

Roadway Expand Application

Genesee County Metropolitan Alliance

FY 2020-2023
Transportation Improvement Program



Prepared by the Genesee County Metropolitan Planning Commission staff.

Roadway Expand Application

Please complete and attach as a front cover to your application.

Note: Roadway Expand projects must be identified in the LRTP as having capacity deficiencies in the year the project is proposed and must meet the 1993 traffic count guidelines.

TO: Sharon Gregory, Planner III
Genesee County Metropolitan Planning Commission

Road Agency: _____

Contact Person: _____

Phone/E-mail: _____

Proposed Project Information

(Please attach commitment from local funding agency in the form of a Resolution of Support. This is required for eligibility)

Road Name _____

Point of Beginning _____

Point of End _____

Project Length in Feet _____

If the geometrics of the intersection are being reconfigured this also needs to be indicated in the narrative and on the project diagram.

MDOT Project Description: (Please refer to list provided)

NOTE: Please provide a narrative describing the details of the project on the following page. Please be specific and feel free to attach additional pages.

Existing Number of Lanes _____

Existing Pavement Width _____

Proposed Number of Lanes _____

Proposed Pavement Width _____

Proposed Length of Right Turn Bay _____

Proposed Length of Left Turn Bay _____

Please provide a list of any alternatives to the proposed improvement and a brief explanation as to their shortcomings. (Please refer to the Congestion Management Document and indicate which strategies from the tool box have been tried.)

Alt #1 _____

Alt #2 _____

Diagrams of the existing segment, intersection, or area drawn at an appropriate scale and in sufficient detail to describe the existing situation and proposed improvement.

Diagram 1

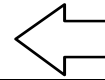
Diagram 2

Identify in Diagram:

1. Volumes
2. Lanes, lane widths
3. Movement by lane
4. Parking locations
5. Bay lengths



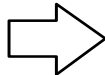
North / South Street name



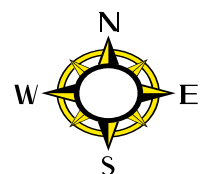
Approach 3

East / West Street Name

Approach 1



Approach 4



Estimated Project Cost

Item	Total Cost	Federal Funds Requested	Local Match	Other Source of Funds	Funds Type & Amount
R.O.W	\$		(100%)	(Y/N)	
Preliminary Engineering	\$	(80%)Max \$	(20%) Min \$	(Y/N)	
Construction Engineering	\$	(80%)Max \$	(20%) Min \$	(Y/N)	
Construction	\$	(80%) Max \$	(20%) Min \$	(Y/N)	
Total Project cost	\$	\$	\$	(Y/N)	

***NOTE: The PE and CE costs must be identified above to be eligible for funding.**

Proposed Implementation Schedule (Indicate beginning month/year and ending month/year for each activity)

Circle as many as needed Preferred Fiscal Year =1 Second Preferred year = 2	2020	2021	2022	2023
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Item	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
R.O.W Acquisition												
Preliminary Engineering												
Construction Engineering												
Grade Inspection												
Bid Letting												
Construction												

Performance Measures and TIP Projects

A key feature of the Fixing America’s Surface Transportation (FAST) Act is the establishment of a performance and outcome-based program, originally introduced through the Moving Ahead for Progress in the 21st Century (MAP-21) Act. The objective of a performance-based program is for states and MPOs to invest resources in projects that collectively will make progress toward the achievement of national goals. 23 CFR 490 outlines the seven areas in which performance goals are required. These seven areas include: Safety; Infrastructure Condition; Congestion Reduction; System Reliability; Freight Movement; Environmental Sustainability, and Reduced Project Delivery Delay. Keep in mind that projects should be able to address performance measures which will help Genesee County meet its targets. A list of performance measures and targets is included at the end of this application.

A total of 65 points is available for **either segment or intersection** capacity.

CAPACITY

Capacity will be rated in terms of the ability of the segment under consideration to carry existing traffic volumes without undue delay and interruption of smooth flow.

Please provide the 1993 traffic count for the project. _____

Please provide the current traffic count for the project. _____

Project Year: _____

Level of Service information will be filled out by GCMPC staff after the project has been submitted using data from the transportation model.

Segment Capacity Information: LOS _____

Intersection Capacity Information for the:

North and South Legs: LOS _____

East and West Legs: LOS _____

Segment Points

- Level of Service “A” = 0 points
- Level of Service “B” = 0 points
- Level of Service “C” = 0 points
- Level of Service “D” = 40 points
- Level of Service “E” = 50 points
- Level of Service “F” = 65 points

Intersection Points Per Leg

- Level of Service “A” = 0 points
- Level of Service “B” = 0 points
- Level of Service “C” = 0 points
- Level of Service “D” = 20 points
- Level of Service “E” = 25 points
- Level of Service “F” = 32.5 points

PAVEMENT CONDITION (15 Points Available)

2018 PASER Rating: _____ (From Attached GCMPC 2018 PASER Map)

PASER Rating	Points
1-4	15
5-6	8
7-10	0

PERFORMANCE PRINCIPLES (20 Points Available)

1. SAFETY - (5 Points Available)

Points will be given to projects that implement safety improvements in conjunction with normal roadway improvements. Safety improvements such as signage and/or signal upgrades, lane re-striping, turn lane additions, etc. all qualify. Please describe below the safety improvements proposed for this project.

2. ACCESS MANAGEMENT – (3 Points Available)

Points will be given to projects that employ access management techniques as the use of these techniques can help reduce traffic congestion, preserve the flow of traffic, improve traffic safety, prevent crashes and preserve existing road capacity.

Does this project address access management? If yes how? If not, why not?
Please be specific in identifying access management strategies used, such as describing the proposed number and location of driveway closures and the average driveway spacing.

3. AREA-WIDE IMPACT - (7 Points Available)

Agency judgement shall be taken into consideration in this category. There are certain important and significant criteria which do not fit into any of the above categories. Nevertheless these should be included in establishing priorities. This criteria includes the following:

- a. Is this project located in an Environmental Justice (EJ) Zone identified in the Genesee County 2040 Long Range Transportation Plan? If so, what are the effects of the project, both positive and negative, and how do you plan to mitigate the negative effects?

- b. Please identify and explain any additional transportation-related improvements taking place in the area.

4. COMPLETE STREETS (5 Points)

Which of the complete streets design elements are planned as part of this project? (ie: bike lanes, sidewalks, ADA accessible crosswalks, pedestrian crossings, etc.) If none, please explain.

Performance Measures and Targets

Performance Area	Measure	Baseline Condition (CY 2017)	2-Year Target	4-Year Target
Bridge	Percent National Highway System (NHS) Deck Area in Good Condition	32.7%	27.2%	26.2%
	Percent NHS Deck Area in Poor Condition	9.8%	7.2%	7.0%
Pavement	Percent of Interstate Pavement in Good Condition	56.8%	N/A	47.8%
	Percent of Interstate Pavement in Poor Condition	5.2%	N/A	10.0%
	Percent of Non-Interstate NHS Percent in Good Condition	49.7%	46.7%	43.7%
	Percent of Non-Interstate NHS in Poor Condition	18.6%	21.6%	24.6%
System Reliability	Level of Travel Time Reliability of the Interstate	85.1%	75.0%	75.0%
	Level of Travel Time Reliability of the Non-Interstate NHS	85.8%	N/A	70.0%
	Freight Reliability Measure on the Interstate	1.38	1.75	1.75
Congestion Mitigation/Air Quality (CMAQ)	Annual Hours of Peak Hours Excessive Delay per Capita	18 hours, 30 minutes	N/A	22 hours
	Percent of Non-Single Occupancy Vehicle Travel	16.0%	14.4%	14.4%
	Mobile Source Emission Reduction for Carbon Monoxide	87,665.109	32,968.780	65,937.560
	Mobile Source Emission Reduction for Particulate Matter	653.357	417.410	834.820

Safety Performance Measure	Baseline Through 2016	2018 State Safety Target
Fatalities	963.0	1,003.2
Fatality Rate (per 100 million VMT)	1.00	1.02
Serious Injuries	5,273.4	5,136.4
Serious Injury Rate (per 100 million VMT)	5.47	5.23
Non-Motorized Fatalities & Serious Injuries	721.8	743.6