

## Highway Safety Improvement Program

### Formal Funding Application

#### General Project Information

Project Sponsoring Agency	ODOT D8
Project Name	CLI US 22 @ SR-380/Creek Rd
PID	TBD
Applicant Name	Bree Hetzel
Contact Phone	513-933-6624
Contact Email	<a href="mailto:brianne.hetzel@dot.ohio.gov">brianne.hetzel@dot.ohio.gov</a>

#### Location Information

ODOT District	8	County	CLI
Route Number	US-22R	Road Name	US-22
Begin Logpoint	2.570	End Logpoint	2.670
Begin Latitude	39.436	Begin Longitude	-83.946
End Latitude	39.436	End Longitude	-83.944

#### Project Description

##### Summary of Crash Patterns

Crash data from 2022-2024 at the intersection of CLI US-22 and SR-380/Creek Rd shows 20 total crashes with an average of 6.67 crashes per year and a 60% injury rate. There were 15 angle crashes, of which 1 was serious injury, 7 minor injury, 1 injury possible and 6 PDO. There were also 2 rear end crashes (1 minor injury, 1 PDO), 1 PDO sideswipe passing crash, 1 minor injury fixed object crash and 1 minor injury head on crash. The majority of the angle crashes involved SB SR-380 vehicles pulling out in front of NB/EB US-22 vehicles (7 crashes with 4 injury). There were also 5 angle crashes involving NB Creek Rd vehicles pulling out in front of SB/WB US-22 vehicles, with 2 resulting in injury.

##### Summary of Recommended Countermeasures

Based on the history of angle crashes, a single lane modern roundabout is being recommended.

##### Project Priority Information

This intersection is ranked #123 on the 2024 HSIP Rural intersection ranking list. This intersection does not appear on the current SIP map.

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Crash Data					
Crash Totals (average per year)					
	Fatal & Serious Injury (KA)	Visible Injury (B)	Non-Visible (C)	Property Damage Only (O)	Total
Existing Conditions: Predicted Crash Frequency	0.2930	0.7104	0.4731	2.5422	4.02
Existing Conditions: Expected Crash Frequency	0.4242	1.0278	0.6847	2.5896	4.73
Potential for Safety Improvement	0.1312	0.3174	0.2116	0.0474	0.71
Proposed Conditions: Expected Crash Frequency	0.0050	0.0415	0.0514	1.0942	1.19
Observed Crashes	0.3333	3.3333	0.3333	2.6667	6.67
Observed People Injury Totals					
	Fatal Injury (K)	Serious Injury (A)	Visible Injury (B)	Non-Visible (C)	Total
Observed People Injury Totals	0.0000	0.6667	4.6667	1.0000	6.33

Application Scoring			
Category	Scoring Value	Points Awarded	Points Possible
Ratio of Observed Fatal and Serious Injuries to Observed Total Crashes	0.10	20	30
Percentage of the Potential for Safety Improvement to Total Expected Crashes	15.01%	12	20
Relative Severity Index	53,781.94	20	20
Equivalent Property Damage Only Index	6.71	20	20
Location Equity Measure	10.34%	2	10
<b>Total</b>		<b>74</b>	<b>100</b>

Safety Key Metrics			
Functional Class	5 - Major Collector Roadway	Active Transportation Need	1
Major Route AADT	5,030	Active Transportation Demand	1
Maximum Posted Speed Limit	55	Bicycle Level of traffic stress (if available)	
		TOAST Score (if available)	0.88

Strategic Highway Safety Plan	
Ohio Emphasis Area	Serious Crash Types
Ohio Emphasis Area Subcategory	Intersection
FHWA Emphasis Area	Improving the design and operation of highway intersections
FHWA Improvement Category	Intersection traffic control
FHWA Improvement Subcategory	Modify control - two-way stop to roundabout

Work Locations					
NLFID	Begin Logpoint	End Logpoint	Begin Latitude	Begin Longitude	Location Termini (i.e. from Street 1 to Street 2)
SCLIUS00022**C	2.570	2.670	39.436	-83.9460	US-22 @ SR-380/Creek Rd

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Project Funding							
Project Phase	Safety Study	Interchange Mod. Study	PE - Environmental	PE - Detailed Design	Right of Way /Utilities	Construction	Total
Fiscal Year			2026	2028	2028	2029	
Project Phase Completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	
Previous Safety							\$0.00
New Safety			\$400,000.00	\$125,000.00	\$200,000.00	\$2,750,000.00	\$3,475,000.00
Sponsor Funding							\$0.00
<b>Total</b>	\$0.00	\$0.00	\$400,000.00	\$125,000.00	\$200,000.00	\$2,750,000.00	\$3,475,000.00

**Additional Funding Detail**  
 District requesting funding to be combined with the WAR-22 RAB application to be designed and constructed together on the January 2026 programmatic

Safety Economic Analysis Results			
Net Present Value of Project	\$3,475,000.00	Net Benefit	-\$288,210.87
Net Present Value of Safety Benefits	\$3,186,789.13	Benefit / Total Project Cost Ratio	0.92
		Benefit / Safety Funding Request Ratio	0.92

Project Development		
Project Phase	Completed by	Completion Date
Safety Study	ODOT D8	3/12/2025

Applicant Information		
Name	Title	Phone Number
Brianne Hetzel	D8 Traffic Studies Engineer	513-933-6624
Signature		Date
		March 21, 2025

Version: 20230523

The following information should be included in submission of the safety project application:

1. An electronic copy of the Safety Engineering Study
2. All Excel Analysis Files  
 May include Crash Analysis Module (CAM) Tool, Economic Crash Analysis Tool (ECAT), HSIP Application and Scoring Tool.
3. Benefit-Cost Results (Economic Analysis)
4. DSRT approval signatures