14.80
Value of Time for Single Unit Trucks (\$/hour)	\$28.60
Value of Time for Combination Trucks (\$/hour)	\$28.60
2. Analysis Options	
Include User Costs in Analysis	Yes
Include User Cost Remaining Life Value	Yes
Use Differential User Costs	Yes
User Cost Computation Method	Calculated
Include Agency Cost Remaining Life Value	Yes
Traffic Direction	Both
Analysis Period (Years)	31
Beginning of Analysis Period	2021
Discount Rate (%)	7.0
Number of Alternatives	2
3. Project Details	
State Route	SR63
Project Name	State Route 63 Priority Segment
Region	OH
County	Warren
Analyzed By	Diana Martin
Mileposts	
Begin	0.00
End	3.00
Length of Project (miles)	3.00
Comments	
4. Traffic Data	
AADT Construction Year (total for both directions)	20,600
Cars as Percentage of AADT (%)	91.0
Single Unit Trucks as Percentage of AADT (%)	2.0
Combination Trucks as Percentage of AADT (%)	7.0
Annual Growth Rate of Traffic (%)	3.2
Speed Limit Under Normal Operating Conditions (mph)	55
No of Lanes in Each Direction During Normal Conditions	2
Free Flow Capacity (vphpl)	1900
Rural or Urban Hourly Traffic Distribution	Rural
Queue Dissipation Capacity (vphpl)	1100
Maximum AADT (total for both directions)	40,000
Maximum Queue Length (miles)	1.0
Mayillalli Anene Fellâlli (Illilez)	1.0

onstruction							
Alternative 1	4-Lane Divided	d - Overhead	Signs and Signa	Alternative 2	4-Lane Divide	d - Overhead S	igns and
Number of Activities	2			Number of Activities	2		
	INITIAL BUILD)		Activity 1	INITIAL BUILI)	
Agency Construction Cost (\$1000)	\$0.00			Agency Construction Cost (\$1000)	\$0.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	0			Work Zone Duration (days)	0		
No of Lanes Open in Each Direction During Work	1			No of Lanes Open in Each Direction During Wor			
Activity Service Life (years)	16.0			Activity Service Life (years)	16.0		
Activity Structural Life (years)	16.0			Activity Structural Life (years)	16.0		
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	7			Agency Maintenance Cost (\$1000)	7		
Work Zone Length (miles)	0.00			Work Zone Length (miles)	0.00		
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750		
	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number)	Time of Day of Lane Closures (use whole numb			
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15	•	First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15	i	First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Activity 2	DEDLACE OV	EDHEVD SIG	SNS AND SIGNA	Activity 2	DEDLACE ON	/ERHEAD SIGN	IS AND
Agency Construction Cost (\$1000)	\$945.00	ENHEAD SIC	AND SIGNA	Agency Construction Cost (\$1000)	\$945.00	I SIGI	NO AINL
User Work Zone Costs (\$1000)	\$945.00			User Work Zone Costs (\$1000)	\$840.00		
Work Zone Duration (days)	0.4			Work Zone Duration (days)	24		
No of Lanes Open in Each Direction During Work	1			No of Lanes Open in Each Direction During Wo			
Activity Service Life (years)	15.0			Activity Service Life (years)	15.0		
Activity Service Life (years) Activity Structural Life (years)	15.0			Activity Service Life (years) Activity Structural Life (years)	15.0		
	15.0				15.0		
Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	7			Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	1		
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10		
Work Zone Length (miles) Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40		
Work Zone Speed Limit (mpn) Work Zone Capacity (vphpl)	750			Work Zone Speed Limit (mpn) Work Zone Capacity (vphpl)	750		
	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number		24 hour de els		Time of Day of Lane Closures (use whole numb		24 hour clock	
Inhe of Day of Lane Closures (use whole number	s based on a 2 Start	24-nour clock		Integration of Day of Lane Closures (use whole numble Inbound	Start	End	
First period of lane closure	Sidil	<u>Ena</u>		First period of lane closure	Start	End 15	
Second period of lane closure		15		Second period of lane closure		15	
Third period of lane closure				Third period of lane closure			
Third period of farie closure				rniid penod oriane closure			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure			1	Second period of lane closure			
			 				
Third period of lane closure				Third period of lane closure			

		Total Cost				
	Alterna	ative 1	Alternat	ative 2		
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)		
Undiscounted Sum	\$1,148.00	\$1,284.61	\$1,148.00	\$1,284.61		
Present Value	\$404.60	\$435.14	\$404.60	\$435.14		
EUAC	\$32.29	\$34.72	\$32.29	\$34.72		
Lowest Present Valu	e Agency Cost	Alternative 1				
Lowest Present Valu	e User Cost	Alternative 1				

INI	PUT WORKSHEET		
114	FOI WORKSHEET		
1.	Economic Variables		
••	Value of Time for Passenger Cars (\$/hour)	\$14.80	
	Value of Time for Passenger Cars (\$\psi\noun)	\$28.60	
	Value of Time for Combination Trucks (\$/hour)	\$28.60	
	value of Time for Combination Trucks (without)	Ψ20.00	
2.	Analysis Options		
	Include User Costs in Analysis	Yes	
	Include User Cost Remaining Life Value	Yes	
	Use Differential User Costs	Yes	
	User Cost Computation Method	Calculated	
	Include Agency Cost Remaining Life Value	Yes	
	Traffic Direction	Both	
	Analysis Period (Years)	31	
	Beginning of Analysis Period	2021	
	Discount Rate (%)	7.0	
	Number of Alternatives	2	
	Number of Alternatives		
3.	Project Details		
٠.	State Route	SR63	
	Project Name	State Route 63 Priori	ity Seament
	Region	OH	ity Ocginicit
	County	Warren	
	Analyzed By	Diana Martin	
	Mileposts	Diana Martin	
	Begin	0.00	
	End	3.00	
	Length of Project (miles)	3.00	
	Length of Froject (miles)	0.00	
	Comments		
4.	Traffic Data		
	AADT Construction Year (total for both directions)	20,600	
	Cars as Percentage of AADT (%)	91.0	
	Single Unit Trucks as Percentage of AADT (%)	2.0	
	Combination Trucks as Percentage of AADT (%)	7.0	
	Annual Growth Rate of Traffic (%)	3.2	
	Speed Limit Under Normal Operating Conditions (mph)	55	
	No of Lanes in Each Direction During Normal Conditions	2	
	Free Flow Capacity (vphpl)	1900	
	Rural or Urban Hourly Traffic Distribution	Rural	
	Queue Dissipation Capacity (vphpl)	1100	
	Maximum AADT (total for both directions)	40,000	
	Maximum Queue Length (miles)	1.0	
	· · · · · · · · · · · · · · · · · · ·		
	waximum Queue Length (miles)	1.0	

Alternative 1	41	1 0 1		Allama attaca O	41 51	1 0 1	
Number of Activities	4-Lane Divide	ed - Outages 1		Alternative 2 Number of Activities	4-Lane Divide	ed - Outages 2	
Activity 1	SPOT INCIDE	ENT-CAUSED	REPAIR	Activity 1		NT-CAUSED F	REPAIR
Agency Construction Cost (\$1000)	\$55.00			Agency Construction Cost (\$1000)	\$55.00		
User Work Zone Costs (\$1000)	4.005.00			User Work Zone Costs (\$1000)	-		
Work Zone Duration (days)	1.00E+00			Work Zone Duration (days)	1		
No of Lanes Open in Each Direction During Work				No of Lanes Open in Each Direction During Worl	- 1		
Activity Service Life (years)	5.0			Activity Service Life (years)	5.0		
Activity Structural Life (years)	0.0			Activity Structural Life (years)	0.0		
Maintenance Frequency (years)	0			Maintenance Frequency (years)	0		
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10		
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number				Time of Day of Lane Closures (use whole number			
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	- /	15		First period of lane closure	/	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
	0						
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
	ODOT WOLD		DEBAIR		ODOT WOOD	THE CALLES	050410
Activity 2	SPUT INCIDE	ENT-CAUSED	REPAIR	Activity 2		NT-CAUSED F	KEPAIR
Agency Construction Cost (\$1000)	\$55.00	-		Agency Construction Cost (\$1000)	\$55.00	-	
User Work Zone Costs (\$1000)		-		User Work Zone Costs (\$1000)			
Work Zone Duration (days)	1			Work Zone Duration (days)	1		
No of Lanes Open in Each Direction During Work		-		No of Lanes Open in Each Direction During Worl	1		
Activity Service Life (years)	5.0			Activity Service Life (years)	5.0		
Activity Structural Life (years)	0.0			Activity Structural Life (years)	0.0		
Maintenance Frequency (years)	0			Maintenance Frequency (years)	0		
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10		
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number				Time of Day of Lane Closures (use whole number			
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
	ODOT INCIDE		DEDAIR		ODOT ILIOID		250410
Activity 3		ENT-CAUSED	REPAIR	Activity 3		ENT-CAUSED F	REPAIR
Agency Construction Cost (\$1000)	SPOT INCIDE \$55.00	ENT-CAUSED	REPAIR	Agency Construction Cost (\$1000)	SPOT INCIDE \$55.00	ENT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000)		ENT-CAUSED	REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000)		ENT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)	\$55.00 1	ENT-CAUSED	REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)		ENT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work	\$55.00 1	ENT-CAUSED	REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl	\$55.00 1	ENT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years)	\$55.00 1 1 5.0		REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years)	\$55.00 1 1 5.0	ENT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years)	\$55.00 1 1 5.0 0.0		REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years)	\$55.00 1 1 5.0 0.0	ENT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	\$55.00 1 1 5.0 0.0		REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Durstion (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	\$55.00 1 1 5.0 0.0	ENT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	\$55.00 1 1 5.0 0.0 0		REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	\$55.00 1 1 5.0 0.0 0	ENT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	\$55.00 1 1 5.00 0.00 0 0 0.10		REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	\$55.00 1 1 5.0 0.0 0 0 0.10	ENT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)	\$55.00 1 1 5.0 0.0 0		REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Dusts (\$1000) Work Zone Durstin (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)	\$55.00 1 1 5.0 0.0 0 0 0.10 40	ENT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl)	\$55.00 1 1 5.0 0.0 0 0 0.10 40 750		REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl)	\$55.00 1 1 5.0 0.0 0 0 0.10 40 750	ENT-CAUSED F	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution	\$55.00 1 1 5.0 0.0 0 0 0.10 40 750 Week Day 1		REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution	\$55.00 1 1 5.0 0.0 0 0 0 0.10 40 750 Week Day 1		REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	\$55.00 1 1 5.0 0.0 0 0 0.10 40 750 Week Day 1	24-hour clock)	REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Dusts (\$1000) Work Zone Durstion (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	\$55.00 1 1 5.0 0.0 0 0 0.10 40 750 Week Day 1	24-hour clock)	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	\$55.00 1 1 5.0 0.0 0 0 0.10 40 750 Week Day 1		REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	\$55.00 1 1 5.0 0.0 0 0 0 0.10 40 750 Week Day 1		REPAIR
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Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	\$55.00 1 1 5.0 0.0 0 0 0.10 40 750 Week Day 1	24-hour clock)	REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	\$55.00 1 1 5.0 0.0 0 0 0.10 40 750 Week Day 1	24-hour clock)	REPAIR
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Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Openacity (yephpl) Traffice Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$55.00 1 1 5.0 0.0 0 0 0.10 40 750 Week Day 1	24-hour clock) End 15	REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$55.00 1 1 5.0 0.0 0 0 0.10 40 750 Week Day 1	24-hour clock) End 15	REPAIR
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yohph) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$55.00 1 1 5.0 0.0 0 0 0 0.10 40 750 Week Day 1 rs based on a Start 7	24-hour clock) End	REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound) First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	\$55.00 1 1 5.00 0.0 0 0.10 40 750 Week Day 1 rs based on a Start 7	24-hour clock) End	REPAIR
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Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure	\$55.00 1 1 5.00 0.0 0 0.10 40 7500 Week Day 1 rs based on a Start 7	24-hour clock) End 15 End End 15		Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inhound) First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Second period of lane closure Second period of lane closure First period of lane closure Second period of lane closure Third period of lane closure	\$55.00 1 1 5.00 0.0 0 0.10 40 7500 Week Day 1 rs based on a Start 7	24-hour clock) End 15 End End 15	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Adamintenance Forequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yehpl) Traffice Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure	\$55.00 1 1 5.00 0.0 0 0.0 0 0.10 40 750 Week Day 1 1 rs based on a Start 7 Start 7 SPOT INCIDE	24-hour clock) End 15		Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Service Life (years) Maintenance Frequency (years) Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Outbound First period of lane closure Outbound First period of lane closure Second period of lane closure Activity 4	\$55.00 1 1 5.00 0.0 0 0 0.10 40 750 Week Day 1 rs based on a Start 7 Start 7 Start Start 7 SPOT INCIDE	24-hour clock) End 15	
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Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Service Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Second period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Agency Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	\$55.00 1 1 5.00 0.0 0 0.10 40 750 Week Day 1 rs based on a \$1 5.00 0.00 0.10 4.00 0.00 0.10 4.00 0.10 4.00 0.10 4.00 0.10 4.00 0.10 4.00 0.10 0.1	24-hour clock) End 15 End 15 End 24-hour clock) End 24-hour clock) End	REPAIR	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Service Life (years) Maintenance Frequency (years) Maintenance Frequency (years) Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Admintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure	\$55.00 1 1 5.00 0.0 0 0.10 40 750 Week Day 1 s based on a Start 7 SPOT INCIDE \$55.00 0.0 0.10 40 40 750 Week Day 1 rs based on a Start 7	24-hour clock) End 15 End 15 End 24-hour clock) End 24-hour clock) End 15	REPAIR

Activity 5	SPOT INCIDE	NT-CAUSED	REPAIR	Activity 5	SPOT INCIDE	NT-CAUSED F
Agency Construction Cost (\$1000)	\$55.00	INT-ONOOLD	ILI AIIC	Agency Construction Cost (\$1000)	\$55.00	I
User Work Zone Costs (\$1000)	\$00.00			User Work Zone Costs (\$1000)	\$60.00	
Work Zone Duration (days)	1			Work Zone Duration (days)	1	
No of Lanes Open in Each Direction During Worl	k 1			No of Lanes Open in Each Direction During Wor	1	
Activity Service Life (years)	5.0			Activity Service Life (years)	5.0	
Activity Structural Life (years)	0.0			Activity Structural Life (years)	0.0	
Maintenance Frequency (years)	0.0			Maintenance Frequency (years)	0.0	
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0	
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10	
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number		l 24-hour clock)		Time of Day of Lane Closures (use whole number		24-hour clock)
Inbound	Start	End		Inbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	
Second period of lane closure	-	13		Second period of lane closure		13
Third period of lane closure				Third period of lane closure		
Third period of faire diodate				Third period of faile diodate		
Outbound	Start	End		Outbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
Second period of lane closure		10		Second period of lane closure		10
Third period of lane closure				Third period of lane closure		
Third period of faire diodate				Third period of faile diodate		
Activity 6	SPOT INCIDE	NT-CAUSED	REPAIR	Activity 6	SPOT INCIDE	ENT-CAUSED F
Agency Construction Cost (\$1000)	\$55.00			Agency Construction Cost (\$1000)	\$55.00	
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)		
Work Zone Duration (days)	1			Work Zone Duration (days)	1	
No of Lanes Open in Each Direction During Worl	1			No of Lanes Open in Each Direction During Wor	1	
Activity Service Life (years)	5.0			Activity Service Life (years)	5.0	
Activity Structural Life (years)	0.0			Activity Structural Life (years)	0.0	
Maintenance Frequency (years)	0.0			Maintenance Frequency (years)	0.0	
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0	
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10	
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number		l 24-hour clock)		Time of Day of Lane Closures (use whole number		24-hour clock)
Inbound	Start	End		Inhound	Start	End
	7	15		First period of lane closure	7	15
First period of lane closure		13		Second period of lane closure		13
First period of lane closure				Third period of lane closure		
Second period of lane closure				Third period of falle closure		
Second period of lane closure Third period of lane closure	Start	End		Outhound	Start	End
Second period of lane closure Third period of lane closure Outbound	Start	End		Outbound	Start	End
Second period of lane closure Third period of lane closure Outbound First period of lane closure	Start 7	End 15		First period of lane closure	Start 7	
Second period of lane closure Third period of lane closure Outbound						

_		Total Cost				
	Altern	ative 1	Alternat	ive 2		
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)		
Undiscounted Sum	\$330.00	\$220.70	\$330.00	\$220.70		
Present Value	\$166.45	\$65.57	\$166.45	\$65.57		
EUAC	\$13.28	\$5.23	\$13.28	\$5.23		
Lowest Present Value	e Agency Cost	Alternative 1				
Lowest Present Value	e User Cost	Alternative 1				

REALCOST INPUT AND RESULTS 4-LANE UNDIVIDED EXPANSION SCENARIO

INPUT WORKSHEET	
INFOT WORKSTILLT	
1. Economic Variables	
	¢14.00
Value of Time for Passenger Cars (\$/hour)	\$14.80
Value of Time for Single Unit Trucks (\$/hour)	\$28.60
Value of Time for Combination Trucks (\$/hour)	\$28.60
2. Analysis Options	
Include User Costs in Analysis	Yes
Include User Cost Remaining Life Value	Yes
Use Differential User Costs	Yes
User Cost Computation Method	Calculated
Include Agency Cost Remaining Life Value	Yes
Traffic Direction	Both
Analysis Period (Years)	31
Beginning of Analysis Period	2021
Discount Rate (%)	7.0
Number of Alternatives	2
3. Project Details	
State Route	SR63
Project Name	State Route 63 Priority Segment
Region	OH
County	Warren
Analyzed By	Diana Martin
Mileposts	
Begin	0.00
End	3.00
Length of Project (miles)	3.00
Comments	
4. Traffic Data	
AADT Construction Year (total for both directions)	20,600
Cars as Percentage of AADT (%)	91.0
Single Unit Trucks as Percentage of AADT (%)	2.0
Combination Trucks as Percentage of AADT (%)	7.0
Annual Growth Rate of Traffic (%)	3.2
Speed Limit Under Normal Operating Conditions (mph)	55
No of Lanes in Each Direction During Normal Conditions	2
Free Flow Capacity (vphpl)	1900
Rural or Urban Hourly Traffic Distribution	Rural
Queue Dissipation Capacity (vphpl)	1100
Maximum AADT (total for both directions)	40,000
Maximum Queue Length (miles)	1.0
Mayillalli Anene Fellâlli (Illilez)	1.0

Alternative 1	4-Lane Undivi	ded Expansion	n Year10 - Initial	Alternative 2	4-Lane Undiv	ided Expansion	Year 10
Number of Activities	1			Number of Activities	1		
Activity 1	INITIAL BUILD)		Activity 1	INITIAL BUILI)	
Agency Construction Cost (\$1000)	\$24,000.00			Agency Construction Cost (\$1000)	\$24,000.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	365			Work Zone Duration (days)	365		
No of Lanes Open in Each Direction During World	1			No of Lanes Open in Each Direction During Worl	1		
Activity Service Life (years)	11.0			Activity Service Life (years)	11.0		
Activity Structural Life (years)	31.0			Activity Structural Life (years)	31.0		
Maintenance Frequency (years)	0			Maintenance Frequency (years)	0		
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	3.00			Work Zone Length (miles)	3.00		
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	500			Work Zone Capacity (vphpl)	500		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number	rs based on a	24-hour clock)		Time of Day of Lane Closures (use whole number	imbers based on a 24-hour clock)		
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			

		Total Cost				
	Altern	ative 1	Alternative 2			
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)		
Undiscounted Sum	\$24,000.00	\$13,319.21	\$24,000.00	\$13,319.21		
Present Value	\$24,000.00	\$13,319.21	\$24,000.00	\$13,319.21		
EUAC	\$1,915.13	\$1,062.83	\$1,915.13	\$1,062.83		
Lowest Present Valu	e Agency Cost	Alternative 1				
Lowest Present Valu	e User Cost	Alternative 1				

INPUT WORKSHEET		
INFOT WORKSHELT		
1. Economic Variables		
Value of Time for Passenger Cars (\$/hour)	\$14.80	
Value of Time for Passenger Cars (\$\pi\nour) Value of Time for Single Unit Trucks (\$\frac{1}{2}\nour)	\$28.60	
Value of Time for Combination Trucks (\$/hour)	\$28.60	
value of Time for Combination Trucks (\$711001)	φ20.00	
2. Analysis Options		
Include User Costs in Analysis	Yes	
Include User Costs in Arialysis Include User Cost Remaining Life Value	Yes	
Use Differential User Costs	Yes	
User Cost Computation Method	Calculated	
•	Yes	
Include Agency Cost Remaining Life Value Traffic Direction	Both	
Analysis Period (Years)	31	
Beginning of Analysis Period	2021	
Discount Rate (%)	7.0	
Number of Alternatives	<u>Z</u>	
2 Project Dateila		
3. Project Details	ODOO	
State Route	SR63	
Project Name	State Route 63 Priority Segment	
Region	OH	
County	Warren	
Analyzed By	Diana Martin	
Mileposts		
Begin	0.00	
End	3.00	
Length of Project (miles)	3.00	
Comments		
4 Troffic Data		
4. Traffic Data AADT Construction Year (total for both directions)	20,600	
,		
Cars as Percentage of AADT (%)	91.0	
Single Unit Trucks as Percentage of AADT (%)	2.0	
Combination Trucks as Percentage of AADT (%)	7.0	
Annual Growth Rate of Traffic (%)	3.2	
Speed Limit Under Normal Operating Conditions (mph)	55	
No of Lanes in Each Direction During Normal Conditions	3	
Free Flow Capacity (vphpl)	1900	
Rural or Urban Hourly Traffic Distribution	Rural	
Queue Dissipation Capacity (vphpl)	1100	
Maximum AADT (total for both directions)	40,000	
Maximum Queue Length (miles)	1.0	

onstruction				·			
Alternative 1	4-Lane Undivi	ded Expansion	Year10 - Expa	Alternative 2	4-Lane Undiv	ided Expansion	Year 10 -
Number of Activities	2			Number of Activities	2		
Activity 1	INITIAL BUILD			Activity 1	INITIAL BUIL	D	
Agency Construction Cost (\$1000)	\$0.00			Agency Construction Cost (\$1000)	\$0.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	0			Work Zone Duration (days)	0	•	
No of Lanes Open in Each Direction During Wor	k 1			No of Lanes Open in Each Direction During Wo	l <mark> 1</mark>		
Activity Service Life (years)	11.0			Activity Service Life (years)	11.0		
Activity Structural Life (years)	31.0			Activity Structural Life (years)	31.0	ı e	
Maintenance Frequency (years)	0			Maintenance Frequency (years)	0	ı e	
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0	· ·	
Work Zone Length (miles)	0.00			Work Zone Length (miles)	0.00	·	
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40	ı e	
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750	ı e	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)		Time of Day of Lane Closures (use whole numb	ers based on a	24-hour clock)	
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
				·			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Activity 2	EXPANSION	TO 6 LANES		Activity 2		TO 6 LANES	
Agency Construction Cost (\$1000)	\$15,000.00			Agency Construction Cost (\$1000)	\$15,000.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	240			Work Zone Duration (days)	240	l e	
No of Lanes Open in Each Direction During Wor				No of Lanes Open in Each Direction During Wo			
Activity Service Life (years)	20.0			Activity Service Life (years)	20.0	l e	
Activity Structural Life (years)	31.0			Activity Structural Life (years)	31.0		
Maintenance Frequency (years)	0			Maintenance Frequency (years)	0		
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	3.00			Work Zone Length (miles)	3.00	<u> </u>	
Work Zone Speed Limit (mph)	45			Work Zone Speed Limit (mph)	45	•	
				Work Zone Capacity (vphpl)	1000	<u> </u>	
Work Zone Capacity (vphpl)	1000					1	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Traffic Hourly Distribution Time of Day of Lane Closures (use whole number	Week Day 1 ers based on a			Time of Day of Lane Closures (use whole numb	ers based on a		
Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound	Week Day 1	End		Time of Day of Lane Closures (use whole numb Inbound	ers based on a Start	End	
Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure	Week Day 1 ers based on a			Time of Day of Lane Closures (use whole numb Inbound First period of lane closure	ers based on a	End	
Traffic Hourly Distribution Time of Day of Lane Closures (use whole number inbound First period of lane closure Second period of lane closure	Week Day 1 ers based on a Start	End		Time of Day of Lane Closures (use whole numb Inbound First period of Iane closure Second period of Iane closure	ers based on a Start	End	
Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure	Week Day 1 ers based on a Start	End		Time of Day of Lane Closures (use whole numb Inbound First period of lane closure	ers based on a Start	End	
Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure	Week Day 1 ers based on a Start 7	End 15		Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure	ers based on a Start 7	End 15	
Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	Week Day 1 ers based on a Start	End 15 End		Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	ers based on a Start	End 15 End	
Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	Week Day 1 ers based on a Start 7	End 15		Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	ers based on a Start 7	End 15	
Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	Week Day 1 ers based on a Start 7	End 15 End		Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	ers based on a Start 7	End 15 End	

_	_	Total Cost				
	Altern	Alternative 1		ive 2		
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)		
Undiscounted Sum	\$9,677.42	\$512.47	\$9,677.42	\$512.47		
Present Value	\$6,472.92	\$342.77	\$6,472.92	\$342.77		
EUAC	\$516.52	\$27.35	\$516.52	\$27.35		
Lowest Present Value	e Agency Cost	Alternative 1				
Lowest Present Value	e User Cost	Alternative 1				

INI	PUT WORKSHEET		
114	FOI WORKSHELI		
1.	Economic Variables		
<u>. </u>		¢44.00	
	Value of Time for Passenger Cars (\$/hour)	\$14.80	
	Value of Time for Single Unit Trucks (\$/hour)	\$28.60	
	Value of Time for Combination Trucks (\$/hour)	\$28.60	
2.	Analysis Options		
	Include User Costs in Analysis	Yes	
	Include User Cost Remaining Life Value	Yes	
	Use Differential User Costs	Yes	
1	User Cost Computation Method	Calculated	
	Include Agency Cost Remaining Life Value	Yes	
	Traffic Direction	Both	
	Analysis Period (Years)	31	
	Beginning of Analysis Period	2021	
	Discount Rate (%)	7.0	
	Number of Alternatives	2	
3.	Project Details		
	State Route	SR63	
	Project Name	State Route 63 Priority	Segment
	Region	OH	Cogmone
	County	Warren	
	Analyzed By	Diana Martin	
	Mileposts	Diaria Martin	
	•	0.00	
	Begin End	3.00	
	Length of Project (miles)	3.00	
1			
ı	Comments		
1			
1	Traffic Data		
4.	Traffic Data AADT Construction Voor (total for both directions)	20.600	
	AADT Construction Year (total for both directions)	20,600	
	Cars as Percentage of AADT (%)	91.0	
	Single Unit Trucks as Percentage of AADT (%)	2.0	
	Combination Trucks as Percentage of AADT (%)	7.0	
	Annual Growth Rate of Traffic (%)	3.2	
	Speed Limit Under Normal Operating Conditions (mph)	55	
	No of Lanes in Each Direction During Normal Conditions	3	
	Free Flow Capacity (vphpl)	1900	
	Rural or Urban Hourly Traffic Distribution	Rural	
	Queue Dissipation Capacity (vphpl)	1100	
	Queue Dissipation Capacity (vpripi)		
	Maximum AADT (total for both directions)	40,000	

Alternative 1	4-Lane Undivi	ded Expansion Year10 - Pave	Alternative 2	4-Lane Undiv	ided Expansion Year
Number of Activities	3	and Expunsion Teal to -1 ave	Number of Activities	3	LAPARISION TEAL
Humber of Activities	J		Number of Activities		
Activity 1	INITIAL BUILD		Activity 1	INITIAL BUILI	D
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Work	1		No of Lanes Open in Each Direction During Wor	1	
	11.0				
Activity Service Life (years)	11.0		Activity Service Life (years)	11.0	
Activity Structural Life (years)	11.0		Activity Structural Life (years)	11.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	51		Agency Maintenance Cost (\$1000)	51	
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00	
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	750		Work Zone Capacity (vphpl)	750	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole numbe		24-hour clock)	Time of Day of Lane Closures (use whole number		24-hour clock)
Inbound	Start	End End	Inbound	Start	End End
First period of lane closure	Slait	Eliu 15		Start	15
	- /	15	First period of lane closure		15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
p					
Activity 2	EXPANSION T	TO 6 LANES	Activity 2	EXPANSION	TOGLANES
Agency Construction Cost (\$1000)	20.00		Agency Construction Cost (\$1000)	\$0.00	. S O L/MALO
	φυ.υυ		User Work Zone Costs (\$1000)	\$0.00	
User Work Zone Costs (\$1000)					
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Work	2		No of Lanes Open in Each Direction During Wor		
Activity Service Life (years)	15.0		Activity Service Life (years)	15.0	
Activity Structural Life (years)	15.0		Activity Structural Life (years)	15.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	76.5		Agency Maintenance Cost (\$1000)	76.5	
Work Zone Length (miles)	3.00		Work Zone Length (miles)	3.00	
Work Zone Speed Limit (mph)	45		Work Zone Speed Limit (mph)	45	
Work Zone Capacity (vphpl)	1000		Work Zone Capacity (vphpl)	1000	
	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Traffic Hourly Distribution		24 1			04
Time of Day of Lane Closures (use whole number			Time of Day of Lane Closures (use whole number		
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Third period of lane closure			Third period of falle closure		
A astroite 2	CLIDEAGE	ADING COURSE DEDUACE	A attivitus 2	CUDEAGE	EADING COURSE S
Activity 3	\$1.125.00	EARING COURSE REPLACE	Activity 3		EARING COURSE F
Agency Construction Cost (\$1000)	\$1,125.00		Agency Construction Cost (\$1000)	\$1,125.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	75		Work Zone Duration (days)	75	
No of Lanes Open in Each Direction During Work	2		No of Lanes Open in Each Direction During Wor	2	
Activity Service Life (years)	5.0		Activity Service Life (years)	5.0	
Activity Structural Life (years)	15.0		Activity Structural Life (years)	15.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	76.5		Agency Maintenance Cost (\$1000)	76.5	
Work Zone Length (miles)	3.00		Work Zone Length (miles)	3.00	
Work Zone Speed Limit (mph)	45		Work Zone Speed Limit (mph)	3.00	
	4000			45	
Work Zone Capacity (vphpl)	1000		Work Zone Capacity (vphpl)	1000	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number			Time of Day of Lane Closures (use whole number		
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
p			p		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	Jidil	15		Jidil	
	/	10	First period of lane closure	/	15
			0		
Second period of lane closure Third period of lane closure			Second period of lane closure Third period of lane closure		

		Total Cost				
	Altern	ative 1	Alternative 2			
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)		
Undiscounted Sum	\$2,262.00	\$113.62	\$2,262.00	\$113.62		
Present Value	\$822.31	\$30.79	\$822.31	\$30.79		
EUAC	\$65.62	\$2.46	\$65.62	\$2.46		
Lowest Present Value	e Agency Cost	Alternative 1				
Lowest Present Value	e User Cost	Alternative 1				

WCTID SR 63 Probabilistic Life Cycle Cost Analysis Worksheet

INI	PUT WORKSHEET		
114	FOI WORKSHELI		
1.	Economic Variables		
<u>. </u>		¢44.00	
	Value of Time for Passenger Cars (\$/hour)	\$14.80	
	Value of Time for Single Unit Trucks (\$/hour)	\$28.60	
	Value of Time for Combination Trucks (\$/hour)	\$28.60	
2.	Analysis Options		
	Include User Costs in Analysis	Yes	
	Include User Cost Remaining Life Value	Yes	
	Use Differential User Costs	Yes	
1	User Cost Computation Method	Calculated	
	Include Agency Cost Remaining Life Value	Yes	
	Traffic Direction	Both	
	Analysis Period (Years)	31	
	Beginning of Analysis Period	2021	
	Discount Rate (%)	7.0	
	Number of Alternatives	2	
3.	Project Details		
	State Route	SR63	
	Project Name	State Route 63 Priority	Segment
	Region	OH	Cogmone
	County	Warren	
	Analyzed By	Diana Martin	
	Mileposts	Diaria Martin	
	•	0.00	
	Begin End	3.00	
	Length of Project (miles)	3.00	
1			
ı	Comments		
1			
1	Traffic Data		
4.	Traffic Data AADT Construction Voor (total for both directions)	20.600	
	AADT Construction Year (total for both directions)	20,600	
	Cars as Percentage of AADT (%)	91.0	
	Single Unit Trucks as Percentage of AADT (%)	2.0	
	Combination Trucks as Percentage of AADT (%)	7.0	
	Annual Growth Rate of Traffic (%)	3.2	
	Speed Limit Under Normal Operating Conditions (mph)	55	
	No of Lanes in Each Direction During Normal Conditions	3	
	Free Flow Capacity (vphpl)	1900	
	Rural or Urban Hourly Traffic Distribution	Rural	
	Queue Dissipation Capacity (vphpl)	1100	
	Queue Dissipation Capacity (vpripi)		
	Maximum AADT (total for both directions)	40,000	

Construction						
Alternative 1	4-Lane Undivi	ded - Culverts 1	Alternative 2	4-Lane Undivided - Culverts 2		2
Number of Activities	2		Number of Activities	2		
Activity 1	INITIAL BUILD)	Activity 1	INITIAL BUIL	D	
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00		
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)			
Work Zone Duration (days)	0		Work Zone Duration (days)	0		
No of Lanes Open in Each Direction During Worl	1		No of Lanes Open in Each Direction During Wor	1		
Activity Service Life (years)	11.0		Activity Service Life (years)	11.0		
Activity Structural Life (years)	11.0		Activity Structural Life (years)	11.0		
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	6		Agency Maintenance Cost (\$1000)	6		
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00		
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	750		Work Zone Capacity (vphpl)	750		
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number	rs based on a	24-hour clock)	Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)	
Inbound	Start	End	Inbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Tima period of faile diceare			Third ported of fairle disoure			
Outbound	Start	End	Outbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7		
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Activity 2	INITIAL BUILD)	Activity 2	INITIAL BUIL	D	
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00		
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)			
Work Zone Duration (days)	0		Work Zone Duration (days)	0		
No of Lanes Open in Each Direction During Worl	2		No of Lanes Open in Each Direction During Wor	2		
Activity Service Life (years)	20.0		Activity Service Life (years)	20.0		
Activity Structural Life (years)	20.0		Activity Structural Life (years)	20.0		
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	9		Agency Maintenance Cost (\$1000)	9		
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00		
Work Zone Speed Limit (mph)	45		Work Zone Speed Limit (mph)	45		
Work Zone Capacity (vphpl)	1000		Work Zone Capacity (vphpl)	1000		
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number		24-hour clock)	Time of Day of Lane Closures (use whole number		24-hour clock)	
Inbound	Start	End	Inbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
Second period of lane closure			Second period of lane closure			
Third period of lane closure			Third period of lane closure			
Tima polica di lano dibbaro			Tima ponda on lane diodure			
Outbound	Start	End	Outbound	Start	End	
First period of lane closure	7	15	First period of lane closure	7	15	
		10	Second period of lane closure		15	
Second period of lane closure Third period of lane closure			Third period of lane closure			

_		Total Cost				
	Altern	ative 1	Alternative 2			
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)		
Undiscounted Sum	\$231.00	\$0.00	\$231.00	\$0.00		
Present Value	\$86.33	\$0.00	\$86.33	\$0.00		
EUAC	\$6.89	\$0.00	\$6.89	\$0.00		
Lowest Present Value	e Agency Cost	Alternative 1				
Lowest Present Value	e User Cost	Alternative 1				

INI	PUT WORKSHEET		
114	FOI WORKSHELI		
1.	Economic Variables		
<u>. </u>		¢44.00	
	Value of Time for Passenger Cars (\$/hour)	\$14.80	
	Value of Time for Single Unit Trucks (\$/hour)	\$28.60	
	Value of Time for Combination Trucks (\$/hour)	\$28.60	
2.	Analysis Options		
	Include User Costs in Analysis	Yes	
	Include User Cost Remaining Life Value	Yes	
	Use Differential User Costs	Yes	
1	User Cost Computation Method	Calculated	
	Include Agency Cost Remaining Life Value	Yes	
	Traffic Direction	Both	
	Analysis Period (Years)	31	
	Beginning of Analysis Period	2021	
	Discount Rate (%)	7.0	
	Number of Alternatives	2	
3.	Project Details		
	State Route	SR63	
	Project Name	State Route 63 Priority	Segment
	Region	OH	Cogmone
	County	Warren	
	Analyzed By	Diana Martin	
	Mileposts	Diaria Martin	
	•	0.00	
	Begin End	3.00	
	Length of Project (miles)	3.00	
1			
ı	Comments		
1			
1	Traffic Data		
4.	Traffic Data AADT Construction Voor (total for both directions)	20.600	
	AADT Construction Year (total for both directions)	20,600	
	Cars as Percentage of AADT (%)	91.0	
	Single Unit Trucks as Percentage of AADT (%)	2.0	
	Combination Trucks as Percentage of AADT (%)	7.0	
	Annual Growth Rate of Traffic (%)	3.2	
	Speed Limit Under Normal Operating Conditions (mph)	55	
	No of Lanes in Each Direction During Normal Conditions	3	
	Free Flow Capacity (vphpl)	1900	
	Rural or Urban Hourly Traffic Distribution	Rural	
	Queue Dissipation Capacity (vphpl)	1100	
	Queue Dissipation Capacity (vpripi)		
	Maximum AADT (total for both directions)	40,000	

Alternative 1	4-Lane Undivi	ded - Major Or	pen Drainage Re	Alternative 2	4-Lane Undivi	ided - Major Open Drai
Number of Activities	3	usu - major O	Jon Diamage IN	Number of Activities	3	usu - major Open Dia
Activity 1	INITIAL BUILD)		Activity 1	INITIAL BUILD)
Agency Construction Cost (\$1000)	\$0.00			Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0			Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Wor	1			No of Lanes Open in Each Direction During Wor	1	
Activity Service Life (years)	11.0			Activity Service Life (years)	11.0	
Activity Structural Life (years)	11.0			Activity Structural Life (years)	11.0	
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	2			Agency Maintenance Cost (\$1000)	2	
Work Zone Length (miles)	0.00			Work Zone Length (miles)	0.00	
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)		Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)
Inbound	Start	End		Inbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
				•		
Outbound	Start	End		Outbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
·				•		
Activity 2	MAJOR OPEN	DRAINAGE I	REHAB	Activity 2	MAJOR OPEN	N DRAINAGE REHAB
Agency Construction Cost (\$1000)	\$0.00			Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0			Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Wor	2			No of Lanes Open in Each Direction During Wor	2	
Activity Service Life (years)	15.0			Activity Service Life (years)	15.0	
Activity Structural Life (years)	15.0			Activity Structural Life (years)	15.0	
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	2			Agency Maintenance Cost (\$1000)	2	
Work Zone Length (miles)	3.00			Work Zone Length (miles)	3.00	
Work Zone Speed Limit (mph)	50			Work Zone Speed Limit (mph)	50	
Work Zone Capacity (vphpl)	1000			Work Zone Capacity (vphpl)	1000	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number		24 hour alook)		Time of Day of Lane Closures (use whole number		24 hour clock)
Inbound	Start	End		Inbound	Start	End End
First period of lane closure	Start	EIIU 15		First period of lane closure	Statt 7	15
Second period of lane closure	- /	10		Second period of lane closure		10
Third period of lane closure				Third period of lane closure		
Third period of fane closure				Third period of farie closure		
Outbound	Stort	End		Outbound	Stort	End
First period of lane closure	Start			First period of lane closure	Start	
		15				15
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
Activity 2	MA IOD ODE	DRAINAGE I	DEUAD	A ativity 2	MA IOD ODE	N DRAINAGE REHAB
Activity 3	WAJOR OPEN	DRAINAGE	NETAD	Activity 3	MAJOR OPE	I DRAINAGE KEHAB
Agency Construction Cost (\$1000)	\$100.00			Agency Construction Cost (\$1000)	\$100.00	
User Work Zone Costs (\$1000)	00			User Work Zone Costs (\$1000)	00	
Work Zone Duration (days)	30			Work Zone Duration (days)	30	
No of Lanes Open in Each Direction During Wor	2			No of Lanes Open in Each Direction During Wor		
Activity Service Life (years)	5.0			Activity Service Life (years)	5.0	
Activity Structural Life (years)	15.0			Activity Structural Life (years)	15.0	
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	2			Agency Maintenance Cost (\$1000)	2	
Work Zone Length (miles)	3.00			Work Zone Length (miles)	3.00	
Work Zone Speed Limit (mph)	50			Work Zone Speed Limit (mph)	50	
Work Zone Capacity (vphpl)	1000			Work Zone Capacity (vphpl)	1000	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number				Time of Day of Lane Closures (use whole number		
	Start	End		Inbound	Start	End
Inbound		15		First period of lane closure	7	15
Inbound First period of lane closure	/			Second period of lane closure		
Inbound First period of lane closure Second period of lane closure	7					
Inbound First period of lane closure	7			Third period of lane closure		
Inbound First period of lane closure Second period of lane closure Third period of lane closure				·		
Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	Start	End		Outbound	Start	End
Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	Start 7	End 15		Outbound First period of lane closure	Start 7	End 15
Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	Start 7	End 15		Outbound	Start 7	

		Total Cost				
	Altern	ative 1	Alternat	ive 2		
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)		
Undiscounted Sum	\$116.00	\$21.39	\$116.00	\$21.39		
Present Value	\$39.79	\$5.80	\$39.79	\$5.80		
EUAC	\$3.17	\$0.46	\$3.17	\$0.46		
Lowest Present Valu	e Agency Cost	Alternative 1				
Lowest Present Value	e User Cost	Alternative 1				

INPUT WORKSHEET		
INFOT WORKSHELT		
1. Economic Variables		
Value of Time for Passenger Cars (\$/hour)	\$14.80	
Value of Time for Passenger Cars (\$\pi\nour) Value of Time for Single Unit Trucks (\$\frac{1}{2}\nour)	\$28.60	
Value of Time for Combination Trucks (\$/hour)	\$28.60	
value of Time for Combination Trucks (\$711001)	φ20.00	
2. Analysis Options		
Include User Costs in Analysis	Yes	
Include User Costs in Arialysis Include User Cost Remaining Life Value	Yes	
Use Differential User Costs	Yes	
User Cost Computation Method	Calculated	
•	Yes	
Include Agency Cost Remaining Life Value Traffic Direction	Both	
Analysis Period (Years)	31	
Beginning of Analysis Period	2021	
Discount Rate (%)	7.0	
Number of Alternatives	<u>Z</u>	
2 Project Dateila		
3. Project Details	ODOO	
State Route	SR63	
Project Name	State Route 63 Priority Segment	
Region	OH	
County	Warren	
Analyzed By	Diana Martin	
Mileposts		
Begin	0.00	
End	3.00	
Length of Project (miles)	3.00	
Comments		
4 Troffic Data		
4. Traffic Data AADT Construction Year (total for both directions)	20,600	
,		
Cars as Percentage of AADT (%)	91.0	
Single Unit Trucks as Percentage of AADT (%)	2.0	
Combination Trucks as Percentage of AADT (%)	7.0	
Annual Growth Rate of Traffic (%)	3.2	
Speed Limit Under Normal Operating Conditions (mph)	55	
No of Lanes in Each Direction During Normal Conditions	3	
Free Flow Capacity (vphpl)	1900	
Rural or Urban Hourly Traffic Distribution	Rural	
Queue Dissipation Capacity (vphpl)	1100	
Maximum AADT (total for both directions)	40,000	
Maximum Queue Length (miles)	1.0	

Alternative 1	4-Lane Undivi	ded - Major Shoulder Rehab 1	Alternative 2	4-Lane Undivi	ded - Major Shoulder F
Number of Activities	3		Number of Activities	3	
Activity 1	INITIAL BUILD		Activity 1	INITIAL BUILD	
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
				U	
No of Lanes Open in Each Direction During Wor	1		No of Lanes Open in Each Direction During Wor		
Activity Service Life (years)	11.0		Activity Service Life (years)	11.0	
Activity Structural Life (years)	11.0		Activity Structural Life (years)	11.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	15		Agency Maintenance Cost (\$1000)	15	
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00	
	25			25	
Work Zone Speed Limit (mph)			Work Zone Speed Limit (mph)		
Work Zone Capacity (vphpl)	750		Work Zone Capacity (vphpl)	750	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)	Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)
Inbound	Start	End	Inbound	Start	End
	7	16		7	15
First period of lane closure	/	15	First period of lane closure	/	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
			· · · · · · · · · · · · · · · · · · ·		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
		10			10
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Activity 2	MAJOR SHOU	JLDER REHAB	Activity 2	MAJOR SHOU	JLDER REHAB
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)	Ψ0.00		User Work Zone Costs (\$1000)	ψ0.00	
Work Zone Duration (days)	Ü		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Wor	k 2		No of Lanes Open in Each Direction During Wor	2	
Activity Service Life (years)	10.0		Activity Service Life (years)	10.0	
Activity Structural Life (years)	10.0		Activity Structural Life (years)	10.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
	45			45	
Agency Maintenance Cost (\$1000)	15		Agency Maintenance Cost (\$1000)	15	
Work Zone Length (miles)	3.00		Work Zone Length (miles)	3.00	
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25	
Work Zone Capacity (vphpl)	1000		Work Zone Capacity (vphpl)	1000	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
		24 have alask)			24 have alask)
Time of Day of Lane Closures (use whole number			Time of Day of Lane Closures (use whole number		
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Tima ponoa oi fano diocaro			Tima ponda or iano diocaro		
Outhound	Ctout	Fud	Outbound	Ctout	Fuel
Outbound	Start	End		Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
,			1		
Activity 3	MA IOR SHOU	JLDER REHAB	Activity 3	MA IOP SHOU	JLDER REHAB
Agency Construction Cost (\$1000)	\$123.00	DEDEK KETIAD	Agency Construction Cost (\$1000)	\$123.00	ALDEN INCHAD
	\$123.00			\$123.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	30		Work Zone Duration (days)	30	
No of Lanes Open in Each Direction During Wor	k 2		No of Lanes Open in Each Direction During Wor	2	
Activity Service Life (years)	10.0		Activity Service Life (years)	10.0	
Activity Structural Life (years)	10.0		Activity Structural Life (years)	10.0	
	10.0			10.0	
			Maintenance Frequency (years)	1	
Maintenance Frequency (years)			Agency Maintenance Cost (\$1000)	15	
Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	15				
Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	15 3.00		Work Zone Length (miles)	3.00	
Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)	3.00 25			3.00 25	
Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)			Work Zone Length (miles) Work Zone Speed Limit (mph)		
Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl)	25 1000		Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl)	25 1000	
Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution	25 1000 Week Day 1	24 hour dealt)	Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution	25 1000 Week Day 1	24 hour do-12
Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbre	25 1000 Week Day 1 ers based on a		Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	25 1000 Week Day 1 ers based on a	
Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number	25 1000 Week Day 1	24-hour clock) End	Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	25 1000 Week Day 1	End
Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbre	25 1000 Week Day 1 ers based on a		Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	25 1000 Week Day 1 ers based on a	
Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure	25 1000 Week Day 1 ers based on a		Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Gapacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure	25 1000 Week Day 1 ers based on a	End
Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure	25 1000 Week Day 1 ers based on a		Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure	25 1000 Week Day 1 ers based on a	End
Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure	25 1000 Week Day 1 ers based on a		Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Gapacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure	25 1000 Week Day 1 ers based on a	End
Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure	25 1000 Week Day 1 ers based on a Start 7	End 15	Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Gapacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number inbound First period of lane closure Second period of lane closure Third period of lane closure	25 1000 Week Day 1 ers based on a Start	End 15
Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	25 1000 Week Day 1 ers based on a		Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	25 1000 Week Day 1 ers based on a	End 15
Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	25 1000 Week Day 1 ers based on a Start 7	End 15	Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	25 1000 Week Day 1 ers based on a Start	End 15
Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	25 1000 Week Day 1 ers based on a Start 7	End 15	Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	25 1000 Week Day 1 ers based on a Start	End 15

		Total Cost				
	Altern	ative 1	Alternative 2			
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)		
Undiscounted Sum	\$543.00	\$632.19	\$543.00	\$632.19		
Present Value	\$205.09	\$152.68	\$205.09	\$152.68		
EUAC	\$16.37	\$12.18	\$16.37	\$12.18		
Lowest Present Value	e Agency Cost	Alternative 1				
Lowest Present Value	e User Cost	Alternative 1				

INPUT WORKSHEET 1. Economic Variables	
1. Economic Variables	
1. Economic variables	
	<u> </u>
Value of Time for Passenger Cars (\$/hour) \$14.80	
Value of Time for Single Unit Trucks (\$/hour) \$28.60	
Value of Time for Combination Trucks (\$/hour) \$28.60)
2. Analysis Options	
Include User Costs in Analysis Yes	
Include User Cost Remaining Life Value Yes	
Use Differential User Costs Yes	
User Cost Computation Method Calculated	
Include Agency Cost Remaining Life Value Yes	
Traffic Direction Both	
Analysis Period (Years) 31	
Beginning of Analysis Period 2021	
Discount Rate (%)	
Number of Alternatives 2	2
3. Project Details	
State Route SR63	
	63 Priority Segment
Region OH	
County Warren	
Analyzed By Diana Martin	
Mileposts	
Begin 0.00	
End 3.00)
Length of Project (miles) 3.00	
Comments	
4. Traffic Data	
AADT Construction Year (total for both directions) 20,600)
Cars as Percentage of AADT (%)	
Single Unit Trucks as Percentage of AADT (%))
Combination Trucks as Percentage of AADT (%)	
Annual Growth Rate of Traffic (%)	
Speed Limit Under Normal Operating Conditions (mph) 55	5
No of Lanes in Each Direction During Normal Conditions	3
Free Flow Capacity (vphpl))
Rural or Urban Hourly Traffic Distribution Rural	
Queue Dissipation Capacity (vphpl) 1100)
Maximum AADT (total for both directions) 40,000	
,	
Maximum Queue Length (miles) 1.0	<mark>Л</mark>

OUISTRUCTION	41	Mark Occasion 5	A16	A Lawrence Committee	ded Consider I.C.
Alternative 1		ided - Guardrail Re		4-Lane Undivi	ided - Guardrail Replac
Number of Activities	3		Number of Activities	3	
Activity 1	INITIAL BUILD	0	Activity 1	INITIAL BUILD)
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Work	1		No of Lanes Open in Each Direction During Work	1	
Activity Service Life (years)	11.0		Activity Service Life (years)	11.0	
Activity Service Life (years)	11.0				
Activity Structural Life (years)	11.0		Activity Structural Life (years)	11.0	1
Maintenance Frequency (years)	0		Maintenance Frequency (years)	0	
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0	1
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00	
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25	
Work Zone Capacity (vphpl)			Work Zone Capacity (vphpl)	750	1
	750				1
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	1
Time of Day of Lane Closures (use whole number	rs based on a	24-hour clock)	Time of Day of Lane Closures (use whole number	s based on a	24-hour clock)
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure		10	Second period of lane closure	- '	10
Third period of lane closure			Third period of lane closure		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		·
Third period of lane closure			Third period of lane closure		
Activity 2	GUARDRAIL	REPLACEMENT	Activity 2	GUARDRAIL	REPLACEMENT
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)	ψ0.00		User Work Zone Costs (\$1000)	\$0.00	
					<u> </u>
Work Zone Duration (days)	0		Work Zone Duration (days)	0	1
No of Lanes Open in Each Direction During Work	2.5		No of Lanes Open in Each Direction During Work	2.5	
Activity Service Life (years)	18.0		Activity Service Life (years)	18.0	1
Activity Structural Life (years)	18.0		Activity Structural Life (years)	18.0	
Maintenance Frequency (years)	0.0		Maintenance Frequency (years)	0	
	0			0	<u> </u>
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	Ū	
Work Zone Length (miles)	0.50		Work Zone Length (miles)	0.50	
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25	
Work Zone Capacity (vphpl)	1000		Work Zone Capacity (vphpl)	1000	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
					1
Time of Day of Lane Closures (use whole number			Time of Day of Lane Closures (use whole number		
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Third period of farie diodate			Third period of faire diosale		
• " '	·		2 " 1		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Tillia period of fatte closure			Third period of faire diosale		
A -41-16 A	OLIA DDD A III	DEDI A OFMENT	A-45-76-10	OLIA DDD DA II	DEDI ACEMENT
Activity 3		REPLACEMENT	Activity 3		REPLACEMENT
Agency Construction Cost (\$1000)	\$159.00		Agency Construction Cost (\$1000)	\$159.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	20		Work Zone Duration (days)	20	
No of Lanes Open in Each Direction During Work	2.5		No of Lanes Open in Each Direction During Work	2.5	
Activity Service Life (years)	2.0		Activity Service Life (years)	2.0	
	2.0			2.0	
Activity Structural Life (years)	18.0		Activity Structural Life (years)	18.0	
Maintenance Frequency (years)	0		Maintenance Frequency (years)	0	
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0	
Work Zone Length (miles)	0.50		Work Zone Length (miles)	0.50	
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25	
	4000			4000	
Work Zone Capacity (vphpl)	1000		Work Zone Capacity (vphpl)	1000	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number	rs based on a	24-hour clock)	Time of Day of Lane Closures (use whole number	s based on a ?	24-hour clock)
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
	- /	10			10
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Outbound	Start	End	Outbound	Start	End
				7	15
First period of lane closure	7	15			
First period of lane closure	7	15	First period of lane closure		
First period of lane closure Second period of lane closure Third period of lane closure	7	15	First period of lane closure Second period of lane closure Third period of lane closure		·

_		Total Cost				
	Altern	ative 1	Alternative 2			
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)		
Undiscounted Sum	\$17.67	\$13.79	\$17.67	\$13.79		
Present Value	\$5.00	\$3.90	\$5.00	\$3.90		
EUAC	\$0.40	\$0.31	\$0.40	\$0.31		
Lowest Present Value	e Agency Cost	Alternative 1				
Lowest Present Value User Cost		Alternative 1				

NPUT WORKSHEET					
NI OI WORKOILLI					
. Economic Variables					
Value of Time for Passenger Cars (\$/hour)	\$14.80				
Value of Time for Single Unit Trucks (\$/hour)	\$28.60				
Value of Time for Combination Trucks (\$/hour)	\$28.60				
value of Time for Combination Tradits (princar)	Ψ20.00				
. Analysis Options					
Include User Costs in Analysis	Yes				
Include User Cost Remaining Life Value	Yes				
Use Differential User Costs	Yes				
User Cost Computation Method	Calculated				
Include Agency Cost Remaining Life Value	Yes				
Traffic Direction	Both				
Analysis Period (Years)	31				
Beginning of Analysis Period	2021				
Discount Rate (%)	7.0				
Number of Alternatives	2				
. Project Details					
State Route	SR63				
Project Name	State Route 63 Priority Segment				
Region	OH				
County	Warren				
Analyzed By	Diana Martin				
Mileposts					
Begin	0.00				
End	3.00				
Length of Project (miles)	3.00				
Comments					
. Traffic Data					
AADT Construction Year (total for both directions)	20,600				
Cars as Percentage of AADT (%)	91.0				
Single Unit Trucks as Percentage of AADT (%)	2.0				
Combination Trucks as Percentage of AADT (%)	7.0				
Annual Growth Rate of Traffic (%)	3.2				
Speed Limit Under Normal Operating Conditions (mph)	55				
No of Lanes in Each Direction During Normal Conditions	3				
Free Flow Capacity (vphpl)	1900				
Rural or Urban Hourly Traffic Distribution	Rural				
Queue Dissipation Capacity (vphpl)	1100				
Maximum AADT (total for both directions)	40,000				
Maximum Queue Length (miles)	1.0				
Maximum Quoud Longui (miles)					

Alternative 1	4-Lane Undivi	ded - Overhead Signs and Sig	Alternative 2	4-Lane Undiv	ided - Overhead Signs a
Number of Activities	3	asa syambaa signo ana sig	Number of Activities	3	l combad organica
Activity 1	INITIAL BUILD		Activity 1	INITIAL BUILD	D
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Worl	1		No of Lanes Open in Each Direction During Wor	t 1	
Activity Service Life (years)	11.0		Activity Service Life (years)	11.0	
Activity Structural Life (years)	11.0		Activity Structural Life (years)	11.0	
Maintenance Frequency (years)	11.0		Maintenance Frequency (years)	11.0	
Agency Maintenance Cost (\$1000)	6		Agency Maintenance Cost (\$1000)	6	
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00	
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	750		Work Zone Capacity (vphpl)	750	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number			Time of Day of Lane Closures (use whole number		
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Tima ported of faire discours			Time period of faile disease		
Outbound	Start	End	Outbound	Start	End
First period of lane closure		15	First period of lane closure	otan.	15
	/	10			15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Activity 2	REPLACE OV	ERHEAD SIGNS AND SIGNA	Activity 2	REPLACE O	VERHEAD SIGNS AND
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Worl	2		No of Lanes Open in Each Direction During Wor	1 2	
Activity Service Life (years)	15.0		Activity Service Life (years)	15.0	
Activity Structural Life (years)	15.0		Activity Structural Life (years)	15.0	
Maintenance Frequency (years)	13.0		Maintenance Frequency (years)	15.0	
A serve Meintenance Cost (\$1000)	1		Agency Maintenance Cost (\$1000)	1	1
Agency Maintenance Cost (\$1000)	0.40			0.40	
Work Zone Length (miles)	0.10		Work Zone Length (miles)	0.10	4
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)	Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Third period of faire diodate			Third period of faire diodate		
Outbound	Stort	End	Outbound	Stort	End
	Start	End		Start	End
First period of lane closure	/	15	First period of lane closure	/	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Activity 3		ERHEAD SIGNS AND SIGNA	Activity 3	REPLACE O	VERHEAD SIGNS AND
Agency Construction Cost (\$1000)	\$1,417.50		Agency Construction Cost (\$1000)	\$1,417.50	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	24		Work Zone Duration (days)	24	
No of Lanes Open in Each Direction During Worl	2		No of Lanes Open in Each Direction During Wor	2	
Activity Service Life (years)	5.0		Activity Service Life (years)	5.0	
Activity Service Life (years) Activity Structural Life (years)	15.0		Activity Structural Life (years)	15.0	
	15.0			15.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	9		Agency Maintenance Cost (\$1000)	9	-
Work Zone Length (miles)	0.10		Work Zone Length (miles)	0.10	
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)	Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure	- '		Second period of lane closure		10
Third period of lane closure			Third period of lane closure		
			rnira penaa or iane ciosure		
					F1
<u> </u>					
Outbound	Start	End	Outbound	Start	End
Outbound First period of lane closure	Start 7	End 15	First period of lane closure	Start 7	15 15
Outbound	Start 7			Start 7	

	_	Total Cost			
	Altern	ative 1	Alternative 2		
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)	
Undiscounted Sum	\$694.50	\$415.24	\$694.50	\$415.24	
Present Value	\$212.85	\$112.55	\$212.85	\$112.55	
EUAC	\$16.98	\$8.98	\$16.98	\$8.98	
Lowest Present Value	e Agency Cost	Alternative 1			
Lowest Present Value	e User Cost	Alternative 1			

INPUT WORKSHEET		
INPUT WORKSHEET		
4 Facusaria Variables		
1. Economic Variables	Φ4.4.00	
Value of Time for Passenger Cars (\$/hour)	\$14.80	
Value of Time for Single Unit Trucks (\$/hour)	\$28.60	
Value of Time for Combination Trucks (\$/hour)	\$28.60	
2. Analysis Options		
Include User Costs in Analysis	Yes	
Include User Cost Remaining Life Value	Yes	
Use Differential User Costs	Yes	
User Cost Computation Method	Calculated	
Include Agency Cost Remaining Life Value	Yes	
Traffic Direction	Both	
Analysis Period (Years)	31	
Beginning of Analysis Period	2021	
Discount Rate (%)	7.0	
Number of Alternatives	2	
3. Project Details		
State Route	SR63	
Project Name	State Route 63 Priority Segment	
Region	OH	
County	Warren	
Analyzed By	Diana Martin	
Mileposts	Diana Wartin	
Begin	0.00	
End	3.00	
Length of Project (miles)	3.00	
Length of Froject (filles)	3.00	
Comments		
4. Traffic Data		
AADT Construction Year (total for both directions)	20,600	
Cars as Percentage of AADT (%)	91.0	
Single Unit Trucks as Percentage of AADT (%)	2.0	
Combination Trucks as Percentage of AADT (%)	7.0	
Annual Growth Rate of Traffic (%)	3.2	
Speed Limit Under Normal Operating Conditions (mph)	55	
No of Lanes in Each Direction During Normal Conditions	2	
<u> </u>	1900	
Free Flow Capacity (vphpl)	Rural	
Rural or Urban Hourly Traffic Distribution		
Queue Dissipation Capacity (vphpl)	1100	
Maximum AADT (total for both directions)	40,000	
Maximum Queue Length (miles)	1.0	

Alternative 1	4 Long Hedin	ided - Outages 1		Alternative 2	4 Long Undiv	ided - Outages 2
Number of Activities	4-Lane Undiv	Ided - Outages 1		Number of Activities	4-Lane Undiv	Ided - Outages 2
Number of Activities	3			Number of Activities	3	
Activity 1	SDOT INCIDI	ENT-CAUSED RE	EDAIDS	Activity 1	SPOT INCIDE	ENT-CAUSED REPAIR
Agency Construction Cost (\$1000)	SFOT INCIDE	INT-CAUSED RE	EFAINS	Agency Construction Cost (\$1000)	SFOT INCIDE	I LAUSED REFAIR
	φυυ.υυ				φ00.00	
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)		
Work Zone Duration (days)	1			Work Zone Duration (days)	1	
No of Lanes Open in Each Direction During World	1			No of Lanes Open in Each Direction During Wor	1 <mark> 1</mark>	
Activity Service Life (years)	4.0			Activity Service Life (years)	4.0	
Activity Structural Life (years)	0.0			Activity Structural Life (years)	0.0	
Maintenance Frequency (years)	0.0			Maintenance Frequency (years)	0.0	
	0				0	
Agency Maintenance Cost (\$1000)	U			Agency Maintenance Cost (\$1000)	0	
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10	
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number		24 hour clock)		Time of Day of Lane Closures (use whole numb		24 hour clock)
		End		Inhound		End
Inbound	Start	End			Start	End
First period of lane closure	7	15		First period of lane closure	7	15
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
Outbound	Start	End		Outbound	Start	End
	Glait	LIIU			Glait	
First period of lane closure	7	15		First period of lane closure	7	15
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
				<u> </u>		
Activity 2	SPOT INCIDI	ENT-CAUSED RE	PAIRS	Activity 2	SPOT INCIDE	NT-CAUSED REPAIR
Agency Construction Cost (\$1000)	\$55.00	I OF TOOLD IN		Agency Construction Cost (\$1000)	\$55,00	GROSED INEL AIN
	φυυ.υυ				φ00.00	
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)		
Work Zone Duration (days)	1			Work Zone Duration (days)	1	
No of Lanes Open in Each Direction During World	1			No of Lanes Open in Each Direction During Wor	l <mark> 1</mark>	
Activity Service Life (years)	4.0			Activity Service Life (years)	4.0	
Activity Structural Life (years)	0.0			Activity Structural Life (years)	0.0	
	0.0				0.0	
Maintenance Frequency (years)	0			Maintenance Frequency (years)	0	
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0	
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10	
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number				Time of Day of Lane Closures (use whole numb		
Inbound	Start	End		Inbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
Third period of faire diodate				Third period of faire diodate		
Outh and	011	F1		O. # 1	044	F
Outbound	Start	End		Outbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
a porios or isino diodulo				rima ponoa or iano ciodulo		
Activity 3	CDOT INCIDI	ENT-CAUSED RE	EDAIDS	Activity 3	SDOT INCIDE	ENT-CAUSED REPAIR
		INT-CAUSED RE	EFAIRS			T TO AUSED REPAIR
Agency Construction Cost (\$1000)	\$55.00			Agency Construction Cost (\$1000)	\$55.00	
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)		
Work Zone Duration (days)	1			Work Zone Duration (days)	1	
No of Lanes Open in Each Direction During Worl	1			No of Lanes Open in Each Direction During Wor	1	
Activity Service Life (years)	4.0			Activity Service Life (years)	4.0	
Activity Service Life (years) Activity Structural Life (years)	4.0			Activity Structural Life (years)	0.0	
	0.0				0.0	
Maintenance Frequency (years)	0			Maintenance Frequency (years)	0	
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0	
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10	
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	
		24 have deeds				24 have ala :1:)
Time of Day of Lane Closures (use whole number				Time of Day of Lane Closures (use whole numb		
Inbound	Start	End		Inbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
Third period of lane diosule				Third period of faire closure		
Outbound	Start	End		Outbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
r list period of lane closure				Canada and affice alacina		
Second period of lane closure				Second period of lane closure		
				Third period of lane closure		

_		Total Cost				
	Altern	ative 1	Alternative 2			
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)		
Undiscounted Sum	\$165.00	\$16.03	\$165.00	\$16.03		
Present Value	\$128.97	\$10.32	\$128.97	\$10.32		
EUAC	\$10.29	\$0.82	\$10.29	\$0.82		
Lowest Present Value	e Agency Cost	Alternative 1				
Lowest Present Value	e User Cost	Alternative 1				

INPUT WORKSHEET		
IN OT WORKOTELT		
1. Economic Variables		
Value of Time for Passenger Cars (\$/hour)	\$14.80	
Value of Time for Fasseriger Gals (g/fiedr) Value of Time for Single Unit Trucks (\$/hour)	\$28.60	
Value of Time for Combination Trucks (\$/hour)	\$28.60	
value of Time for Combination Tracks (ψ/noar)	Ψ20.00	
2. Analysis Options		
Include User Costs in Analysis	Yes	
Include User Cost Remaining Life Value	Yes	
Use Differential User Costs	Yes	
User Cost Computation Method	Calculated	
Include Agency Cost Remaining Life Value	Yes	
Traffic Direction	Both	
Analysis Period (Years)	31	
Beginning of Analysis Period	2021	
Discount Rate (%)		
Number of Alternatives	7.0	
Number of Alternatives		
3. Project Details		
State Route	SR63	
		nt
Project Name	State Route 63 Priority Segme OH	nı
Region		
County	Warren	
Analyzed By	Diana Martin	
Mileposts	0.00	
Begin	0.00	
End	3.00	
Length of Project (miles)	3.00	
Comments		
4. Traffic Data		
AADT Construction Year (total for both directions)	20,600	
Cars as Percentage of AADT (%)	91.0	
Single Unit Trucks as Percentage of AADT (%)	2.0	
Combination Trucks as Percentage of AADT (%)	7.0	
	3.2	
Annual Growth Rate of Traffic (%)		
Speed Limit Under Normal Operating Conditions (mph)	55	
Speed Limit Under Normal Operating Conditions (mph)		
Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions	55 3	
Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl)	55 3 1900	
Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution Queue Dissipation Capacity (vphpl)	55 3 1900 Rural	
Speed Limit Under Normal Operating Conditions (mph) No of Lanes in Each Direction During Normal Conditions Free Flow Capacity (vphpl) Rural or Urban Hourly Traffic Distribution	55 3 1900 Rural 1100	

Construction	41			Alternative 0	41	11.1.6	0
Alternative 1 Number of Activities	4-Lane Undivi	ided - Outages	1	Alternative 2 Number of Activities	4-Lane Undiv	ided - Outages	2
						1	
Activity 1	SPOT INCIDE	NT-CAUSED	REPAIRS	Activity 1	SPOT INCIDE	ENT-CAUSED F	REPAIRS
Agency Construction Cost (\$1000)	\$55.00			Agency Construction Cost (\$1000)	\$55.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	1			Work Zone Duration (days)	1		
No of Lanes Open in Each Direction During Work				No of Lanes Open in Each Direction During Work	2		
Activity Service Life (years)	5.0			Activity Service Life (years)	5.0	1	
Activity Structural Life (years)	0.0			Activity Structural Life (years)	0.0	·	
Maintenance Frequency (years)	0			Maintenance Frequency (years)	0	d	
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10	·	
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	1000			Work Zone Capacity (vphpl)	1000		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)		Time of Day of Lane Closures (use whole number	rs based on a	24-hour clock)	
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Triila perioa or faile diodale				Trilla perioa di falle diosare			
Activity 2	SPOT INCIDE	ENT-CAUSED	REPAIRS	Activity 2	SPOT INCIDE	ENT-CAUSED F	REPAIRS
Agency Construction Cost (\$1000)	\$55.00		TEI MINO	Agency Construction Cost (\$1000)	\$55.00	I ON OCED F	CI AINO
User Work Zone Costs (\$1000)	\$00.00			User Work Zone Costs (\$1000)	\$00.00	1	
Work Zone Duration (days)	- 4			Work Zone Duration (days)	- 1	 	
No of Lanes Open in Each Direction During Worl				No of Lanes Open in Each Direction During Work	2	1	
Activity Service Life (years)	5.0	1		Activity Service Life (years)	5.0	1	
Activity Service Life (years) Activity Structural Life (years)	0.0			Activity Service Life (years) Activity Structural Life (years)	0.0	1	
Maintenance Frequency (years)	0.0				0.0	4	
Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	0			Maintenance Frequency (years)	0	<u> </u>	
Work Zone Length (miles)	0.10			Agency Maintenance Cost (\$1000)	0.10	 	
				Work Zone Length (miles)		4	
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40	4	
Work Zone Capacity (vphpl)	1000			Work Zone Capacity (vphpl)	1000	4	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	<u> </u>	
Time of Day of Lane Closures (use whole number				Time of Day of Lane Closures (use whole number			
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
				·			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
				·			
Activity 3	SPOT INCIDE	ENT-CAUSED	REPAIRS	Activity 3	SPOT INCIDE	ENT-CAUSED F	REPAIRS
Agency Construction Cost (\$1000)	\$55.00			Agency Construction Cost (\$1000)	\$55.00	1	
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	1			Work Zone Duration (days)	1		
No of Lanes Open in Each Direction During Worl	k 2			No of Lanes Open in Each Direction During Work	2		
Activity Service Life (years)	5.0			Activity Service Life (years)	5.0		
Activity Structural Life (years)	0.0			Activity Structural Life (years)	0.0		
Maintenance Frequency (years)	0			Maintenance Frequency (years)	0	1	
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0	1	
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10	1	
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	1000			Work Zone Capacity (vphpl)	1000	1	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	1	
Time of Day of Lane Closures (use whole number		24-hour clock)		Time of Day of Lane Closures (use whole numbe		24-hour clock)	
		Ju. JIOOK)					
		Fnd		Inhound		⊢nd ⊢	
Inbound	Start	End 15		Inbound First period of lane closure	Start 7	End 15	
Inbound First period of lane closure		End 15		First period of lane closure		15 15	
Inbound First period of lane closure Second period of lane closure		End 15		First period of lane closure Second period of lane closure		End 15	
Inbound First period of lane closure		End 15		First period of lane closure		15 15	
Inbound First period of lane closure Second period of lane closure Third period of lane closure	Start 7	15		First period of lane closure Second period of lane closure Third period of lane closure	Start 7	15	
Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound		15 End		First period of lane closure Second period of lane closure Third period of lane closure Outbound		15 End	
Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	Start 7	15		First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	Start 7	15	
Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure	Start 7	15 End		First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure	Start 7	15 End	
Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	Start 7	15 End		First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	Start 7	15 End	
Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure	Start 7 Start 7	End 15	DEDAIDS	First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure	Start 7	End 15	DEDAIDE
Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 4	Start 7 Start 7 SPOT INCIDE	15 End	REPAIRS	First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 4	Start Start 7 Start 7 SPOT INCIDE	15 End	REPAIRS
Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000)	Start 7 Start 7	End 15	REPAIRS	First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000)	Start 7	End 15	REPAIRS
Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000)	Start 7 Start 7 SPOT INCIDE	End 15	REPAIRS	First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000)	Start Start 7 Start 7 SPOT INCIDE	End 15	REPAIRS
Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)	Start 7	End 15	REPAIRS	First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00	End 15	REPAIRS
Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl	Start 7	End 15	REPAIRS	First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00	End 15	REPAIRS
Inbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years)	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 2 5.00	End 15	REPAIRS	First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years)	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 2 5.0	End 15	REPAIRS
Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years)	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 2 5.00 0.0	End 15	REPAIRS	First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years)	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00	End 15	REPAIRS
Inbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 1 2 2 5.0 0.0 0.0 0.0 0	End 15	REPAIRS	First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 2 5.0	End 15	REPAIRS
Inbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 1 2 5.0 0.0 0.0 0	End 15	REPAIRS	First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Structural Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 2 5.0 0.0 0.0	End 15	REPAIRS
Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 2 5.00 0 0 0 0 0.10	End 15	REPAIRS	First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 2 2 5.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End 15	REPAIRS
Inbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 1 2 2 5.0 0.0 0 0.0 0 0.10 40	End 15	REPAIRS	First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Structural Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Eepet Limit (mph)	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 2 5.00 0.00 0.10 0.10 40	End 15	REPAIRS
Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 2 5.00 0 0 0 0 0.10	End 15	REPAIRS	First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 2 2 5.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End 15	REPAIRS
Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 1 2 2 5.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End 15		First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Structural Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Eepet Limit (mph)	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 2 5.00 0.00 0.10 0.10 40	End 15	REPAIRS
Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yphpl)	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 1 2 2 5.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End 15		First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Structural Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl)	Start 7 Start 7 Start 7 SPOT INCIDE \$55.00 1 2 2 5.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End 15	
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		Total Cost				
	Altern	ative 1	Alternative 2			
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)		
Undiscounted Sum	\$220.00	\$5.19	\$220.00	\$5.19		
Present Value	\$142.11	\$3.14	\$142.11	\$3.14		
EUAC	\$11.34	\$0.25	\$11.34	\$0.25		
Lowest Present Value	e Agency Cost	Alternative 1				
Lowest Present Value	e User Cost	Alternative 1				

REALCOST INPUT AND RESULTS 4-LANE DIVIDED EXPANSION SCENARIO

INPUT WORKSHEET	
INFOT WORKSTILLT	
1. Economic Variables	
	¢14.00
Value of Time for Passenger Cars (\$/hour)	\$14.80
Value of Time for Single Unit Trucks (\$/hour)	\$28.60
Value of Time for Combination Trucks (\$/hour)	\$28.60
2. Analysis Options	
Include User Costs in Analysis	Yes
Include User Cost Remaining Life Value	Yes
Use Differential User Costs	Yes
User Cost Computation Method	Calculated
Include Agency Cost Remaining Life Value	Yes
Traffic Direction	Both
Analysis Period (Years)	31
Beginning of Analysis Period	2021
Discount Rate (%)	7.0
Number of Alternatives	2
3. Project Details	
State Route	SR63
Project Name	State Route 63 Priority Segment
Region	OH
County	Warren
Analyzed By	Diana Martin
Mileposts	
Begin	0.00
End	3.00
Length of Project (miles)	3.00
Comments	
4. Traffic Data	
AADT Construction Year (total for both directions)	20,600
Cars as Percentage of AADT (%)	91.0
Single Unit Trucks as Percentage of AADT (%)	2.0
Combination Trucks as Percentage of AADT (%)	7.0
Annual Growth Rate of Traffic (%)	3.2
Speed Limit Under Normal Operating Conditions (mph)	55
No of Lanes in Each Direction During Normal Conditions	2
Free Flow Capacity (vphpl)	1900
Rural or Urban Hourly Traffic Distribution	Rural
Queue Dissipation Capacity (vphpl)	1100
Maximum AADT (total for both directions)	40,000
Maximum Queue Length (miles)	1.0
Mayillalli Anene Fellâlli (Illilez)	1.0

Alternative 1	4-Lane ivided	Expansion Yea	ar10 - Initial Cor	Alternative 2	4-Lane Divide	d Expansion Y	'ear 10 -
Number of Activities	1			Number of Activities	1		
Activity 1	INITIAL BUILI)		Activity 1	INITIAL BUILE)	
Agency Construction Cost (\$1000)	\$28,000.00			Agency Construction Cost (\$1000)	\$28,000.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	365			Work Zone Duration (days)	365		
No of Lanes Open in Each Direction During Work	1			No of Lanes Open in Each Direction During Wor	1		
Activity Service Life (years)	11.0			Activity Service Life (years)	11.0		
Activity Structural Life (years)	31.0			Activity Structural Life (years)	31.0		
Maintenance Frequency (years)	0			Maintenance Frequency (years)	0		
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	3.00			Work Zone Length (miles)	3.00		
Work Zone Speed Limit (mph)	45			Work Zone Speed Limit (mph)	45		
Work Zone Capacity (vphpl)	1000			Work Zone Capacity (vphpl)	1000		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)		Time of Day of Lane Closures (use whole number	mbers based on a 24-hour clock)		
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
				<u> </u>			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			

_		Total Cost				
	Altern	ative 1	Alternative 2			
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)		
Undiscounted Sum	\$28,000.00	\$854.29	\$28,000.00	\$854.29		
Present Value	\$28,000.00	\$854.29	\$28,000.00	\$854.29		
EUAC	\$2,234.31	\$68.17	\$2,234.31	\$68.17		
Lowest Present Value	e Agency Cost	Alternative 1				
Lowest Present Value	e User Cost	Alternative 1				

INI	PUT WORKSHEET		
114	FOI WORKSHELI		
1.	Economic Variables		
<u>. </u>		¢44.00	
	Value of Time for Passenger Cars (\$/hour)	\$14.80	
	Value of Time for Single Unit Trucks (\$/hour)	\$28.60	
	Value of Time for Combination Trucks (\$/hour)	\$28.60	
2.	Analysis Options		
	Include User Costs in Analysis	Yes	
	Include User Cost Remaining Life Value	Yes	
	Use Differential User Costs	Yes	
1	User Cost Computation Method	Calculated	
	Include Agency Cost Remaining Life Value	Yes	
	Traffic Direction	Both	
	Analysis Period (Years)	31	
	Beginning of Analysis Period	2021	
	Discount Rate (%)	7.0	
	Number of Alternatives	2	
3.	Project Details		
	State Route	SR63	
	Project Name	State Route 63 Priority	Segment
	Region	OH	Cogmone
	County	Warren	
	Analyzed By	Diana Martin	
	Mileposts	Diaria Martin	
	•	0.00	
	Begin End	3.00	
	Length of Project (miles)	3.00	
1			
ı	Comments		
1			
1	Traffic Data		
4.	Traffic Data AADT Construction Voor (total for both directions)	20.600	
	AADT Construction Year (total for both directions)	20,600	
	Cars as Percentage of AADT (%)	91.0	
	Single Unit Trucks as Percentage of AADT (%)	2.0	
	Combination Trucks as Percentage of AADT (%)	7.0	
	Annual Growth Rate of Traffic (%)	3.2	
	Speed Limit Under Normal Operating Conditions (mph)	55	
	No of Lanes in Each Direction During Normal Conditions	3	
	Free Flow Capacity (vphpl)	1900	
	Rural or Urban Hourly Traffic Distribution	Rural	
	Queue Dissipation Capacity (vphpl)	1100	
	Queue Dissipation Capacity (vpripi)		
	Maximum AADT (total for both directions)	40,000	

onstruction Alternative 1	4-Lane Undiv	ded Expansion Year10 - Expa	Alternative 2	4-Lane Lindiy	ded Expansion Yea
Number of Activities	2	ded Expansion Teal 10 - Expa	Number of Activities	2	ded Expansion rea
Trainer of Activities			Humber of Activities		
Activity 1	INITIAL BUILI		Activity 1	INITIAL BUIL)
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Worl	1		No of Lanes Open in Each Direction During Worl	1	
Activity Service Life (years)	11.0		Activity Service Life (years)	11.0	
Activity Structural Life (years)	11.0		Activity Structural Life (years)	11.0	
Maintenance Frequency (years)	0		Maintenance Frequency (years)	0	
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0	
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00	
Work Zone Speed Limit (mph)	50		Work Zone Speed Limit (mph)	50	
Work Zone Capacity (vphpl)	1150		Work Zone Capacity (vphpl)	1150	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number	rs based on a	24-hour clock)	Time of Day of Lane Closures (use whole number	rs based on a	24-hour clock)
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
·			•		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
			·		
Activity 2	EXPANSION	TO 6 LANES	Activity 2	EXPANSION	TO 6 LANES
Agency Construction Cost (\$1000)	\$10,500.00		Agency Construction Cost (\$1000)	\$10,500.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	240		Work Zone Duration (days)	240	
No of Lanes Open in Each Direction During Work			No of Lanes Open in Each Direction During World	2	
Activity Service Life (years)	20.0		Activity Service Life (years)	20.0	
Activity Structural Life (years)	31.0		Activity Structural Life (years)	31.0	
Maintenance Frequency (years)	0		Maintenance Frequency (years)	0	
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0	
Work Zone Length (miles)	3.00		Work Zone Length (miles)	3.00	
Work Zone Speed Limit (mph)	50		Work Zone Speed Limit (mph)	50	
Work Zone Capacity (vphpl)	1150		Work Zone Capacity (vphpl)	1150	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number			Time of Day of Lane Closures (use whole number		
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Outhound	Ctout	Fad	Quith arrest	Chart	Fud
Outbound	Start	End	Outbound	Start	End
First period of lane closure	/	15	First period of lane closure	/	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		

	-	Total Cost			
	Altern	ative 1	Alternat	ive 2	
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)	
Undiscounted Sum	\$6,774.19	\$241.22	\$6,774.19	\$241.22	
Present Value	\$4,531.05	\$161.34	\$4,531.05	\$161.34	
EUAC	\$361.56	\$12.87	\$361.56	\$12.87	
Lowest Present Value	e Agency Cost	Alternative 1			
Lowest Present Value	e User Cost	Alternative 1			

INI	PUT WORKSHEET		
114	FOI WORKSHELI		
1.	Economic Variables		
<u>. </u>		¢44.00	
	Value of Time for Passenger Cars (\$/hour)	\$14.80	
	Value of Time for Single Unit Trucks (\$/hour)	\$28.60	
	Value of Time for Combination Trucks (\$/hour)	\$28.60	
2.	Analysis Options		
	Include User Costs in Analysis	Yes	
	Include User Cost Remaining Life Value	Yes	
	Use Differential User Costs	Yes	
1	User Cost Computation Method	Calculated	
	Include Agency Cost Remaining Life Value	Yes	
	Traffic Direction	Both	
	Analysis Period (Years)	31	
	Beginning of Analysis Period	2021	
	Discount Rate (%)	7.0	
	Number of Alternatives	2	
3.	Project Details		
	State Route	SR63	
	Project Name	State Route 63 Priority	Segment
	Region	OH	Cogmone
	County	Warren	
	Analyzed By	Diana Martin	
	Mileposts	Diaria Martin	
	•	0.00	
	Begin End	3.00	
	Length of Project (miles)	3.00	
1			
ı	Comments		
1			
1	Traffic Data		
4.	Traffic Data AADT Construction Voor (total for both directions)	20.600	
	AADT Construction Year (total for both directions)	20,600	
	Cars as Percentage of AADT (%)	91.0	
	Single Unit Trucks as Percentage of AADT (%)	2.0	
	Combination Trucks as Percentage of AADT (%)	7.0	
	Annual Growth Rate of Traffic (%)	3.2	
	Speed Limit Under Normal Operating Conditions (mph)	55	
	No of Lanes in Each Direction During Normal Conditions	3	
	Free Flow Capacity (vphpl)	1900	
	Rural or Urban Hourly Traffic Distribution	Rural	
	Queue Dissipation Capacity (vphpl)	1100	
	Queue Dissipation Capacity (vpripi)		
	Maximum AADT (total for both directions)	40,000	

Alternative 1 Number of Activities Activity 1 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	4-Lane Divided 3 INITIAL BUILD \$0.00	d Expansion Year1		Iternative 2 umber of Activities Activity 1 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000)	4-Lane Divide 3 INITIAL BUILE \$0.00	ed Expansion Yea	ar 10 - Pa
Activity 1 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years)	- J)	N	Activity 1 Agency Construction Cost (\$1000)	INITIAL BUILI	<u> </u>	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years)	\$0.00 0			Agency Construction Cost (\$1000)	INITIAL BUILD \$0.00) 	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years)	\$0.00 0			Agency Construction Cost (\$1000)	\$0.00		
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years)	0				\$0.00		
Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years)	0			User Work Zone Costs (\$1000)			
No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years)	1	, ,			_		
Activity Service Life (years) Activity Structural Life (years)	11			Work Zone Duration (days)	0		
Activity Structural Life (years)				No of Lanes Open in Each Direction During Wo	rk 1		
	11.0			Activity Service Life (years)	11.0		
Maintenance Frequency (years)	11.0	1		Activity Structural Life (years)	11.0	1	
	1			Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	51			Agency Maintenance Cost (\$1000)	51		
Work Zone Length (miles)	0.00			Work Zone Length (miles)	0.00		
Work Zone Speed Limit (mph)	45			Work Zone Speed Limit (mph)	45		
Work Zone Capacity (vphpl)	1000			Work Zone Capacity (vphpl)	100		
	1000					-	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number				Time of Day of Lane Closures (use whole numb			
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
·				'			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
	/	10				15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Activity 2	EXPANSION 1	TO 6 LANES		Activity 2		TO 6 LANES	
Agency Construction Cost (\$1000)	\$0.00			Agency Construction Cost (\$1000)	\$0.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	0			Work Zone Duration (days)	0		
No of Lanes Open in Each Direction During Work	2			No of Lanes Open in Each Direction During Wo	rl 2		
Activity Service Life (years)	15.0			Activity Service Life (years)	15.0		
	15.0				15.0		
Activity Structural Life (years)	15.0			Activity Structural Life (years)	15.0		
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	76.5			Agency Maintenance Cost (\$1000)	76.5		
Work Zone Length (miles)	3.00			Work Zone Length (miles)	3.00	1	
Work Zone Speed Limit (mph)	45			Work Zone Speed Limit (mph)	45		
Work Zone Capacity (vphpl)	1000			Work Zone Capacity (vphpl)	1000		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number		24 hour clock)		Time of Day of Lane Closures (use whole numb		24 hour clock)	
Inbound				Inbound			
First period of lane closure	Start	End			Start	End	
	/	15		First period of lane closure		15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Third period of faire diodate				Third period of faire diodate			
Activity 3	SLIDEACE ME	EARING COURSE	DEDI ACE	Activity 3	SLIDENCE	EARING COURS	SE DEDI
		LAINING COURSE	NEI LACEI			-AKING COURT	OE KEPL
Agency Construction Cost (\$1000)	\$1,125.00			Agency Construction Cost (\$1000)	\$1,125.00	+	
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	75			Work Zone Duration (days)	75		
No of Lanes Open in Each Direction During Work	2			No of Lanes Open in Each Direction During Wo	rl 2		
Activity Service Life (years)	5.0			Activity Service Life (years)	5.0		
Activity Structural Life (years)	15.0			Activity Structural Life (years)	15.0		
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	76.5			Agency Maintenance Cost (\$1000)	76.5		
Work Zone Length (miles)	3.00			Work Zone Length (miles)	3.00	 	
	3.00				3.00	 	
Work Zone Speed Limit (mph)	45			Work Zone Speed Limit (mph)	45	+	
Work Zone Capacity (vphpl)	1000			Work Zone Capacity (vphpl)	1000		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole numbe	rs based on a 2	24-hour clock)		Time of Day of Lane Closures (use whole numb	ers based on a	24-hour clock)	
	Start	End		Inbound	Start	End	
Inbound	7	15		First period of lane closure	7	15	
		- 10				13	
First period of lane closure							
First period of lane closure Second period of lane closure				Second period of lane closure			
First period of lane closure				Second period of lane closure Third period of lane closure			
First period of lane closure Second period of lane closure Third period of lane closure				Third period of lane closure	-		
First period of lane closure Second period of lane closure Third period of lane closure Outbound	Start	End		Third period of lane closure Outbound	Start	End	
First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	Start 7	End 15		Third period of lane closure Outbound First period of lane closure	Start 7	End 15	
First period of lane closure Second period of lane closure Third period of lane closure Outbound	Start 7			Third period of lane closure Outbound	Start 7		

_		Total Cost				
	Alterna	ative 1	Alternat	ive 2		
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)		
Undiscounted Sum	\$2,262.00	\$113.62	\$2,262.00	\$113.62		
Present Value	\$822.31	\$30.79	\$822.31	\$30.79		
EUAC	\$65.62	\$2.46	\$65.62	\$2.46		
Lowest Present Valu	e Agency Cost	Alternative 1				
Lowest Present Value	e User Cost	Alternative 1				

WCTID SR 63 Probabilistic Life Cycle Cost Analysis Worksheet

INPUT WORKSHEET		
INFOT WORKSHELT		
1. Economic Variables		
Value of Time for Passenger Cars (\$/hour)	\$14.80	
Value of Time for Passenger Cars (\$\pi\nour) Value of Time for Single Unit Trucks (\$\frac{1}{2}\nour)	\$28.60	
Value of Time for Combination Trucks (\$/hour)	\$28.60	
value of Time for Combination Trucks (\$711001)	φ20.00	
2. Analysis Options		
Include User Costs in Analysis	Yes	
Include User Costs in Analysis Include User Cost Remaining Life Value	Yes	
Use Differential User Costs	Yes	
User Cost Computation Method	Calculated	
•	Yes	
Include Agency Cost Remaining Life Value Traffic Direction	Both	
Analysis Period (Years)	31	
Beginning of Analysis Period	2021	
Discount Rate (%)	7.0	
Number of Alternatives	<u>Z</u>	
2 Project Dateila		
3. Project Details	ODOO	
State Route	SR63	
Project Name	State Route 63 Priority Segment	
Region	OH	
County	Warren	
Analyzed By	Diana Martin	
Mileposts		
Begin	0.00	
End	3.00	
Length of Project (miles)	3.00	
Comments		
4 Troffic Data		
4. Traffic Data AADT Construction Year (total for both directions)	20,600	
,		
Cars as Percentage of AADT (%)	91.0	
Single Unit Trucks as Percentage of AADT (%)	2.0	
Combination Trucks as Percentage of AADT (%)	7.0	
Annual Growth Rate of Traffic (%)	3.2	
Speed Limit Under Normal Operating Conditions (mph)	55	
No of Lanes in Each Direction During Normal Conditions	3	
Free Flow Capacity (vphpl)	1900	
Rural or Urban Hourly Traffic Distribution	Rural	
Queue Dissipation Capacity (vphpl)	1100	
Maximum AADT (total for both directions)	40,000	
Maximum Queue Length (miles)	1.0	

nstruction Alternative 1	4-Lane Undivi	ded - Culverts 1	Alternative 2	4-Lane Undivi	ded - Culverts 2
Number of Activities	2	ded - Culverts 1	Number of Activities	2	ded - Cuiverts 2
number of Activities			Number of Activities		
Activity 1	INITIAL BUILD)	Activity 1	INITIAL BUILI	
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)	•		User Work Zone Costs (\$1000)	•	
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Work	1		No of Lanes Open in Each Direction During Work	1	
Activity Service Life (years)	11.0		Activity Service Life (years)	11.0	
Activity Structural Life (years)	11.0		Activity Structural Life (years)	11.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	7		Agency Maintenance Cost (\$1000)	7	
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00	
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	750		Work Zone Capacity (vphpl)	750	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole numbe	rs based on a	24-hour clock)	Time of Day of Lane Closures (use whole number	rs based on a	24-hour clock)
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
			·		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Activity 2	INITIAL BUILD)	Activity 2	INITIAL BUILI)
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Work			No of Lanes Open in Each Direction During World	2	
Activity Service Life (years)	20.0		Activity Service Life (years)	20.0	
Activity Structural Life (years)	20.0		Activity Structural Life (years)	20.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	9		Agency Maintenance Cost (\$1000)	9	
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00	
Work Zone Speed Limit (mph)	45		Work Zone Speed Limit (mph)	45	
Work Zone Capacity (vphpl)	1000		Work Zone Capacity (vphpl)	1000	
	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole numbe			Time of Day of Lane Closures (use whole number		
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Out the arrand	Ctout	Fad -	Outhound	Ctout	Fu.d
Outbound	Start	End	Outbound	Start	End
First period of lane closure	/	15	First period of lane closure	- /	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		

		Total Cost			
	Altern	ative 1	Alternative 2		
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)	
Undiscounted Sum	\$241.00	\$0.00	\$241.00	\$0.00	
Present Value	\$93.36	\$0.00	\$93.36	\$0.00	
EUAC	\$7.45	\$0.00	\$7.45	\$0.00	
Lowest Present Valu	e Agency Cost	Alternative 1			
,		Alternative 1			

INPUT WORKSHEET		
INFOT WORKSHELT		
1. Economic Variables		
Value of Time for Passenger Cars (\$/hour)	\$14.80	
Value of Time for Passenger Cars (\$\pi\nour) Value of Time for Single Unit Trucks (\$\frac{1}{2}\nour)	\$28.60	
Value of Time for Combination Trucks (\$/hour)	\$28.60	
value of Time for Combination Trucks (\$711001)	φ20.00	
2. Analysis Options		
Include User Costs in Analysis	Yes	
Include User Costs in Analysis Include User Cost Remaining Life Value	Yes	
Use Differential User Costs	Yes	
User Cost Computation Method	Calculated	
•	Yes	
Include Agency Cost Remaining Life Value Traffic Direction	Both	
Analysis Period (Years)	31	
Beginning of Analysis Period	2021	
Discount Rate (%)	7.0	
Number of Alternatives	<u>Z</u>	
2 Project Dateila		
3. Project Details	ODOO	
State Route	SR63	
Project Name	State Route 63 Priority Segment	
Region	OH	
County	Warren	
Analyzed By	Diana Martin	
Mileposts		
Begin	0.00	
End	3.00	
Length of Project (miles)	3.00	
Comments		
4 Troffic Data		
4. Traffic Data AADT Construction Year (total for both directions)	20,600	
,		
Cars as Percentage of AADT (%)	91.0	
Single Unit Trucks as Percentage of AADT (%)	2.0	
Combination Trucks as Percentage of AADT (%)	7.0	
Annual Growth Rate of Traffic (%)	3.2	
Speed Limit Under Normal Operating Conditions (mph)	55	
No of Lanes in Each Direction During Normal Conditions	3	
Free Flow Capacity (vphpl)	1900	
Rural or Urban Hourly Traffic Distribution	Rural	
Queue Dissipation Capacity (vphpl)	1100	
Maximum AADT (total for both directions)	40,000	
Maximum Queue Length (miles)	1.0	

Alternative d	A Lange Unit	ded Mc'es C	- Desires - D	Alfannativa 2	A Law Live	Had Malay On a C
Alternative 1		ided - Major Oper	n Drainage Re	Alternative 2	4-Lane Undiv	ded - Major Open Drair
Number of Activities	3			Number of Activities	3	
Activity 1	INITIAL BUILD)		Activity 1	INITIAL BUILI)
Agency Construction Cost (\$1000)	\$0.00			Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0			Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Worl	1			No of Lanes Open in Each Direction During Wo	-L 1	
Author Commission Life (commission During Work	44.0			Authority Complex Life (complex)	11.0	
Activity Service Life (years)	11.0			Activity Service Life (years)		
Activity Structural Life (years)	11.0			Activity Structural Life (years)	11.0	
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	2			Agency Maintenance Cost (\$1000)	2	
Work Zone Length (miles)	0.00			Work Zone Length (miles)	0.00	
	50				50	
Work Zone Speed Limit (mph)	50			Work Zone Speed Limit (mph)		
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number	rs based on a	24-hour clock)		Time of Day of Lane Closures (use whole numb	ers based on a	24-hour clock)
Inbound	Start	End		Inbound	Start	End
First period of lane closure	7	45			7	45
	/	15		First period of lane closure	/	15
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
	1				1	
Outbound	Start	End		Outbound	Start	End
First period of lane closure	7	45		First period of lane closure	7	15
	/	15			/	15
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
	1					
Activity 2	MAJOR OPE	N DRAINAGE RE	EHAB	Activity 2	MAJOR OPE	N DRAINAGE REHAB
Agency Construction Cost (\$1000)	90.00			Agency Construction Cost (\$1000)	\$0.00	W W . OE REHAD
	φυ.υυ				φυ.υυ	
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0			Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During World	2			No of Lanes Open in Each Direction During Wo	1 2	
Activity Service Life (years)	15.0			Activity Service Life (years)	15.0	
	15.0				15.0	
Activity Structural Life (years)	15.0			Activity Structural Life (years)	15.0	
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	2			Agency Maintenance Cost (\$1000)	2	
Work Zone Length (miles)	3.00			Work Zone Length (miles)	3.00	
Work Zone Speed Limit (mph)	50			Work Zone Speed Limit (mph)	50	
	50					
Work Zone Capacity (vphpl)	1000			Work Zone Capacity (vphpl)	1000	
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number	rs based on a	24-hour clock)		Time of Day of Lane Closures (use whole numb	ers based on a	24-hour clock)
Inbound	Start	End		Inbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
	- 1	10				10
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
Outbound	Start	End		Outbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
	/	10				10
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
Activity 3	MAJOR OPE	N DRAINAGE RE	EHAB	Activity 3	MAJOR OPE	N DRAINAGE REHAB
Agency Construction Cost (\$1000)	\$180.00			Agency Construction Cost (\$1000)	\$180.00	
User Work Zone Costs (\$1000)	₩ 100.00				ψ100.00	
				User Work Zone Costs (\$1000)		
Work Zone Duration (days)	30			Work Zone Duration (days)	30	
No of Lanes Open in Each Direction During World	2			No of Lanes Open in Each Direction During Wo	1 2	
Activity Service Life (years)	5.0			Activity Service Life (years)	5.0	
Activity Structural Life (years)	15.0			Activity Structural Life (years)	15.0	
	10.0	-			15.0	
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	2			Agency Maintenance Cost (\$1000)	2	
Work Zone Length (miles)	3.00			Work Zone Length (miles)	3.00	
Work Zone Speed Limit (mph)	50			Work Zone Speed Limit (mph)	50	
	1000			Work Zone Capacity (vphpl)	1000	
	1000				Mark David	
Work Zone Capacity (vphpl)	Mark David	1		Traffic Hourly Distribution	Week Day 1	L
Work Zone Capacity (vphpl) Traffic Hourly Distribution	Week Day 1	<u> </u>		Time of Day of Lane Closures (use whole numb		
Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	ers based on a			Inbound	Start	End
Work Zone Capacity (vphpl) Traffic Hourly Distribution		24-hour clock) End		IIIDOUIIU		
Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound	ers based on a	End			7	15
Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	ers based on a			First period of lane closure	7	15
Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure	ers based on a	End		First period of lane closure Second period of lane closure	7	15
Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	ers based on a	End		First period of lane closure	7	15
Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	ers based on a	End		First period of lane closure Second period of lane closure Third period of lane closure	7	15
Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure	ers based on a	End		First period of lane closure Second period of lane closure	7 Start	15 End
Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	Start 7	End 15		First period of lane closure Second period of lane closure Third period of lane closure Outbound	7	
Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	Start 7	End 15		First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	7	End
Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound	Start 7	End 15		First period of lane closure Second period of lane closure Third period of lane closure Outbound	7	End

	_	Total Cost			
	Altern	ative 1	Alternat	ive 2	
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)	
Undiscounted Sum	\$116.00	\$21.39	\$116.00	\$21.39	
Present Value	\$39.79	\$5.80	\$39.79	\$5.80	
EUAC	\$3.17	\$0.46	\$3.17	\$0.46	
Lowest Present Valu	e Agency Cost	Alternative 1			
Lowest Present Valu	e User Cost	Alternative 1			

INI	PUT WORKSHEET		
114	FOI WORKSHELI		
1.	Economic Variables		
<u>. </u>		¢44.00	
	Value of Time for Passenger Cars (\$/hour)	\$14.80	
	Value of Time for Single Unit Trucks (\$/hour)	\$28.60	
	Value of Time for Combination Trucks (\$/hour)	\$28.60	
2.	Analysis Options		
	Include User Costs in Analysis	Yes	
	Include User Cost Remaining Life Value	Yes	
	Use Differential User Costs	Yes	
1	User Cost Computation Method	Calculated	
	Include Agency Cost Remaining Life Value	Yes	
	Traffic Direction	Both	
	Analysis Period (Years)	31	
	Beginning of Analysis Period	2021	
	Discount Rate (%)	7.0	
	Number of Alternatives	2	
3.	Project Details		
	State Route	SR63	
	Project Name	State Route 63 Priority	Segment
	Region	OH	Cogmone
	County	Warren	
	Analyzed By	Diana Martin	
	Mileposts	Diaria Martin	
	•	0.00	
	Begin End	3.00	
	Length of Project (miles)	3.00	
1			
ı	Comments		
1			
1	Traffic Data		
4.	Traffic Data AADT Construction Voor (total for both directions)	20.600	
	AADT Construction Year (total for both directions)	20,600	
	Cars as Percentage of AADT (%)	91.0	
	Single Unit Trucks as Percentage of AADT (%)	2.0	
	Combination Trucks as Percentage of AADT (%)	7.0	
	Annual Growth Rate of Traffic (%)	3.2	
	Speed Limit Under Normal Operating Conditions (mph)	55	
	No of Lanes in Each Direction During Normal Conditions	3	
	Free Flow Capacity (vphpl)	1900	
	Rural or Urban Hourly Traffic Distribution	Rural	
	Queue Dissipation Capacity (vphpl)	1100	
	Queue Dissipation Capacity (vpripi)		
	Maximum AADT (total for both directions)	40,000	

Alternative 1	4-Lane Divide	d - Major Shoulder Re	hab 1 Alternative 2	4-Lane Divide	ed - Major Shoulder F
Number of Activities	3		Number of Activities	3	
				-	
Activity 1	INITIAL BUILD)	Activity 1	INITIAL BUILD	D
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Work	1		No of Lanes Open in Each Direction During Wo	rk 1	
Activity Service Life (years)	11.0		Activity Service Life (years)	11.0	
Activity Structural Life (years)	11.0		Activity Structural Life (years)	11.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	15		Agency Maintenance Cost (\$1000)	15	
Work Zone Length (miles)	0.00		Work Zone Length (miles)	0.00	
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25	
Work Zone Capacity (vphpl)	750		Work Zone Capacity (vphpl)	750	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole numbe		24 have alask)	Time of Day of Lane Closures (use whole numb		O4 have alask)
Inhound		End	Inhound		End
	Start	End		Start	
First period of lane closure	- /	15	First period of lane closure		15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
2 " '					
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Activity 2	MAJOR SHOU	JLDER REHAB	Activity 2	MAJOR SHO	ULDER REHAB
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Work	2		No of Lanes Open in Each Direction During Wo	rk 2	
Activity Service Life (years)	10.0		Activity Service Life (years)	10.0	
Activity Structural Life (years)	10.0		Activity Structural Life (years)	10.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	15		Agency Maintenance Cost (\$1000)	15	
Work Zone Length (miles)	3.00		Work Zone Length (miles)	3.00	
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25	
Work Zone Capacity (vphpl)	1000		Work Zone Capacity (vphpl)	1000	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole numbe		24-hour clock)	Time of Day of Lane Closures (use whole numb		24-hour clock)
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Third period of faire diodate			Third period of faire diodate		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure	- 1	10	Second period of lane closure		10
Third period of lane closure			Third period of lane closure		
Third period of faile closure			Third period of faile closure		
Activity 3	MA IOP SHOL	JLDER REHAB	Activity 3	MA IOD SHO	ULDER REHAB
Agency Construction Cost (\$1000)	\$123.00	ALDER INCHAE	Activity 3 Agency Construction Cost (\$1000)	\$123.00	CEDEIX INCLIND
User Work Zone Costs (\$1000)	ψ120.00		User Work Zone Costs (\$1000)	ψ120.00	
Work Zone Costs (\$1000) Work Zone Duration (days)	20		Work Zone Duration (days)	20	
No of Lanes Open in Each Direction During Work	30		No of Lanes Open in Each Direction During Wo	rk 2	
Activity Service Life (years)	10.0			10.0	
	10.0		Activity Service Life (years)	10.0	
Activity Structural Life (years)	10.0		Activity Structural Life (years)	10.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	15		Agency Maintenance Cost (\$1000)	15	
Work Zone Length (miles)	3.00		Work Zone Length (miles)	3.00	
Work Zone Speed Limit (mph)	25		Work Zone Speed Limit (mph)	25	
Work Zone Capacity (vphpl)	1000		Work Zone Capacity (vphpl)	1000	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number			Time of Day of Lane Closures (use whole numb		
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		

_	_	Total Cost			
	Altern	ative 1	Alternat	ive 2	
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)	
Undiscounted Sum	\$543.00	\$632.19	\$543.00	\$632.19	
Present Value	\$205.09	\$152.68	\$205.09	\$152.68	
EUAC	\$16.37	\$12.18	\$16.37	\$12.18	
Lowest Present Value	e Agency Cost	Alternative 1			
Lowest Present Value	e User Cost	Alternative 1			

INPUT WORKSHEET		
INFOT WORKSHELT		
1. Economic Variables		
Value of Time for Passenger Cars (\$/hour)	\$14.80	
Value of Time for Passenger Cars (\$\pi\nour) Value of Time for Single Unit Trucks (\$\frac{1}{2}\nour)	\$28.60	
Value of Time for Combination Trucks (\$/hour)	\$28.60	
value of Time for Combination Trucks (\$711001)	φ20.00	
2. Analysis Options		
Include User Costs in Analysis	Yes	
Include User Costs in Analysis Include User Cost Remaining Life Value	Yes	
Use Differential User Costs	Yes	
User Cost Computation Method	Calculated	
•	Yes	
Include Agency Cost Remaining Life Value Traffic Direction	Both	
Analysis Period (Years)	31	
Beginning of Analysis Period	2021	
Discount Rate (%)	7.0	
Number of Alternatives	<u>Z</u>	
2 Project Dateila		
3. Project Details	ODOO	
State Route	SR63	
Project Name	State Route 63 Priority Segment	
Region	OH	
County	Warren	
Analyzed By	Diana Martin	
Mileposts		
Begin	0.00	
End	3.00	
Length of Project (miles)	3.00	
Comments		
4 Troffic Data		
4. Traffic Data AADT Construction Year (total for both directions)	20,600	
,		
Cars as Percentage of AADT (%)	91.0	
Single Unit Trucks as Percentage of AADT (%)	2.0	
Combination Trucks as Percentage of AADT (%)	7.0	
Annual Growth Rate of Traffic (%)	3.2	
Speed Limit Under Normal Operating Conditions (mph)	55	
No of Lanes in Each Direction During Normal Conditions	3	
Free Flow Capacity (vphpl)	1900	
Rural or Urban Hourly Traffic Distribution	Rural	
Queue Dissipation Capacity (vphpl)	1100	
Maximum AADT (total for both directions)	40,000	
Maximum Queue Length (miles)	1.0	

Construction							
Alternative 1	4-Lane Undivi	ded - Guardra	il Replacement 1	Alternative 2	4-Lane Undiv	ided - Guardrail F	Replacem
Number of Activities	3			Number of Activities	3		
Activity 1	INITIAL BUILD)		Activity 1	INITIAL BUILI	D	
Agency Construction Cost (\$1000)	\$0.00			Agency Construction Cost (\$1000)	\$0.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	0			Work Zone Duration (days)	0		
No of Lanes Open in Each Direction During Wor	k 1			No of Lanes Open in Each Direction During Wor	1		
Activity Service Life (years)	11.0			Activity Service Life (years)	11.0		
Activity Service Life (years) Activity Structural Life (years)	11.0			Activity Structural Life (years)	11.0		
Maintenance Frequency (years)	11.0			Maintenance Frequency (years)	0		
	0				0		
Agency Maintenance Cost (\$1000)				Agency Maintenance Cost (\$1000)			
Work Zone Length (miles)	0.00			Work Zone Length (miles)	0.00		
Work Zone Speed Limit (mph)	25			Work Zone Speed Limit (mph)	25		
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number	ers based on a	24-hour clock)		Time of Day of Lane Closures (use whole number		24-hour clock)	
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure		10		Second period of lane closure		10	
Third period of lane closure				Third period of lane closure			
Outhorn !	0/ 1			0.46-	0: :	F	
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Activity 2	GUARDRAII	REPLACEMEN	NT	Activity 2	GUARDRAIL	REPLACEMENT	Γ
Agency Construction Cost (\$1000)	\$0.00			Agency Construction Cost (\$1000)	\$0.00		•
User Work Zone Costs (\$1000)	Ψ0.00			User Work Zone Costs (\$1000)	ψ0.00		
	0				0		
Work Zone Duration (days)	0			Work Zone Duration (days)	0		
No of Lanes Open in Each Direction During Wor	2.5			No of Lanes Open in Each Direction During Wor			
Activity Service Life (years)	18.0			Activity Service Life (years)	18.0		
Activity Structural Life (years)	18.0			Activity Structural Life (years)	18.0		
Maintenance Frequency (years)	0			Maintenance Frequency (years)	0		
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	0.50			Work Zone Length (miles)	0.50		
Work Zone Speed Limit (mph)	25			Work Zone Speed Limit (mph)	25		
	25				25		
Work Zone Capacity (vphpl)	1000			Work Zone Capacity (vphpl)	1000		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number				Time of Day of Lane Closures (use whole number			
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	Otait 7	15		First period of lane closure	Olait 7	15	
		15				13	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Activity 3		REPLACEME	NT	Activity 3		REPLACEMENT	Γ
Agency Construction Cost (\$1000)	\$159.00			Agency Construction Cost (\$1000)	\$159.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	20			Work Zone Duration (days)	20		
No of Lanes Open in Each Direction During Wor	2.5			No of Lanes Open in Each Direction During Wor	2.5		
Activity Service Life (years)	2.0			Activity Service Life (years)	2.0		
Activity Service Life (years) Activity Structural Life (years)	10.0			Activity Service Life (years) Activity Structural Life (years)	10.0		
	16.0				18.0		
Maintenance Frequency (years)	0			Maintenance Frequency (years)	0		
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	0.50			Work Zone Length (miles)	0.50		
Work Zone Speed Limit (mph)	25			Work Zone Speed Limit (mph)	25		
Work Zone Capacity (vphpl)	1000			Work Zone Capacity (vphpl)	1000		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number		24-hour clock)		Time of Day of Lane Closures (use whole number		24-hour clock)	
Inbound	Start	End		Inbound	Start	End	
First period of lane closure	7	15		First period of lane closure	otait 7	15	
	-	15			-	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Casand named after a drawn				Second period of lane closure			
Second period of lane closure							
Second period of lane closure Third period of lane closure			1	Third period of lane closure			

_		Total Cost			
	Altern	ative 1	Alternat	ive 2	
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)	
Undiscounted Sum	\$17.67	\$13.79	\$17.67	\$13.79	
Present Value	\$5.00	\$3.90	\$5.00	\$3.90	
EUAC	\$0.40	\$0.31	\$0.40	\$0.31	
Lowest Present Value	e Agency Cost	Alternative 1			
Lowest Present Value	e User Cost	Alternative 1			

INPUT WORKSHEET	
INFOT WORKSTILLT	
1. Economic Variables	
Value of Time for Passenger Cars (\$/hour)	\$14.80
Value of Time for Single Unit Trucks (\$/hour)	\$28.60
Value of Time for Combination Trucks (\$/hour)	\$28.60
value of Time for Combination Trucks (whoth)	Ψ20.00
2. Analysis Options	
Include User Costs in Analysis	Yes
Include User Cost Remaining Life Value	Yes
Use Differential User Costs	Yes
User Cost Computation Method	Calculated
Include Agency Cost Remaining Life Value	Yes
Traffic Direction	Both
Analysis Period (Years)	31
Beginning of Analysis Period	2021
Discount Rate (%)	7.0
Number of Alternatives	2
INUITIDE OF AIRCHIAITVES	
3. Project Details	
State Route	SR63
Project Name	State Route 63 Priority Segment
Region	OH
County	Warren
Analyzed By	Diana Martin
Mileposts	Diana Martin
•	0.00
Begin End	3.00
	3.00
Length of Project (miles)	3.00
Comments	
4. Traffic Data	
AADT Construction Year (total for both directions)	20,600
Cars as Percentage of AADT (%)	91.0
Single Unit Trucks as Percentage of AADT (%)	2.0
Combination Trucks as Percentage of AADT (%)	7.0
Annual Growth Rate of Traffic (%)	3.2
Speed Limit Under Normal Operating Conditions (mph)	55
No of Lanes in Each Direction During Normal Conditions	3
Free Flow Capacity (vphpl)	1900
Rural or Urban Hourly Traffic Distribution	Rural
Queue Dissipation Capacity (vphpl)	1150
Maximum AADT (total for both directions)	40,000
Maximum Queue Length (miles)	1.0

Activity 1 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Service Life (years) Adams Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yphpi) Traffic Hourly Distribution First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 2 Agency Construction Cost (\$1000) Work Zone Capacity (Wars) Activity 2 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Capacity (Agency Construction Cost (\$1000) Work Zone Capacity (Wars) Activity 2 Agency Construction Cost (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Structural Life (years) Agency Maintenance Crequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Capacity (yphpl)	3 ITIAL BUILD \$0.00 0 11 11.00 11.0 10 50 1150 eek Day 1 assed on a 2 Start 7			Alternative 2 Number of Activities Activity 1 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Zone Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numt Inbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure	3 INITIAL BUILT \$0.00 or 1100 1110 11 4 0.00 50 01150 Week Day 1 27 Start 7	24-hour clock) End 15 End DED MEDIAN REHAB
Activity 1 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbers bas Inbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Activity 2 Agency Construction Cost (\$1000) Work Zone Costs (\$1000) User Work Zone Costs (\$1000) Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Adency Maintenance Frequency (years) Agency Maintenance Frequency (years) Agene Length (miles) Work Zone Length (miles) Work Zone Capaclity (yphpl)	TITAL BUILD \$0.00 1 11.0 11.0 11.0 4 0.00 50 sek Day 1 Dased on a 2 Start 7 Start 7 AJOR GRAE \$0.00 0 2 11.0	24-hour clock) End 15 End End 15	EHAB	Activity 1 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Zone Structural Life (years) Activity Structural Life (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yephpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numble Inbound First period of lane closure Second period of lane closure Outbound First period of lane closure Outbound First period of lane closure Second period of lane closure Activity 2 Agency Construction Cost (\$1000)	\$0.00 0 11.0 11.0 11.0 14 0.00 50 1150 Week Day 1 pers based on a Start 7 Start 7	End 15 End 15
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Service Life (years) Adinitenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yehpl) Traffic Hourly Distribution First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure Activity 2 Agency Maintenance Cost (\$1000) User Work Zone Capacity (Apple) Activity 2 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Adaintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yehpl)	\$0.00 0 11.00 11.00 11.0 14 0.00 500 1150 sek Day 1 3ased on a a Start 7 Start 7 Start 7 AJOR GRAD \$0.00 0 2 10.00	24-hour clock) End 15 End End 15	EHAB	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Zone Duration (days) No of Lanes Open in Each Direction During Work Zone User (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Eaped Limit (mph) Work Zone Opacity (yrbpi) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Activity 2 Agency Construction Cost (\$1000)	\$0.00 0 11.0 11.0 11.0 14 0.00 50 1150 Week Day 1 pers based on a Start 7 Start 7	End 15 End 15
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Service Life (years) Adinitenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yehpl) Traffic Hourly Distribution First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure Activity 2 Agency Maintenance Cost (\$1000) User Work Zone Capacity (Apple) Activity 2 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Adaintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yehpl)	\$0.00 0 11.00 11.00 11.0 14 0.00 500 1150 sek Day 1 3ased on a a Start 7 Start 7 Start 7 AJOR GRAD \$0.00 0 2 10.00	24-hour clock) End 15 End End 15	EHAB	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Zone Duration (days) No of Lanes Open in Each Direction During Work Zone User (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Eaped Limit (mph) Work Zone Opacity (yrbpi) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Activity 2 Agency Construction Cost (\$1000)	\$0.00 0 11.0 11.0 11.0 14 0.00 50 1150 Week Day 1 pers based on a Start 7 Start 7	End 15 End 15
User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution First period of lane closure Second period of lane closure First period of lane closure Third period of lane closure Second period of lane closure First period of lane closure Activity 2 Agency Construction Cost (\$1000) Work Zone Capacity (yphpl) Activity Structural Life (years) Adency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Costs (\$1000) Work Zone Costs (\$1000) Work Zone Duration (days) Adency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yphpl)	0 11.0 11.0 11.0 4 0.000 50 9ek Day 1 Dased on a 2 Start 7 Start 7	End 15 End 15	EHAB	User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Zone Duration (tays) Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number of Lange of Lane closure) Second period of lane closure Second period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Activity 2 Agency Construction Cost (\$1000)	00 11.0 11.0 11.0 11.0 10.0 50 1150 Week Day 1 Ders based on a Start 7 Start 7	End 15 End 15
Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yehpl) Traffic Hourly Distribution First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Activity 2 Agency Construction Cost (\$1000) Work Zone Capacity (yehpl) Activity Structural Life (years) Activity Structural Life (years) Agency Maintenance Frequency (years) Agency Maintenance Frequency (years) Agency Limit (mph) Work Zone Cost Sepen Limit (mph) Work Zone Length (miles) Work Zone Capacity (yehpl)	50 1150 sek Day 1 Jassed on a 2 Start 7 Start 7 Start 9.000	End 15 End 15	EHAB	Work Zone Duration (days) No of Lanes Open in Each Direction During Wo Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpi) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number of lane closure Second period of lane closure Second period of lane closure Outbound First period of lane closure Second period of lane closure Activity 2 Agency Construction Cost (\$1000)	11.0 11.0 11.0 14 0.00 50 1150 Week Day 1 Ders based on a Start 7 Start 7	End 15 End 15
No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Service Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yehpl) Traffic Hourly Distribution Weel Time of Day of Lane Closures (use whole numbers bas Inbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Second period of lane closure Activity 2 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Adaintenance Frequency (years) Agency Maintenance Frequency (years) Agene Length (miles) Work Zone Length (miles) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yephpl)	50 1150 sek Day 1 Jassed on a 2 Start 7 Start 7 Start 9.000	End 15 End 15	EHAB	No of Lanes Open in Each Direction During Wo Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Activity 2 Agency Construction Cost (\$1000)	11.0 11.0 11.0 14 0.00 50 1150 Week Day 1 Ders based on a Start 7 Start 7	End 15 End 15
No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Service Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yehpl) Traffic Hourly Distribution Weel Time of Day of Lane Closures (use whole numbers bas Inbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Second period of lane closure Activity 2 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Adaintenance Frequency (years) Agency Maintenance Frequency (years) Agene Length (miles) Work Zone Length (miles) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yephpl)	50 1150 sek Day 1 Jassed on a 2 Start 7 Start 7 Start 9.000	End 15 End 15 15	EHAB	No of Lanes Open in Each Direction During Wo Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Activity 2 Agency Construction Cost (\$1000)	11.0 11.0 11.0 14 0.00 50 1150 Week Day 1 Ders based on a Start 7 Start 7	End 15 End 15
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Time of Day of Lane Closures (use whole numbers bas Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure First period of lane closure Second period of lane closure Third period of lane closure Activity 2 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Service Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpt)	Start 7 Start 7 Start 7 AJOR GRAE \$0.00 0 2 10.0	End 15 End 15	EHAB	Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Activity 2 Agency Construction Cost (\$1000)	Start 7 Start 7 MAJOR GRAI	End 15 End 15
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Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 2 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yohpt)	7 AJOR GRAD \$0.00 0 2 10.0	15	EHAB	Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 2 Agency Construction Cost (\$1000)	MAJOR GRAI	15
First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 2 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yelph)	7 AJOR GRAD \$0.00 0 2 10.0	15	EHAB	First period of lane closure Second period of lane closure Third period of lane closure Activity 2 Agency Construction Cost (\$1000)	MAJOR GRAI	15
First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 2 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yelph)	7 AJOR GRAD \$0.00 0 2 10.0	15	EHAB	First period of lane closure Second period of lane closure Third period of lane closure Activity 2 Agency Construction Cost (\$1000)	MAJOR GRAI	15
First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 2 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yelph)	7 AJOR GRAD \$0.00 0 2 10.0	15	EHAB	First period of lane closure Second period of lane closure Third period of lane closure Activity 2 Agency Construction Cost (\$1000)	MAJOR GRAI	15
Second period of lane closure Third period of lane closure Activity 2 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yohph)	\$0.00 0 2 10.0	DED MEDIAN RE	ЕНАВ	Second period of lane closure Third period of lane closure Activity 2 Agency Construction Cost (\$1000)		
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Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpt)	10.0			Work Zone Duration (days)	0	i
Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yrhph)	10.0			No of Lanes Open in Each Direction During Wo	ork 2	i l
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Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yrphpl)	1				10.0	I
Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl)				Maintenance Frequency (years)	1	
Work Zone Speed Limit (mph) Work Zone Capacity (vphpl)	4			Agency Maintenance Cost (\$1000)	4	i l
Work Zone Capacity (vphpl)	0.00			Work Zone Length (miles)	0.00	i l
Work Zone Capacity (vphpl)	50			Work Zone Speed Limit (mph)	50	
	1150			Work Zone Capacity (vphpl)	1150	1
Traffic Hourly Distribution Week						
	eek Day 1			Traffic Hourly Distribution	Week Day 1	1
Time of Day of Lane Closures (use whole numbers bas				Time of Day of Lane Closures (use whole numb		
Inbound	Start	End		Inbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
Second period of lane closure	-			Second period of lane closure		
Third period of lane closure				Third period of lane closure		
	Start	End		Outbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
	AJOR GRAD	DED MEDIAN RE	EHAB	Activity 3	MAJOR GRAI	DED MEDIAN REHAB
	\$110.00			Agency Construction Cost (\$1000)	\$110.00	
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)		
Work Zone Duration (days)	30			Work Zone Duration (days)	30	
	30				30	
No of Lanes Open in Each Direction During Work	2			No of Lanes Open in Each Direction During Wo	2	.
Activity Service Life (years)	10.0			Activity Service Life (years)	10.0	
Activity Structural Life (years)	10.0			Activity Structural Life (years)	10.0	
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	4			Agency Maintenance Cost (\$1000)	4	
Work Zone Length (miles)	3.00				3.00	
Work Zone Length (miles)				Work Zone Length (miles)		<u> </u>
Work Zone Speed Limit (mph)	50			Work Zone Speed Limit (mph)	50	
Work Zone Capacity (vphpl)	1150			Work Zone Capacity (vphpl)	1150	
Traffic Hourly Distribution Week	eek Day 1			Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole numbers bas		24-hour clock)		Time of Day of Lane Closures (use whole numb		24-hour clock)
	Start	End		Inbound	Start	End
First period of lane closure	7	15		First period of lane closure	7	15
Second period of lane closure				Second period of lane closure		
Third period of lane closure				Third period of lane closure		
		F=4		Outhound	Ctout	F=4
Outhound	Chart	End		Outbound	Start	End
	Start			First period of lane closure	7	15
First period of lane closure	Start 7	15				
	Start 7	15		Second period of lane closure		

	•	Total Cost			
	Altern	ative 1	Alternative 2		
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)	
Undiscounted Sum	\$222.00	\$64.04	\$222.00	\$64.04	
Present Value	\$73.34	\$15.47	\$73.34	\$15.47	
EUAC	\$5.85	\$1.23	\$5.85	\$1.23	
Lowest Present Value	e Agency Cost	Alternative 1			
Lowest Present Value	e User Cost	Alternative 1			

INI	PUT WORKSHEET		
1141	- OT WORKSHELT		
1.	Economic Variables		
	Value of Time for Passenger Cars (\$/hour)	\$14.20	
	Value of Time for Passenger Gars (\$/hour) Value of Time for Single Unit Trucks (\$/hour)	\$28.60	
	Value of Time for Combination Trucks (\$/hour)	\$28.60	
	value of Time for Combination Trucks (φ/nour)	Ψ20.00	
2.	Analysis Options		
	Include User Costs in Analysis	Yes	
	Include User Cost Remaining Life Value	Yes	
	Use Differential User Costs	Yes	
	User Cost Computation Method	Calculated	
	Include Agency Cost Remaining Life Value	Yes	
	Traffic Direction	Both	
	Analysis Period (Years)	31	
	Beginning of Analysis Period	2021	
	Discount Rate (%)	7.0	
	Number of Alternatives	2	
	Number of Alternatives		
3.	Project Details		
	State Route	SR63	
	Project Name		3 Priority Segment
	Region	OH OH	or nonty deginent
	County	Warren	
	Analyzed By	Diana Martin	
	Mileposts	Dialia Martin	
	Begin	0.00	
	End	3.00	
	Length of Project (miles)	3.00	
	Length of Project (miles)	3.00	
	Comments		
4.	Traffic Data		
	AADT Construction Year (total for both directions)	20,600	
	Cars as Percentage of AADT (%)	91.0	
	Single Unit Trucks as Percentage of AADT (%)	2.0	
	Combination Trucks as Percentage of AADT (%)	7.0	
	Annual Growth Rate of Traffic (%)	3.2	
	Speed Limit Under Normal Operating Conditions (mph)	55	
	No of Lanes in Each Direction During Normal Conditions	3	
	Free Flow Capacity (vphpl)	1900	
	Rural or Urban Hourly Traffic Distribution	Rural	
	Queue Dissipation Capacity (vphpl)	1100	
	Maximum AADT (total for both directions)	40,000	
	Maximum Queue Length (miles)	1.0	
	- , ,		

onstruction Alternative 1	4 Long Divide	d Evnonoise	Modion Coble D	Alternative 2	4 Long Divide	d Evpopoies	Modion C
	4-Lane Divide	ed Expansion -	Median Cable B		4-Lane Divide	d Expansion -	Median C
Number of Activities	2			Number of Activities	2		
Activity 1	INITIAL BUIL	D		Activity 1	INITIAL BUILD)	1
Agency Construction Cost (\$1000)	\$0.00	Ī		Agency Construction Cost (\$1000)	\$0.00		1
User Work Zone Costs (\$1000)	\$0.00			User Work Zone Costs (\$1000)	\$0.00		
Work Zone Duration (days)	0			Work Zone Duration (days)	0		
No of Lanes Open in Each Direction During Work	1			No of Lanes Open in Each Direction During Work	1		
Activity Service Life (years)	11.0			Activity Service Life (years)	11.0		
Activity Structural Life (years)	11.0			Activity Structural Life (years)	11.0		
Maintenance Frequency (years)	11.0			Maintenance Frequency (years)	11.0		
Agency Maintenance Cost (\$1000)				Agency Maintenance Cost (\$1000)			
Work Zone Length (miles)	0.00			Work Zone Length (miles)	0.00		
Work Zone Speed Limit (mph)	50			Work Zone Speed Limit (mph)	50		
Work Zone Capacity (vphpl)	1150			Work Zone Capacity (vphpl)	1150		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number		24-hour clock		Time of Day of Lane Closures (use whole number		24-hour clock)	\
Inbound	Start	End		Inhound	Start	End	'
First period of lane closure	Start 7	Ena 15		First period of lane closure	3tart 7	Ena 15	5
Second period of lane closure		10	<u>'</u>	Second period of lane closure	- 1	10	<u>'</u>
Third period of lane closure			_	Third period of lane closure			
Third period of farie closure				Tilliu periou di falle closure			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	Otalit 7			First period of lane closure	Jian 7	15	
Second period of lane closure		10	,	Second period of lane closure	- 1	10	<u> </u>
Third period of lane closure			_	Third period of lane closure			
Third period of fairle diobate				Third period of faile diodate			
Activity 2	EXPANSION			Activity 2	EXPANSION		
Agency Construction Cost (\$1000)	\$0.00			Agency Construction Cost (\$1000)	\$0.00		
User Work Zone Costs (\$1000)				User Work Zone Costs (\$1000)			
Work Zone Duration (days)	0			Work Zone Duration (days)	0		
No of Lanes Open in Each Direction During Work	2			No of Lanes Open in Each Direction During Work	2		
Activity Service Life (years)	20.0			Activity Service Life (years)	20.0		
Activity Structural Life (years)	20.0			Activity Structural Life (years)	20.0		
Maintenance Frequency (years)	1			Maintenance Frequency (years)	1		
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	3.00			Work Zone Length (miles)	3.00		
Work Zone Speed Limit (mph)	50			Work Zone Speed Limit (mph)	50		
Work Zone Capacity (vphpl)	1150			Work Zone Capacity (vphpl)	1150		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole number		24-hour clock)	Time of Day of Lane Closures (use whole numbe		24-hour clock))
Inbound	Start	End	,	Inbound	Start	End	1
First period of lane closure	7			First period of lane closure	7		
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Tima ponda or tand dioduro				rima ponoa or tario diodato			-
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15	<u>;</u>	First period of lane closure	7	15	i
Second period of lane closure		-		Second period of lane closure		- 10	1
Third period of lane closure				Third period of lane closure			
Third police of faile diodale				Time ponde of tario dioduce			1
Activity 3				Activity 3			_

		Total Cost				
	Altern	ative 1	Alternative 2			
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)		
Undiscounted Sum	\$0.00	\$0.00	\$0.00	\$0.00		
Present Value	\$0.00	\$0.00	\$0.00	\$0.00		
EUAC	\$0.00	\$0.00	\$0.00	\$0.00		
Lowest Present Value	e Agency Cost	Alternative 1				
Lowest Present Value	e User Cost	Alternative 1				

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1.	Economic Variables		
<u>. </u>		¢44.00	
	Value of Time for Passenger Cars (\$/hour)	\$14.80	
	Value of Time for Single Unit Trucks (\$/hour)	\$28.60	
	Value of Time for Combination Trucks (\$/hour)	\$28.60	
2.	Analysis Options		
	Include User Costs in Analysis	Yes	
	Include User Cost Remaining Life Value	Yes	
	Use Differential User Costs	Yes	
1	User Cost Computation Method	Calculated	
	Include Agency Cost Remaining Life Value	Yes	
	Traffic Direction	Both	
	Analysis Period (Years)	31	
	Beginning of Analysis Period	2021	
	Discount Rate (%)	7.0	
	Number of Alternatives	2	
3.	Project Details		
	State Route	SR63	
	Project Name	State Route 63 Priority	Segment
	Region	OH	Cogmone
	County	Warren	
	Analyzed By	Diana Martin	
	Mileposts	Diaria Martin	
	•	0.00	
	Begin End	3.00	
	Length of Project (miles)	3.00	
1			
ı	Comments		
1			
1	Traffic Data		
4.	Traffic Data AADT Construction Voor (total for both directions)	20.600	
	AADT Construction Year (total for both directions)	20,600	
	Cars as Percentage of AADT (%)	91.0	
	Single Unit Trucks as Percentage of AADT (%)	2.0	
	Combination Trucks as Percentage of AADT (%)	7.0	
	Annual Growth Rate of Traffic (%)	3.2	
	Speed Limit Under Normal Operating Conditions (mph)	55	
	No of Lanes in Each Direction During Normal Conditions	3	
	Free Flow Capacity (vphpl)	1900	
	Rural or Urban Hourly Traffic Distribution	Rural	
	Queue Dissipation Capacity (vphpl)	1100	
	Queue Dissipation Capacity (vpripi)		
	Maximum AADT (total for both directions)	40,000	

Alternative 1	4-Lane Divided	d - Overhead Signs and Signa	Alternative 2	4-Lane Divide	d - Overhead Signs an
Number of Activities	3	T. T. House Orgins and Orgins	Number of Activities	3	
Training of Training			Number of Neuritage		
Activity 1	INITIAL BUILD		Activity 1	INITIAL BUILD	
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Worl	u 1		No of Lanes Open in Each Direction During Wor	1	
Activity Service Life (years)	11.0		Activity Service Life (years)	11.0	
Activity Structural Life (years)	11.0		Activity Structural Life (years)	11.0	
Maintenance Frequency (years)	11.0		Maintenance Frequency (years)	11.0	
Agency Maintenance Cost (\$1000)	7		Agency Maintenance Cost (\$1000)	7	
Agency Maintenance Cost (\$1000)	0.00		Agency Maintenance Cost (\$1000)	0.00	
Work Zone Length (miles)			Work Zone Length (miles)		
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	750		Work Zone Capacity (vphpl)	750	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number			Time of Day of Lane Closures (use whole number		
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure	/	10	Second period of lane closure		10
Third period of lane closure					
Third period of farie closure			Third period of lane closure		
A - 45 - 46 - 6	DEDLAGE OF	EDITE A DI OLONIO AND CICALI	A - th de - O	DEDLA OF C	(EDITE AD CLONG AND
Activity 2	REPLACE OV	ERHEAD SIGNS AND SIGNA	Activity 2	REPLACE OV	/ERHEAD SIGNS AND
Agency Construction Cost (\$1000)	\$0.00		Agency Construction Cost (\$1000)	\$0.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	0		Work Zone Duration (days)	0	
No of Lanes Open in Each Direction During Worl	k 2		No of Lanes Open in Each Direction During Wor	2	
Activity Service Life (years)	15.0		Activity Service Life (years)	15.0	
Activity Structural Life (years)	15.0		Activity Structural Life (years)	15.0	
Maintenance Frequency (years)	1		Maintenance Frequency (years)	1	
Agency Maintenance Cost (\$1000)	a a		Agency Maintenance Cost (\$1000)	o o	
Work Zone Length (miles)	0.10		Work Zone Length (miles)	0.10	
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40	
	40			40	
Work Zone Capacity (vphpl)	500		Work Zone Capacity (vphpl)	500	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole number			Time of Day of Lane Closures (use whole number		
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
			·		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure	-		Second period of lane closure		
Third period of lane closure			Third period of lane closure		
milità period di lane diosure			Third period of faile closure		
		EBUEAB GIONG AND GIONA	Activity 3		/ERHEAD SIGNS AND
A officient 2	DEDLACE OV				
Activity 3		ERHEAD SIGNS AND SIGNA			
Agency Construction Cost (\$1000)	\$1,417.50	ERHEAD SIGNS AND SIGNA	Agency Construction Cost (\$1000)	\$1,417.50	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000)		ERHEAD SIGNS AND SIGNA	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000)		
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)	\$1,417.50 24	ERHEAD SIGNS AND SIGNA	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)		
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl	\$1,417.50 24 k 2	ERHEAD SIGNS AND SIGNA	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor	\$1,417.50 24 2	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years)	\$1,417.50 24 k 2 5.0	ERHEAD SIGNS AND SIGNA	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years)	\$1,417.50 24 2 5.0	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years)	\$1,417.50 24 k 2	ERHEAU SIGNS AND SIGNA	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years)	\$1,417.50 24 2	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	\$1,417.50 24 k 2 5.0	ERHEAU SIGNS AND SIGNA	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	\$1,417.50 24 2 5.0	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	\$1,417.50 24 k 2 5.0	ERHEAU SIGNS AND SIGNA	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	\$1,417.50 24 2 2 5.0 15.0 1 9	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	\$1,417.50 24 k 2 5.0	ERHEAD SIGNS AND SIGNA	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	\$1,417.50 24 2 5.0	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	\$1,417.50 24 2 2 5.0 15.0 1 9	ERHEAU SIGNS AND SIGNA	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	\$1,417.50 24 2 2 5.0 15.0 1 9	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)	\$1,417.50 24 2 5.0 15.0 1 9 0.10	ERHEAU SIGNS AND SIGNA	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)	\$1,417.50 24 2 5.0 15.0 1 9 0.10	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl)	\$1,417.50 24 2 2 5.0 15.0 1 9 0.10 40 500	ERHEAU SIGNS AND SIGNA	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl)	\$1,417.50 24 2 5.0 15.0 1 9 0.10 40 500	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution	\$1,417.50 24 2 2 5.0 15.0 1 1 9 0.10 40 5000 Week Day 1		Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution	\$1,417.50 24 2 2 5.0 15.0 1 9 0.10 40 500 Week Day 1	
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	\$1,417.50 24 2 2 5.0 15.0 1 9 0.10 40 500 Week Day 1 ers based on a 2	24-hour clock)	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	\$1,417.50 24 2 2 5.0 15.0 1 9 0.10 40 500 Week Day 1	24-hour clock)
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number	\$1,417.50 24 2 2 5.0 15.0 1 1 9 0.10 40 5000 Week Day 1		Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yhppl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe	\$1,417.50 24 2 2 5.0 15.0 1 9 0.10 40 500 Week Day 1	24-hour clock) End
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	\$1,417.50 24 2 2 5.0 15.0 1 9 0.10 40 500 Week Day 1 ers based on a 2	24-hour clock)	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	\$1,417.50 24 2 2 5.0 15.0 1 9 0.10 40 500 Week Day 1	24-hour clock)
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Agency Maintenance Focuency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yohpi) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure	\$1,417.50 24 2 2 5.0 15.0 1 9 0.10 40 500 Week Day 1 ers based on a 2	24-hour clock)	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Structural Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound) First period of lane closure Second period of lane closure	\$1,417.50 24 2 2 5.0 15.0 1 9 0.10 40 500 Week Day 1	24-hour clock) End
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	\$1,417.50 24 2 2 5.0 15.0 1 9 0.10 40 500 Week Day 1 ers based on a 2	24-hour clock)	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Speed Limit (mph) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure	\$1,417.50 24 2 2 5.0 15.0 1 9 0.10 40 500 Week Day 1	24-hour clock) End
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Service Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yehpt) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$1,417.50 24 2 2 5.0 15.0 1 1 9 0.10 40 500 Week Day 1 ers based on a 2 Start	24-hour clock) End 15	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Gapacity (vphpi) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure	\$1,417.50 24 2 5.00 15.00 1 9 0.10 40 500 Week Day 1 rs based on a Start 7	24-hour clock) End 15
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yephpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$1,417.50 24 2 2 5.0 15.0 1 9 0.10 40 500 Week Day 1 ers based on a 2	24-hour clock) End 15	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$1,417.50 24 2 2 5.0 15.0 1 9 0.10 40 500 Week Day 1	24-hour clock) End 15
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole number Inbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure	\$1,417.50 24 2 2 5.0 15.0 1 1 9 0.10 40 500 Week Day 1 ers based on a 2 Start	24-hour clock) End 15	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Depactly (yrphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure Outbound First period of lane closure	\$1,417.50 24 2 5.00 15.00 1 9 0.10 40 500 Week Day 1 rs based on a Start 7	24-hour clock) End 15
Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Worl Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yephpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$1,417.50 24 2 5.0 15.0 1 1 9 0.10 40 500 Week Day 1 ers based on a 2 Start	24-hour clock) End 15	Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numbe Inbound First period of lane closure Second period of lane closure Third period of lane closure	\$1,417.50 24 2 5.00 15.00 1 9 0.10 40 500 Week Day 1 rs based on a Start 7	24-hour clock) End 15

Total Cost							
	Alterna	Alternative 1		ive 2			
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)			
Undiscounted Sum	\$704.50	\$415.24	\$704.50	\$415.24			
Present Value	\$219.88	\$112.55	\$219.88	\$112.55			
EUAC	\$17.55	\$8.98	\$17.55	\$8.98			
Lowest Present Value	e Agency Cost	Alternative 1					
Lowest Present Value	e User Cost	Alternative 1					

INPUT WORKSHEET		
INPUT WORKSHEET		
4 Facusaria Variables		
1. Economic Variables	Φ4.4.00	
Value of Time for Passenger Cars (\$/hour)	\$14.80	
Value of Time for Single Unit Trucks (\$/hour)	\$28.60	
Value of Time for Combination Trucks (\$/hour)	\$28.60	
2. Analysis Options		
Include User Costs in Analysis	Yes	
Include User Cost Remaining Life Value	Yes	
Use Differential User Costs	Yes	
User Cost Computation Method	Calculated	
Include Agency Cost Remaining Life Value	Yes	
Traffic Direction	Both	
Analysis Period (Years)	31	
Beginning of Analysis Period	2021	
Discount Rate (%)	7.0	
Number of Alternatives	2	
3. Project Details		
State Route	SR63	
Project Name	State Route 63 Priority Segment	
Region	OH	
County	Warren	
Analyzed By	Diana Martin	
Mileposts	Diana Wartin	
Begin	0.00	
End	3.00	
Length of Project (miles)	3.00	
Length of Froject (filles)	3.00	
Comments		
4. Traffic Data		
AADT Construction Year (total for both directions)	20,600	
Cars as Percentage of AADT (%)	91.0	
Single Unit Trucks as Percentage of AADT (%)	2.0	
Combination Trucks as Percentage of AADT (%)	7.0	
Annual Growth Rate of Traffic (%)	3.2	
Speed Limit Under Normal Operating Conditions (mph)	55	
No of Lanes in Each Direction During Normal Conditions	2	
•	1900	
Free Flow Capacity (vphpl)	Rural	
Rural or Urban Hourly Traffic Distribution		
Queue Dissipation Capacity (vphpl)	1100	
Maximum AADT (total for both directions)	40,000	
Maximum Queue Length (miles)	1.0	

onstruction	4 Lana Divisio	d Outcome d		Alternative 2	4 Lana Divisio	d Outers O	
Alternative 1	4-Lane Divide	d - Outages 1				d - Outages 2	
Number of Activities	2			Number of Activities	2		
Activity 1	SPOT INCIDE	NT-CAUSED	REPAIRS	Activity 1	SPOT INCIDE	NT-CAUSED F	REPAIR
Agency Construction Cost (\$1000)	\$55.00	INT-ONOOLD	T(L) / III (O	Agency Construction Cost (\$1000)	\$55.00	INT-ONOCED I	CEI / CII
User Work Zone Costs (\$1000)	\$00.00			User Work Zone Costs (\$1000)	ψου.συ		
Work Zone Duration (days)	1			Work Zone Duration (days)	1		
No of Lanes Open in Each Direction During Work	1			No of Lanes Open in Each Direction During Work	1		
Activity Service Life (years)	5.0			Activity Service Life (years)	5.0		
Activity Structural Life (years)	0.0			Activity Structural Life (years)	0.0		
Maintenance Frequency (years)	0.0			Maintenance Frequency (years)	0.0		
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10		
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750		
	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole numbe		24 hour alook		Time of Day of Lane Closures (use whole numbe		24 hour clock)	
Inhound	Start	End	/	Inhound	Start	End	
First period of lane closure	Start	15		First period of lane closure	Jian	15	
Second period of lane closure	- '	10	<u>'</u>	Second period of lane closure	- 1	10	
Third period of lane closure				Third period of lane closure			
Third period of farie closure			_	Third period of farie closure			
Outbound	Start	End		Outbound	Start	End	
	Start				Start		
First period of lane closure	- /	15	<u> </u>	First period of lane closure	- /	15	
Second period of lane closure				Second period of lane closure			
Third period of lane closure				Third period of lane closure			
Activity 2	SPOT INCIDE	NT-CAUSED	REPAIRS	Activity 2	SPOT INCIDE	NT-CAUSED F	REPAI
Agency Construction Cost (\$1000)	\$55.00	ONOGED	T.E. TIII CO	Agency Construction Cost (\$1000)	\$55.00	THE CONTRACTOR OF THE CONTRACT	/
User Work Zone Costs (\$1000)	\$00.00			User Work Zone Costs (\$1000)	φου.σο		
Work Zone Duration (days)	1			Work Zone Duration (days)	1		
No of Lanes Open in Each Direction During Work	1			No of Lanes Open in Each Direction During Work	1		
Activity Service Life (years)	5.0			Activity Service Life (years)	5.0		
Activity Structural Life (years)	0.0			Activity Structural Life (years)	0.0		
Maintenance Frequency (years)	0.0			Maintenance Frequency (years)	0.0		
Agency Maintenance Cost (\$1000)	0			Agency Maintenance Cost (\$1000)	0		
Work Zone Length (miles)	0.10			Work Zone Length (miles)	0.10		
Work Zone Speed Limit (mph)	40			Work Zone Speed Limit (mph)	40		
Work Zone Capacity (vphpl)	750			Work Zone Capacity (vphpl)	750		
Traffic Hourly Distribution	Week Day 1			Traffic Hourly Distribution	Week Day 1		
Time of Day of Lane Closures (use whole numbe		24 hour clock		Time of Day of Lane Closures (use whole numbe		24 hour clock)	
Inbound	Start	End	1	Inhound	Start	End	
First period of lane closure	Start 7	15		First period of lane closure	3iait 7		
Second period of lane closure	- /	15	-	Second period of lane closure	/	15	
Third period of lane closure				Third period of lane closure			
Third period of lane closure			_	mind period or rane closure			
Outbound	Start	End		Outbound	Start	End	
First period of lane closure	7	15		First period of lane closure	7	15	
Second period of lane closure		- 10		Second period of lane closure		10	
Third period of lane closure				Third period of lane closure			
				rima period or idile diodule			

	_	Total Cost				
	Altern	ative 1	Alternative 2			
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)		
Undiscounted Sum	\$110.00	\$5.40	\$110.00	\$5.40		
Present Value	\$94.21	\$4.14	\$94.21	\$4.14		
EUAC	\$7.52	\$0.33	\$7.52	\$0.33		
Lowest Present Value	e Agency Cost	Alternative 1				
Lowest Present Value	e User Cost	Alternative 1				

INPUT WORKSHEET	
INFOT WORKSHEET	
1. Economic Variables	
Value of Time for Passenger Cars (\$/hour)	\$14.80
Value of Time for Passenger Gars (\$/hour) Value of Time for Single Unit Trucks (\$/hour)	\$28.60
Value of Time for Combination Trucks (\$/hour)	\$28.60
value of Time for Combination Tracks (whoth)	Ψ20.00
2. Analysis Options	
Include User Costs in Analysis	Yes
Include User Cost Remaining Life Value	Yes
Use Differential User Costs	Yes
User Cost Computation Method	Calculated
Include Agency Cost Remaining Life Value	Yes
Traffic Direction	Both
Analysis Period (Years)	31
Beginning of Analysis Period	2021
Discount Rate (%)	7.0
Number of Alternatives	2
Number of Alternatives	
3. Project Details	
State Route	SR63
Project Name	State Route 63 Priority Segment
Region	OH
County	Warren
Analyzed By	Diana Martin
Mileposts	Dialia Martin
Begin	0.00
End	3.00
Length of Project (miles)	3.00
Length of Project (miles)	3.00
Comments	
4. Traffic Data	
AADT Construction Year (total for both directions)	20,600
Cars as Percentage of AADT (%)	91.0
Single Unit Trucks as Percentage of AADT (%)	2.0
Combination Trucks as Percentage of AADT (%)	7.0
Annual Growth Rate of Traffic (%)	3.2
Speed Limit Under Normal Operating Conditions (mph)	55
No of Lanes in Each Direction During Normal Conditions	3
Free Flow Capacity (vphpl)	1900
Rural or Urban Hourly Traffic Distribution	Rural
Queue Dissipation Capacity (vphpl)	1100
Maximum AADT (total for both directions)	40,000
Maximum Queue Length (miles)	1.0

onstruction					
Alternative 1 Number of Activities	4-Lane Undivi	ided - Outages 1	Alternative 2 Number of Activities	4-Lane Undiv 4	ided - Outages 2
Activity 1	SPOT INCIDE	NT-CAUSED REPAIR		SPOT INCIDE	NT-CAUSED REPAIR
Agency Construction Cost (\$1000)	\$55.00		Agency Construction Cost (\$1000)	\$55.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	1		Work Zone Duration (days)	1	
No of Lanes Open in Each Direction During Wo			No of Lanes Open in Each Direction During Wo		
Activity Service Life (years)	5.0		Activity Service Life (years)	5.0	
Activity Structural Life (years)	0.0		Activity Structural Life (years)	0.0	
Maintenance Frequency (years)	0		Maintenance Frequency (years)	0	
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0	
Work Zone Length (miles)	0.10		Work Zone Length (miles)	0.10	
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	1000		Work Zone Capacity (vphpl)	1000	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole numb	ers based on a	24-hour clock)	Time of Day of Lane Closures (use whole numb	ers based on a	24-hour clock)
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Activity 2	SPOT INCIDE	NT-CAUSED REPAIR		SPOT INCIDE	NT-CAUSED REPAIR
Agency Construction Cost (\$1000)	\$55.00		Agency Construction Cost (\$1000)	\$55.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	1		Work Zone Duration (days)	1	
No of Lanes Open in Each Direction During Wo			No of Lanes Open in Each Direction During Wo		
Activity Service Life (years)	5.0		Activity Service Life (years)	5.0	
Activity Structural Life (years)	0.0		Activity Structural Life (years)	0.0	
Maintenance Frequency (years)	0		Maintenance Frequency (years)	0	
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0	
Work Zone Length (miles)	0.10		Work Zone Length (miles)	0.10	
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	1000		Work Zone Capacity (vphpl)	1000	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole numb	ers based on a		Time of Day of Lane Closures (use whole numb	ers based on a	
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Outbound	Start	End	Outbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
Second period of lane closure			Second period of lane closure		
Third period of lane closure			Third period of lane closure		
Activity 3		NT-CAUSED REPAIR			NT-CAUSED REPAIR
Agency Construction Cost (\$1000)	\$55.00		Agency Construction Cost (\$1000)	\$55.00	
User Work Zone Costs (\$1000)			User Work Zone Costs (\$1000)		
Work Zone Duration (days)	1		Work Zone Duration (days)	1	
No of Lanes Open in Each Direction During Wor			No of Lanes Open in Each Direction During Wo		
Activity Service Life (years)	5.0		Activity Service Life (years)	5.0	
Activity Structural Life (years)	0.0		Activity Structural Life (years)	0.0	
Maintenance Frequency (years)	0		Maintenance Frequency (years)	0	
Agency Maintenance Cost (\$1000)	0		Agency Maintenance Cost (\$1000)	0	
Work Zone Length (miles)	0.10		Work Zone Length (miles)	0.10	
Work Zone Speed Limit (mph)	40		Work Zone Speed Limit (mph)	40	
Work Zone Capacity (vphpl)	1000		Work Zone Capacity (vphpl)	1000	
Traffic Hourly Distribution	Week Day 1		Traffic Hourly Distribution	Week Day 1	
Time of Day of Lane Closures (use whole numb			Time of Day of Lane Closures (use whole numb		
Inbound	Start	End	Inbound	Start	End
First period of lane closure	7	15	First period of lane closure	7	15
			Second period of lane closure		
Second period of lane closure					
			Third period of lane closure		
Second period of lane closure Third period of lane closure			·		
Second period of lane closure Third period of lane closure Outbound	Start	End	Outbound	Start	End
Second period of lane closure Third period of lane closure Outbound First period of lane closure	Start 7	End 15	Outbound First period of lane closure	Start 7	End 15
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure	Start 7		Outbound First period of lane closure Second period of lane closure	Start 7	
Second period of lane closure Third period of lane closure Outbound First period of lane closure	Start 7		Outbound First period of lane closure	Start 7	
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure	7	15	Outbound First period of lane closure Second period of lane closure Third period of lane closure	7	15
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 4	SPOT INCIDE		Outbound First period of lane closure Second period of lane closure Third period of lane closure RS Activity 4	SPOT INCIDE	
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000)	7	15	Outbound First period of lane closure Second period of lane closure Third period of lane closure RS Activity 4 Agency Construction Cost (\$1000)	7	15
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000)	SPOT INCIDE	15	Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure RS Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000)	SPOT INCIDE	15
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)	5POT INCIDE \$55.00	15	Outbound First period of lane closure Second period of lane closure Third period of lane closure RS Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)	7 SPOT INCIDE \$55.00	15
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work	7 SPOT INCIDE \$55.00 11 12	15	Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure RS Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wo	\$POT INCIDE \$55.00	15
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wor Activity Service Life (years)	7 SPOT INCIDE \$55.00 1 1 1 2 5.0	15	Outbound First period of lane closure Second period of lane closure Third period of lane closure RS Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days)	7 SPOT INCIDE \$55.00	15
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work	7 SPOT INCIDE \$55.00 11 12	15	Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure RS Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wo	\$POT INCIDE \$55.00	15
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wol Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	7 SPOT INCIDE \$55.00 1 1 1 2 5.0	15	Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure RS Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wol Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	\$POT INCIDE \$55.00	15
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years)	7 SPOT INCIDE \$55.00 1 1 1 2 5.0	15	Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure RS Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years)	\$POT INCIDE \$55.00	15
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wol Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	SPOT INCIDE \$55.00 11 rk 2 5.00 0.00	15	Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure RS Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wolder Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000)	\$POT INCIDE \$55.00	15
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	\$POT INCIDE \$55.00 11 rk 2 5.00 0.0 0	15	Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure RS Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wol Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years)	\$POT INCIDE \$55.00 1 1 2 5.0 0.0 0 0	15
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph)	SPOT INCIDE \$55.00 1 1 1 2 5.0 0.0 0 0.10	15	Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure RS Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Wole Activity Service Life (years) Activity Service Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles)	\$55.00 \$55.00 1 1 2 5.0 0.0 0 0 0.10	15
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl)	\$55.00 \$55.00 11 14 2 5.0 0.0 0 0.10 40 1000	15	Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure RS Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yphpl)	\$55.00 \$55.00 \$1 \$2 \$5.00 \$0.00 \$0.10 \$40 \$1000 \$1000	15
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution	SPOT INCIDE \$55.00 1 1 14 2 5.0 0.0 0 0 0.10 40 1000 Week Day 1	NT-CAUSED REPAII	Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Zone Life (years) Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution	\$55.00 \$55.00 \$1 \$2 \$5.00 \$0.00 \$0.10 \$40 \$0.00	IS NT-CAUSED REPAIR
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl)	SPOT INCIDE \$55.00 1 1 2 5.0 0.0 0 0.10 40 1000 Week Day 1 ers based on a	The state of the s	Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure RS Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yphpl)	\$POT INCIDE \$55.00 1 1 2 5.00 0.00 0.10 40 1000 Week Day 1 ers based on a	ENT-CAUSED REPAIR 24-hour clock)
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Adaintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb	SPOT INCIDE \$55.00 1 1 14 2 5.0 0.0 0 0 0.10 40 1000 Week Day 1	NT-CAUSED REPAII	Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure RS Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb	\$55.00 \$55.00 \$1 \$2 \$5.00 \$0.00 \$0.10 \$40 \$0.00	NT-CAUSED REPAIR: 24-hour clock) End
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Adaintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure	SPOT INCIDE \$55.00 1 1 2 5.0 0.0 0 0.10 40 1000 Week Day 1 ers based on a	The state of the s	Outbound First period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Duration (days) No of Lanes Open in Each Direction During Work Zone User (years) Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Length (miles) Tarffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure	\$POT INCIDE \$55.00 1 1 2 5.00 0.00 0.10 40 1000 Week Day 1 ers based on a	ENT-CAUSED REPAIR 24-hour clock)
Second period of lane closure Third period of lane closure Outbound First period of lane closure Second period of lane closure Third period of lane closure Second period of lane closure Third period of lane closure Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Adaintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (yphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure	SPOT INCIDE \$55.00 1 1 2 5.0 0.0 0 0.10 40 1000 Week Day 1 ers based on a	NT-CAUSED REPAII	Outbound First period of lane closure Second period of lane closure Third period of lane closure Third period of lane closure Third period of lane closure RS Activity 4 Agency Construction Cost (\$1000) User Work Zone Costs (\$1000) Work Zone Duration (days) No of Lanes Open in Each Direction During Work Activity Service Life (years) Activity Structural Life (years) Maintenance Frequency (years) Agency Maintenance Cost (\$1000) Work Zone Length (miles) Work Zone Speed Limit (mph) Work Zone Capacity (vphpl) Traffic Hourly Distribution Time of Day of Lane Closures (use whole numb Inbound First period of lane closure Second period of lane closure	\$POT INCIDE \$55.00 1 1 2 5.00 0.00 0.10 40 1000 Week Day 1 ers based on a	NT-CAUSED REPAIR: 24-hour clock) End
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Total Cost								
	Altern	ative 1	Alternative 2					
Total Cost	Agency Cost (\$1000)	User Cost (\$1000)	Agency Cost (\$1000)	User Cost (\$1000)				
Undiscounted Sum	\$220.00	\$5.19	\$220.00	\$5.19				
Present Value	\$142.11	\$3.14	\$142.11	\$3.14				
EUAC	\$11.34	\$0.25	\$11.34	\$0.25				
Lowest Present Value	e Agency Cost	Alternative 1						
Lowest Present Value	e User Cost	Alternative 1						