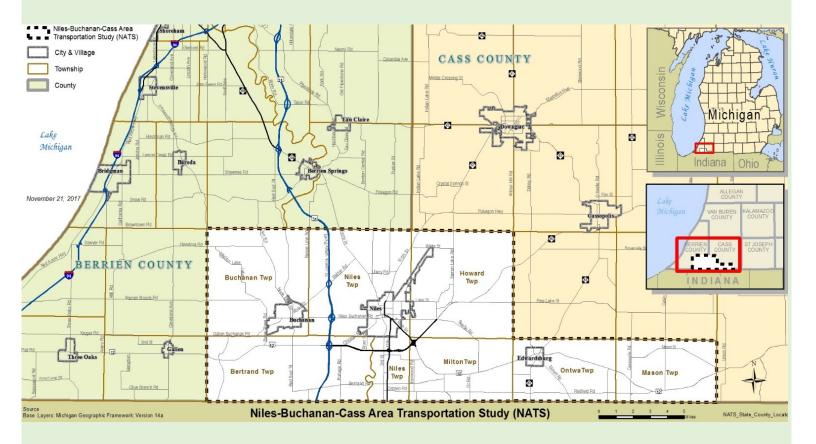
CASS COUNTY ROAD COMMISSION 2024 – 2026 APPLICATIONS

NILES-BUCHANAN-CASS AREA TRANSPORTATION STUDY (NATS) SURFACE TRANSPORTATION BLOCK GRANT FUNDING (STBG)

A federal transportation program administered by the Southwest Michigan Planning Commission in partnership with the NATS member communities and the Michigan Department of Transportation



Project Name:	Cassopolis Rd.	Proposed Year:	2024
Agency:	Cass County Road Commission	Total Points:	12

Criteria	Points	
System Preservation	8 points max	
Most recent PASER rating		
2-3 and Previously applied for	5	
2-3 and not previously applied for	3	
4	3	3
5-6	1	
MDOT Geometric Guidelines		
4 R	3	
3R	2	2
PM	1	
Safety	5 points max	
a. Expected Crash Reduction - Based on MDOT approved Crash Reduction Factors		
Safety counter Measures	Up to 3	0
Addressing High Crash Locations.		
Number of crashes is 20% higher than MPO median	2	
Number of crashes are within 20% of MPO median	1	
Number of crashes is lower than 20% of the MPO median	0	0
Non-motorized Transportation / Complete Streets	5 points max	
Pedestrian and Cycling Facilities		0
Add facilities where none currently exist	3	
Improves upon existing facilities	2	
Currently has facilities but there are no improvements	1	
	0	0
Non-Motorized Connectivity	0	0

Criteria	Points	
Regional Connectivity	9 points max	
Average daily traffic (ADT) based on most recent traffic count		
ADT is 10,000 or more	5	
ADT is 5,000 – 9,999	4	
ADT is 2,000 – 4,999	3	3
ADT is less than 2,000	0	
Functional Classification of the Road		
Principal Arterial	3	
Minor Arterial	2	2
Major Collector	1	
Minor Collector	0	
Strategic Investment/ Project Planning	11 points max	
Identified In an Asset Management Plan	1	
There is an asset management plan covering other utilities along the limits of the project	1	
Agency staff have asset management training	1	1
Project identified in other planning document	1	
Project connects to a road with a PASER of 7 or higher	1	1
Additional Local Match		
Agency will proved 40%+ Local Match	2	
Agency will proved 24-40% Local Match	1	
Note: An 18.15% local match is the minimum required		
Project Readiness (no points)	Yes	Y
Coordination with sewer or other infrastructure (no points)	Yes	N

Total Score (out of 33)	12	
Total Score (out of 33)	12	

Click "Enable Editing" to begin filling out this form. You may save this form at any time. If you need assistance, please contact Brandon Kovnat, SWMPC Associate Planner. Email kovnatb@swmpc.org or call (269) 925-1137 x 1524

Section 1. Applicant Information						
Agency Name Cass County Road Commission						
Contact Name	Joe Bellina		Title	Head Engineer		
Phone Number	269-445-861	1	Email	jbellina@casscoroad.com		
Engineer/Consultant (If applicable) Nick Mannon						
Phone Number	269-445-8611		Email	nmannon@casscoroad.com		

Section 2. Project Information					
Project Name/Road Name	Cassopolis Road				
Project Limits (e.g. Napier Ave. to Britain Ave.)	Old 205 to US12				
Project Length (nearest hundredth of a mile)	0.80 Proposed Year of Funding 2024				
Primary Work Type	□ Reconstruct □ Restore & Rehabilitate □ Roadside Facility ⊠ Resurface □ Traffic Operations/Safety □ Other				
Project Description (Please provide major work items including sidewalks, utility work, ADA upgrades etc.)	2.5" Cold Milling HMA Surface replace with 1.5" HMA,36A base course, 1" HMA,36A top course, Shoulder Class II and Pavement Marking				
Was this project applied for during the 2020-2023 Call for Projects but not selected	Yes No				
Was this project awarded funding for the 2020-2023 TIP, but was either canceled or failed to be obligated	Yes No If yes, please explain:				
If you are submitting multiple applications, please rank your applications by priority.		Project Rank: 1			

Section 3. Project Funding	
Estimated STBG Participating Cost of the Project	\$ 180800.86
Minimum local match required - 18.15% of the Participating cost	\$ 32815.36
Can your agency supply additional match beyond the minimum required 18.15%. If so how much?	□ Yes ⊠ No Amount \$
Are there elements of the project that could be eligible for other federal fund sources such as CMAQ, TAP, Bridge etc.	Source: Amount: \$ Explanation:
Will the project have nonparticipating work, such as water, or sewer work?	amount: \$ Explain:
Does your agency have the financial capacity to Advance Construct (AC) all or part of this project if necessary? If yes, what is the maximum dollar amount your agency is willing to Advance Construct (AC)?	□ Yes ⊠ No Maximum Dollar Amount you can AC? \$

Section 4. Regional Connectivity	
What is the most current daily traffic count for the limits of this project?	AADT: 4453 Year of count: 2010 Source: CCRC
National Functional Classification (NFC) for this roadway	Minor Arterial

Section 5. System Preservation	
2021 PASER rating (Available 8-10-21)	4,3
Current state of drainage	 Adequate Minor and tolerable drainage problems Occasional drainage problems with some maintenance required Inadequate, frequent flooding, excessive maintenance required
Expected increase in Remaining Service life (RSL)	12 Use MDOT's <u>Guidelines for Geometrics on Local Projects</u>
What MDOT guidelines does the project conform to?	 Reconstruction (4R) Resurfacing, restoration, and Rehabilitation (3R) Preventative Maintenance (PM)

Section 6. Safety Please list the number and severity of crashes within the proposed project limits over the last 5 yrs. (2016-2020) (see Michigan Crash Facts for crash data) **Total Crashes** Pedestrian & Bicycle 16 0 Crashes Fatalities Serious Injuries 0 0 Using the attached Crash Reduction Factors sheet, please check each safety counter measure that will be included in the project Describe any other safety improvements this project will provide

Section 7. Pedestrian and Bicycle Improvements				
Please explain what pedestrian and/or bicycle facilities if any currently exist	None			
Please explain any additional pedestrian and/or bicycle improvements included in the project.	None			
Does this project connect to an existing pedestrian/bicycle facility or one that is planned to be completed before 2027	Yes No If yes, please provide a map of the connecting facilities			

Section 8. Strategic Planning & Investment	
Is the project identified in an approved Asset Management Plan, or Capital Improvement Plan	Yes 🖾 No If yes, please attach the plan.
Is the project identified in another approved planning document such as a master plan or parks and recreation plan	Yes No If yes, please cite the plan and page number:
Is there an approved asset management plan covering the utilities along the project's limits	Yes No List utilities covered by the asset management plan:
Will this project coordinate with other infrastructure projects (i.e. utility, water, sewer, etc?)	Yes X No If yes, please indicate the project type and construction year:
How many water main breaks have you had at this location in the past five years?	None
Is there a completed utilities assessment that includes televising the sewers in the project area?	Yes 🛛 No
Do you have a maintenance strategy or Asset Management Plan covering non-motorized facilities?	Yes 🔀 No
Has staff received Asset Management training through the Transportation Asset Management Council <u>https://www.michigan.gov/tamc/0,7308,7-356-82158-</u> ,00.html	⊠Yes □No
Has your agency completed the Asset Management Readiness Scale from the Michigan Infrastructure Council (MIC)? <u>https://fcm.ca/en/resources/mamp/tool-asset-</u> <u>management-readiness-scale</u>	Yes No https://fcm.ca/en/resources/mamp/tool-asset- management-readiness-scale
Does the project cross-jurisdictional boundaries?	Yes 🔀 No
If yes, will it be bid as a single project?	☐ Yes ☐ No 🛛 NA
Will this project require environmental mitigation, purchase of Right of Way (ROW), or railroad permits?	Yes No Not Sure If yes, which items are required:
If any of the above items are required please explain how they will be addressed	
Does this project perform Resurfacing, Reconstruction, or Preventative Maintenance on a segment adjacent to a segment that currently has a PASER of 7 or higher	Yes No List the adjacent segments that qualify: US12- Starbrick

Section 9. Existing and Proposed Roadway Design							
	Existing				Proposed		
Include the	Through	Center		On Street	Through	Center	On Street
number of	Traffic Lanes	Turn Lar	ne	Parking	Traffic Lanes	Turn Lane	Parking
vehicle lanes	2	0		🗆 Yes 🛛 No	2	0	🗆 Yes 🛛 No
Shoulder	🔀 Paved		Width (ft.)		Paved		Width (ft.)
Surface	🗌 Unpaved		3		🗌 Unpaved		3
Sidewalk/ path	Placement		Wi	dth (ft.)	Placement		Width (ft.)
information	🗌 One Side				🔄 One Side		
	Both Sides	5			Both Sides	i	
	🗌 Intermittent				Intermittent		
	🔀 None				None		
On road bicycle	Bike Lane		Other (specify)		Bike Lane Other (specify)		
facilities	Sharrows				Sharrows		
	Wide Shoulders			one	Wide Shoulders 🛛 None		
Utilities, Sewer	Utilities Up	-			Replace Utilities		
and Water	Sewer and	water wo	vork needed		Relocate Utilities		
					Sewer and	Water Line \	Nork
Please describe ar		ts being					
made as part of this project to							
crosswalks, signage or signals, or							
streetscape elements not discussed in							
project description				<u> </u>			
Does this project enhance connectivity				Yes 🖄 No			
of pedestrian or bicyclists to fixed route			lf y	es, how?			
or Dial-A-Ride trar	or Dial-A-Ride transit?						

Section 10. Estimated Project Schedule	
Activity	Estimated Date
Resolution of Support for \Box Local Match Submitted to SWMPC	September 2023
Project Application Submitted to MOT	September 2023
Grade Inspection Package Submitted to MDOT	October 2023
Grade Inspection Meeting Scheduled	November 2023
Final Plan and Estimate to MDOT	December 2023
Right of Way (ROW) certified*	NA
Rail Road Permits*	NA
Environmental Mitigation*	NA
Project Obligated	January 2024
Project Letting	March 2024
Construction Start	May 2024
Project Completion	09/30/2024

*Enter NA if these items will not be required.

NATS 2024-2026 Surface Transportation Block Grant Project Application

Proposed Improvement	% Reduction	Associated Crash Types				
SEGMENT CRASH REDUCTION FACTORS						
Geometric Safety Enhancements						
	80%	Rear-End Left-Turn				
	50%	Head-On Left-Turn				
Center Left-Turn Lane - Construct	20%	Head-On, Angle, Sideswipe*				
	15%	Non Left-Turn Rear-End, Other*				
	65%	Rear-End Right-Turn				
	30%	Angle				
Right-Turn Lane - Construct	15%	Rear-End				
	10%	Other*				
Horizontal Curve Flattening	30%	Lane Departure***				
Shoulders - Widen to Standard Width (add 1' each side)	5%	Lane Departure***				
Shoulders - Widen to Standard Width (add 2' each side)	10%	Lane Departure***				
Shoulders - Widen to Standard Width (add 3' each side)	15%	Lane Departure***				
Shoulders - Widen to Standard Width (add 4' each side)	20%	Lane Departure***				
Shoulders - Widen to Standard Width (add 5' each side)	25%	Lane Departure***				
Shoulders - Widen to Standard Width (add 6' each side)	30%	Lane Departure***				
Shoulders - Widen to Standard Width (add 7' each side)	35%	Lane Departure***				
Vertical Curve Modification	20%	All Applicable Crash Types +++				
General S	egment Enhanc	ements				
Access Management - Improve	15%	Drive-way Related Applicable Crashes				
	44%	K and A injury Applicable Crashes				
Centerline Rumble Strips - Install	46%	Single Vehicle Run off Road Left Crashes				
	43%	Sideswipe Same Crashes				
	55%	Sideswipe Opposite Crashes				
High Friction Surface Treatment - Install	35%	Wet Crashes				
ngi riction surface meatment - mstun	20%	All Other Applicable Crashes				
Recessed Durable Pavement Markings	5%	All Applicable Crashes				
Pedestrian Refuge - Install	50%	Pedestrian Crashes (Review NCHRP Report 841)				
Road Diet (4-3 Lane Conversion) - Install	50%	Suburban - All Applicable Crashes				
Shoulder Rumble Strips	20%	Run-Off the Road Right Crashes				
Signing/Delineation on Horizontal Curves (Including Recessed Durable Pavement Markings) - Install	20%	Lane Departure***				
Safety Edge Improvement	13%	All non-intersection crashes (CMF Clearing House ID 8658)				

Roadside Enhancements					
Bicycle Lanes - Install per standards	50%	Bicycle Crashes			
Shared Use Path - Install	33%	Bicycle and Pedestrian Related Crashes			
Fixed Objects From Clear zone (Trees, Culverts, Etc.) - Removal	75%	Fixed-Object Applicable Crashes			
Guardrail - Install	55%	Lane Departure ***Fatalities and "A" Injury Applicable Crashes			
Sidewalk for Pedestrians - Construct	85%	Pedestrian Crashes			
Slope Flattening	15%	Fixed-Object, Overturn Applicable Crashes			
Living Snow Fence	20%	Crashes due to wintry surface conditions			
Lighting - install on segment	20%	Dark Unlighted Crashes			
INTERSECTI	ON CRASH REDU	CTION FACTORS			
 Pedestri	an / Bicycle Enha	ancements			
Bump Out / Curb Extension - Remove Parking / Install	30%	All Crashes			
Bicycle Lanes - Install per standards	25%	Bicycle Crashes			
Sidewalk for Pedestrians - Construct	85%	Pedestrian Crashes			
		Pedestrian Fatal - Dark Unlighted Crashes			
Intersection Lighting - install	40%	Pedestrian A-Injury - Dark Unlighted Crashes			
	30%	All Applicable Dark Unlighted Crashes			
Rectangular Rapid Flashing Beacons		Pedestrian Crashes			
Ped. Countdown Signals - Install new Pedestrian signal		Pedestrian Crashes			
Ped. Countdown Signals - Upgrade from existing Pedestrian signal	25%	Pedestrian Crashes			
Signal Timi	ng / Hardware Ei				
	3%	Rear-End			
Multiple Low-Cost Improvements	12%	Right-Angle			
	3%	Nighttime			
Install Reflectorized Backplates	15%	All Applicable Crashes			
Add All-Red Clearance Interval - Add per ITE	20%	Head-On Left-Turn, Angle			
Yellow-Change Interval - Increase	10%	All Crash Types			
	65%	Angle			
Box Span Signal - Upgrade from Stop Control	-25%	Rear-End (Increases Crashes)			
	20%	All Other Non Rear-End Crashes			
Box Span Signal - Upgrade from Diagonal Span	10%	All Applicable Crashes+			
Protected Left-Turn Signal Phase - Add	30%	Left-Turn			
Signal Head Size - Increase to 12 "	10%	All Applicable Crashes +			
Signal Optimization & Timing Updates	10%	All Applicable Crashes +			
Removing Night Flash from Signal Timing	50%	Nighttime Flash mode Related Crashes			

	Intersection Geometric Enhancements					
			Rear-End Left-Turn			
		50%	Head-On Left-Turn			
	Center Left-Turn Lane - Construct	20%	Head-On, Angle, Other			
		15%	Non Left-Turn Rear-End			
		30%	Angle			
	Intersection Improvements (Realignment, Sight-Distance Improvements, Radii Improvements, Etc.)	15%	Rear-End			
	Raul improvements, Etc.)	10%	Head-On, Sideswipe, Pedestrian, Bicycle, Left-Turn Related			
	Offset Left-Turn Lane - Construct	65%	Angle-Turn, Head-On Left-Turn			
	Offset Left-Turn Lane - Construct	20%	Rear-End Left-Turn			
	Offset Right-Turn Lane - Construct	65%	Angle-Turn			
		50%	Other Applicable Crashes			
		20%	Rear-End Right Turn			
	Right-Turn Lane - Construct	65%	Rear-End Right-Turn			
		20%	Applicable Rear-End Crashes, Sideswipe Same Direction			
			Fatal and A-Injury Reduction			
	Roundabout	57%	Minor Crash Reduction			
	Lighting	_	See MDOT Interchange Warranted Lighting Guidance and overall			
			MDOT Lighting Guidance			
	General Intersection Enhan		· · · · · · · · · · · · · · · · · · ·			
	All-Way Stop Control - New Installation	60%	All Applicable Crashes			
	Ground Mounted Flashing Beacons (Red)- Install **	30%	All Crashes On Install Approach			
	Ground Mounted Flashing Beacons(Amber) - Install **	20%	All Crashes On Install Approach			
	Signing - Improve/Upgrade	30%	Angle, Rear-End Crashes			
	Pavement Markings - Improve/Upgrade	30%	Angle, Rear-End Crashes			
	Reflective Sheeting on Sign Posts (Iollipops)	15%	All Applicable Crashes			

Project Name:	Elkhart	Proposed Year:	2025
Agency:	Cass County Road Commission	Total Points:	11

Criteria	Points	
System Preservation	8 points max	
Most recent PASER rating		
2-3 and Previously applied for	5	
2-3 and not previously applied for	3	
4	3	3
5-6	1	
MDOT Geometric Guidelines		
4 R	3	
3R	2	2
PM	1	
Safety	5 points max	
a. Expected Crash Reduction - Based on MDOT approved Crash Reduction Factors		
Safety counter Measures	Up to 3	0
Addressing High Crash Locations.		
Number of crashes is 20% higher than MPO median	2	
Number of crashes are within 20% of MPO median	1	
Number of crashes is lower than 20% of the MPO median	0	0
Non-motorized Transportation / Complete Streets	5 points max	
Pedestrian and Cycling Facilities		0
Add facilities where none currently exist	3	
Improves upon existing facilities	2	
Currently has facilities but there are no improvements	1	
Non-Motorized Connectivity	0	0

Criteria	Points	
Regional Connectivity	9 points max	
Average daily traffic (ADT) based on most recent traffic count		
ADT is 10,000 or more	5	
ADT is 5,000 – 9,999	4	
ADT is 2,000 – 4,999	3	3
ADT is less than 2,000	0	
Functional Classification of the Road		
Principal Arterial	3	
Minor Arterial	2	
Major Collector	1	1
Minor Collector	0	
Strategic Investment/ Project Planning	11 points max	
Identified In an Asset Management Plan	1	
There is an asset management plan covering other utilities along the limits of the project	1	
Agency staff have asset management training	1	1
Project identified in other planning document	1	
Project connects to a road with a PASER of 7 or higher	1	1
Additional Local Match		
Agency will proved 40%+ Local Match	2	
Agency will proved 24-40% Local Match	1	
Note: An 18.15% local match is the minimum required		
Project Readiness (no points)	Yes	Y
Coordination with sewer or other infrastructure (no points)	Yes	N

Total Score (out of 33)	11	
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Section 1. Applicant Information				
Agency Name	Cass County Road Commission			
Contact Name	Joe Bellina	Joe Bellina		Head Engineer
Phone Number	269-445-8611		Email	jbellina@casscoroad.com
Engineer/Consultant (If applicable)		Nick Mannon		
Phone Number	269-445-8611		Email	nmannon@casscoroad.com

Section 2. Project Information	n		
Project Name/Road Name	Elkhart Road		
Project Limits (e.g. Napier Ave. to Britain Ave.)	May Street to Village of Edwardsburg Limits		
Project Length (nearest hundredth of a mile)	0.82 Proposed Year of Funding 2025		
Primary Work Type	□ Reconstruct □ Restore & Rehabilitate □ Roadside Facility ⊠ Resurface □ Traffic Operations/Safety □ Other		
Project Description (Please provide major work items including sidewalks, utility work, ADA upgrades etc.)	1.5" HMA,36A top course overlay, Shoulder Class II and Pavement Marking		
Was this project applied for during the 2020-2023 Call for Projects but not selected	☐Yes ⊠No		
Was this project awarded funding for the 2020-2023 TIP, but was either canceled or failed to be obligated	Yes No If yes,	please explain:	
If you are submitting multiple app rank your applications by priority.	•	Project Rank: 2	

Section 3. Project Funding	
Estimated STBG Participating Cost of the Project	\$ 123202.39
Minimum local match required - 18.15% of the Participating cost	\$ 22361.23
Can your agency supply additional match beyond the minimum required 18.15%. If so how much?	□ Yes ⊠ No Amount \$
Are there elements of the project that could be eligible for other federal fund sources such as CMAQ, TAP, Bridge etc.	Source: Amount: \$ Explanation:
Will the project have nonparticipating work, such as water, or sewer work?	amount: \$ Explain:
Does your agency have the financial capacity to Advance Construct (AC) all or part of this project if necessary? If yes, what is the maximum dollar amount your agency is willing to Advance Construct (AC)?	□ Yes ⊠ No Maximum Dollar Amount you can AC? \$

Section 4. Regional Connectivity	
What is the most current daily traffic count for the limits of this project?	AADT: 3974 Year of count: 2010 Source: CCRC
National Functional Classification (NFC) for this roadway	Major Collector

Section 5. System Preservation	
2021 PASER rating (Available 8-10-21)	4
Current state of drainage	 Adequate Minor and tolerable drainage problems Occasional drainage problems with some maintenance required Inadequate, frequent flooding, excessive maintenance required
Expected increase in Remaining Service life (RSL)	7 Use MDOT's <u>Guidelines for Geometrics on Local Projects</u>
What MDOT guidelines does the project conform to?	 Reconstruction (4R) Resurfacing, restoration, and Rehabilitation (3R) Preventative Maintenance (PM)

Section 6. Safety Please list the number and severity of crashes within the proposed project limits over the last 5 yrs. (2016-2020) (see Michigan Crash Facts for crash data) **Total Crashes** Pedestrian & Bicycle 3 0 Crashes Fatalities Serious Injuries 0 0 Using the attached Crash Reduction Factors sheet, please check each safety counter measure that will be included in the project Describe any other safety improvements this project will provide

Section 7. Pedestrian and Bicycle Improvements				
Please explain what pedestrian and/or bicycle facilities if any currently exist	None			
Please explain any additional pedestrian and/or bicycle improvements included in the project.				
Does this project connect to an existing pedestrian/bicycle facility or one that is planned to be completed before 2027	Yes No If yes, please provide a map of the connecting facilities			

Section 8. Strategic Planning & Investment	
Is the project identified in an approved Asset Management Plan, or Capital Improvement Plan	Yes XNO If yes, please attach the plan.
Is the project identified in another approved planning document such as a master plan or parks and recreation plan	Yes No If yes, please cite the plan and page number:
Is there an approved asset management plan covering the utilities along the project's limits	Yes No List utilities covered by the asset management plan:
Will this project coordinate with other infrastructure projects (i.e. utility, water, sewer, etc?)	Yes No If yes, please indicate the project type and construction year:
How many water main breaks have you had at this location in the past five years?	0
Is there a completed utilities assessment that includes televising the sewers in the project area?	Yes 🔀 No
Do you have a maintenance strategy or Asset Management Plan covering non-motorized facilities?	Yes 🔀 No
Has staff received Asset Management training through the Transportation Asset Management Council <u>https://www.michigan.gov/tamc/0,7308,7-356-82158-</u> ,00.html	⊠Yes □No
Has your agency completed the Asset Management Readiness Scale from the Michigan Infrastructure Council (MIC)? <u>https://fcm.ca/en/resources/mamp/tool-asset-</u> <u>management-readiness-scale</u>	Yes No https://fcm.ca/en/resources/mamp/tool-asset- management-readiness-scale
Does the project cross-jurisdictional boundaries?	Yes 🛛 No
If yes, will it be bid as a single project?	☐ Yes ☐ No 🛛 NA
Will this project require environmental mitigation, purchase of Right of Way (ROW), or railroad permits?	Yes No Not Sure If yes, which items are required:
If any of the above items are required please explain how they will be addressed	
Does this project perform Resurfacing, Reconstruction, or Preventative Maintenance on a segment adjacent to a segment that currently has a PASER of 7 or higher	Yes No List the adjacent segments that qualify: M62 to Village Limit

Section 9. Existing and Proposed Roadway Design							
		Existi	ing		Proposed		
Include the	Through	Center		On Street	Through	Center	On Street
number of	Traffic Lanes	Turn Lar	าย	Parking	Traffic Lanes	Turn Lane	Parking
vehicle lanes	2	0		🗆 Yes 🛛 No	2	0	🗆 Yes 🛛 No
Shoulder	🛛 Paved		Wi	dth (ft.)	🛛 Paved		Width (ft.)
Surface	Unpaved		3		Unpaved		3
Sidewalk/ path	Placement		Wi	dth (ft.)	Placement		Width (ft.)
information	🗌 One Side				🗌 One Side		
	🗌 🗌 Both Sides				Both Sides	;	
	🗌 🗌 Intermitte	nt			Intermitte	nt	
	🛛 None				🔀 None		
On road bicycle	🗌 🗌 Bike Lane	C	Othe	r (specify)	Bike Lane	🗌 Othe	er (specify)
facilities	Sharrows				Sharrows		
	📃 Wide Shou	ılders ▷	🛛 No	one	📃 Wide Shou	ılders 🛛 N	one
Utilities, Sewer	Utilities Up	grades Ne	eede	ed	Replace U	Itilities	
and Water	Sewer and water w			eeded	Relocate U	tilities	
					Sewer and	Water Line \	Vork
Please describe any improvements being							
made as part of this project to							
crosswalks, signage or signals, or							
streetscape elements not discussed in							
project description	n						
Does this project e	enhance conneo	tivity		Yes 🛛 No			
of pedestrian or bicyclists to fixed route			lf y	es, how?			
or Dial-A-Ride transit?							

Section 10. Estimated Project Schedule	
Activity	Estimated Date
Resolution of Support for \Box Local Match Submitted to SWMPC	September 2024
Project Application Submitted to MOT	September 2024
Grade Inspection Package Submitted to MDOT	October 2024
Grade Inspection Meeting Scheduled	November 2024
Final Plan and Estimate to MDOT	December 2024
Right of Way (ROW) certified*	NA
Rail Road Permits*	NA
Environmental Mitigation*	NA
Project Obligated	January 2025
Project Letting	March 2025
Construction Start	May 2025
Project Completion	09/30/2025

*Enter NA if these items will not be required.

NATS 2024-2026 Surface Transportation Block Grant Project Application

	Proposed Improvement % Reduction Associated Crash Types							
	ON FACTORS							
	Geometric Safety Enhancements							
		80%	Rear-End Left-Turn					
		50%	Head-On Left-Turn					
	Center Left-Turn Lane - Construct	20%	Head-On, Angle, Sideswipe*					
		15%	Non Left-Turn Rear-End, Other*					
		65%	Rear-End Right-Turn					
		30%	Angle					
	Right-Turn Lane - Construct	15%	Rear-End					
		10%	Other*					
	Horizontal Curve Flattening	30%	Lane Departure***					
	Shoulders - Widen to Standard Width (add 1' each side)	5%	Lane Departure***					
	Shoulders - Widen to Standard Width (add 2' each side)	10%	Lane Departure***					
	Shoulders - Widen to Standard Width (add 3' each side)	15%	Lane Departure***					
	Shoulders - Widen to Standard Width (add 4' each side)	20%	Lane Departure***					
	Shoulders - Widen to Standard Width (add 5' each side)	25%	Lane Departure***					
	Shoulders - Widen to Standard Width (add 6' each side)	30%	Lane Departure***					
	Shoulders - Widen to Standard Width (add 7' each side)	35%	Lane Departure***					
	Vertical Curve Modification	20%	All Applicable Crash Types +++					
	General S	egment Enhanc	ements					
	Access Management - Improve	15%	Drive-way Related Applicable Crashes					
		44%	K and A injury Applicable Crashes					
	Centerline Rumble Strips - Install	46%	Single Vehicle Run off Road Left Crashes					
		43%	Sideswipe Same Crashes					
		55%	Sideswipe Opposite Crashes					
	High Friction Surface Treatment - Install	35%	Wet Crashes					
	ngi riction surface meatment - mstun	20%	All Other Applicable Crashes					
	Recessed Durable Pavement Markings	5%	All Applicable Crashes					
	Pedestrian Refuge - Install	50%	Pedestrian Crashes (Review NCHRP Report 841)					
	Road Diet (4-3 Lane Conversion) - Install	50%	Suburban - All Applicable Crashes					
	Shoulder Rumble Strips	20%	Run-Off the Road Right Crashes					
	Signing/Delineation on Horizontal Curves (Including Recessed Durable Pavement Markings) - Install	20%	Lane Departure***					
	Safety Edge Improvement	13%	All non-intersection crashes (CMF Clearing House ID 8658)					

Roadside Enhancements						
Bicycle Lanes - Install per standards	50%	Bicycle Crashes				
Shared Use Path - Install	33%	Bicycle and Pedestrian Related Crashes				
Fixed Objects From Clear zone (Trees, Culverts, Etc.) - Removal	75%	Fixed-Object Applicable Crashes				
Guardrail - Install	55%	Lane Departure ***Fatalities and "A" Injury Applicable Crashes				
Sidewalk for Pedestrians - Construct	85%	Pedestrian Crashes				
Slope Flattening	15%	Fixed-Object, Overturn Applicable Crashes				
Living Snow Fence	20%	Crashes due to wintry surface conditions				
Lighting - install on segment	20%	Dark Unlighted Crashes				
INTERSECTI	ON CRASH REDU	CTION FACTORS				
 Pedestri	an / Bicycle Enha	ancements				
Bump Out / Curb Extension - Remove Parking / Install	30%	All Crashes				
Bicycle Lanes - Install per standards	25%	Bicycle Crashes				
Sidewalk for Pedestrians - Construct	85%	Pedestrian Crashes				
	75%	Pedestrian Fatal - Dark Unlighted Crashes				
Intersection Lighting - install	40%	Pedestrian A-Injury - Dark Unlighted Crashes				
	30%	All Applicable Dark Unlighted Crashes				
Rectangular Rapid Flashing Beacons	47%	Pedestrian Crashes				
Ped. Countdown Signals - Install new Pedestrian signal	30%	Pedestrian Crashes				
Ped. Countdown Signals - Upgrade from existing Pedestrian signal	25%	Pedestrian Crashes				
Signal Timi	ng / Hardware Ei					
	3%	Rear-End				
Multiple Low-Cost Improvements	12%	Right-Angle				
	3%	Nighttime				
Install Reflectorized Backplates	15%	All Applicable Crashes				
Add All-Red Clearance Interval - Add per ITE	20%	Head-On Left-Turn, Angle				
Yellow-Change Interval - Increase	10%	All Crash Types				
	65%	Angle				
Box Span Signal - Upgrade from Stop Control	-25%	Rear-End (Increases Crashes)				
	20%	All Other Non Rear-End Crashes				
Box Span Signal - Upgrade from Diagonal Span	10%	All Applicable Crashes+				
Protected Left-Turn Signal Phase - Add	30%	Left-Turn				
Signal Head Size - Increase to 12 "	10%	All Applicable Crashes +				
Signal Optimization & Timing Updates	10%	All Applicable Crashes +				
Removing Night Flash from Signal Timing	50%	Nighttime Flash mode Related Crashes				

	Intersection Geometric Enhancements						
	Center Left-Turn Lane - Construct	80%	Rear-End Left-Turn				
		50%	Head-On Left-Turn				
		20%	Head-On, Angle, Other				
		15%	Non Left-Turn Rear-End				
		30%	Angle				
	Intersection Improvements (Realignment, Sight-Distance Improvements, Radii Improvements, Etc.)	15%	Rear-End				
	Raul improvements, Etc.)	10%	Head-On, Sideswipe, Pedestrian, Bicycle, Left-Turn Related				
	Offset Left-Turn Lane - Construct	65%	Angle-Turn, Head-On Left-Turn				
	Offset Left-Turn Lane - Construct	20%	Rear-End Left-Turn				
	Offset Right-Turn Lane - Construct	65%	Angle-Turn				
		50%	Other Applicable Crashes				
		20%	Rear-End Right Turn				
	Right-Turn Lane - Construct	65%	Rear-End Right-Turn				
		20%	Applicable Rear-End Crashes, Sideswipe Same Direction				
	Roundabout	78%	Fatal and A-Injury Reduction				
		57%	Minor Crash Reduction				
	Lighting	_	See MDOT Interchange Warranted Lighting Guidance and overall				
			MDOT Lighting Guidance				
	General Intersection Enhan		· · · · · · · · · · · · · · · · · · ·				
	All-Way Stop Control - New Installation	60%	All Applicable Crashes				
	Ground Mounted Flashing Beacons (Red)- Install **	30%	All Crashes On Install Approach				
	Ground Mounted Flashing Beacons(Amber) - Install **	20%	All Crashes On Install Approach				
	Signing - Improve/Upgrade	30%	Angle, Rear-End Crashes				
	Pavement Markings - Improve/Upgrade	30%	Angle, Rear-End Crashes				
	Reflective Sheeting on Sign Posts (Iollipops)	15%	All Applicable Crashes				

Project Name:	White Street – M-51 to Thompson	Proposed Year:	2026
Agency:	Cass County Road Commission	Total Points:	7

Criteria	Points	
System Preservation	8 points max	
Most recent PASER rating		
2-3 and Previously applied for	5	
2-3 and not previously applied for	3	3
4	3	
5-6	1	
MDOT Geometric Guidelines		
4 R	3	
3R	2	2
PM	1	
Safety	5 points max	
a. Expected Crash Reduction - Based on MDOT approved Crash Reduction Factors		
Safety counter Measures	Up to 3	0
Addressing High Crash Locations.		
Number of crashes is 20% higher than MPO median	2	
Number of crashes are within 20% of MPO median	1	
Number of crashes is lower than 20% of the MPO median	0	0
Non-motorized Transportation / Complete Streets	5 points max	
Pedestrian and Cycling Facilities		0
Add facilities where none currently exist	3	
Improves upon existing facilities	2	
Currently has facilities but there are no improvements	1	
Non-Motorized Connectivity	0	0
Any added ped/bike facilities connect to other ped/bike facilities	2	

Criteria	Points	
Regional Connectivity	9 points max	
Average daily traffic (ADT) based on most recent traffic count		
ADT is 10,000 or more	5	
ADT is 5,000 – 9,999	4	
ADT is 2,000 – 4,999	3	
ADT is less than 2,000	0	0
Functional Classification of the Road		
Principal Arterial	3	
Minor Arterial	2	
Major Collector	1	1
Minor Collector	0	
Strategic Investment/ Project Planning	11 points max	
Identified In an Asset Management Plan	1	
There is an asset management plan covering other utilities along the limits of the project	1	
Agency staff have asset management training	1	1
Project identified in other planning document	1	
Project connects to a road with a PASER of 7 or higher	1	
Additional Local Match		
Agency will proved 40%+ Local Match	2	
Agency will proved 24-40% Local Match	1	
Note: An 18.15% local match is the minimum required		
Project Readiness (no points)	Yes	Y
	Yes	N

Total Score (out of 33)	7	
	-	

Click "Enable Editing" to begin filling out this form. You may save this form at any time. If you need assistance, please contact Brandon Kovnat, SWMPC Associate Planner. Email kovnath@swmpc.org or call (269) 925-1137 x 1524

Section 1. Applicant Information					
Agency Name	Cass County Road Commission				
Contact Name	Joe Bellina		Title	Head Engineer	
Phone Number	269-445-8612	1	Email	jbellina@casscoroad.com	
Engineer/Consultant (If applicable)	Nick Mannon				
Phone Number	269-445-8611		Email	nmannon@casscoroad.com	

Section 2. Project Information					
Project Name/Road Name	White Street				
Project Limits (e.g. Napier Ave. to Britain Ave.)	M51 to Thomson Road				
Project Length (nearest hundredth of a mile)	1.50 Proposed Year of Funding 2026				
Primary Work Type		Restore & Rehabilitate Roadside Facility affic Operations/Safety Other			
Project Description (Please provide major work items including sidewalks, utility work, ADA upgrades etc.)	Crush and Shape HN and Pavement Mark	ለA Surface and add 4" HMA,36A ing	A, Shoulder Class II		
Was this project applied for during the 2020-2023 Call for Projects but not selected	Yes No				
Was this project awarded funding for the 2020-2023 TIP, but was either canceled or failed to be obligated	Yes No If yes,	please explain:			
If you are submitting multiple applications, please rank your applications by priority.		Project Rank: 3			

Section 3. Project Funding	
Estimated STBG Participating Cost of the Project	\$ 559295.30
Minimum local match required - 18.15% of the Participating cost	\$ 101512.10
Can your agency supply additional match beyond the minimum required 18.15%. If so how much?	□ Yes ⊠ No Amount \$
Are there elements of the project that could be eligible for other federal fund sources such as CMAQ, TAP, Bridge etc.	Source: Amount: \$ Explanation:
Will the project have nonparticipating work, such as water, or sewer work?	amount: \$ Explain:
Does your agency have the financial capacity to Advance Construct (AC) all or part of this project if necessary? If yes, what is the maximum dollar amount your agency is willing to Advance Construct (AC)?	□ Yes ⊠ No Maximum Dollar Amount you can AC? \$

Section 4. Regional Connectivity	
What is the most current daily traffic count for the limits of this project?	AADT: 512 Year of count: 2020 Source: CCRC
National Functional Classification (NFC) for this roadway	Major Collector

Section 5. System Preservation				
2021 PASER rating (Available 8-10-21)	3,1,2			
Current state of drainage	 Adequate Minor and tolerable drainage problems Occasional drainage problems with some maintenance required Inadequate, frequent flooding, excessive maintenance required 			
Expected increase in Remaining Service life (RSL)	17 Use MDOT's <u>Guidelines for Geometrics on Local Projects</u>			
What MDOT guidelines does the project conform to?	 Reconstruction (4R) Resurfacing, restoration, and Rehabilitation (3R) Preventative Maintenance (PM) 			

Section 6. Safety Please list the number and severity of crashes within the proposed project limits over the last 5 yrs. (2016-2020) (see Michigan Crash Facts for crash data) **Total Crashes** Pedestrian & Bicycle 7 0 Crashes Fatalities Serious Injuries 0 0 Using the attached Crash Reduction Factors sheet, please check each safety counter measure that will be included in the project Describe any other safety improvements this project will provide

Section 7. Pedestrian and Bicycle Improvements				
Please explain what pedestrian and/or bicycle facilities if any currently exist	None			
Please explain any additional pedestrian and/or bicycle improvements included in the project.				
Does this project connect to an existing pedestrian/bicycle facility or one that is planned to be completed before 2027	Yes No If yes, please provide a map of the connecting facilities			

Section 8. Strategic Planning & Investment	
Is the project identified in an approved Asset Management Plan, or Capital Improvement Plan	Yes 🖾 No If yes, please attach the plan.
Is the project identified in another approved planning document such as a master plan or parks and recreation plan	☐Yes ⊠No If yes, please cite the plan and page number:
Is there an approved asset management plan covering the utilities along the project's limits	Yes No List utilities covered by the asset management plan:
Will this project coordinate with other infrastructure projects (i.e. utility, water, sewer, etc?)	Yes No If yes, please indicate the project type and construction year:
How many water main breaks have you had at this location in the past five years?	None
Is there a completed utilities assessment that includes televising the sewers in the project area?	Yes 🛛 No
Do you have a maintenance strategy or Asset Management Plan covering non-motorized facilities?	Yes 🛛 No
Has staff received Asset Management training through the Transportation Asset Management Council <u>https://www.michigan.gov/tamc/0,7308,7-356-82158-</u> ,00.html	⊠Yes □No
Has your agency completed the Asset Management Readiness Scale from the Michigan Infrastructure Council (MIC)? <u>https://fcm.ca/en/resources/mamp/tool-asset-</u> <u>management-readiness-scale</u>	Yes No https://fcm.ca/en/resources/mamp/tool-asset- management-readiness-scale
Does the project cross-jurisdictional boundaries?	🗌 Yes 🔀 No
If yes, will it be bid as a single project?	Yes No 🛛 NA
Will this project require environmental mitigation, purchase of Right of Way (ROW), or railroad permits?	Yes No Not Sure If yes, which items are required: Railroad Permit
If any of the above items are required please explain how they will be addressed	Through MDOT Rail department forms
Does this project perform Resurfacing, Reconstruction, or Preventative Maintenance on a segment adjacent to a segment that currently has a PASER of 7 or higher	Yes X No List the adjacent segments that qualify:

Section 9. Existing and Proposed Roadway Design								
	Existing				Proposed			
Include the	Through	Center		On Street	Through	Center	On Street	
number of	Traffic Lanes	Turn Lar	าย	Parking	Traffic Lanes	Turn Lane	Parking	
vehicle lanes	2	0		🗆 Yes 🛛 No	2	0	🗆 Yes 🛛 No	
Shoulder	Paved		Wi	l dth (ft.)	Paved		Width (ft.)	
Surface	Unpaved		3		Unpaved		3	
Sidewalk/ path	Placement		Wi	dth (ft.)	Placement		Width (ft.)	
information	🗌 One Side				🗌 One Side			
	Both Sides				Both Sides	5		
	Intermittent				🗌 Intermittent			
	🛛 🛛 None		None 🛛		🔀 None			
On road bicycle	🔄 Bike Lane		Other (specify)		Bike Lane	🗌 Othe	er (specify)	
facilities	Sharrows		_		Sharrows	<u> </u>		
	Wide Shoulders			one	🦳 Wide Shou	ulders 🛛 N	one	
Utilities, Sewer	Utilities Upgrades N				Replace U	Itilities		
and Water	Sewer and	water wo	ork needed		Relocate U	Relocate Utilities		
			-		Sewer and	l Water Line \	Nork	
Please describe ar		ts being						
made as part of this project to								
crosswalks, signage or signals, or								
streetscape elements not discussed in								
project description								
Does this project enhance connectivity				Yes 🖄 No				
of pedestrian or b	of pedestrian or bicyclists to fixed route			es, how?				
or Dial-A-Ride transit?								

Section 10. Estimated Project Schedule	
Activity	Estimated Date
Resolution of Support for \Box Local Match Submitted to SWMPC	September 2025
Project Application Submitted to MOT	September 2025
Grade Inspection Package Submitted to MDOT	October 2025
Grade Inspection Meeting Scheduled	November 2025
Final Plan and Estimate to MDOT	December 2025
Right of Way (ROW) certified*	NA
Rail Road Permits*	October 2025
Environmental Mitigation*	NA
Project Obligated	January 2026
Project Letting	March 2026
Construction Start	May 2026
Project Completion	09/30/2026

*Enter NA if these items will not be required.

NATS 2024-2026 Surface Transportation Block Grant Project Application

Proposed Improvement	% Reduction	Associated Crash Types				
SEGMENT CRASH REDUCTION FACTORS						
Geometric Safety Enhancements						
	80%	Rear-End Left-Turn				
	50%	Head-On Left-Turn				
Center Left-Turn Lane - Construct	20%	Head-On, Angle, Sideswipe*				
	15%	Non Left-Turn Rear-End, Other*				
	65%	Rear-End Right-Turn				
	30%	Angle				
Right-Turn Lane - Construct	15%	Rear-End				
	10%	Other*				
Horizontal Curve Flattening	30%	Lane Departure***				
Shoulders - Widen to Standard Width (add 1' each side)	5%	Lane Departure***				
Shoulders - Widen to Standard Width (add 2' each side)	10%	Lane Departure***				
Shoulders - Widen to Standard Width (add 3' each side)	15%	Lane Departure***				
Shoulders - Widen to Standard Width (add 4' each side)	20%	Lane Departure***				
Shoulders - Widen to Standard Width (add 5' each side)	25%	Lane Departure***				
Shoulders - Widen to Standard Width (add 6' each side)	30%	Lane Departure***				
Shoulders - Widen to Standard Width (add 7' each side)	35%	Lane Departure***				
Vertical Curve Modification	20%	All Applicable Crash Types +++				
General Segment Enhancements						
Access Management - Improve	15%	Drive-way Related Applicable Crashes				
	44%	K and A injury Applicable Crashes				
Centerline Rumble Strips - Install	46%	Single Vehicle Run off Road Left Crashes				
	43%	Sideswipe Same Crashes				
	55%	Sideswipe Opposite Crashes				
High Friction Surface Treatment - Install	35%	Wet Crashes				
ngi riction surface meatment - mstun	20%	All Other Applicable Crashes				
Recessed Durable Pavement Markings	5%	All Applicable Crashes				
Pedestrian Refuge - Install	50%	Pedestrian Crashes (Review NCHRP Report 841)				
Road Diet (4-3 Lane Conversion) - Install	50%	Suburban - All Applicable Crashes				
Shoulder Rumble Strips	20%	Run-Off the Road Right Crashes				
Signing/Delineation on Horizontal Curves (Including Recessed Durable Pavement Markings) - Install	20%	Lane Departure***				
Safety Edge Improvement	13%	All non-intersection crashes (CMF Clearing House ID 8658)				

Roadside Enhancements						
Bicycle Lanes - Install per standards	50%	Bicycle Crashes				
Shared Use Path - Install		Bicycle and Pedestrian Related Crashes				
Fixed Objects From Clear zone (Trees, Culverts, Etc.) - Removal		Fixed-Object Applicable Crashes				
Guardrail - Install	55%	Lane Departure ***Fatalities and "A" Injury Applicable Crashes				
Sidewalk for Pedestrians - Construct	85%	Pedestrian Crashes				
Slope Flattening	15%	Fixed-Object, Overturn Applicable Crashes				
Living Snow Fence	20%	Crashes due to wintry surface conditions				
Lighting - install on segment	20%	Dark Unlighted Crashes				
INTERSECTI	ON CRASH REDU	CTION FACTORS				
 Pedestri	an / Bicycle Enha	ancements				
Bump Out / Curb Extension - Remove Parking / Install	30%	All Crashes				
Bicycle Lanes - Install per standards	25%	Bicycle Crashes				
Sidewalk for Pedestrians - Construct	85%	Pedestrian Crashes				
	75%	Pedestrian Fatal - Dark Unlighted Crashes				
Intersection Lighting - install	40%	Pedestrian A-Injury - Dark Unlighted Crashes				
	30%	All Applicable Dark Unlighted Crashes				
Rectangular Rapid Flashing Beacons	47%	Pedestrian Crashes				
Ped. Countdown Signals - Install new Pedestrian signal	30%	Pedestrian Crashes				
Ped. Countdown Signals - Upgrade from existing Pedestrian signal	25%	Pedestrian Crashes				
Signal Timing / Hardware Enhancements						
	3%	Rear-End				
Multiple Low-Cost Improvements	12%	Right-Angle				
	3%	Nighttime				
Install Reflectorized Backplates	15%	All Applicable Crashes				
Add All-Red Clearance Interval - Add per ITE	20%	Head-On Left-Turn, Angle				
Yellow-Change Interval - Increase	10%	All Crash Types				
	65%	Angle				
Box Span Signal - Upgrade from Stop Control	-25%	Rear-End (Increases Crashes)				
	20%	All Other Non Rear-End Crashes				
Box Span Signal - Upgrade from Diagonal Span	10%	All Applicable Crashes+				
Protected Left-Turn Signal Phase - Add	30%	Left-Turn				
Signal Head Size - Increase to 12 "	10%	All Applicable Crashes +				
Signal Optimization & Timing Updates	10%	All Applicable Crashes +				
Removing Night Flash from Signal Timing	50%	Nighttime Flash mode Related Crashes				

Intersection Geometric Enhancements					
		Rear-End Left-Turn			
	50%	Head-On Left-Turn			
Center Left-Turn Lane - Construct	20%	Head-On, Angle, Other			
	15%	Non Left-Turn Rear-End			
	30%	Angle			
Intersection Improvements (Realignment, Sight-Distance Improvements, Radii Improvements, Etc.)	15%	Rear-End			
Raul improvements, Etc.)	10%	Head-On, Sideswipe, Pedestrian, Bicycle, Left-Turn Related			
Offeet Left Turn Lene Construct	65%	Angle-Turn, Head-On Left-Turn			
Offset Left-Turn Lane - Construct		Rear-End Left-Turn			
	65%	Angle-Turn			
Offset Right-Turn Lane - Construct	50%	Other Applicable Crashes			
	20%	Rear-End Right Turn			
	65%	Rear-End Right-Turn			
Right-Turn Lane - Construct	20%	Applicable Rear-End Crashes, Sideswipe Same Direction			
Roundabout	78%	Fatal and A-Injury Reduction			
Roundabout	57%	Minor Crash Reduction			
Lighting	_	See MDOT Interchange Warranted Lighting Guidance and overall			
		MDOT Lighting Guidance			
General Intersection Enhan		· · · · · · · · · · · · · · · · · · ·			
All-Way Stop Control - New Installation	60%	All Applicable Crashes			
Ground Mounted Flashing Beacons (Red)- Install **	30%	All Crashes On Install Approach			
Ground Mounted Flashing Beacons(Amber) - Install **	20%	All Crashes On Install Approach			
Signing - Improve/Upgrade	30%	Angle, Rear-End Crashes			
Pavement Markings - Improve/Upgrade	30%	Angle, Rear-End Crashes			
Reflective Sheeting on Sign Posts (Iollipops)	15%	All Applicable Crashes			

Project Name:	Redfield from Countyline to Batchelor Dr.	Proposed Year:	2024
Agency:	Cass County Road Commission	Total Points:	10

Criteria	Points	
System Preservation	8 points max	
Most recent PASER rating		
2-3 and Previously applied for	5	
2-3 and not previously applied for	3	3
4	3	
5-6	1	
MDOT Geometric Guidelines		
4 R	3	
3R	2	
PM	1	1
Safety	5 points max	
a. Expected Crash Reduction - Based on MDOT approved Crash Reduction Factors		
Safety counter Measures	Up to 3	0
Addressing High Crash Locations.		
Number of crashes is 20% higher than MPO median		
Number of crashes are within 20% of MPO median	1	
Number of crashes is lower than 20% of the MPO median	0	0
Non-motorized Transportation / Complete Streets	5 points max	
Pedestrian and Cycling Facilities	тах	0
Add facilities where none currently exist	3	
Improves upon existing facilities	2	
Currently has facilities but there are no improvements	1	
		0
Non-Motorized Connectivity	0	0

Criteria	Points	
Regional Connectivity	9 points max	
Average daily traffic (ADT) based on most recent traffic count		
ADT is 10,000 or more	5	
ADT is 5,000 – 9,999	4	
ADT is 2,000 – 4,999	3	3
ADT is less than 2,000	0	
Functional Classification of the Road		
Principal Arterial	3	
Minor Arterial	2	2
Major Collector	1	
Minor Collector	0	
Strategic Investment/ Project Planning	11 points max	
Identified In an Asset Management Plan	1	
There is an asset management plan covering other utilities along the limits of the project	1	
Agency staff have asset management training	1	1
Project identified in other planning document		
Project connects to a road with a PASER of 7 or higher	1	
Additional Local Match		
Agency will proved 40%+ Local Match	2	
Agency will proved 24-40% Local Match	1	
Note: An 18.15% local match is the minimum required		
Project Readiness (no points)	Yes	Y
Coordination with sewer or other infrastructure (no points)		N

Total Score (out of 33)	10	
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Click "Enable Editing" to begin filling out this form. You may save this form at any time. If you need assistance, please contact Brandon Kovnat, SWMPC Associate Planner. Email kovnath@swmpc.org or call (269) 925-1137 x 1524

Section 1. Applicant Information				
Agency Name	Cass County Road Commission			
Contact Name	Joe Bellina		Title	Head Engineer
Phone Number	269-445-8611		Email	jbellina@casscoroad.com
Engineer/Consultant (If applicable)		Nick Mannon		
Phone Number	269-445-8611		Email	nmannon@casscoroad.com

Section 2. Project Information			
Project Name/Road Name	Redfield Street		
Project Limits (e.g. Napier Ave. to Britain Ave.)	Cass County line to Batchelor Drive		
Project Length (nearest hundredth of a mile)	1.03	Proposed Year of Funding	2024
Primary Work Type	 □ Reconstruct □ Restore & Rehabilitate □ Roadside Facility ☑ Resurface □ Traffic Operations/Safety □ Other 		
Project Description (Please provide major work items including sidewalks, utility work, ADA upgrades etc.)	1.5" HMA,36A top course overlay, Shoulder Class II and Pavement Marking		
Was this project applied for during the 2020-2023 Call for Projects but not selected	Yes No		
Was this project awarded funding for the 2020-2023 TIP, but was either canceled or failed to be obligated	☐Yes ⊠No If yes, please explain:		
If you are submitting multiple applications, please rank your applications by priority.		Project Rank: 4	

Section 3. Project Funding	
Estimated STBG Participating Cost of the Project	\$ 150246.82
Minimum local match required - 18.15% of the Participating cost	\$ 27269.8
Can your agency supply additional match beyond the minimum required 18.15%. If so how much?	□ Yes ⊠ No Amount \$
Are there elements of the project that could be eligible for other federal fund sources such as CMAQ, TAP, Bridge etc.	Source: Amount: \$ Explanation:
Will the project have nonparticipating work, such as water, or sewer work?	amount: \$ Explain:
Does your agency have the financial capacity to Advance Construct (AC) all or part of this project if necessary? If yes, what is the maximum dollar amount your agency is willing to Advance Construct (AC)?	□ Yes ⊠ No Maximum Dollar Amount you can AC? \$

Section 4. Regional Connectivity	
What is the most current daily traffic count for the limits of this project?	AADT: 4772 Year of count: 2009 Source: CCRC
National Functional Classification (NFC) for this roadway	Minor Arterial

Section 5. System Preservation	
2021 PASER rating (Available 8-10-21)	4
Current state of drainage	 Adequate Minor and tolerable drainage problems Occasional drainage problems with some maintenance required Inadequate, frequent flooding, excessive maintenance required
Expected increase in Remaining Service life (RSL)	7 Use MDOT's <u>Guidelines for Geometrics on Local Projects</u>
What MDOT guidelines does the project conform to?	 Reconstruction (4R) Resurfacing, restoration, and Rehabilitation (3R) Preventative Maintenance (PM)

Section 6. Safety Please list the number and severity of crashes within the proposed project limits over the last 5 yrs. (2016-2020) (see Michigan Crash Facts for crash data) **Total Crashes** Pedestrian & Bicycle 40 0 Crashes Fatalities Serious Injuries 0 1 Using the attached Crash Reduction Factors sheet, please check each safety counter measure that will be included in the project Describe any other safety improvements this project will provide

Section 7. Pedestrian and Bicycle Improvements		
Please explain what pedestrian and/or bicycle facilities if any currently exist	None	
Please explain any additional pedestrian and/or bicycle improvements included in the project.		
Does this project connect to an existing pedestrian/bicycle facility or one that is planned to be completed before 2027	Yes No If yes, please provide a map of the connecting facilities	

Section 8. Strategic Planning & Investment	
Is the project identified in an approved Asset Management Plan, or Capital Improvement Plan	Yes 🖾 No If yes, please attach the plan.
Is the project identified in another approved planning document such as a master plan or parks and recreation plan	Yes No If yes, please cite the plan and page number:
Is there an approved asset management plan covering the utilities along the project's limits	Yes No List utilities covered by the asset management plan:
Will this project coordinate with other infrastructure projects (i.e. utility, water, sewer, etc?)	Yes X No If yes, please indicate the project type and construction year:
How many water main breaks have you had at this location in the past five years?	None
Is there a completed utilities assessment that includes televising the sewers in the project area?	Yes 🛛 No
Do you have a maintenance strategy or Asset Management Plan covering non-motorized facilities?	Yes 🛛 No
Has staff received Asset Management training through the Transportation Asset Management Council <u>https://www.michigan.gov/tamc/0,7308,7-356-82158-</u> ,00.html	⊠Yes □No
Has your agency completed the Asset Management Readiness Scale from the Michigan Infrastructure Council (MIC)? <u>https://fcm.ca/en/resources/mamp/tool-asset-</u> <u>management-readiness-scale</u>	Yes No https://fcm.ca/en/resources/mamp/tool-asset- management-readiness-scale
Does the project cross-jurisdictional boundaries?	Yes 🔀 No
If yes, will it be bid as a single project?	☐ Yes ☐ No 🛛 NA
Will this project require environmental mitigation, purchase of Right of Way (ROW), or railroad permits?	Yes No Not Sure If yes, which items are required:
If any of the above items are required please explain how they will be addressed	
Does this project perform Resurfacing, Reconstruction, or Preventative Maintenance on a segment adjacent to a segment that currently has a PASER of 7 or higher	Yes No List the adjacent segments that qualify: Batchelor Drive to Gumwood Road

Section 9. Existing and Proposed Roadway Design								
	Existing			Proposed				
Include the	Through	Center		On Street	Through	Center	On Street	
number of	Traffic Lanes	Turn Lar	ne	Parking	Traffic Lanes	Turn Lane	Parking	
vehicle lanes	2	0		🗆 Yes 🛛 No	2	0	🗆 Yes 🛛 No	
Shoulder	🔀 Paved		Wi	dth (ft.)	🔀 Paved		Width (ft.)	
Surface	🗌 Unpaved		3		🗌 Unpaved		3	
Sidewalk/ path	Placement		Wi	dth (ft.)	Placement		Width (ft.)	
information	🗌 One Side				🔄 One Side			
	Both Sides	5			Both Sides			
	🗌 📃 Intermitte	nt			🗌 Intermittent			
	🔀 None				🔀 None			
On road bicycle	Bike Lane 🛛 Other (specify		r (specify)	Bike Lane	Othe	er (specify)		
facilities	Sharrows		_		Sharrows			
	Wide Shoulders 🛛 None		🦳 Wide Shoι	ılders 🖂 N	one			
Utilities, Sewer	Utilities Up	-				Replace Utilities		
and Water	Sewer and	water wo	ork n	eeded	Relocate Utilities			
					Sewer and	Water Line \	Nork	
Please describe ar	· ·	ts being						
made as part of th	• •							
crosswalks, signage or signals, or								
streetscape elements not discussed in								
project description				<u></u>				
Does this project enhance connectivity				Yes 🖄 No				
of pedestrian or bicyclists to fixed route			lf y	es, how?				
or Dial-A-Ride transit?								

Section 10. Estimated Project Schedule	
Activity	Estimated Date
Resolution of Support for \Box Local Match Submitted to SWMPC	September 2023
Project Application Submitted to MOT	September 2023
Grade Inspection Package Submitted to MDOT	October 2023
Grade Inspection Meeting Scheduled	November 2023
Final Plan and Estimate to MDOT	December 2023
Right of Way (ROW) certified*	NA
Rail Road Permits*	NA
Environmental Mitigation*	NA
Project Obligated	January 2024
Project Letting	March 2024
Construction Start	May 2024
Project Completion	09/30/2024

Proposed Improvement	% Reduction	Associated Crash Types					
SEGMENT CRASH REDUCTION FACTORS							
Geometric Safety Enhancements							
80% Rear-End Left-Turn							
	50%	Head-On Left-Turn					
Center Left-Turn Lane - Construct	20%	Head-On, Angle, Sideswipe*					
	15%	Non Left-Turn Rear-End, Other*					
	65%	Rear-End Right-Turn					
	30%	Angle					
Right-Turn Lane - Construct	15%	Rear-End					
	10%	Other*					
Horizontal Curve Flattening	30%	Lane Departure***					
Shoulders - Widen to Standard Width (add 1' each side)	5%	Lane Departure***					
Shoulders - Widen to Standard Width (add 2' each side)	10%	Lane Departure***					
Shoulders - Widen to Standard Width (add 3' each side)	15%	Lane Departure***					
Shoulders - Widen to Standard Width (add 4' each side)	20%	Lane Departure***					
Shoulders - Widen to Standard Width (add 5' each side)	25%	Lane Departure***					
Shoulders - Widen to Standard Width (add 6' each side)	30%	Lane Departure***					
Shoulders - Widen to Standard Width (add 7' each side)	35%	Lane Departure***					
Vertical Curve Modification	20%	All Applicable Crash Types +++					
General S	egment Enhanc	ements					
Access Management - Improve	15%	Drive-way Related Applicable Crashes					
	44%	K and A injury Applicable Crashes					
Centerline Rumble Strips - Install	46%	Single Vehicle Run off Road Left Crashes					
	43%	Sideswipe Same Crashes					
	55%	Sideswipe Opposite Crashes					
High Friction Surface Treatment - Install	35%	Wet Crashes					
ngi riction surface meatment - mstun	20%	All Other Applicable Crashes					
Recessed Durable Pavement Markings	5%	All Applicable Crashes					
Pedestrian Refuge - Install	50%	Pedestrian Crashes (Review NCHRP Report 841)					
Road Diet (4-3 Lane Conversion) - Install	50%	Suburban - All Applicable Crashes					
Shoulder Rumble Strips	20%	Run-Off the Road Right Crashes					
Signing/Delineation on Horizontal Curves (Including Recessed Durable Pavement Markings) - Install	20%	Lane Departure***					
Safety Edge Improvement	13%	All non-intersection crashes (CMF Clearing House ID 8658)					

Roadside Enhancements					
Bicycle Lanes - Install per standards	50%	Bicycle Crashes			
Shared Use Path - Install	33%	Bicycle and Pedestrian Related Crashes			
Fixed Objects From Clear zone (Trees, Culverts, Etc.) - Removal	75%	Fixed-Object Applicable Crashes			
Guardrail - Install	55%	Lane Departure ***Fatalities and "A" Injury Applicable Crashes			
Sidewalk for Pedestrians - Construct	85%	Pedestrian Crashes			
Slope Flattening	15%	Fixed-Object, Overturn Applicable Crashes			
Living Snow Fence	20%	Crashes due to wintry surface conditions			
Lighting - install on segment	20%	Dark Unlighted Crashes			
INTERSECTI	ON CRASH REDU	CTION FACTORS			
 Pedestri	an / Bicycle Enha	ancements			
Bump Out / Curb Extension - Remove Parking / Install	30%	All Crashes			
Bicycle Lanes - Install per standards	25%	Bicycle Crashes			
Sidewalk for Pedestrians - Construct	85%	Pedestrian Crashes			
	75%	Pedestrian Fatal - Dark Unlighted Crashes			
Intersection Lighting - install	40%	Pedestrian A-Injury - Dark Unlighted Crashes			
		All Applicable Dark Unlighted Crashes			
Rectangular Rapid Flashing Beacons	47%	Pedestrian Crashes			
Ped. Countdown Signals - Install new Pedestrian signal		Pedestrian Crashes			
		Pedestrian Crashes			
Signal Timi	ng / Hardware Ei				
	3%	Rear-End			
Multiple Low-Cost Improvements	12%	Right-Angle			
	3%	Nighttime			
Install Reflectorized Backplates	15%	All Applicable Crashes			
Add All-Red Clearance Interval - Add per ITE	20%	Head-On Left-Turn, Angle			
Yellow-Change Interval - Increase	10%	All Crash Types			
	65%	Angle			
Box Span Signal - Upgrade from Stop Control	-25%	Rear-End (Increases Crashes)			
	20%	All Other Non Rear-End Crashes			
Box Span Signal - Upgrade from Diagonal Span	10%	All Applicable Crashes+			
Protected Left-Turn Signal Phase - Add	30%	Left-Turn			
Signal Head Size - Increase to 12 "	10%	All Applicable Crashes +			
Signal Optimization & Timing Updates	10%	All Applicable Crashes +			
Removing Night Flash from Signal Timing	50%	Nighttime Flash mode Related Crashes			

	Intersection Geometric Enhancements					
		80%	Rear-End Left-Turn			
		50%	Head-On Left-Turn			
	Center Left-Turn Lane - Construct		Head-On, Angle, Other			
		15%	Non Left-Turn Rear-End			
		30%	Angle			
	Intersection Improvements (Realignment, Sight-Distance Improvements, Radii Improvements, Etc.)	15%	Rear-End			
	Radii iniprovements, Etc.)	10%	Head-On, Sideswipe, Pedestrian, Bicycle, Left-Turn Related			
	Offset Left-Turn Lane - Construct	65%	Angle-Turn, Head-On Left-Turn			
	Offset Left-Turn Lane - Construct	20%	Rear-End Left-Turn			
	Offset Right-Turn Lane - Construct	65%	Angle-Turn			
		50%	Other Applicable Crashes			
		20%	Rear-End Right Turn			
	Bielet Turn Long Construct	65%	Rear-End Right-Turn			
	Right-Turn Lane - Construct	20%	Applicable Rear-End Crashes, Sideswipe Same Direction			
	Roundabout	78%	Fatal and A-Injury Reduction			
	Roundabout	57%	Minor Crash Reduction			
	Lighting	_	See MDOT Interchange Warranted Lighting Guidance and overall			
			MDOT Lighting Guidance			
	General Intersection Enhan		· · · · · · · · · · · · · · · · · · ·			
	All-Way Stop Control - New Installation	60%	All Applicable Crashes			
	Ground Mounted Flashing Beacons (Red)- Install **	30%	All Crashes On Install Approach			
	Ground Mounted Flashing Beacons(Amber) - Install **	20%	All Crashes On Install Approach			
	Signing - Improve/Upgrade	30%	Angle, Rear-End Crashes			
	Pavement Markings - Improve/Upgrade	30%	Angle, Rear-End Crashes			
	Reflective Sheeting on Sign Posts (Iollipops)	15%	All Applicable Crashes			

Project Name:	White Street – Thompson to Barron Lake	Proposed Year:	2026
Agency:	Cass County Road Commission	Total Points:	11

Criteria	Points	
System Preservation	8 points max	
Most recent PASER rating		
2-3 and Previously applied for	5	
2-3 and not previously applied for	3	3
4	3	
5-6	1	
MDOT Geometric Guidelines		
4 R	3	
3R	2	2
PM	1	
Safety	5 points max	
a. Expected Crash Reduction - Based on MDOT approved Crash Reduction Factors	Шах	
Safety counter Measures	Up to 3	0
Addressing High Crash Locations.		
Number of crashes is 20% higher than MPO median	2	
Number of crashes are within 20% of MPO median	1	
Number of crashes is lower than 20% of the MPO median	0	0
Non-motorized Transportation / Complete Streets	5 points max	
Pedestrian and Cycling Facilities		0
Add facilities where none currently exist	3	
Improves upon existing facilities	2	
Currently has facilities but there are no improvements	1	
Non-Motorized Connectivity	0	0
Any added ped/bike facilities connect to other ped/bike facilities	2	

Criteria	Points	
Regional Connectivity	9 points max	
Average daily traffic (ADT) based on most recent traffic count		
ADT is 10,000 or more	5	
ADT is 5,000 – 9,999	4	
ADT is 2,000 – 4,999	3	3
ADT is less than 2,000	0	
Functional Classification of the Road		
Principal Arterial	3	
Minor Arterial	2	2
Major Collector	1	
Minor Collector	0	
Strategic Investment/ Project Planning	11 points max	
Identified In an Asset Management Plan	1	
There is an asset management plan covering other utilities along the limits of the project	1	
Agency staff have asset management training	1	1
Project identified in other planning document	1	
Project connects to a road with a PASER of 7 or higher	1	
Additional Local Match		
Agency will proved 40%+ Local Match	2	
Agency will proved 24-40% Local Match	1	
Note: An 18.15% local match is the minimum required		
Project Readiness (no points)	Yes	

Total Score (out of 33)	11	
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Niles-Buchanan-Cass Area Transportation Study 2024-2026 Transportation Improvement Program (TIP) Federal Surface Transportation Block Grant Funds Project Application

Click "Enable Editing" to begin filling out this form. You may save this form at any time. If you need assistance, please contact Brandon Kovnat, SWMPC Associate Planner. Email kovnath@swmpc.org or call (269) 925-1137 x 1524

Section 1. Applicant Information				
Agency Name	Agency Name Cass County Road Commission			
Contact Name	Joe Bellina	Joe Bellina Title Head Engineer		
Phone Number	269-445-8612	269-445-8611		jbellina@casscoroad.com
Engineer/Consultant (If applicable)		Nick Mannon		
Phone Number	269-445-861	1	Email	nmannon@casscoroad.com

Section 2. Project Information				
Project Name/Road Name	White Street			
Project Limits (e.g. Napier Ave. to Britain Ave.)	Thomson Road to Barron Lake Road			
Project Length (nearest hundredth of a mile)	1.00	Proposed Year of Funding	2026	
Primary Work Type		lestore & Rehabilitate \Box Roadsi ffic Operations/Safety \Box Other	•	
Project Description (Please provide major work items including sidewalks, utility work, ADA upgrades etc.)	Crush and Shape HMA Surface and add 4" HMA,36A, Shoulder Class II and Pavement Marking			
Was this project applied for during the 2020-2023 Call for Projects but not selected	Yes 🖾 No			
Was this project awarded funding for the 2020-2023 TIP, but was either canceled or failed to be obligated	☐Yes ⊠No If yes, please explain:			
If you are submitting multiple applications, please rank your applications by priority.		Project Rank: 7		

Section 3. Project Funding	
Estimated STBG Participating Cost of the Project	\$ 372863.53
Minimum local match required - 18.15% of the Participating cost	\$ 67674.73
Can your agency supply additional match beyond the minimum required 18.15%. If so how much?	□ Yes ⊠ No Amount \$
Are there elements of the project that could be eligible for other federal fund sources such as CMAQ, TAP, Bridge etc.	Source: Amount: \$ Explanation:
Will the project have nonparticipating work, such as water, or sewer work?	amount: \$ Explain:
Does your agency have the financial capacity to Advance Construct (AC) all or part of this project if necessary? If yes, what is the maximum dollar amount your agency is willing to Advance Construct (AC)?	□ Yes ⊠ No Maximum Dollar Amount you can AC? \$

Section 4. Regional Connectivity	
What is the most current daily traffic count for the limits of this project?	AADT: 456 Year of count: 2009 Source: CCRC
National Functional Classification (NFC) for this roadway	Major Collector

Section 5. System Preservation	
2021 PASER rating (Available 8-10-21)	2
Current state of drainage	 Adequate Minor and tolerable drainage problems Occasional drainage problems with some maintenance required Inadequate, frequent flooding, excessive maintenance required
Expected increase in Remaining Service life (RSL)	17 Use MDOT's <u>Guidelines for Geometrics on Local Projects</u>
What MDOT guidelines does the project conform to?	 Reconstruction (4R) Resurfacing, restoration, and Rehabilitation (3R) Preventative Maintenance (PM)

Section 6. Safety Please list the number and severity of crashes within the proposed project limits over the last 5 yrs. (2016-2020) (see Michigan Crash Facts for crash data) **Total Crashes** Pedestrian & Bicycle 5 0 Crashes Fatalities Serious Injuries 0 0 Using the attached Crash Reduction Factors sheet, please check each safety counter measure that will be included in the project Describe any other safety improvements this project will provide

Section 7. Pedestrian and Bicycle Impro	vements
Please explain what pedestrian and/or bicycle facilities if any currently exist	
Please explain any additional pedestrian and/or bicycle improvements included in the project.	
Does this project connect to an existing pedestrian/bicycle facility or one that is planned to be completed before 2027	Yes No If yes, please provide a map of the connecting facilities

Section 8. Strategic Planning & Investment	
Is the project identified in an approved Asset Management Plan, or Capital Improvement Plan	Yes 🖾 No If yes, please attach the plan.
Is the project identified in another approved planning document such as a master plan or parks and recreation plan	Yes No If yes, please cite the plan and page number:
Is there an approved asset management plan covering the utilities along the project's limits	Yes No List utilities covered by the asset management plan:
Will this project coordinate with other infrastructure projects (i.e. utility, water, sewer, etc?)	Yes No If yes, please indicate the project type and construction year:
How many water main breaks have you had at this location in the past five years?	None
Is there a completed utilities assessment that includes televising the sewers in the project area?	Yes 🛛 No
Do you have a maintenance strategy or Asset Management Plan covering non-motorized facilities?	🗌 Yes 🔀 No
Has staff received Asset Management training through the Transportation Asset Management Council <u>https://www.michigan.gov/tamc/0,7308,7-356-82158-</u> ,00.html	⊠Yes □No
Has your agency completed the Asset Management Readiness Scale from the Michigan Infrastructure Council (MIC)? <u>https://fcm.ca/en/resources/mamp/tool-asset-</u> <u>management-readiness-scale</u>	Yes No https://fcm.ca/en/resources/mamp/tool-asset- management-readiness-scale
Does the project cross-jurisdictional boundaries?	🗌 Yes 🖾 No
If yes, will it be bid as a single project?	Yes No 🛛 NA
Will this project require environmental mitigation, purchase of Right of Way (ROW), or railroad permits?	Yes No Not Sure If yes, which items are required:
If any of the above items are required please explain how they will be addressed	
Does this project perform Resurfacing, Reconstruction, or Preventative Maintenance on a segment adjacent to a segment that currently has a PASER of 7 or higher	Yes X No List the adjacent segments that qualify:

Section 9. Existing and Proposed Roadway Design								
	Existing			Proposed				
Include the	Through	Center		On Street	Through	Center	On Street	
number of	Traffic Lanes	Turn Lar	าย	Parking	Traffic Lanes	Turn Lane	Parking	
vehicle lanes	2	0		🗆 Yes 🛛 No	2	0	🗆 Yes 🛛 No	
Shoulder	Paved		Wi	l dth (ft.)	Paved		Width (ft.)	
Surface	Unpaved		3		Unpaved		3	
Sidewalk/ path	Placement		Wi	dth (ft.)	Placement		Width (ft.)	
information	🗌 One Side				🗌 One Side			
	Both Sides				Both Sides			
	🗌 🗌 Intermitte	nt		🗌 Intermittent		nt		
	🛛 None				🔀 None			
On road bicycle	Bike Lane		Other (specify)		Bike Lane Other (specify)			
facilities	Sharrows		_		Sharrows			
	🗌 🗌 Wide Shoulders 🛛 🗌		∐ No	one	🦳 Wide Shou	Wide Shoulders 🛛 None		
Utilities, Sewer					Replace Utilities			
and Water	Sewer and	water wo	ork needed		Relocate Utilities			
			-		Sewer and	l Water Line \	Nork	
Please describe ar		ts being						
made as part of this project to								
crosswalks, signage or signals, or								
streetscape elements not discussed in		ed in						
project description								
	Does this project enhance connectivity			Yes 🖄 No				
of pedestrian or b	of pedestrian or bicyclists to fixed route			es, how?				
or Dial-A-Ride tran	or Dial-A-Ride transit?							

Section 10. Estimated Project Schedule	
Activity	Estimated Date
Resolution of Support for \Box Local Match Submitted to SWMPC	September 2025
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Rail Road Permits*	NA
Environmental Mitigation*	NA
Project Obligated	January 2025
Project Letting	March 2026
Construction Start	May 2026
Project Completion	09/30/2026

Proposed Improvement	% Reduction	Associated Crash Types				
SEGMENT CRASH REDUCTION FACTORS						
Geometric Safety Enhancements						
	80%	Rear-End Left-Turn				
	50%	Head-On Left-Turn				
Center Left-Turn Lane - Construct	20%	Head-On, Angle, Sideswipe*				
	15%	Non Left-Turn Rear-End, Other*				
	65%	Rear-End Right-Turn				
	30%	Angle				
Right-Turn Lane - Construct	15%	Rear-End				
	10%	Other*				
Horizontal Curve Flattening	30%	Lane Departure***				
Shoulders - Widen to Standard Width (add 1' each side)	5%	Lane Departure***				
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Shoulders - Widen to Standard Width (add 5' each side)	25%	Lane Departure***				
Shoulders - Widen to Standard Width (add 6' each side)	30%	Lane Departure***				
Shoulders - Widen to Standard Width (add 7' each side)	35%	Lane Departure***				
Vertical Curve Modification	20%	All Applicable Crash Types +++				
General S	egment Enhanc	ements				
Access Management - Improve	15%	Drive-way Related Applicable Crashes				
	44%	K and A injury Applicable Crashes				
Centerline Rumble Strips - Install	46%	Single Vehicle Run off Road Left Crashes				
	43%	Sideswipe Same Crashes				
	55%	Sideswipe Opposite Crashes				
High Friction Surface Treatment - Install	35%	Wet Crashes				
ngi riction surface meatment - mstun	20%	All Other Applicable Crashes				
Recessed Durable Pavement Markings	5%	All Applicable Crashes				
Pedestrian Refuge - Install	50%	Pedestrian Crashes (Review NCHRP Report 841)				
Road Diet (4-3 Lane Conversion) - Install	50%	Suburban - All Applicable Crashes				
Shoulder Rumble Strips	20%	Run-Off the Road Right Crashes				
Signing/Delineation on Horizontal Curves (Including Recessed Durable Pavement Markings) - Install	20%	Lane Departure***				
Safety Edge Improvement	13%	All non-intersection crashes (CMF Clearing House ID 8658)				

Roadside Enhancements					
Bicycle Lanes - Install per standards	50%	Bicycle Crashes			
Shared Use Path - Install	33%	Bicycle and Pedestrian Related Crashes			
Fixed Objects From Clear zone (Trees, Culverts, Etc.) - Removal	75%	Fixed-Object Applicable Crashes			
Guardrail - Install	55%	Lane Departure ***Fatalities and "A" Injury Applicable Crashes			
Sidewalk for Pedestrians - Construct	85%	Pedestrian Crashes			
Slope Flattening	15%	Fixed-Object, Overturn Applicable Crashes			
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Ped. Countdown Signals - Upgrade from existing Pedestrian signal	25%	Pedestrian Crashes			
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Install Reflectorized Backplates	15%	All Applicable Crashes			
Add All-Red Clearance Interval - Add per ITE	20%	Head-On Left-Turn, Angle			
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Protected Left-Turn Signal Phase - Add	30%	Left-Turn			
Signal Head Size - Increase to 12 "	10%	All Applicable Crashes +			
Signal Optimization & Timing Updates	10%	All Applicable Crashes +			
Removing Night Flash from Signal Timing	50%	Nighttime Flash mode Related Crashes			

Intersection Geometric Enhancements					
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	50%	Head-On Left-Turn			
Center Left-Turn Lane - Construct	20%	Head-On, Angle, Other			
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Roundabout	57%	Minor Crash Reduction			
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		MDOT Lighting Guidance			
General Intersection Enhan		· · · · · · · · · · · · · · · · · · ·			
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Ground Mounted Flashing Beacons (Red)- Install **	30%	All Crashes On Install Approach			
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Pavement Markings - Improve/Upgrade	30%	Angle, Rear-End Crashes			
Reflective Sheeting on Sign Posts (Iollipops)	15%	All Applicable Crashes			

Project Name:	Huntly	Proposed Year:	2026
Agency:	Cass County Road Commission	Total Points:	10

Criteria	Points	
System Preservation	8 points max	
Most recent PASER rating		
2-3 and Previously applied for	5	
2-3 and not previously applied for	3	
4	3	2
5-6	1	
MDOT Geometric Guidelines		
4 R	3	
3R	2	2
PM	1	
Safety	5 points max	
a. Expected Crash Reduction - Based on MDOT approved Crash Reduction Factors		
Safety counter Measures	Up to 3	1
Addressing High Crash Locations.		
Number of crashes is 20% higher than MPO median	2	
Number of crashes are within 20% of MPO median	1	
Number of crashes is lower than 20% of the MPO median	0	0
Non-motorized Transportation / Complete Streets	5 points max	
Pedestrian and Cycling Facilities		0
Add facilities where none currently exist	3	
Improves upon existing facilities	2	
Currently has facilities but there are no improvements	1	
	0	0
Non-Motorized Connectivity	0	0

Criteria	Points	
Regional Connectivity	9 points max	
Average daily traffic (ADT) based on most recent traffic count		
ADT is 10,000 or more	5	
ADT is 5,000 – 9,999	4	
ADT is 2,000 – 4,999	3	3
ADT is less than 2,000	0	
Functional Classification of the Road		
Principal Arterial	3	
Minor Arterial	2	
Major Collector	1	1
Minor Collector	0	
Strategic Investment/ Project Planning	11 points max	
Identified In an Asset Management Plan	1	
There is an asset management plan covering other utilities along the limits of the project	1	
Agency staff have asset management training	1	1
Project identified in other planning document	1	
Project connects to a road with a PASER of 7 or higher	1	
Additional Local Match		
Agency will proved 40%+ Local Match	2	
Agency will proved 24-40% Local Match	1	
Note: An 18.15% local match is the minimum required		
Project Readiness (no points)	Yes	Y
	Yes	N

Total Score (out of 33)	10	
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Niles-Buchanan-Cass Area Transportation Study 2024-2026 Transportation Improvement Program (TIP) Federal Surface Transportation Block Grant Funds Project Application

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Section 1. Applicant Information					
Agency Name	Cass County Road Commission				
Contact Name	Joe Bellina		Title	Head Engineer	
Phone Number	269-445-8612	1	Email	jbellina@casscoroad.com	
Engineer/Consultant (If applicable)		Nick Mannon			
Phone Number	269-445-861	1	Email	nmannon@casscoroad.com	

Section 2. Project Information					
Project Name/Road Name	Huntly Road				
Project Limits (e.g. Napier Ave. to Britain Ave.)	Yankee Street(BR60) to Lake Street				
Project Length (nearest hundredth of a mile)	1.01 Proposed Year of Funding 2026				
Primary Work Type	□ Reconstruct □ Restore & Rehabilitate □ Roadside Facility ⊠ Resurface □ Traffic Operations/Safety □ Other				
Project Description (Please provide major work items including sidewalks, utility work, ADA upgrades etc.)	2.5" Cold Milling HMA Surface replace with 1.5" HMA,36A base course, 1" HMA,36A top course, Shoulder Class II and Pavement Marking				
Was this project applied for during the 2020-2023 Call for Projects but not selected	Yes 🕅 No				
Was this project awarded funding for the 2020-2023 TIP, but was either canceled or failed to be obligated	Yes No If yes, please explain:				
If you are submitting multiple app rank your applications by priority.	• •	Project Rank: 6			

Section 3. Project Funding	
Estimated STBG Participating Cost of the Project	\$ 271106.81
Minimum local match required - 18.15% of the Participating cost	\$ 49205.89
Can your agency supply additional match beyond the minimum required 18.15%. If so how much?	□ Yes ⊠ No Amount \$
Are there elements of the project that could be eligible for other federal fund sources such as CMAQ, TAP, Bridge etc.	Source: Amount: \$ Explanation:
Will the project have nonparticipating work, such as water, or sewer work?	amount: \$ Explain:
Does your agency have the financial capacity to Advance Construct (AC) all or part of this project if necessary? If yes, what is the maximum dollar amount your agency is willing to Advance Construct (AC)?	□ Yes ⊠ No Maximum Dollar Amount you can AC? \$

Section 4. Regional Connectivity	
What is the most current daily traffic count for the limits of this project?	AADT: 2673 Year of count: 2002 Source: CCRC
National Functional Classification (NFC) for this roadway	Major Collector

Section 5. System Preservation	
2021 PASER rating (Available 8-10-21)	5,4,3
Current state of drainage	 Adequate Minor and tolerable drainage problems Occasional drainage problems with some maintenance required Inadequate, frequent flooding, excessive maintenance required
Expected increase in Remaining Service life (RSL)	12 Use MDOT's <u>Guidelines for Geometrics on Local Projects</u>
What MDOT guidelines does the project conform to?	 Reconstruction (4R) Resurfacing, restoration, and Rehabilitation (3R) Preventative Maintenance (PM)

Section 6. Safety

Please list the number and severity of crashes within the proposed project limits over the last 5 yrs. (2016-2020) (see <u>Michigan Crash Facts</u> for crash data)					
Total Crashes	9		Pedestrian & Bicycle Crashes	1	
Fatalities	0		Serious Injuries	2	
Using the attached Crash Reduction Factors sheet, please check each safety counter measure that will be included in the project					
Describe any other safety improvements this project will provide			noulers where widths are 1'		

Section 7. Pedestrian and Bicycle Improvements				
Please explain what pedestrian and/or bicycle facilities if any currently exist				
Please explain any additional pedestrian and/or bicycle improvements included in the project.				
Does this project connect to an existing pedestrian/bicycle facility or one that is planned to be completed before 2027	Yes No If yes, please provide a map of the connecting facilities			

Section 8. Strategic Planning & Investment			
Is the project identified in an approved Asset Management Plan, or Capital Improvement Plan	Yes No If yes, please attach the plan.		
Is the project identified in another approved planning document such as a master plan or parks and recreation plan	Yes No If yes, please cite the plan and page number:		
Is there an approved asset management plan covering the utilities along the project's limits	Yes No List utilities covered by the asset management plan:		
Will this project coordinate with other infrastructure projects (i.e. utility, water, sewer, etc?)	Yes No If yes, please indicate the project type and construction year:		
How many water main breaks have you had at this location in the past five years?	None		
Is there a completed utilities assessment that includes televising the sewers in the project area?	Yes 🛛 No		
Do you have a maintenance strategy or Asset Management Plan covering non-motorized facilities?	🗌 Yes 🔀 No		
Has staff received Asset Management training through the Transportation Asset Management Council <u>https://www.michigan.gov/tamc/0,7308,7-356-82158-</u> ,00.html	⊠Yes □No		
Has your agency completed the Asset Management Readiness Scale from the Michigan Infrastructure Council (MIC)? <u>https://fcm.ca/en/resources/mamp/tool-asset-</u> <u>management-readiness-scale</u>	Yes No https://fcm.ca/en/resources/mamp/tool-asset- management-readiness-scale		
Does the project cross-jurisdictional boundaries?	🗌 Yes 🖾 No		
If yes, will it be bid as a single project?	Yes No NA		
Will this project require environmental mitigation, purchase of Right of Way (ROW), or railroad permits?	Yes No Not Sure If yes, which items are required:		
If any of the above items are required please explain how they will be addressed			
Does this project perform Resurfacing, Reconstruction, or Preventative Maintenance on a segment adjacent to a segment that currently has a PASER of 7 or higher	☐ Yes ⊠ No List the adjacent segments that qualify:		

Section 9. Existing and Proposed Roadway Design								
	Existing				Proposed			
Include the	Through	Center		On Street	Through	Center	On Street	
number of	Traffic Lanes	Turn Lar	ne	Parking	Traffic Lanes	Turn Lane	Parking	
vehicle lanes	2	0		🗆 Yes 🛛 No	2	0	🗆 Yes 🛛 No	
Shoulder	🛛 Paved		Wi	dth (ft.)	🛛 Paved		Width (ft.)	
Surface	Unpaved		24		Unpaved		28	
Sidewalk/ path	Placement		Wi	dth (ft.)	Placement		Width (ft.)	
information	🗌 One Side				🗌 One Side			
	🗌 🗌 Both Sides	;			Both Sides	5		
	Intermittent			🗌 Intermittent		nt		
	🔀 None				🔀 None			
On road bicycle	Bike Lane			ther (specify) Bike Lane Other		er (specify)		
facilities	Sharrows				Sharrows			
	🗌 🗌 Wide Shoulders 🛛] No	one	Wide Shoulders 🔀 None			
Utilities, Sewer	Utilities Up	grades No			Itilities			
and Water	Sewer and	water wo	ork needed					
					Sewer and	Water Line \	Work	
Please describe ar	ny improvemen	ts being						
made as part of this project to								
crosswalks, signage or signals, or								
streetscape elements not discussed in								
project description								
Does this project e				Yes 🛛 No				
of pedestrian or bicyclists to fixed route			lf y	es, how?				
or Dial-A-Ride transit?								

Section 10. Estimated Project Schedule	
Activity	Estimated Date
Resolution of Support for \Box Local Match Submitted to SWMPC	September 2025
Project Application Submitted to MOT	September 2025
Grade Inspection Package Submitted to MDOT	October 2025
Grade Inspection Meeting Scheduled	November 2025
Final Plan and Estimate to MDOT	December 2025
Right of Way (ROW) certified*	NA
Rail Road Permits*	NA
Environmental Mitigation*	NA
Project Obligated	January 2026
Project Letting	March 2026
Construction Start	May 2026
Project Completion	09/30/

	Proposed Improvement	% Reduction	Associated Crash Types			
	SEGMENT CRASH REDUCTION FACTORS					
	Geometric Safety Enhancements					
80% Rear-End Left-Turn						
_		50%	Head-On Left-Turn			
	Center Left-Turn Lane - Construct	20%	Head-On, Angle, Sideswipe*			
		15%	Non Left-Turn Rear-End, Other*			
		65%	Rear-End Right-Turn			
	Disht Turn Lange Construct	30%	Angle			
	Right-Turn Lane - Construct	15%	Rear-End			
		10%	Other*			
	Horizontal Curve Flattening	30%	Lane Departure***			
	Shoulders - Widen to Standard Width (add 1' each side)	5%	Lane Departure***			
	Shoulders - Widen to Standard Width (add 2' each side)	10%	Lane Departure***			
	Shoulders - Widen to Standard Width (add 3' each side)	15%	Lane Departure***			
	Shoulders - Widen to Standard Width (add 4' each side)	20%	Lane Departure***			
	Shoulders - Widen to Standard Width (add 5' each side)	25%	Lane Departure***			
	Shoulders - Widen to Standard Width (add 6' each side)	30%	Lane Departure***			
	Shoulders - Widen to Standard Width (add 7' each side)	35%	Lane Departure***			
	Vertical Curve Modification	20%	All Applicable Crash Types +++			
	General S	egment Enhanc	ements			
	Access Management - Improve	15%	Drive-way Related Applicable Crashes			
		44%	K and A injury Applicable Crashes			
	Contarlino Rumblo String Install	46%	Single Vehicle Run off Road Left Crashes			
	Centerline Rumble Strips - Install	43%	Sideswipe Same Crashes			
		55%	Sideswipe Opposite Crashes			
	High Fristian Surface Tractment Install	35%	Wet Crashes			
	High Friction Surface Treatment - Install	20%	All Other Applicable Crashes			
	Recessed Durable Pavement Markings	5%	All Applicable Crashes			
	Pedestrian Refuge - Install	50%	Pedestrian Crashes (Review NCHRP Report 841)			
	Road Diet (4-3 Lane Conversion) - Install	50%	Suburban - All Applicable Crashes			
	Shoulder Rumble Strips	20%	Run-Off the Road Right Crashes			
	Signing/Delineation on Horizontal Curves (Including Recessed Durable Pavement Markings) - Install	20%	Lane Departure***			
	Safety Edge Improvement	13%	All non-intersection crashes (CMF Clearing House ID 8658)			

	Roadside Enhancements					
	Bicycle Lanes - Install per standards	50%	Bicycle Crashes			
	Shared Use Path - Install	33%	Bicycle and Pedestrian Related Crashes			
	Fixed Objects From Clear zone (Trees, Culverts, Etc.) - Removal	75%	Fixed-Object Applicable Crashes			
	Guardrail - Install	55%	Lane Departure ***Fatalities and "A" Injury Applicable Crashes			
	Sidewalk for Pedestrians - Construct	85%	Pedestrian Crashes			
	Slope Flattening	15%	Fixed-Object, Overturn Applicable Crashes			
	Living Snow Fence	20%	Crashes due to wintry surface conditions			
	Lighting - install on segment	20%	Dark Unlighted Crashes			
	INTERSECTI	ON CRASH REDU	CTION FACTORS			
	Pedestri	an / Bicycle Enha	ancements			
	Bump Out / Curb Extension - Remove Parking / Install	30%	All Crashes			
	Bicycle Lanes - Install per standards	25%	Bicycle Crashes			
	Sidewalk for Pedestrians - Construct	85%	Pedestrian Crashes			
		75%	Pedestrian Fatal - Dark Unlighted Crashes			
	Intersection Lighting - install	40%	Pedestrian A-Injury - Dark Unlighted Crashes			
		30%	All Applicable Dark Unlighted Crashes			
	Rectangular Rapid Flashing Beacons		Pedestrian Crashes			
	Ped. Countdown Signals - Install new Pedestrian signal	30%	Pedestrian Crashes			
	Ped. Countdown Signals - Upgrade from existing Pedestrian signal	25%	Pedestrian Crashes			
	Signal Timing / Hardware Enhancements					
	Multiple Low-Cost Improvements	3%	Rear-End			
		12%	Right-Angle			
		3%	Nighttime			
	Install Reflectorized Backplates	15%	All Applicable Crashes			
	Add All-Red Clearance Interval - Add per ITE	20%	Head-On Left-Turn, Angle			
	Yellow-Change Interval - Increase	10%	All Crash Types			
		65%	Angle			
	Box Span Signal - Upgrade from Stop Control	-25%	Rear-End (Increases Crashes)			
		20%	All Other Non Rear-End Crashes			
	Box Span Signal - Upgrade from Diagonal Span	10%	All Applicable Crashes+			
	Protected Left-Turn Signal Phase - Add	30%	Left-Turn			
	Signal Head Size - Increase to 12 "	10%	All Applicable Crashes +			
	Signal Optimization & Timing Updates	10%	All Applicable Crashes +			
	Removing Night Flash from Signal Timing	50%	Nighttime Flash mode Related Crashes			

	Intersection Geometric Enhancements				
			Rear-End Left-Turn		
	Center Left-Turn Lane - Construct	50%	Head-On Left-Turn		
		20%	Head-On, Angle, Other		
		15%	Non Left-Turn Rear-End		
		30%	Angle		
	Intersection Improvements (Realignment, Sight-Distance Improvements, Radii Improvements, Etc.)	15%	Rear-End		
	Raun improvements, etc.)	10%	Head-On, Sideswipe, Pedestrian, Bicycle, Left-Turn Related		
	Offset Left-Turn Lane - Construct	65%	Angle-Turn, Head-On Left-Turn		
	Offset Left-Turn Lane - Construct	20%	Rear-End Left-Turn		
		65%	Angle-Turn		
	Offset Right-Turn Lane - Construct	50%	Other Applicable Crashes		
		20%	Rear-End Right Turn		
	Diaba Turn Long Construct	65%	Rear-End Right-Turn		
Right-Turn Lane - Constru	Right-Turn Lane - Construct	20%	Applicable Rear-End Crashes, Sideswipe Same Direction		
	Roundabout	78%	Fatal and A-Injury Reduction		
	Roundabout	57%	Minor Crash Reduction		
	Lighting	_	See MDOT Interchange Warranted Lighting Guidance and overall		
			MDOT Lighting Guidance		
	General Intersection Enhan				
	All-Way Stop Control - New Installation	60%	All Applicable Crashes		
	Ground Mounted Flashing Beacons (Red)- Install **	30%	All Crashes On Install Approach		
	Ground Mounted Flashing Beacons(Amber) - Install **	20%	All Crashes On Install Approach		
	Signing - Improve/Upgrade	30%	Angle, Rear-End Crashes		
	Pavement Markings - Improve/Upgrade	30%	Angle, Rear-End Crashes		
	Reflective Sheeting on Sign Posts (Iollipops)	15%	All Applicable Crashes		

Project Name:	Ironwood	Proposed Year:	2025
Agency:	Cass County Road Commission	Total Points:	7

Criteria	Points	
System Preservation	8 points max	
Most recent PASER rating		
2-3 and Previously applied for	5	
2-3 and not previously applied for	3	
4	3	
5-6	1	1
MDOT Geometric Guidelines		
4 R	3	
3R	2	
PM	1	1
Safety	5 points max	
a. Expected Crash Reduction - Based on MDOT approved Crash Reduction Factors		
Safety counter Measures	Up to 3	0
Addressing High Crash Locations.		
Number of crashes is 20% higher than MPO median	2	
Number of crashes are within 20% of MPO median	1	
Number of crashes is lower than 20% of the MPO median	0	0
Non-motorized Transportation / Complete Streets	5 points max	
Pedestrian and Cycling Facilities		0
Add facilities where none currently exist	3	
Improves upon existing facilities	2	
Currently has facilities but there are no improvements	1	
Non-Motorized Connectivity	0	0
· · · · · · · · · · · · · · · · · · ·		

Criteria	Points	
Regional Connectivity	9 points max	
Average daily traffic (ADT) based on most recent traffic count		
ADT is 10,000 or more	5	
ADT is 5,000 – 9,999	4	
ADT is 2,000 – 4,999	3	3
ADT is less than 2,000	0	
Functional Classification of the Road		
Principal Arterial	3	
Minor Arterial	2	
Major Collector	1	1
Minor Collector	0	
Strategic Investment/ Project Planning	11 points max	
Identified In an Asset Management Plan	1	
There is an asset management plan covering other utilities along the limits of the project	1	
Agency staff have asset management training	1	1
Project identified in other planning document	1	
Project connects to a road with a PASER of 7 or higher	1	
Additional Local Match		
Agency will proved 40%+ Local Match	2	
Agency will proved 24-40% Local Match	1	
Note: An 18.15% local match is the minimum required		
Project Readiness (no points)	Yes	Y
Coordination with sewer or other infrastructure (no points)	Yes	N

Total Score (out of 33)	7	
	,	

Niles-Buchanan-Cass Area Transportation Study 2024-2026 Transportation Improvement Program (TIP) Federal Surface Transportation Block Grant Funds Project Application

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Section 1. Applicant Information				
Agency Name	Cass County Road Commission			
Contact Name	Joe Bellina		Title	Head Engineer
Phone Number	269-445-8611		Email	jbellina@casscoroad.com
Engineer/Consultant (If applicable) Nick Mann		Nick Mannon		
Phone Number	269-445-8611		Email	nmannon@casscoroad.com

Section 2. Project Information				
Project Name/Road Name	Ironwood Drive			
Project Limits (e.g. Napier Ave. to Britain Ave.)	Redfield Street to Bell Road			
Project Length (nearest hundredth of a mile)	1.76 Proposed Year of Funding 2025			
Primary Work Type	 □ Reconstruct □ Restore & Rehabilitate □ Roadside Facility ☑ Resurface □ Traffic Operations/Safety □ Other 			
Project Description (Please provide major work items including sidewalks, utility work, ADA upgrades etc.)	1.5" HMA,36A top course overlay, Shoulder Class II and Pavement Marking			
Was this project applied for during the 2020-2023 Call for Projects but not selected	ll for			
Was this project awarded funding for the 2020-2023 TIP, but was either canceled or failed to be obligated	Yes No If yes, please explain:			
If you are submitting multiple applications, please rank your applications by priority.		Project Rank: 5		

Section 3. Project Funding	
Estimated STBG Participating Cost of the Project	\$ 264434.40
Minimum local match required - 18.15% of the Participating cost	\$ 47994.84
Can your agency supply additional match beyond the minimum required 18.15%. If so how much?	□ Yes ⊠ No Amount \$
Are there elements of the project that could be eligible for other federal fund sources such as CMAQ, TAP, Bridge etc.	Source: Amount: \$ Explanation:
Will the project have nonparticipating work, such as water, or sewer work?	amount: \$ Explain:
Does your agency have the financial capacity to Advance Construct (AC) all or part of this project if necessary? If yes, what is the maximum dollar amount your agency is willing to Advance Construct (AC)?	□ Yes ⊠ No Maximum Dollar Amount you can AC? \$

Section 4. Regional Connectivity	
What is the most current daily traffic count for the limits of this project?	AADT: 4124 Year of count: 2019 Source: CCRC
National Functional Classification (NFC) for this roadway	Minor Arterial

Section 5. System Preservation			
2021 PASER rating (Available 8-10-21)	6		
Current state of drainage	 Adequate Minor and tolerable drainage problems Occasional drainage problems with some maintenance required Inadequate, frequent flooding, excessive maintenance required 		
Expected increase in Remaining Service life (RSL)	7 Use MDOT's <u>Guidelines for Geometrics on Local Projects</u>		
What MDOT guidelines does the project conform to?	 Reconstruction (4R) Resurfacing, restoration, and Rehabilitation (3R) Preventative Maintenance (PM) 		

Section 6. Safety Please list the number and severity of crashes within the proposed project limits over the last 5 yrs. (2016-2020) (see Michigan Crash Facts for crash data) **Total Crashes** Pedestrian & Bicycle 39 1 Crashes Fatalities Serious Injuries 0 0 Using the attached Crash Reduction Factors sheet, please check each safety counter measure that will be included in the project Describe any other safety improvements this project will provide

Section 7. Pedestrian and Bicycle Improvements				
Please explain what pedestrian and/or bicycle facilities if any currently exist				
Please explain any additional pedestrian and/or bicycle improvements included in the project.				
Does this project connect to an existing pedestrian/bicycle facility or one that is planned to be completed before 2027	Yes No If yes, please provide a map of the connecting facilities			

Section 8. Strategic Planning & Investment	
Is the project identified in an approved Asset Management Plan, or Capital Improvement Plan	Yes No If yes, please attach the plan.
Is the project identified in another approved planning document such as a master plan or parks and recreation plan	☐Yes ⊠No If yes, please cite the plan and page number:
Is there an approved asset management plan covering the utilities along the project's limits	Yes No List utilities covered by the asset management plan:
Will this project coordinate with other infrastructure projects (i.e. utility, water, sewer, etc?)	Yes No If yes, please indicate the project type and construction year:
How many water main breaks have you had at this location in the past five years?	None
Is there a completed utilities assessment that includes televising the sewers in the project area?	Yes 🛛 No
Do you have a maintenance strategy or Asset Management Plan covering non-motorized facilities?	🗌 Yes 🔀 No
Has staff received Asset Management training through the Transportation Asset Management Council <u>https://www.michigan.gov/tamc/0,7308,7-356-82158-</u> ,00.html	⊠Yes □No
Has your agency completed the Asset Management Readiness Scale from the Michigan Infrastructure Council (MIC)? <u>https://fcm.ca/en/resources/mamp/tool-asset-</u> <u>management-readiness-scale</u>	Yes No https://fcm.ca/en/resources/mamp/tool-asset- management-readiness-scale
Does the project cross-jurisdictional boundaries?	🗌 Yes 🖾 No
If yes, will it be bid as a single project?	Yes No 🛛 NA
Will this project require environmental mitigation, purchase of Right of Way (ROW), or railroad permits?	Yes No Not Sure If yes, which items are required:
If any of the above items are required please explain how they will be addressed	
Does this project perform Resurfacing, Reconstruction, or Preventative Maintenance on a segment adjacent to a segment that currently has a PASER of 7 or higher	Yes X No List the adjacent segments that qualify:

Section 9. Existing and Proposed Roadway Design								
	Existing				Proposed			
Include the	Through	Center		On Street	Through	Center	On Street	
number of	Traffic Lanes	Turn Lar	ne	Parking	Traffic Lanes	Turn Lane	Parking	
vehicle lanes	2	0		🗆 Yes 🛛 No	2	0	🗆 Yes 🛛 No	
Shoulder	🛛 Paved		Wi	dth (ft.)	🛛 Paved		Width (ft.)	
Surface	Unpaved		2		Unpaved		2	
Sidewalk/ path	Placement		Wi	dth (ft.)	Placement		Width (ft.)	
information	🗌 One Side				🗌 One Side			
	🗌 🗌 Both Sides	;			Both Sides	5		
	🗌 🗌 Intermitte	nt	🗌 Intermitten		nt			
	🔀 None		🖂 None					
On road bicycle	On road bicycle 🔄 Bike Lane			Other (specify) 🛛 🗌 Bike Lane 🗌 Other (specify)			er (specify)	
facilities	Sharrows			Sharrows			-	
	Wide Shoulders			one	🔄 Wide Shoulders 🛛 None			
Utilities, Sewer Utilities Upgrades N								
and Water Sewer and water we			ork n			tilities		
					Sewer and	Water Line \	Nork	
Please describe any improvements being								
made as part of th	nis project to							
crosswalks, signage or signals, or								
streetscape elements not discussed in								
project description	n							
Does this project e	enhance conne	ctivity		Yes 🛛 No				
of pedestrian or bicyclists to fixed route			lf y	es, how?				
or Dial-A-Ride trar	or Dial-A-Ride transit?							

Section 10. Estimated Project Schedule	
Activity	Estimated Date
Resolution of Support for \Box Local Match Submitted to SWMPC	September 2024
Project Application Submitted to MOT	September 2024
Grade Inspection Package Submitted to MDOT	October 2024
Grade Inspection Meeting Scheduled	November 2024
Final Plan and Estimate to MDOT	December 2024
Right of Way (ROW) certified*	NA
Rail Road Permits*	NA
Environmental Mitigation*	NA
Project Obligated	January 2025
Project Letting	March 2025
Construction Start	May 2025
Project Completion	09/30/2025

Proposed Improvement	% Reduction	Associated Crash Types
SEGMENT C	RASH REDUCTIO	ON FACTORS
Geometri	c Safety Enhanc	ements
	80%	Rear-End Left-Turn
	50%	Head-On Left-Turn
Center Left-Turn Lane - Construct	20%	Head-On, Angle, Sideswipe*
	15%	Non Left-Turn Rear-End, Other*
	65%	Rear-End Right-Turn
	30%	Angle
Right-Turn Lane - Construct	15%	Rear-End
	10%	Other*
Horizontal Curve Flattening	30%	Lane Departure***
Shoulders - Widen to Standard Width (add 1' each side)	5%	Lane Departure***
Shoulders - Widen to Standard Width (add 2' each side)	10%	Lane Departure***
Shoulders - Widen to Standard Width (add 3' each side)	15%	Lane Departure***
Shoulders - Widen to Standard Width (add 4' each side)	20%	Lane Departure***
Shoulders - Widen to Standard Width (add 5' each side)	25%	Lane Departure***
Shoulders - Widen to Standard Width (add 6' each side)	30%	Lane Departure***
Shoulders - Widen to Standard Width (add 7' each side)	35%	Lane Departure***
Vertical Curve Modification	20%	All Applicable Crash Types +++
General S	egment Enhanc	ements
Access Management - Improve	15%	Drive-way Related Applicable Crashes
	44%	K and A injury Applicable Crashes
Centerline Rumble Strips - Install	46%	Single Vehicle Run off Road Left Crashes
	43%	Sideswipe Same Crashes
	55%	Sideswipe Opposite Crashes
High Friction Surface Treatment - Install	35%	Wet Crashes
ngi ricton surace rieatment - instan	20%	All Other Applicable Crashes
Recessed Durable Pavement Markings	5%	All Applicable Crashes
Pedestrian Refuge - Install	50%	Pedestrian Crashes (Review NCHRP Report 841)
Road Diet (4-3 Lane Conversion) - Install	50%	Suburban - All Applicable Crashes
Shoulder Rumble Strips	20%	Run-Off the Road Right Crashes
Signing/Delineation on Horizontal Curves (Including Recessed Durable Pavement Markings) - Install	20%	Lane Departure***
Safety Edge Improvement	13%	All non-intersection crashes (CMF Clearing House ID 8658)

Roadside Enhancements						
Bicycle Lanes - Install per standards	50%	Bicycle Crashes				
Shared Use Path - Install	33%	Bicycle and Pedestrian Related Crashes				
Fixed Objects From Clear zone (Trees, Culverts, Etc.) - Removal	75%	Fixed-Object Applicable Crashes				
Guardrail - Install	55%	Lane Departure ***Fatalities and "A" Injury Applicable Crashes				
Sidewalk for Pedestrians - Construct	85%	Pedestrian Crashes				
Slope Flattening	15%	Fixed-Object, Overturn Applicable Crashes				
Living Snow Fence	20%	Crashes due to wintry surface conditions				
Lighting - install on segment	20%	Dark Unlighted Crashes				
INTERSECTI	ON CRASH REDU	CTION FACTORS				
 Pedestri	an / Bicycle Enha	ancements				
Bump Out / Curb Extension - Remove Parking / Install	30%	All Crashes				
Bicycle Lanes - Install per standards	25%	Bicycle Crashes				
Sidewalk for Pedestrians - Construct	85%	Pedestrian Crashes				
	75%	Pedestrian Fatal - Dark Unlighted Crashes				
Intersection Lighting - install	40%	Pedestrian A-Injury - Dark Unlighted Crashes				
	30%	All Applicable Dark Unlighted Crashes				
Rectangular Rapid Flashing Beacons	47%	Pedestrian Crashes				
Ped. Countdown Signals - Install new Pedestrian signal	30%	Pedestrian Crashes				
Ped. Countdown Signals - Upgrade from existing Pedestrian signal	25%	Pedestrian Crashes				
Signal Timing / Hardware Enhancements						
	3%	Rear-End				
Multiple Low-Cost Improvements	12%	Right-Angle				
		Nighttime				
Install Reflectorized Backplates	15%	All Applicable Crashes				
Add All-Red Clearance Interval - Add per ITE	20%	Head-On Left-Turn, Angle				
Yellow-Change Interval - Increase	10%	All Crash Types				
	65%	Angle				
Box Span Signal - Upgrade from Stop Control	-25%	Rear-End (Increases Crashes)				
	20%	All Other Non Rear-End Crashes				
Box Span Signal - Upgrade from Diagonal Span	10%	All Applicable Crashes+				
Protected Left-Turn Signal Phase - Add	30%	Left-Turn				
Signal Head Size - Increase to 12 "	10%	All Applicable Crashes +				
Signal Optimization & Timing Updates	10%	All Applicable Crashes +				
Removing Night Flash from Signal Timing	50%	Nighttime Flash mode Related Crashes				

	Intersection Geometric Enhancements					
		80%	Rear-End Left-Turn			
		50%	Head-On Left-Turn			
	Center Left-Turn Lane - Construct	20%	Head-On, Angle, Other			
		15%	Non Left-Turn Rear-End			
		30%	Angle			
		15%	Rear-End			
	Radii iniprovements, Etc.)	10%	Head-On, Sideswipe, Pedestrian, Bicycle, Left-Turn Related			
	Offeet Left Turn Lene Construct	65%	Angle-Turn, Head-On Left-Turn			
	Offset Left-Turn Lane - Construct	20%	Rear-End Left-Turn			
	Offset Right-Turn Lane - Construct	65%	Angle-Turn			
		50%	Other Applicable Crashes			
		20%	Rear-End Right Turn			
	Bielet Turn Long Construct	65%	Rear-End Right-Turn			
	Right-Turn Lane - Construct	20%	Applicable Rear-End Crashes, Sideswipe Same Direction			
	Dourdehout	78%	Fatal and A-Injury Reduction			
	Roundabout		Minor Crash Reduction			
	Lighting	_	See MDOT Interchange Warranted Lighting Guidance and overall			
			MDOT Lighting Guidance			
	General Intersection Enhan		· · · · · · · · · · · · · · · · · · ·			
	All-Way Stop Control - New Installation	60%	All Applicable Crashes			
	Ground Mounted Flashing Beacons (Red)- Install **	30%	All Crashes On Install Approach			
	Ground Mounted Flashing Beacons(Amber) - Install **	20%	All Crashes On Install Approach			
	Signing - Improve/Upgrade	30%	Angle, Rear-End Crashes			
	Pavement Markings - Improve/Upgrade	30%	Angle, Rear-End Crashes			
	Reflective Sheeting on Sign Posts (Iollipops)	15%	All Applicable Crashes			

Project Name: Redfield from Elkhart to Ebersole		Proposed Year:	2026
Agency:	Cass County Road Commission	Total Points:	9

Criteria	Points	
System Preservation	8 points max	
Most recent PASER rating		
2-3 and Previously applied for	5	
2-3 and not previously applied for	3	3
4	3	
5-6	1	
MDOT Geometric Guidelines		
4 R	3	
3R	2	
PM	1	1
Safety	5 points max	
a. Expected Crash Reduction - Based on MDOT approved Crash Reduction Factors		
Safety counter Measures	Up to 3	0
Addressing High Crash Locations.		
Number of crashes is 20% higher than MPO median	2	
Number of crashes are within 20% of MPO median	1	
Number of crashes is lower than 20% of the MPO median	0	0
Non-motorized Transportation / Complete Streets	5 points max	
Pedestrian and Cycling Facilities		0
Add facilities where none currently exist	3	
Improves upon existing facilities	2	
Currently has facilities but there are no improvements	1	
Non-Motorized Connectivity	0	0
Any added ped/bike facilities connect to other ped/bike facilities	2	

Criteria	Points	
Regional Connectivity	9 points max	
Average daily traffic (ADT) based on most recent traffic count		
ADT is 10,000 or more	5	
ADT is 5,000 – 9,999	4	
ADT is 2,000 – 4,999	3	3
ADT is less than 2,000	0	
Functional Classification of the Road		
Principal Arterial	3	
Minor Arterial	2	
Major Collector	1	1
Minor Collector	0	
Strategic Investment/ Project Planning	11 points max	
Identified In an Asset Management Plan	1	
There is an asset management plan covering other utilities along the limits of the project	1	
Agency staff have asset management training	1	1
Project identified in other planning document	1	
Project connects to a road with a PASER of 7 or higher	1	
Additional Local Match		
Agency will proved 40%+ Local Match	2	
Agency will proved 24-40% Local Match	1	
Note: An 18.15% local match is the minimum required		
Project Readiness (no points)	Yes	Y
Coordination with sewer or other infrastructure (no points)	Yes	N

Niles-Buchanan-Cass Area Transportation Study 2024-2026 Transportation Improvement Program (TIP) Federal Surface Transportation Block Grant Funds Project Application

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Section 1. Applicant Information					
Agency Name	Cass County Road Commission				
Contact Name	Joe Bellina		Title	Head Engineer	
Phone Number	269-445-8611		Email	jbellina@casscoroad.com	
Engineer/Consultant (If applicable)	Nick Mannon				
Phone Number	269-445-8611		Email	nmannon@casscoroad.com	

Section 2. Project Information					
Project Name/Road Name	Redfield Street				
Project Limits (e.g. Napier Ave. to Britain Ave.)	Elkhart Road to Ebersole Road				
Project Length (nearest hundredth of a mile)	1.34	Proposed Year of Funding	2026		
Primary Work Type	 □ Reconstruct □ Restore & Rehabilitate □ Roadside Facility ☑ Resurface □ Traffic Operations/Safety □ Other 				
Project Description (Please provide major work items including sidewalks, utility work, ADA upgrades etc.)	1.5" HMA,36A top course overlay, Shoulder Class II and Pavement Marking				
Was this project applied for during the 2020-2023 Call for Projects but not selected	Yes 🕅 No				
Was this project awarded funding for the 2020-2023 TIP, but was either canceled or failed to be obligated	Yes No If yes, please explain:				
If you are submitting multiple applications, please rank your applications by priority.		Project Rank: 8			

Section 3. Project Funding	
Estimated STBG Participating Cost of the Project	\$ 207370.66
Minimum local match required - 18.15% of the Participating cost	\$ 34949.36
Can your agency supply additional match beyond the minimum required 18.15%. If so how much?	□ Yes ⊠ No Amount \$
Are there elements of the project that could be eligible for other federal fund sources such as CMAQ, TAP, Bridge etc.	Source: Amount: \$ Explanation:
Will the project have nonparticipating work, such as water, or sewer work?	amount: \$ Explain:
Does your agency have the financial capacity to Advance Construct (AC) all or part of this project if necessary? If yes, what is the maximum dollar amount your agency is willing to Advance Construct (AC)?	□ Yes ⊠ No Maximum Dollar Amount you can AC? \$

Section 4. Regional Connectivity	
What is the most current daily traffic count for the limits of this project?	AADT: 2946 Year of count: 2019 Source: CCRC
National Functional Classification (NFC) for this roadway	Major Collecter

Section 5. System Preservation	
2021 PASER rating (Available 8-10-21)	4
Current state of drainage	 Adequate Minor and tolerable drainage problems Occasional drainage problems with some maintenance required Inadequate, frequent flooding, excessive maintenance required
Expected increase in Remaining Service life (RSL)	7 Use MDOT's <u>Guidelines for Geometrics on Local Projects</u>
What MDOT guidelines does the project conform to?	 Reconstruction (4R) Resurfacing, restoration, and Rehabilitation (3R) Preventative Maintenance (PM)

Section 6. Safety Please list the number and severity of crashes within the proposed project limits over the last 5 yrs. (2016-2020) (see Michigan Crash Facts for crash data) **Total Crashes** Pedestrian & Bicycle 16 0 Crashes Fatalities Serious Injuries 0 0 Using the attached Crash Reduction Factors sheet, please check each safety counter measure that will be included in the project Describe any other safety improvements this project will provide

Section 7. Pedestrian and Bicycle Improvements				
Please explain what pedestrian and/or bicycle facilities if any currently exist				
Please explain any additional pedestrian and/or bicycle improvements included in the project.				
Does this project connect to an existing pedestrian/bicycle facility or one that is planned to be completed before 2027	Yes No If yes, please provide a map of the connecting facilities			

Section 8. Strategic Planning & Investment	
Is the project identified in an approved Asset Management Plan, or Capital Improvement Plan	Yes 🕅 No If yes, please attach the plan.
Is the project identified in another approved planning document such as a master plan or parks and recreation plan	Yes No If yes, please cite the plan and page number:
Is there an approved asset management plan covering the utilities along the project's limits	☐Yes ⊠No List utilities covered by the asset management plan:
Will this project coordinate with other infrastructure projects (i.e. utility, water, sewer, etc?)	Yes X No If yes, please indicate the project type and construction year:
How many water main breaks have you had at this location in the past five years?	None
Is there a completed utilities assessment that includes televising the sewers in the project area?	Yes 🛛 No
Do you have a maintenance strategy or Asset Management Plan covering non-motorized facilities?	Yes 🔀 No
Has staff received Asset Management training through the Transportation Asset Management Council <u>https://www.michigan.gov/tamc/0,7308,7-356-82158-</u> ,00.html	⊠Yes □No
Has your agency completed the Asset Management Readiness Scale from the Michigan Infrastructure Council (MIC)? <u>https://fcm.ca/en/resources/mamp/tool-asset-</u> <u>management-readiness-scale</u>	Yes No https://fcm.ca/en/resources/mamp/tool-asset- management-readiness-scale
Does the project cross-jurisdictional boundaries?	Yes 🛛 No
If yes, will it be bid as a single project?	Yes No 🛛 NA
Will this project require environmental mitigation, purchase of Right of Way (ROW), or railroad permits?	Yes No Not Sure If yes, which items are required:
If any of the above items are required please explain how they will be addressed	
Does this project perform Resurfacing, Reconstruction, or Preventative Maintenance on a segment adjacent to a segment that currently has a PASER of 7 or higher	Yes X No List the adjacent segments that qualify:

Section 9. Existing and Proposed Roadway Design							
	Existing				Proposed		
Include the	Through	Center		On Street	Through	Center	On Street
number of	Traffic Lanes	Turn Lar	ne	Parking	Traffic Lanes	Turn Lane	Parking
vehicle lanes	2	0		🗆 Yes 🛛 No	2	0	🗆 Yes 🛛 No
Shoulder	🔀 Paved		Width (ft.)		🔀 Paved		Width (ft.)
Surface	🗌 Unpaved		2		🗌 🗌 Unpaved		2
Sidewalk/ path	Placement		Wi	dth (ft.)	Placement		Width (ft.)
information	🗌 One Side				🔄 One Side		
	Both Sides	;			Both Sides	;	
	🗌 Intermittent				Intermittent		
	🛛 None				None		
On road bicycle	Bike Lane			r (specify)	Bike Lane Other (specify)		er (specify)
facilities	Sharrows		_		Sharrows		
	Wide Shoulders 🛛 None		one	🦳 🔄 Wide Shou	ulders 🖂 N	one	
Utilities, Sewer	Utilities Upgrades Needed				Replace Utilities		
and Water	Sewer and water work r		ork n	eeded	Relocate U		
					Sewer and Water Line Work		
Please describe any improvements being							
made as part of this project to							
crosswalks, signage or signals, or							
streetscape elements not discussed in							
project description							
Does this project e				Yes 🖄 No			
of pedestrian or bicyclists to fixed route			lf y	es, how?			
or Dial-A-Ride tran	or Dial-A-Ride transit?						

Section 10. Estimated Project Schedule	
Activity	Estimated Date
Resolution of Support for \square Local Match Submitted to SWMPC	September 2025
Project Application Submitted to MOT	September 2025
Grade Inspection Package Submitted to MDOT	October 2025
Grade Inspection Meeting Scheduled	Novemeber 2025
Final Plan and Estimate to MDOT	December 2025
Right of Way (ROW) certified*	NA
Rail Road Permits*	NA
Environmental Mitigation*	NA
Project Obligated	January 2026
Project Letting	March 2026
Construction Start	May 2026
Project Completion	09/30/2026

*Enter NA if these items will not be required.

NATS 2024-2026 Surface Transportation Block Grant Project Application

Proposed Improvement	% Reduction	Associated Crash Types				
SEGMENT CRASH REDUCTION FACTORS						
Geometric Safety Enhancements						
	80%	Rear-End Left-Turn				
	50%	Head-On Left-Turn				
Center Left-Turn Lane - Construct	20%	Head-On, Angle, Sideswipe*				
	15%	Non Left-Turn Rear-End, Other*				
	65%	Rear-End Right-Turn				
	30%	Angle				
Right-Turn Lane - Construct	15%	Rear-End				
	10%	Other*				
Horizontal Curve Flattening	30%	Lane Departure***				
Shoulders - Widen to Standard Width (add 1' each side)	5%	Lane Departure***				
Shoulders - Widen to Standard Width (add 2' each side)	10%	Lane Departure***				
Shoulders - Widen to Standard Width (add 3' each side)	15%	Lane Departure***				
Shoulders - Widen to Standard Width (add 4' each side)	20%	Lane Departure***				
Shoulders - Widen to Standard Width (add 5' each side)	25%	Lane Departure***				
Shoulders - Widen to Standard Width (add 6' each side)	30%	Lane Departure***				
Shoulders - Widen to Standard Width (add 7' each side)	35%	Lane Departure***				
Vertical Curve Modification	20%	All Applicable Crash Types +++				
General Segment Enhancements						
Access Management - Improve	15%	Drive-way Related Applicable Crashes				
	44%	K and A injury Applicable Crashes				
Centerline Rumble Strips - Install	46%	Single Vehicle Run off Road Left Crashes				
	43%	Sideswipe Same Crashes				
	55%	Sideswipe Opposite Crashes				
High Friction Surface Treatment - Install	35%	Wet Crashes				
ngi riction surface meatment - mstun	20%	All Other Applicable Crashes				
Recessed Durable Pavement Markings	5%	All Applicable Crashes				
Pedestrian Refuge - Install	50%	Pedestrian Crashes (Review NCHRP Report 841)				
Road Diet (4-3 Lane Conversion) - Install	50%	Suburban - All Applicable Crashes				
Shoulder Rumble Strips	20%	Run-Off the Road Right Crashes				
Signing/Delineation on Horizontal Curves (Including Recessed Durable Pavement Markings) - Install	20%	Lane Departure***				
Safety Edge Improvement	13%	All non-intersection crashes (CMF Clearing House ID 8658)				

	Roadside Enhancements					
	Bicycle Lanes - Install per standards	50%	Bicycle Crashes			
	Shared Use Path - Install	33%	Bicycle and Pedestrian Related Crashes			
	Fixed Objects From Clear zone (Trees, Culverts, Etc.) - Removal	75%	Fixed-Object Applicable Crashes			
	Guardrail - Install	55%	Lane Departure ***Fatalities and "A" Injury Applicable Crashes			
	Sidewalk for Pedestrians - Construct	85%	Pedestrian Crashes			
	Slope Flattening	15%	Fixed-Object, Overturn Applicable Crashes			
	Living Snow Fence	20%	Crashes due to wintry surface conditions			
	Lighting - install on segment	20%	Dark Unlighted Crashes			
	INTERSECTI	ON CRASH REDU	CTION FACTORS			
	Pedestri	an / Bicycle Enha	ancements			
	Bump Out / Curb Extension - Remove Parking / Install	30%	All Crashes			
	Bicycle Lanes - Install per standards	25%	Bicycle Crashes			
	Sidewalk for Pedestrians - Construct	85%	Pedestrian Crashes			
		75%	Pedestrian Fatal - Dark Unlighted Crashes			
	Intersection Lighting - install	40%	Pedestrian A-Injury - Dark Unlighted Crashes			
		30%	All Applicable Dark Unlighted Crashes			
	Rectangular Rapid Flashing Beacons		Pedestrian Crashes			
	Ped. Countdown Signals - Install new Pedestrian signal	30%	Pedestrian Crashes			
	Ped. Countdown Signals - Upgrade from existing Pedestrian signal	25%	Pedestrian Crashes			
	Signal Timing / Hardware Enhancements					
	Multiple Low-Cost Improvements	3%	Rear-End			
		12%	Right-Angle			
		3%	Nighttime			
	Install Reflectorized Backplates	15%	All Applicable Crashes			
	Add All-Red Clearance Interval - Add per ITE	20%	Head-On Left-Turn, Angle			
	Yellow-Change Interval - Increase	10%	All Crash Types			
		65%	Angle			
	Box Span Signal - Upgrade from Stop Control	-25%	Rear-End (Increases Crashes)			
		20%	All Other Non Rear-End Crashes			
	Box Span Signal - Upgrade from Diagonal Span	10%	All Applicable Crashes+			
	Protected Left-Turn Signal Phase - Add	30%	Left-Turn			
	Signal Head Size - Increase to 12 "	10%	All Applicable Crashes +			
	Signal Optimization & Timing Updates	10%	All Applicable Crashes +			
	Removing Night Flash from Signal Timing	50%	Nighttime Flash mode Related Crashes			

	Intersection Geometric Enhancements				
			Rear-End Left-Turn		
	Center Left-Turn Lane - Construct	50%	Head-On Left-Turn		
		20%	Head-On, Angle, Other		
		15%	Non Left-Turn Rear-End		
		30%	Angle		
	Intersection Improvements (Realignment, Sight-Distance Improvements, Radii Improvements, Etc.)	15%	Rear-End		
	Radii iniprovements, Etc.)	10%	Head-On, Sideswipe, Pedestrian, Bicycle, Left-Turn Related		
	Offeet Left Turn Lene Construct	65%	Angle-Turn, Head-On Left-Turn		
	Offset Left-Turn Lane - Construct	20%	Rear-End Left-Turn		
	Offset Right-Turn Lane - Construct	65%	Angle-Turn		
		50%	Other Applicable Crashes		
		20%	Rear-End Right Turn		
	Bielet Turn Long Construct	65%	Rear-End Right-Turn		
	Right-Turn Lane - Construct	20%	Applicable Rear-End Crashes, Sideswipe Same Direction		
		78%	Fatal and A-Injury Reduction		
	Roundabout	57%	Minor Crash Reduction		
	Lighting	_	See MDOT Interchange Warranted Lighting Guidance and overall		
		-	MDOT Lighting Guidance		
	General Intersection Enhan		· · · · · · · · · · · · · · · · · · ·		
	All-Way Stop Control - New Installation	60%	All Applicable Crashes		
	Ground Mounted Flashing Beacons (Red)- Install **	30%	All Crashes On Install Approach		
	Ground Mounted Flashing Beacons(Amber) - Install **	20%	All Crashes On Install Approach		
	Signing - Improve/Upgrade	30%	Angle, Rear-End Crashes		
	Pavement Markings - Improve/Upgrade	30%	Angle, Rear-End Crashes		
	Reflective Sheeting on Sign Posts (Iollipops)	15%	All Applicable Crashes		

NATS 2024-2026 Road Project Scoring System

Project Name:	Redfield from Ebersole to Adamsville	Proposed Year:	2026
Agency:	Cass County Road Commission	Total Points:	9

Criteria	Points	
System Preservation	8 points max	
Most recent PASER rating		
2-3 and Previously applied for	5	
2-3 and not previously applied for	3	3
4	3	
5-6	1	
MDOT Geometric Guidelines		
4 R	3	
3R	2	
PM	1	1
Safety	5 points max	
a. Expected Crash Reduction - Based on MDOT approved Crash Reduction Factors		
Safety counter Measures	Up to 3	0
Addressing High Crash Locations.		
Number of crashes is 20% higher than MPO median	2	
Number of crashes are within 20% of MPO median	1	
Number of crashes is lower than 20% of the MPO median	0	0
Non-motorized Transportation / Complete Streets	5 points max	
Pedestrian and Cycling Facilities		0
Add facilities where none currently exist	3	
Improves upon existing facilities	2	
Currently has facilities but there are no improvements	1	
Non-Motorized Connectivity		0
Any added ped/bike facilities connect to other ped/bike facilities	2	

Criteria	Points	
Regional Connectivity	9 points max	
Average daily traffic (ADT) based on most recent traffic count		
ADT is 10,000 or more	5	
ADT is 5,000 – 9,999	4	
ADT is 2,000 – 4,999	3	3
ADT is less than 2,000	0	
Functional Classification of the Road		
Principal Arterial	3	
Minor Arterial	2	
Major Collector	1	1
Minor Collector	0	
Strategic Investment/ Project Planning	11 points max	
Identified In an Asset Management Plan	1	
There is an asset management plan covering other utilities along the limits of the project	1	
Agency staff have asset management training	1	1
Project identified in other planning document	1	
Project connects to a road with a PASER of 7 or higher	1	
Additional Local Match		
Agency will proved 40%+ Local Match	2	
Agency will proved 24-40% Local Match	1	
Note: An 18.15% local match is the minimum required		
Project Readiness (no points)	Yes	Y
Coordination with sewer or other infrastructure (no points)	Yes	N

Niles-Buchanan-Cass Area Transportation Study 2024-2026 Transportation Improvement Program (TIP) Federal Surface Transportation Block Grant Funds Project Application

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Section 1. Applicant Information				
Agency Name	Cass County Road Commission			
Contact Name	Joe Bellina		Title	Head Engineer
Phone Number	269-445-8611		Email	jbellina@casscoroad.com
Engineer/Consultant (If applicable)		Nick Mannon		
Phone Number	269-445-8611		Email	nmannon@casscoroad.com

Section 2. Project Information			
Project Name/Road Name	Redfield Street		
Project Limits (e.g. Napier Ave. to Britain Ave.)	Ebersole Road to Adamsville Road		
Project Length (nearest hundredth of a mile)	1.00	Proposed Year of Funding	2026
Primary Work Type	□ Reconstruct □ Restore & Rehabilitate □ Roadside Facility ⊠ Resurface □ Traffic Operations/Safety □ Other		
Project Description (Please provide major work items including sidewalks, utility work, ADA upgrades etc.)	1.5" HMA,36A top course overlay, Shoulder Class II and Pavement Marking		
Was this project applied for during the 2020-2023 Call for Projects but not selected	Yes 🕅 No		
Was this project awarded funding for the 2020-2023 TIP, but was either canceled or failed to be obligated	☐Yes ⊠No If yes, please explain:		
If you are submitting multiple applications, please rank your applications by priority.		Project Rank: 9	

Section 3. Project Funding		
Estimated STBG Participating Cost of the Project	\$ 121592.61	
Minimum local match required - 18.15% of the Participating cost	\$ 22069.06	
Can your agency supply additional match beyond the minimum required 18.15%. If so how much?	□ Yes ⊠ No Amount \$	
Are there elements of the project that could be eligible for other federal fund sources such as CMAQ, TAP, Bridge etc.	Source: Amount: \$ Explanation:	
Will the project have nonparticipating work, such as water, or sewer work?	amount: \$ Explain:	
Does your agency have the financial capacity to Advance Construct (AC) all or part of this project if necessary? If yes, what is the maximum dollar amount your agency is willing to Advance Construct (AC)?	☐ Yes ⊠ No Maximum Dollar Amount you can AC? \$	

Section 4. Regional Connectivity	
What is the most current daily traffic count for the limits of this project?	AADT: 3099 Year of count: 2019 Source: CCRC
National Functional Classification (NFC) for this roadway	Major Collecter

Section 5. System Preservation	
2021 PASER rating (Available 8-10-21)	4
Current state of drainage	 Adequate Minor and tolerable drainage problems Occasional drainage problems with some maintenance required Inadequate, frequent flooding, excessive maintenance required
Expected increase in Remaining Service life (RSL)	7 Use MDOT's <u>Guidelines for Geometrics on Local Projects</u>
What MDOT guidelines does the project conform to?	 Reconstruction (4R) Resurfacing, restoration, and Rehabilitation (3R) Preventative Maintenance (PM)

Section 6. Safety Please list the number and severity of crashes within the proposed project limits over the last 5 yrs. (2016-2020) (see Michigan Crash Facts for crash data) **Total Crashes** Pedestrian & Bicycle 9 0 Crashes Fatalities Serious Injuries 0 0 Using the attached Crash Reduction Factors sheet, please check each safety counter measure that will be included in the project Describe any other safety improvements this project will provide

Section 7. Pedestrian and Bicycle Improvements		
Please explain what pedestrian and/or bicycle facilities if any currently exist		
Please explain any additional pedestrian and/or bicycle improvements included in the project.		
Does this project connect to an existing pedestrian/bicycle facility or one that is planned to be completed before 2027	Yes No	

Section 8. Strategic Planning & Investment	
Is the project identified in an approved Asset Management Plan, or Capital Improvement Plan	Yes 🖾 No If yes, please attach the plan.
Is the project identified in another approved planning document such as a master plan or parks and recreation plan	Yes No If yes, please cite the plan and page number:
Is there an approved asset management plan covering the utilities along the project's limits	Yes No List utilities covered by the asset management plan:
Will this project coordinate with other infrastructure projects (i.e. utility, water, sewer, etc?)	Yes No If yes, please indicate the project type and construction year:
How many water main breaks have you had at this location in the past five years?	None
Is there a completed utilities assessment that includes televising the sewers in the project area?	Yes 🛛 No
Do you have a maintenance strategy or Asset Management Plan covering non-motorized facilities?	🗌 Yes 🔀 No
Has staff received Asset Management training through the Transportation Asset Management Council <u>https://www.michigan.gov/tamc/0,7308,7-356-82158-</u> ,00.html	⊠Yes □No
Has your agency completed the Asset Management Readiness Scale from the Michigan Infrastructure Council (MIC)? <u>https://fcm.ca/en/resources/mamp/tool-asset-</u> <u>management-readiness-scale</u>	Yes No https://fcm.ca/en/resources/mamp/tool-asset- management-readiness-scale
Does the project cross-jurisdictional boundaries?	🗌 Yes 🖾 No
If yes, will it be bid as a single project?	Yes No 🛛 NA
Will this project require environmental mitigation, purchase of Right of Way (ROW), or railroad permits?	Yes No Not Sure If yes, which items are required:
If any of the above items are required please explain how they will be addressed	
Does this project perform Resurfacing, Reconstruction, or Preventative Maintenance on a segment adjacent to a segment that currently has a PASER of 7 or higher	Yes X No List the adjacent segments that qualify:

Section 9. Existing and Proposed Roadway Design							
	Existing			Proposed			
Include the	Through	Center		On Street	Through	Center	On Street
number of	Traffic Lanes	Turn Lar	าย	Parking	Traffic Lanes	Turn Lane	Parking
vehicle lanes	2	0		🗆 Yes 🛛 No	2	0	🗆 Yes 🛛 No
Shoulder	Paved		Width (ft.)		Paved		Width (ft.)
Surface	🔀 Unpaved		3		🛛 Unpaved		3
Sidewalk/ path	Placement		Wi	dth (ft.)	Placement		Width (ft.)
information	🗌 One Side				One Side		
	Both Sides				Both Sides		
	Intermittent				Intermittent		
	None				None		
On road bicycle	Bike Lane			Other (specify) 🛛 🗌 Bike Lane 🔄 Other (sp		er (specify)	
facilities	Sharrows			Sharrows			
	📃 Wide Shoເ			one	Wide Shoulders 🛛 None		
Utilities, Sewer	Utilities Up	-			Replace Utilities		
and Water	Sewer and water work nee			eeded	Relocate Utilities		
					Sewer and Water Line Work		
Please describe any improvements being							
made as part of this project to							
crosswalks, signage or signals, or							
streetscape elements not discussed in							
project description							
Does this project enhance connectivity				Yes 🖄 No			
of pedestrian or bicyclists to fixed route			lf y	es, how?			
or Dial-A-Ride transit?							

Section 10. Estimated Project Schedule	
Activity	Estimated Date
Resolution of Support for \Box Local Match Submitted to SWMPC	September 2025
Project Application Submitted to MOT	September 2025
Grade Inspection Package Submitted to MDOT	October 2025
Grade Inspection Meeting Scheduled	Novemeber 2025
Final Plan and Estimate to MDOT	December 2025
Right of Way (ROW) certified*	NA
Rail Road Permits*	NA
Environmental Mitigation*	NA
Project Obligated	January 2026
Project Letting	March 2026
Construction Start	May 2026
Project Completion	09/30/2026

*Enter NA if these items will not be required.

NATS 2024-2026 Surface Transportation Block Grant Project Application

	Proposed Improvement % Reduction Associated Crash Types					
	SEGMENT CRASH REDUCTION FACTORS					
	Geometric Safety Enhancements					
	Center Left-Turn Lane - Construct	80%	Rear-End Left-Turn			
		50%	Head-On Left-Turn			
		20%	Head-On, Angle, Sideswipe*			
		15%	Non Left-Turn Rear-End, Other*			
	Right-Turn Lane - Construct	65%	Rear-End Right-Turn			
		30%	Angle			
		15%	Rear-End			
		10%	Other*			
	Horizontal Curve Flattening	30%	Lane Departure***			
	Shoulders - Widen to Standard Width (add 1' each side)	5%	Lane Departure***			
	Shoulders - Widen to Standard Width (add 2' each side)	10%	Lane Departure***			
	Shoulders - Widen to Standard Width (add 3' each side)	15%	Lane Departure***			
	Shoulders - Widen to Standard Width (add 4' each side)	20%	Lane Departure***			
	Shoulders - Widen to Standard Width (add 5' each side)	25%	Lane Departure***			
	Shoulders - Widen to Standard Width (add 6' each side)	30%	Lane Departure***			
	Shoulders - Widen to Standard Width (add 7' each side)	35%	Lane Departure***			
	Vertical Curve Modification	20%	All Applicable Crash Types +++			
	General S	egment Enhanc	ements			
	Access Management - Improve	15%	Drive-way Related Applicable Crashes			
	Centerline Rumble Strips - Install	44%	K and A injury Applicable Crashes			
		46%	Single Vehicle Run off Road Left Crashes			
		43%	Sideswipe Same Crashes			
		55%	Sideswipe Opposite Crashes			
	High Friction Surface Treatment Install	35%	Wet Crashes			
	High Friction Surface Treatment - Install	20%	All Other Applicable Crashes			
	Recessed Durable Pavement Markings	5%	All Applicable Crashes			
	Pedestrian Refuge - Install	50%	Pedestrian Crashes (Review NCHRP Report 841)			
	Road Diet (4-3 Lane Conversion) - Install	50%	Suburban - All Applicable Crashes			
	Shoulder Rumble Strips	20%	Run-Off the Road Right Crashes			
	Signing/Delineation on Horizontal Curves (Including Recessed Durable Pavement Markings) - Install	20%	Lane Departure***			
	Safety Edge Improvement	13%	All non-intersection crashes (CMF Clearing House ID 8658)			

	Roadside Enhancements					
	Bicycle Lanes - Install per standards	50%	Bicycle Crashes			
	Shared Use Path - Install	33%	Bicycle and Pedestrian Related Crashes			
	Fixed Objects From Clear zone (Trees, Culverts, Etc.) - Removal	75%	Fixed-Object Applicable Crashes			
	Guardrail - Install	55%	Lane Departure ***Fatalities and "A" Injury Applicable Crashes			
	Sidewalk for Pedestrians - Construct	85%	Pedestrian Crashes			
	Slope Flattening	15%	Fixed-Object, Overturn Applicable Crashes			
	Living Snow Fence	20%	Crashes due to wintry surface conditions			
	Lighting - install on segment	20%	Dark Unlighted Crashes			
	INTERSECTION CRASH REDUCTION FACTORS					
	Pedestrian / Bicycle Enhancements					
	Bump Out / Curb Extension - Remove Parking / Install	30%	All Crashes			
	Bicycle Lanes - Install per standards	25%	Bicycle Crashes			
	Sidewalk for Pedestrians - Construct	85%	Pedestrian Crashes			
		75%	Pedestrian Fatal - Dark Unlighted Crashes			
	Intersection Lighting - install	40%	Pedestrian A-Injury - Dark Unlighted Crashes			
		30%	All Applicable Dark Unlighted Crashes			
	Rectangular Rapid Flashing Beacons	47%	Pedestrian Crashes			
	Ped. Countdown Signals - Install new Pedestrian signal	30%	Pedestrian Crashes			
	Ped. Countdown Signals - Upgrade from existing Pedestrian signal	25%	Pedestrian Crashes			
	Signal Timi	ng / Hardware E				
		3%	Rear-End			
	Multiple Low-Cost Improvements	12%	Right-Angle			
		3%	Nighttime			
	Install Reflectorized Backplates	15%	All Applicable Crashes			
	Add All-Red Clearance Interval - Add per ITE	20%	Head-On Left-Turn, Angle			
	Yellow-Change Interval - Increase	10%	All Crash Types			
	Box Span Signal - Upgrade from Stop Control	65%	Angle			
		-25%	Rear-End (Increases Crashes)			
		20%	All Other Non Rear-End Crashes			
	Box Span Signal - Upgrade from Diagonal Span	10%	All Applicable Crashes+			
	Protected Left-Turn Signal Phase - Add	30%	Left-Turn			
	Signal Head Size - Increase to 12 "	10%	All Applicable Crashes +			
	Signal Optimization & Timing Updates	10%	All Applicable Crashes +			
	Removing Night Flash from Signal Timing	50%	Nighttime Flash mode Related Crashes			

	Intersection Geometric Enhancements					
	Center Left-Turn Lane - Construct	80%	Rear-End Left-Turn			
		50%	Head-On Left-Turn			
		20%	Head-On, Angle, Other			
		15%	Non Left-Turn Rear-End			
	Intersection Improvements (Realignment, Sight-Distance Improvements, Radii Improvements, Etc.)	30%	Angle			
		15%	Rear-End			
		10%	Head-On, Sideswipe, Pedestrian, Bicycle, Left-Turn Related			
	Offset Left-Turn Lane - Construct	65% Angle-Turn, Head-On Left-Turn				
		20%	Rear-End Left-Turn			
	Offset Right-Turn Lane - Construct	65%	Angle-Turn			
		50%	Other Applicable Crashes			
		20%	Rear-End Right Turn			
		65%	Rear-End Right-Turn			
	Right-Turn Lane - Construct	20%	Applicable Rear-End Crashes, Sideswipe Same Direction			
		78%	Fatal and A-Injury Reduction			
	Roundabout	57%	Minor Crash Reduction			
	Lighting	_	See MDOT Interchange Warranted Lighting Guidance and overall			
			MDOT Lighting Guidance			
	General Intersection Enhancements (Non-Signalized Intersections)					
	All-Way Stop Control - New Installation	60%	All Applicable Crashes			
	Ground Mounted Flashing Beacons (Red)- Install **	30%	All Crashes On Install Approach			
	Ground Mounted Flashing Beacons(Amber) - Install **	20%	All Crashes On Install Approach			
	Signing - Improve/Upgrade	30%	Angle, Rear-End Crashes			
	Pavement Markings - Improve/Upgrade	30%	Angle, Rear-End Crashes			
	Reflective Sheeting on Sign Posts (Iollipops)	15%	All Applicable Crashes			