2024-2026 Congestion Mitigation and Air Quality 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.

Section 1. Applicant Information				
Applicant Name	Berrien Coun	Berrien County Road Department		
Contact Name	Kevin Stack	Kevin Stack		Engineering Supervisor
Phone Number	269-925-119	269-925-1196 ex 4421		kstack@bcroad.org
Sponsor (If applicable)				
Engineer/Consultant (If applicable)				
Phone Number			Email	

Section 2. Project Info	rmat	tion & Costs					
Project Name: Red Arrow Highway Non-Motor			ized path				
City/Village/ Township: Cl	hikam	ning			County: Berrie	n	
Project Location (short description of where the project is located)	,		This project will extend the Red Arrow Linear Path from Lakeside to Harbe along the side of Red Arrow Highway			akeside to Harbert	
Which Emissions form is beform name not the MDOT	_	•	Non-mo	torized Pa	thway		
Work Description (Short description of work bein performed. Please provide enoinformation for eligibility to be determined)	Highway to exte		-		ith a roadway proj ed facility north to		-
		means of t	ravel to ac	sidence along Red ccess small busines		ow Highway to use istricts along the	
Project Cost Only include CMAQ eligible expenses		\$ 400000	Proposed Year of Funding 2024		24		
Minimum Local Match – 20% of eligible costs		\$80000					
Can you supply additional match beyond the minimum required 20% If so how much?		☐ Yes ☒ No Amount \$0					
Emissions Benefit (from Emissions form)		ntile Organic npounds (VOC)	Carbon M (CO)	onoxide	Nitrogen Oxide (NO _x)		Particulate Matter (PM 2.5)

Section 3. Performance measu	Iros
Besides emissions reductions what other performance measures will the project contribute to? (select all that apply) Safety Pavement Condition System Reliability Pedestrian/Bicycle Connectivity Transit State of Good Repair	If you checked any of the Performance Measures please indicate how the project will improve them: Saefty factor will be achieved by getting pedestrain traffic on to a separate non motorized trail rather than riding along the road edge of Red Arrow Highway. This will connect pedestrain traffic with business districts and creating a multip township non motorized facility.

Section 4. Additional Questions		
Question	Y/N	If Yes, Provide Brief Explanation of How the project will meet these Criteria
Will the project be ready for obligation by July 1 of the year in which it's programmed?	⊠Yes □No	Project packet will be created in 2023
Will this project use multiple funding sources/be combined with another Non-CMAQ project?	⊠Yes □No	Rural Task Force
Is the project being carried out by a sponsored agency, or is a private entity providing funding, materials, or services in support of this project?	☐Yes ⊠No	
Does the project require Right of Way (ROW) acquisition or an easement?	☐Yes ⊠No	If yes, attach a signed letter from that agency granting permission to implement all or part of this project in their right-of-way.

Section 5. Estimated Project Schedule	
Activity	Estimated Date
Resolution of Support for Local Match Submitted to SWMPC	02/01/2022
Project Application Submitted to MOT	01/01/2024
Grade Inspection Package Submitted to MDOT	02/01/2024
Grade Inspection Meeting Scheduled	02/01/2024
Final Plan and Estimate to MDOT	03/01/2024
Right of Way (ROW) certified	01/01/2024
Rail Road Permits	NA
Environmental Mitigation	NA
Project Obligated	04/01/2024
Project Letting	05/01/2024
Construction Start	06/01/2024
Project Completion	11/01/2024

Bicycle and Pedestrian Improvements

This calculator will estimate the reduction in emissions resulting from improvements to bicycle and pedestrian infrastructure and associated mode shift from passenger vehicles to bicycling or walking, including but not limited to sidewalks, dedicated bicycle infrastructure, improved wayfinding, mid-block crossing installations, bike share systems, and bike parking improvements.

INPUT

(1) What is your project evaluation year?

2024

(2) Estimate the shift in daily motorized passenger vehicle trips to non-motorized travel due to the bicycle and pedestrian project.

Daily Passenger Vehicle Trips

Before	After	Change
4456	3750	706

(3a) Select the data type used for entering the typical one-way trip distance of passenger vehicles below:

Trip Distance Source

Average

(3b) If you selected "Average" above, enter the typical one-way trip distance. If you selected "Distribution" above, enter the typical distribution of one-way trip distances.

Typical Trip Distance (miles one way)

Distribution of Trip Distances (daily fraction per mileage bin)

x<1 1≤x<2 2≤x<3 3≤x<4 4≤x≤5 Sum

*Units in kg/day unless otherwise noted

OUTPUT

EMISSION REDUCTIONS

Pollutant	Total
Carbon Monoxide (CO)	6.020
Particulate Matter <2.5 μm (PM _{2.5})	0.016
Particulate Matter <10 μm (PM ₁₀)	0.055
Nitrogen Oxide (NOx)	0.429
Volatile Organic Compounds (VOC)	0.402

Carbon Dioxide Equivalent (CO ₂ e)	490.363
Total Energy Consumption (MMBTU/day)	6.364

2024-2026 Congestion Mitigation and Air Quality Project Application

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Section 1. Applicant Information				
Applicant Name	Berrien Coun	Berrien County Road Department		
Contact Name	Kevin Stack	Kevin Stack Title Engineering Supervisor		
Phone Number	269-925-1196	269-925-1196		kstack@bcroad.org
Sponsor (If applicable)				
Engineer/Consultant (If applicable)	Williams & Works			
Phone Number	616-224-1500		Email	austin@williams-works.com

Section 2. Project Informa	tion & Costs			
Project Name: W. John Beers \	Walks - Roosevelt	to Demorrow		
City/Village/Township: Lincolr	n Charter Townsh	ip	County: Berrie	n
Project Location	North and south	sides of W. John Beer	s Rd. from S. Ro	osevelt Rd. to
(short description of where the project is located)	Demorrow Rd. i	n Lincoln Township, Be	errien County, N	11.
Which Emissions form is being form name not the MDOT form	•	Bicycle and Pedestria	an Improvement	ts
Work Description (Short description of work being performed. Please provide enough information for eligibility to be determined)	south sides of W installation of 6 drainage improv Demorrow Rd. a	ft. wide concrete path rements. New walkwa	12 using CMAQ s, A.D.A. ramps, ys to connect to Village of Stever	grant. Work includes, retaining walls, existing sidewalks at as insville. Total length of
Describe how the project will reduce congestion and/or emissions	The addition of sidewalks will encourage pedestrians to make non-motorized trips between the Village of Stevensville and the Lincoln Township public facilites (Park, Library), Lakeshore Public Schools, and the commercial area of John Beers Rd. and Cleveland Ave. This will improve a quality and reduce congestion by reducing motorized vehicles, and their accompanying emissions, from the roadway.		d the Lincoln blic Schools, and the . This will improve air	
Project Cost	\$ 990,000	Proposed Y Funding	ear of	2026

Only include CMAQ eligible				
expenses				
Minimum Local Match – 20% of eligible costs		\$198,000		
Can you supply additional match beyond the		⊠ Yes □ No		
minimum required 20% If so how much?		Amount \$392,000		
Fusioniana Danafit /fusus	Volatile Organic	Carbon Monoxide	Nitrogen Oxide	Particulate Matter
Emissions Benefit (from Emissions form)	Compounds (VOC)	(CO)	(NO _x)	(PM 2.5)
EIIIISSIOIIS IOIIII)				

Section 3. Performance measu	ures
Besides emissions reductions what other performance measures will the project contribute to? (select all that apply) Safety Pavement Condition System Reliability Pedestrian/Bicycle Connectivity Transit State of Good Repair	If you checked any of the Performance Measures please indicate how the project will improve them: The proposed project closes a critical 2,500 ft. gap between the existing sidewalks in the Village of Stevensville west of S. Roosevelt Rd. and the existing federally funded non-motorized facilities on John Beers Rd. and S. Roosevelt Rd. Currently, pedestrians and cyclist must share the 4 ft. widened shoulders which are not wide enough for safe travel by both types of users onthis route, posted at 40 mph. This is particularly of concern in the winter months, when the full width of the shoulders may not be available due to snowfall.

Section 4. Additional Questions		
Question	Y/N	If Yes, Provide Brief Explanation of How the project will meet these Criteria
Will the project be ready for obligation by July 1 of the year in which it's programmed?	⊠Yes □No	Project wil be designed well in advance of the grant fiscal year.
Will this project use multiple funding sources/be combined with another Non-CMAQ project?	⊠Yes □No	Local Township matching funds
Is the project being carried out by a sponsored agency, or is a private entity providing funding, materials, or services in support of this project?	⊠Yes □No	Lincoln Charter Township will provide the engineering and matching funds for this project.
Does the project require Right of Way (ROW) acquisition or an easement?	☐Yes ⊠No	If yes, attach a signed letter from that agency granting permission to implement all or part of this project in their right-of-way.

Section 5. Estimated Project Schedule	
Activity	Estimated Date
Resolution of Support for Local Match Submitted to SWMPC	Feb 2025
Project Application Submitted to MOT	March 2025
Grade Inspection Package Submitted to MDOT	April 2025
Grade Inspection Meeting Scheduled	May 2025

Final Plan and Estimate to MDOT	July 2025
Right of Way (ROW) certified	August 2025
Rail Road Permits	N/A
Environmental Mitigation	N/A
Project Obligated	October 2025
Project Letting	December 2025
Construction Start	May 2026
Project Completion	July 2026

FY 2026 – CMAQ Application W. John Beers Rd. – Nonmotorized pathways – S. Roosevelt Rd. to Demorrow Rd. Lincoln Charter Township

Additional information which may contribute to assessment:

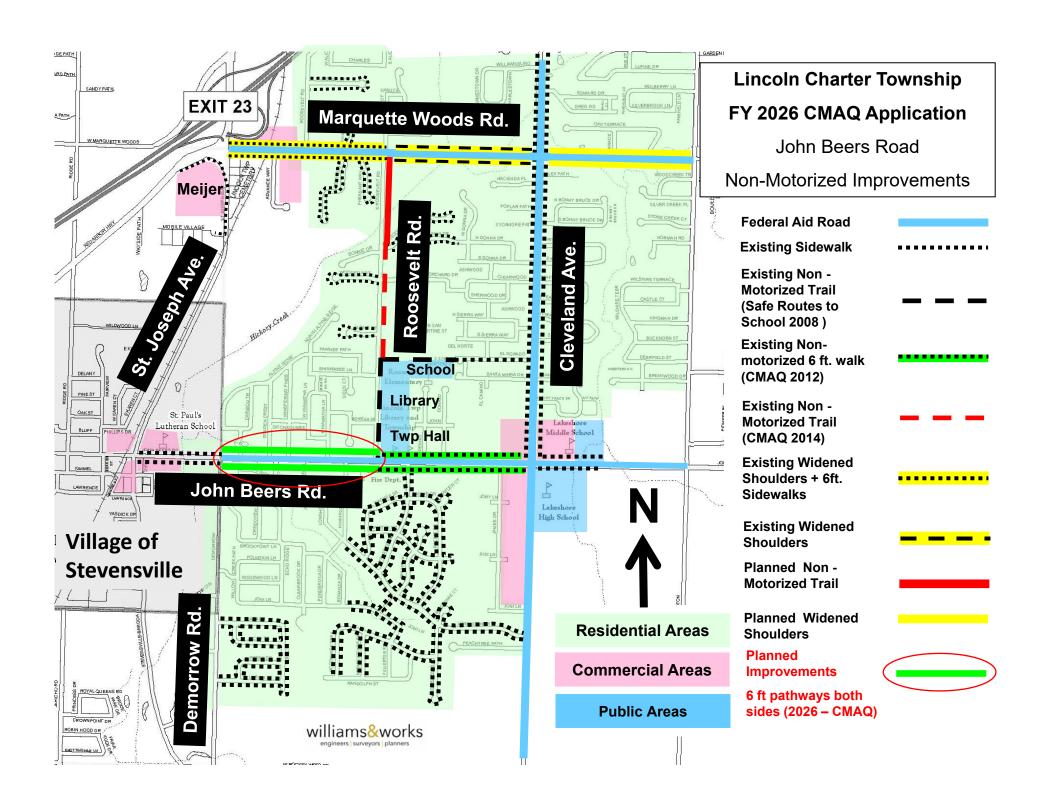
SERVICE AREAS - Approximately 700 existing residential properties are adjacent to or connect with the proposed walkways on John Beers Rd. between S. Roosevelt Rd. and Demorrow Rd. As this is will connect to existing walkways to the east and west, many more residences have the potential to use this facility as well. (see attached map)

DESTINATION AREAS - The proposed extension will allow access to jobs, services and retail businesses. The extension will connect the existing non-motorized pathways on S. Roosevelt Rd. and John Beers Rd. to the commercial and public facilities within the Village of Stevensville. Likewise, this link will provide residents from the Village and east of Demorrow Rd. with direct pedestrian access to the public facilities (library, Township Hall, park), restaurants, a large shopping center, post office, and several smaller commercial businesses located on John Beers Rd. and Cleveland Avenue intersection. Some of the businesses in this area include Martins grocery, Walgreens, Ace Hardware, two banks, an exercise facility, post office, restaurants, office buildings and a convenience store/gas station. In addition, Lakeshore Public High School is located at this intersection.

LAND USES - The land uses surrounding the path are primarily residential, connecting to commercial area on both the NW and SE side. (See attached map).

CONNECTIONS TO OTHER NON-MOTORIZED PATHS - As shown on the attached map, this link will connect to the existing 2012 CMAQ funded non-motorized pathways on John Beers Rd. In addition, it will connect with the existing non-motorized pathways on S. Roosevelt Road that include a 2015 CMAQ funded pathway and the planned extension that will connect to Marquette Woods Rd. Roosevelt Rd. connects to John Beers Rd. to the south and Marquette Woods Rd. to the north, both Federal Aid roads.

ESTIMATED COST - The estimated cost for this project is \$980,000 including engineering. This includes a 6 ft. wide concrete pathway, approximately 2,800 sq. ft. of retaining wall, 16 A.D.A. ramps, two large culvert extensions, numerous tree removals, relocation of existing hydrants, phone junction boxes, driveway aprons, placement of leech basins, and allowances for restoration.



Bicycle and Pedestrian Improvements

This calculator will estimate the reduction in emissions resulting from improvements to bicycle and pedestrian infrastructure and associated mode shift from passenger vehicles to bicycling or walking, including but not limited to sidewalks, dedicated bicycle infrastructure, improved wayfinding, mid-block crossing installations, bike share systems, and bike parking improvements.

INPUT

(1) What is your project evaluation year?

2026

(2) Estimate the shift in daily motorized passenger vehicle trips to non-motorized travel due to the bicycle and pedestrian project.

Daily Passenger Vehicle Trips

Before	After	Change		
7480	5984	1496		

(3a) Select the data type used for entering the typical one-way trip distance of passenger vehicles below:

Trip Distance Source

Average

(3b) If you selected "Average" above, enter the typical one-way trip distance. If you selected "Distribution" above, enter the typical distribution of one-way trip distances.

Typical Trip Distance (miles one way)

Distribution of Trip Distances (daily fraction per mileage bin)

x < 1 1 ≤ x < 2 2 ≤ x < 3 3 ≤ x < 4 4 ≤ x ≤ 5 Sum

*Units in kg/day unless otherwise noted

OUTPUT

EMISSION REDUCTIONS

Pollutant	Total
Carbon Monoxide (CO)	8.896
Particulate Matter <2.5 μm (PM _{2.5})	0.021
Particulate Matter <10 μ m (PM ₁₀)	0.063
Nitrogen Oxide (NOx)	0.628
Volatile Organic Compounds (VOC)	0.688

Carbon Dioxide Equivalent (CO ₂ e)	557.693
Total Energy Consumption (MMBTU/day)	7.162

2024-2026 Congestion Mitigation and Air Quality Project Application

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Section 1. Applicant Information							
Applicant Name	Village of	Three Oaks					
Contact Name	Dan Faul	Dan Faulkner Title					
Phone Number	269-756-92	221	Email	villagemgr@threeoaksvillage.org			
Sponsor (If applicable)							
Engineer/Consultant (If applicable)		Tony McGhee, Abo	nmarche Co	onsultants, Inc			
Phone Number	269-252-89	980	Email				
Castian 2 Draigst Inf		Co. also					

Section 2. Project Information & Costs							
Project Name: US -12 N							
City/Village/ Township:					County:		
Project Location (short description of where the project is located)							
Which Emissions form is b	eing	used? (list the					
form name not the MDOT	n number <i>)</i>						
Work Description (Short description of work being performed. Please provide enough information for eligibility to be determined)							
Describe how the project							
will reduce congestion							
and/or emissions							
Project Cost Only include CMAQ eligible expenses		\$	Proposed Year of Funding				
Minimum Local Match – 2	20% c	f eligible costs	\$				
Can you supply additional match beyond the minimum required 20% If so how much?			☐ Yes ☐ No Amount \$				
Emissions Benefit (from Emissions form)		atile Organic npounds (VOC)	Carbon M (CO)	onoxide	Nitrogen Oxide (NO _x)		Particulate Matter (PM 2.5)
Linissions formi							

Besides emissions reductions what other performance measures will the project contribute to? (select all that apply) Safety Pavement Condition System Reliability Pedestrian/Bicycle Connectivity Transit State of Good Repair		•	formance Mea	sures please indicate how the
Section 4. Additional Question	ıs			
Question		Y/N		Provide Brief Explanation of ne project will meet these Criteria
Will the project be ready for obliga 1 of the year in which it's programm		☐Yes ☐No		
Will this project use multiple funding sources/be combined with another project?	-	☐Yes ☐No		
Is the project being carried out by a agency, or is a private entity provid materials, or services in support of	ling funding,	☐Yes ☐No		
Does the project require Right of Wacquisition or an easement?	/ay (ROW)	☐Yes ☐No	granting pe	h a signed letter from that agency rmission to implement all or part project in their right-of-way.
Section 5. Estimated Project S	chedule			
Activity				Estimated Date
Resolution of Support for Local Ma		to SWMPC		
Project Application Submitted to M				
Grade Inspection Package Submitte				
Grade Inspection Meeting Schedule	ed			
Final Plan and Estimate to MDOT				
Right of Way (ROW) certified				
Rail Road Permits Environmental Mitigation				
Project Obligated				
Project Letting				
Construction Start				
Project Completion				

CMAQ Emissions Calculator Toolkit	Bicycle and Pedestrian Improvements							
		sions resulting from improvements to bicycle and pedestria o sidewalks, dedicated bicycle infrastructure, improved wayfi parking improvements.						
Navigator		INPUT						
Bicycle and Pedestrian Improvements								
	Daily Passenger Before 158 (3a) Select the data type used for entering the ty Trip Distance Source Distribution	er vehicle trips to non-motorized travel due to the bicycle and per Vehicle Trips After Change 80 78 Applicatione-way trip distance of passenger vehicles below: Expiration one-way trip distance. If you selected "Distribution" above, Distribution of Trip Distances (daily from the second of th	enter the typical distribution (of one-way trip distances. Sum 100.0%				
	OUTPUT							
	EMISSION REDUCTIONS	8.11.	T-4-1					
	_	Pollutant Carbon Monoxide (CO)	Total 0.602	*Units in kg/day unless otherwise noted				
	_	Particulate Matter <2.5 μm (PM _{2 5})	0.602					
		Particulate Matter <10 µm (PM ₁₀)	0.003					
	Nitrogen Oxide (NOx) 0.052							
	Volatile Organic Compounds (VOC) 0.056							
		Carbon Dioxide Equivalent (CO ₂ e)	24.702					
		Total Energy Consumption (MMBTU/day)	0.313					

Village of Three Oaks Proposed Non-Motorized Trail Connector





95 West Main Street P.O. Box 1088 Benton Harbor, MI 49023 T: (269) 927-2295 F: (269) 927-1017 www.abonmarche.com

Engineer's Opinion of Construction Costs

US-12 Sidewalk Extension

Project No: P21-0121

Sidewalk Extension to Dunn St on South Side of US-12 Description:

30% Preliminary Stage:

8/12/2021 Date:

Prepared By: Brandon Vasher, EIT

<u>Miscellaneous</u>							
Line	Item	Quantity	Unit	Unit Co	ost	Item (Cost
1	Mobilization, Max \$20,000	1.00	LSUM	\$	20,000.00	\$	20,000.00
2	Temporary Traffic Control	1.00	LSUM	\$	5,000.00	\$	5,000.00
Subtotal: M	iscellaneous					\$	25,000.00

Proposed	Proposed Improvements - Sidewalk Extension							
Line	Item	Quantity	Unit	Unit	Cost	Item	Cost	
	3 Sidewalk, Rem	25.00	Syd	\$	10.00	\$	250.00	
	4 Pavt, Rem	165.00	Syd	\$	10.00	\$	1,650.00	
	5 Machine Grading	18.05		\$	1,000.00	\$	18,050.00	
	6 Embankment, CIP	1500.00		\$	15.00	\$	22,500.00	
	7 Sidewalk, Conc, 4 inch	8900.00	Sft	\$	4.00	\$	35,600.00	
	8 Sidewalk, Conc, 6 inch	1400.00		\$	5.00	\$	7,000.00	
	9 Sidewalk Ramp, Conc, 6 inch	200.00	Sft	\$	6.00	\$	1,200.00	
	O Detectable Warning Surface	10.00	Ft	\$	40.00	\$	400.00	
	11 Driveway,Nonreinf Conc, 6 inch	140.00	Syd	\$	40.00	\$	5,600.00	
	12 Driveway, Gravel	30.00		\$	10.00	\$	300.00	
	13 Curb and Gutter, Rem	160.00	Ft	\$	9.00	\$	1,440.00	
	14 Curb and Gutter, Conc, Det C4	160.00		\$	25.00	\$	4,000.00	
	15 Dr Structure, 48 inch dia	7.00		\$	2,500.00	\$	17,500.00	
	16 Dr Structure Cover, Type B	7.00	Ea	\$	550.00	\$	3,850.00	
	I7 Culv, Cl A, 24 inch	1165.00	Ft	\$	55.00	\$	64,075.00	
Subtotal:	Subtotal: Proposed Improvements - Sidewalk Extension							

<u>Summary</u>		
Construction Subtotal:		\$ 208,415.00
Contingency:	20%	\$ 41,685.00
Project Total: US-12 Sidewalk Extension		\$ 250,100.00

O:\Proposals_Michigan\Governmental\Village of Three Oaks\2021\Elm Resurfacing - Dunn Sidewalk - Central Dr Extension\2021-08-12 Preliminary Estimate\2021-08-12 Preliminary Estimate\2021-08-Page 1 of 1

2024-2026 Congestion Mitigation and Air Quality Project Application

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Section 1. Applican	t Informati	on		
Applicant Name	Village of B	errien Springs		
Contact Name	Jesse Hible	r	Title	Village President
Phone Number	269-930-26	519	Email	president@villageofberriensprings.com
Sponsor (If applicable)		Village of Berrien S	prings	
Engineer/Consultant (If applicable)		VIRIDIS Design Gro	up	
Phone Number	269-978-51	.43	Email	john@virdg.com

Section 2. Project Informa	tion & Costs				
Project Name: Lake Chapin Int	erurban Non-Mot	orized Bri	dge		
City/Village/ Township: Village	of Berrien Spring	s/Berrien	Township	County: Berrie	n
Project Location (short description of where the project is located)	Project is located in the Village of Berrien Springs and Berrien Township, Berrien County and includes a non-motorized bridge over Lake Chapin, which is a dammed up lake on the St Joesph River, and follows the interurban rail line between Grove Park in the Village (at Main St) and Range				
	Line Park in Berr	ien Towns	ship.	_	_
Which Emissions form is being form name not the MDOT form	•	FHWA Bi	cycle and Pe	destrian Improv	vements Tool
Work Description (Short description of work being performed. Please provide enough information for eligibility to be determined)	concrete piers a	portation/ nd include ons and eit	pedestrian k s pre-manuf her ends, op	oridge over Lake actured bridge	mile long non- e Chapin on existing sections, abutments, as between bridge
Describe how the project will reduce congestion and/or emissions	Will provide an a reducing vehicle		e non-motori	zed mode of tra	ansportation and thus
Project Cost Only include CMAQ eligible expenses	\$ 4,800,000		Proposed Y Funding	ear of	2025
Minimum Local Match – 20% o	of eligible costs	\$960,000	_		

Can you supply additiona minimum required 20% If	•	⊠ Yes □ No Amount \$40,000		
Emissions Benefit (from Emissions form)	Volatile Organic Compounds (VOC)	Carbon Monoxide (CO)	Nitrogen Oxide (NO _x)	Particulate Matter (PM 2.5)
Emissions form)	0.739	11.303	0.778	0.032

Section 3. Performance measu	ures
Besides emissions reductions what other performance measures will the project contribute to? (select all that	If you checked any of the Performance Measures please indicate how the project will improve them: Will provide a safe non-motorized transportation route by removing conflicts with vehicles for bicyclists and pedestrians.
apply) ☑ Safety ☐ Pavement Condition ☐ System Reliability ☑ Pedestrian/Bicycle Connectivity ☐ Transit State of Good Repair	Will provide non-motorized transportation alternative for bicycles, pedestrians, and other non-motorized uses between Village of Berrien Springs and Berrien Township including the connection of existing green space/parks. The project is also a piece of the Michigan Indiana River Valley trail that currently runs from Niles Michigan to Mishawaka Indiana.

Section 4. Additional Questions		
Question	Y/N	If Yes, Provide Brief Explanation of How the project will meet these Criteria
Will the project be ready for obligation by July 1 of the year in which it's programmed?	⊠Yes □No	Engineering will begin in 2024 and will follow the MDOT Local AgencyProject Planning Guide for a planned spring 2025 letting
Will this project use multiple funding sources/be combined with another Non-CMAQ project?	⊠Yes □No	The Village will be seeking other grant opportunities such as the MDNR Trust Fund grant, local municipal grants, and private fundraising.
Is the project being carried out by a sponsored agency, or is a private entity providing funding, materials, or services in support of this project?	⊠Yes □No	The Village of Berrien Springs is the sponsoring agency for the project.
Does the project require Right of Way (ROW) acquisition or an easement?	☐Yes ⊠No	If yes, attach a signed letter from that agency granting permission to implement all or part of this project in their right-of-way.

Section 5. Estimated Project Schedule	
Activity	Estimated Date
Resolution of Support for Local Match Submitted to SWMPC	10/6/2021

Project Application Submitted to MOT	6/2024
Grade Inspection Package Submitted to MDOT	10/2024
Grade Inspection Meeting Scheduled	11/2024
Final Plan and Estimate to MDOT	12/2024
Right of Way (ROW) certified	12/2024
Rail Road Permits	n/a
Environmental Mitigation	n/a
Project Obligated	01/2025
Project Letting	03/2025
Construction Start	05/2025
Project Completion	11/2025

Lake Chapin Interurban Non-Motorized Bridge

Village of Berrien Springs

CMAQ Application Narrative

Project Description

This project includes the construction of an approximate quarter-mile long non-motorized bridge over Lake Chapin. The corridor is the exact location of the old Interurban railway that once existed, and the concrete piers that remain are planned to be reused. The intent is to build the bridge on the existing concrete piers in the lake that have been studied for structural integrity and have been determined to be adequate. The project will require the construction of one pier within the lake. The project will also include seating areas within the bridge structure, concrete abutments at both ends where the bridge meets land, paved trail connection at the north end of the bridge to the existing Grove Park (aka Wolf's Prairie Playground), and a paved trail connection at the south end of the bridge to the trail head on Range Line Rd. This project is expected to provide an alternative transportation route between Berrien Township and the Village of Berrien Springs in order to reduce vehicle trips and emissions, and increase bicycle and pedestrian users. It is anticipated this project could reduce the number of vehicle trips by approx. 1,428, (approx 10% of current vehicle trips) and anticipated users may include bicyclists, pedestrians, walkers, and other non-motorized users. Refer to the attached emissions form. This non-motorized connection is noted as a priority project in both the Berrien County Parks Master Plan and the Southwest Michigan Non-Motorized Transportation Plan (see attached).

Surrounding Land Uses

This project primarily consists of a non-motorized bridge and therefore the main surrounding land use is the water body of Lake Chapin, which is a lake created by a dam on the St Joseph River. To the north, the adjacent land use is Grove Park (aka Wolf's Prairie Playground) which is within the Village of Berrien Springs. The bridge will connect to sidewalks within the park and would enter the site near Main Street, which has residential properties on the east side of the road. On the south side of the bridge the surrounding land use includes the old Interurban Rail line corridor which is owned by Indiana Power which is flanked on both sides by residential properties. The old rail line connects to Range Line Road which connects to Range Line Park just to the east within Berrien Township.

Connections to other Trails

This project would be a part of the regional Indiana-Michigan River Valley Trail (IMRV) system. Currently, IMRV system has been constructed from Mishawaka, Indiana, north to the City of Niles, Michigan and spans approximately 34 miles. The IMRV connects 4 universities, 4 downtowns, 16 parks, 5 medical facilities, several historic and cultural attractions and many businesses. There is an additional section currently being planned that will extend the IMRV and connect the City of Niles north to Berrien Township which would span another 7 miles. This application would then extend IMRV trail system further north from Berrien Township to the Village of Berrien Springs and connect to the downtown. This project would connect the local parks of Grove Park (aka Wolf's Prairie Playground) on the Berrien Springs side and Range Line Park on the Berrien Township side. This would provide a connection to the sidewalk network, pathways within Grove Park, and existing bike lanes in the Village of Berrien Springs. Currently, the Village is also developing a kayak launch on Lake Chapin within Grove Park that will also have sidewalk connections to this project. Please refer to the attached maps showing both the completed section up to Niles and the proposed section up to Berrien Township.

Benefits of the Project

This project can provide many benefits to the community both on a local and regional level which may include economic, social, health, and overall quality of life. This project is part of an overall non-motorized trail system which provides an alternative mode of transportation. Reducing vehicle trips can help lower the amount of congestion on local roads and contribute to the reduction of air pollution. Non-motorized trails may also contribute to the local economy of communities by bringing visitors into the community who in turn may spend money on goods and services and therefore helping local businesses thrive. Non-motorized facilities are desirable amenities in a community and may positively impact property values and attract new residents to the area. Further, a non-motorized network may offer health and safety benefits by providing community members a safe route to engage in physical activity and/or safely travel within the community to get to schools and parks.



View looking north towards the Village of Berrien Springs and Grove Park.



View looking south towards Berrien Township.

VILLAGE OF BERRIEN SPRINGS COUNTY OF BERRIEN, MICHIGAN

RESOLUTION TO ESTABLISH hereinafter referred to as the Local Public Agency (LPA) in the matter of the stated described project

At a meeting of the Village Council of the Village of Berrien Springs, Berrien County, Michigan, held in said Village Hall, located at 112 North Cass Street in the Village of Berrien Springs on Monday, the 4th day of October, 2021 there were:

PRESENT: President Jesse Hibler, President Pro-Tem Barry Gravitt, Trustees: Jack Davis, Lonna Johnson, Sheila Snyder, and Sandy Swartz.

ABSENT: Trustee Kristin von Maur.

The following resolution was offered by Council Member Jack Davis and seconded by Council Member Sheila Snyder

WHEREAS, the United States Congress has set aside monies for Congestion Mitigation and Air Quality Improvement (CMAQ) projects through the Sate of Michigan, Department of Transportation (MDOT) and administered by the Southwest Michigan Planning Commission (SWMPC); and

WHEREAS, the non-motorized bridge across the interurban abutments at Lake Chapin is a transportation activity eligible to receive federal CMAQ funding; and

WHEREAS, if requested funds are granted, the Village of Berrien Springs shall be responsible for at least 20% percent of the eligible costs.

NOW, THEREFORE:

BE IT RESOLVED by the Village of Berrien Springs that:

SECTION ONE: Viridis Design Group of said LPA is hereby empowered on behalf of the LPA to prepare and execute an application of CMAQ funds for the stated described project and to submit to the SWMPC for consideration of funding.

SECTION TWO: The total cost of the project is estimated to be \$4.8 million, of which the LPA, if awarded the funds, commits to pay at least 20% (hereinafter known as the local match) of the actual cost, estimated to be \$960,000. The local match shall be funded by the LPA using Village funds. The LPA further agrees to pay 100% of the cost over and above the awarded amount of CMAQ funding and for all non-participation costs associated with project development activities.

SECTION THREE: Upon completion of the descripted Project, and unless otherwise agreed, the LPA shall: (1) provide adequate maintenance for the described Project in accordance with all applicable state and federal laws, including, but not limited to, 23 USC 116; (2) provide ample financial provisions, as necessary, for the maintenance of

the described Project; (3) if necessary, maintain the right-a-way, keeping it free of obstructions; and (4) if necessary, hold said right-a-way inviolate for public highway purposes.

This resolution shall be certified by the Village Clerk.

AYES:, President Pro-Tem Barry Gravitt, Trustees: Jack Davis, Lonna Johnson, Sheila Snyder, Sandy Swartz and President Jesse Hibler.

NAYES: None.

ABSENT: Trustee Kristin von Maur

Resolution declared adopted.

Sheri A. Kesterke, Village Clerk

Jesse Hibler, Village President

Sheri A. Kesterke, Village Clerk

CERTIFICATION

I hereby certify that the foregoing is a true and complete copy of a resolution adopted by the Village Council of the Village of Berrien Springs, Berrien County, Michigan, at a meeting held on Monday, October 4th, 2021, and that said meeting was held in compliance with Act 267 of the Public Acts of 1976.

Date: October 04, 2021

CMAQ Emissions Calculator Toolkit	Bicycle and Pedestrian In	mprovemen	ts
	This calculator will estimate the reduction in emissions resulting from improvements to bicycle and pedestri to bicycling or walking, including but not limited to sidewalks, dedicated bicycle infrastructure, improved way parking improvements.		
Navigator	INPUT		
Bicycle and Pedestrian Improvements			
	(1) What is your project evaluation year? (2) Estimate the shift in daily motorized passenger vehicle trips to non-motorized travel due to the bicycle and perpendicular passenger vehicle Trips Before After Change 14280 12852 1428 (3a) Select the data type used for entering the typical one-way trip distance of passenger vehicles below: Trip Distance Source Average (3b) If you selected "Average" above, enter the typical one-way trip distance. If you selected "Distribution" above typical Trip Distance (miles one way) Typical Trip Distance (miles one way) 2	e, enter the typical distributio	on of one-way trip distances.
	OUTPUT		
	EMISSION REDUCTIONS		
	Pollutant	Total	*Units in kg/day unless otherwise noted
	Carbon Monoxide (CO) Particulate Matter <2.5 μm (PM _{2.5})	11.303 0.032	-
	Particulate Matter <2.5 μm (PM _{2.5}) Particulate Matter <10 μm (PM ₁₀)	0.111	-
	Nitrogen Oxide (NOx)	0.778	
	Volatile Organic Compounds (VOC)	0.739	
	Carbon Dioxide Equivalent (CO ₂ e)	958.192	
		12.438	



