



Review Application

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Application Type:

Formal

Year:

2024

Application Round:

202408

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Formal Application F202408D01-03

Application Instructions

ODOT's Safety Analysis Guidelines

General Project Information

Application Round	District Application #	Project Sponsoring Agency	Project Name	PID
202408	3	ODOT	WYA-US 23 & CR 4 RCUT	0
Applicant Name	Contact	Contact Email		
Hailey Robey	Phone	hailey.robey@dot.ohio.gov		
	(41...			

Location Information

ODOT District	County	Route Number	Begin Logpoint	Begin Latitude	Begin Longitude	
	WYANDOT	US-23	17.523	40.91964	-83.35588	Google Map
Road Name	End Logpoint	End Latitude	End Longitude			
US 23	21.015	40.885924	-83.336577	Google Map		

Project Description

Summary of Crash Patterns

There were 33 crashes along this corridor from 2018-2022. Of the 33, 9 were passing, 8 were fixed object, 4 were angle, 4 were non-collision, 4 were other object, 3 were rear end, and 1 was overturning. The injury rate is 24%, including 3 serious injury and 5 other injury crashes. The recent closure of CR 44 (May 2022) is believed to be pushing crashes to CR 42. Before the closure (2018-May 2022), there were 3 property damage only crashes at CR 42. After the closure (May 2022-current), there has been 7 crashes resulting in 1 fatal, 2 serious injury, and 1 other injury crash.

Summary of Recommended Countermeasures

It is recommended to construct an RCUT at the intersection of US 23 with CR 4 and remove the medians at the intersections of US 23 with CR 42 and TR 103. The District also applied for and received abbreviated safety funding to upgrade the signage and pavement markings for both of the US 23/30 interchanges in Wyandot County.

Project Priority Information

It is a District priority to target all at-grade intersections to prevent the severity and occurrence of crashes at these high-speed locations. The District has altered access at many of the at-grade intersections along the HAN/WYA SR 15/US 23/30 corridor. Near the project area, just south of CR 42, the median at US 23 and CR 44 was removed. There is concern that the closure of this intersection will push the crashes further down the corridor. Thus, the importance of pursuing funding to close these at-grades. Kalmbach Feeds, a large manufacturer located off CR 4, is also a driving force for this project. They have several facilities in the surrounding area that generate high volumes of truck traffic. They are also planning an expansion along CR 4. High volumes of traffic crossing these at-grades raise a major safety concern as Wyandot County has had numerous fatalities at at-grades along this corridor.

Crash Data

Crash Totals (average per year)

	Fatal & Serious Injury ...	Visible Injury (B)	Non-Visible (C)	Property Damage Onl...	Total
Existing Conditions: Predicted Crash Frequency	0.4664	0.7995	0.5331	5.7678	7.57 ▲
Existing Conditions: Expected Crash Frequency	0.4350	0.9699	0.5538	4.2686	6.23
Potential for Safety Improvement	-0.0314	0.1704	0.0207	-1.4992	-1.34
Proposed Conditions: Expected Crash Frequency	0.3470	0.5557	0.3895	4.9109	6.20
Observed Crashes	0.6000	0.4000	0.6000	5.0000	6.60 ▼

Observed People Injury Totals

	Fatal Injury (K)	Serious Injury (A)	Visible Injury (B)	Non-Visible (C)	Total
Observed People Injury Totals	0.0000	0.6000	0.8000	1.0000	2.40 ▲▼

Application Scoring

Category	Scoring Value	Points Awarded	Points Possible
Ratio of Observed Fatal and Serious Injuries to Observed Total Crashes	0.09	18	30 ▲
Percentage of the Potential for Safety Improvement to Total Expected Crashes	0.00%	0	20
Relative Severity Index	\$39,344.64	16	20
Equivalent Property Damage Only Index	5.30	18	20
Location Equity Measure	12.00%	2	10 ▼
Total:		54	100

Key Safety Metrics

Functional Class	Major Route AADT	Maximum Posted Speed Limit	Active Transportation Need	Active Transportation Demand
Other Principal Arterial R... ▼	16,333	65 ▼	1 ▼	1 ▼
Bicycle Level of Traffic Stress		TOAST Score ⓘ		
NA		0.52		

Strategic Highway Safety Plan

Ohio Emphasis Area	Ohio Emphasis Area Subcategory	FHWA Emphasis Area
Serious Crash Types ▼	Intersection ▼	Improving the design and operation of highway intersections ▼
FHWA Improvement Category	FHWA Improvement Subcategory	
Access management ▼	Change in access - close or restrict existing access ▼	

Work Locations

NLFID	Begin Log...	End Logpo...	Location Termini ⓘ
SWY AUS00023**C	17.523	18.219	CR 44 to CR 42
SWY AUS00023**C	18.219	19.039	CR 42 to CR 4
SWY AUS00023**C	19.039	20.154	CR 4 to TR 103
SWY AUS00023**C	18.219	0	CR 42
SWY AUS00023**C	19.039	0	CR 4
SWY AUS00023**C	20.154	0	TR 103

Project Funding

Safety Study	Interchange Mod. Study	PE-Environmental	PE-Detail Design	Right of Way/Utilities	Construct
Fiscal Year 2019	Fiscal Year []	Fiscal Year []	Fiscal Year 2025	Fiscal Year []	Fiscal Year 2028
Phase Completed? <input type="checkbox"/>	Phase Completed? <input type="checkbox"/>	Phase Completed? <input type="checkbox"/>	Phase Completed? <input type="checkbox"/>	Phase Completed? <input type="checkbox"/>	Phase Completed? <input type="checkbox"/>
Completed by ⓘ ODOT D1	Completed by ⓘ []	Completed by ⓘ []	Completed by ⓘ []	Completed by ⓘ []	Completed by ⓘ []
Completion Date 7/2/2018	Completion Date month/day/year	Completion Date month/day/year	Completion Date month/day/year	Completion Date month/day/year	Completion Date month/day/year

Project Phase	Safety Study	Interchange M...	PE - Environme...	PE - Detailed D...	Right of Way/U...	Construction	Total
Previous Safety	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 ▲
New Safety	\$0.00	\$0.00	\$0.00	\$450,000.00	\$0.00	\$2,800,000.00	\$3,250,000.00
Sponsor Funding	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 ▼
	\$0.00	\$0.00	\$0.00	\$450,000.00	\$0.00	\$2,800,000.00	\$3,250,000.00

Additional Funding Detail

Additional Funding Detail

Safety Economic Analysis Results

Net Present Value of Project \$3,250,000.00	Net Present Value of Safety Benefits \$1,231,124.08	Net Benefit -\$2,018,875.92	Benefit / Total Project Cost Ratio 0.38	Benefit / Safety Funding Request Ratio 0.38
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Ethics

I have reviewed and will comply with the Ethics and Conflict of Interest laws including 23 CFR § 1.33, 23 CFR 636.116, and Ohio Revised Code sections 102.03, 2921.42 and 2921.43. Find form [here.](#)

DSRT

The DSRT has reviewed and approves this application
Comment

Comment

File Attachments

Please attach relevant project files such as the One Page Summary, CAM Tool, ECAT files, Safety Study, Crash Diagram, etc.

Select files... Drop

File	Uploaded By
cam-tool (2018-2022) WYA-US 23 & CR 103_4_42.xlsm	DOT\hrobey
ECAT Tool Existing Final.xlsm	DOT\hrobey
ECAT Tool Proposed.xlsm	DOT\hrobey

[Download All](#)

Review Comments

Recommendation:

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Review Comment

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