

Federal Metropolitan Planning (PL) Fund Application Form



NAME OF STUDY: 2050 LRTP Update and 2024-2027 TIP PHASE: PL

MPO: Cartersville-Bartow

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PROJECT START DATE: October 1, 2022 PROJECT END DATE: February 28, 2024

IS PROJECT UPWP/TIP APPROVED: Yes IF NO, AMENDMENT NEEDED? _____

PREVIOUS WORK ON PROJECT: Base Year 2020 SES data submitted and approved

DESCRIPTION OF PROJECT BACKGROUND, NEED & GOALS:

CBMPO is required to have the current Year 2050 LRTP and FY 2021-2024 TIP updated by February 2024. The two-year update cycle was kicked off with GDOT in May 2022. Local funds are being used to generate the Base Year 2020 data and it is hoped the PL funds will be in place to complete the effort to generate Year 2050 SES projections by the end of the current calendar year. The next year will be spent developing the travel demand model, identifying projects, developing fiscal projections and matching resources to project needs. Activities in all eight Planning Emphasis Areas will be considered in the development of the plan documents.

COST DESCRIPTION (contract, staff, purchase data costs, etc.):

The funding will be used to hire a consulting team under a pre-approved Scope of Work. The process to hire the consultant will be concluded prior to the Fall meeting of the PL Funds Committee. In this way the work can begin immediately upon award of PL funds.

PL FUNDS: \$160,000 (estimated) (100%)

LOCAL MATCH (CASH): \$ 40,000 (20%)

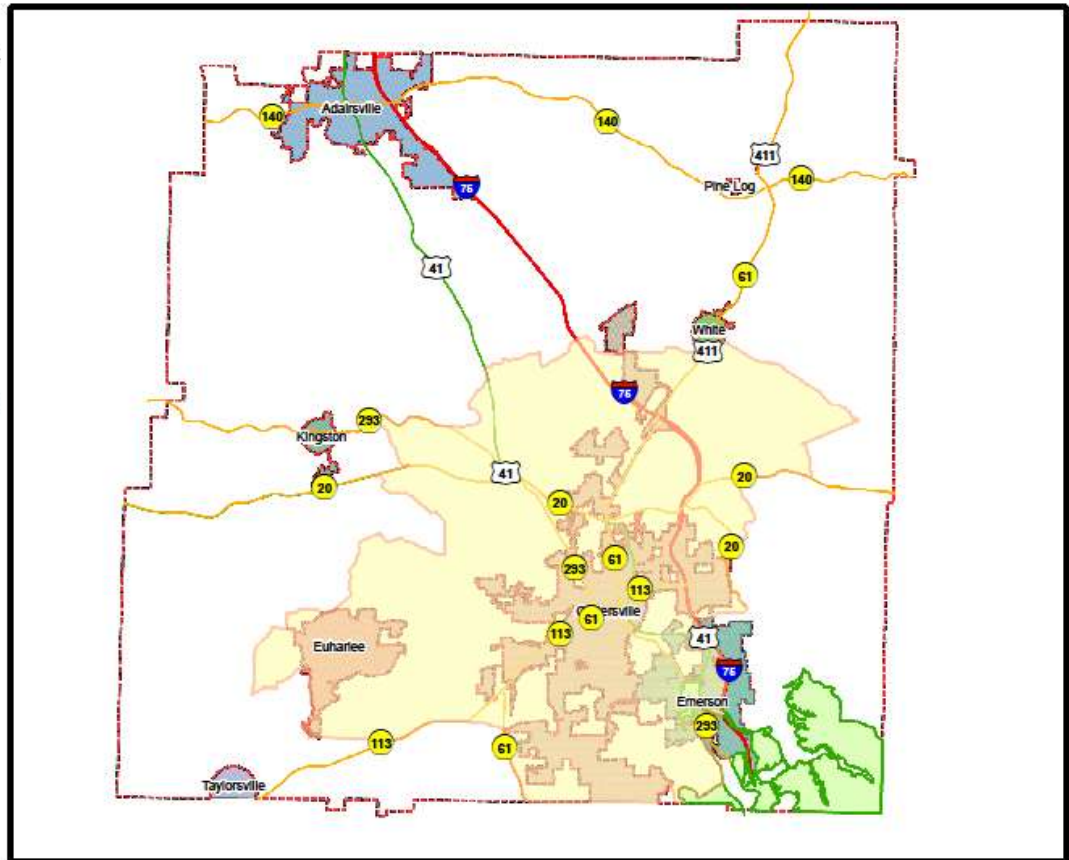
LOCAL MATCH (IN-KIND): \$ 0 (0%)

TOTAL COST: \$200,000

MAPS/IMAGES OF PROJECT:

CBMPO Study Boundary Map

- Legend**
- Cartersville 2010 UZA
 - Atlanta 2010 UZA
 - GARoutes
 - USRoutes
 - Interstates
- Local Governments**
- Adairsville
 - Cartersville
 - Emerson
 - Euharlee
 - Kingston
 - Pine Log
 - Taylorville
 - White
- MPO Study Boundary



LONG-RANGE TRANSPORTATION PLAN SCOPE

PROJECT DESCRIPTION

Update the CBMPO FY 2050 Long-Range Transportation Plan (LRTP) and FY 2021-24 Transportation Improvement Program (TIP) using 2020 as the Base Year and 2050 as the Future Year.

SCOPE OF SERVICES

1.0 Project Administration

The Consultant's Project Manager, in coordination with the MPO staff, will be responsible for directing and coordinating all activities associated with the project.

- a) Progress Reports and Invoices. The Consultant will review the project schedule and prepare monthly progress reports for review by the MPO staff. Invoices for all work completed during the period will be submitted monthly for work performed by the Consultant and all Sub consultants.
- b) Control/Scheduling. At the beginning of the project the Consultant will prepare a graphic schedule indicating tasks, milestones, and deliverables.
- c) Sub-consultant Management and Meetings. The Consultant will prepare subcontracts for Sub-consultant(s), monitor Sub-consultant staff activities and adherence to schedules, and review and recommend approval of Sub consultant invoices.
- d) Quality Assurance/Quality Control. The Consultant will provide continuous quality assurance and quality control throughout the life of the study.

2.0 Calibrate Data and Maps

Calibrate and finalize the data and produce appropriate charts, maps and tables for the new Plan:

- a) Location Map, including UZA boundary
- b) Updated base year population and employment data
- c) Updated tables/graphs of projected population, household, employment, and other demographic data
- d) Population and employment maps by TAZ
- e) Most currently available crash data from GDOT GEARS database for a 3-year period
- f) Most currently available transit service and ridership data from Bartow County Transit Department
- g) Funding - obtain historic and most currently available data on local transportation funding from local, County, SPLOST, state and federal sources.

2.0 Travel Modeling

Work with GDOT to generate travel model inputs, including formatting socioeconomic input values, identifying roadway networks to be modeled, and generating calibrated travel models.

3.0 Develop Updated LRTP and TIP

Develop an updated FY 2050 Long-Range Transportation Plan (LRTP) and FY 24-27 Transportation Improvement Program (TIP). Projects from the current documents will be identified which have been completed or are underway. The consultant will identify E+C list and network based on current TIP and SPLOST program. The updated LRTP will identify unmet future travel needs based on the review of existing conditions, community equity, community resilience, planned improvements, and analysis of 2050 E+C results. The updated LRTP will identify unmet or unfunded maintenance needs, mobility and access issues, and incorporate adopted performance targets for safety; transit asset management,

bridge safety and system performance. The updated TIP will present projects from the LRTP needing funding over the FY 2024-2027 time frame.

- a) Project concepts and costs
 - i) Prepare high-level concepts for up to 6 priority projects. It is understood that the level of effort would vary by complexity of projects. Should the firm be chosen the price will need to identify the assumptions used in pricing this effort
 - ii) Conduct planning-level feasibility screening for up to 6 priority projects (from available data sources and windshield survey; no detailed environmental studies)
 - iii) Prepare or update planning-level costs for all projects and programs.
- b) Performance Measures and Analysis
 - i) Safety (PM1)
 - ii) Bridge Safety (PM2)
 - iii) System Performance (PM3)
 - iv) Freight
 - v) Transit
 - vi) Community Equity
 - vii) Community resilience
- c) Financial Analysis
 - i) Base funding forecast (based on current trends and funding levels)
 - ii) Funding variability and alternatives
 - iii) Fiscally constrained forecast

4.0 Outreach and Involvement

Prepare for and participate in public outreach and stakeholder involvement. This includes participation and presentation at up to 5 MPO meetings and 2 Public Meetings. This includes the preparation of content for the MPO website and local news outlets. The consultant will also prepare and conduct up to two online surveys in formats that reach out to traditionally underserved populations (existing conditions/needs survey early in the process; priorities survey during plan development phase).

5.0 Develop New LRTP and TIP Documents

The overall goal is to have the plan documents completed and approved by GDOT, FTA and FHWA by February 28, 2024. To accomplish this, the draft plan will need to be prepared and ready to submit to public review and comment by November 2023. **The product will include eleven (11) printed copies, one version in PDF format, and an electronic version of the documents suitable for publication on the MPO website. The chosen consultant will also provide any underlying calculations and spreadsheets.**

Cartersville-Bartow Metropolitan Planning Organization (CBMPO) Travel Demand Model Development Schedule

Project Start: Mon, 4/4/2022

					2022			2023				2024
TASK	ASSIGNED TO	START	END	WORK DAYS	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
A. Base Year (2020) & Future Year (2050) Model Socioeconomic (SE) Data Development and Review		4/4/22	11/18/22	165	[Gantt bar]							
A1	TAZ review and update	GDOT and Consultants	4/4/22	4/29/22	20	[Gantt bar]						
A2	GDOT/MPO Kick-off meeting	GDOT/MPO	4/20/22	4/20/22	1	[Gantt bar]						
A3	2020 SE data development	MPO Staff	5/2/22	7/29/22	65	[Gantt bar]						
A4	2020 SE data review	GDOT and Consultants	8/1/22	8/19/22	15	[Gantt bar]						
A5	2020 SE data finalized (Draft approved by TCC and PC)	MPO Staff	8/22/22	8/26/22	5	[Gantt bar]						
A6	2050 SE data development	MPO Staff	8/1/22	10/7/22	50	[Gantt bar]						
A7	2050 SE data review	GDOT and Consultants	10/10/22	10/28/22	15	[Gantt bar]						
A8	2050 SE data finalized (approval by PC)	MPO Staff	10/31/22	11/18/22	15	[Gantt bar]						
B. Base Year (2020) Model Development - 1st Network		4/25/22	12/23/22	175	[Gantt bar]							
B1	Provide projects that were constructed/started during 2015 to 2020	MPO Staff	4/25/22	7/1/22	50	[Gantt bar]						
B2	Develop 2020 input network	GDOT and Consultants	5/2/22	8/19/22	80	[Gantt bar]						
B3	1st Network - 2020 Base Year model validation	GDOT and Consultants	8/22/22	12/23/22	90	[Gantt bar]						
C. Future Year (2050) "Do Nothing" and TCC/PC Meeting		7/4/22	3/15/23	183	[Gantt bar]			[Gantt bar]				
C1	Provide projects that were constructed/started during 2020 to 2022 if any - for 2nd Network	MPO Staff	7/4/22	12/23/22	125	[Gantt bar]						
C2	2nd Network - 2050 "Do-Nothing" model development	GDOT and Consultants	12/26/22	3/10/23	55	[Gantt bar]	[Gantt bar]					
C3	TCC meeting to approve the 2015 and 2050 "Do-Nothing" models	GDOT and MPO	3/15/23	3/15/23	1	[Gantt bar]						
D. Future Year (2050) MTP Model Development - 3rd to 6th Networks <i>(*Dates can be updated later to reflect/follow MTP schedule)</i>		12/26/22	9/22/23	195	[Gantt bar]			[Gantt bar]				
D1	Provide 2050 STIP OR "E+C" project list - for 3rd Network <i>(Due to time constraints, only one network will be developed, either E+C or STIP)</i>	MPO Staff	12/26/22	3/17/23	60	[Gantt bar]	[Gantt bar]					
D2	3rd Network - 2050 "E+C" or STIP model development	GDOT and Consultants	3/20/23	5/12/23	40	[Gantt bar]	[Gantt bar]					
D3	Provide 2050 MTP project list for 4th Network	MPO Staff	3/20/23	5/12/23	40	[Gantt bar]	[Gantt bar]					
D4	4th Network - 2050 MTP model development	GDOT and Consultants	5/15/23	7/7/23	40	[Gantt bar]	[Gantt bar]					

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TASK	ASSIGNED TO	START	END	WORK DAYS	2022			2023				2024	
					Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	
D5	<i>Provide 2050 MTP financially constrained project list for 5th Network</i>	<i>MPO Staff</i>	<i>5/15/23</i>	<i>7/21/23</i>	50								
D6	5th Network - 2050 MTP financial constrained model development	GDOT and Consultants	7/24/23	9/8/23	35								
D7	Model documentation	GDOT and Consultants	5/15/23	9/22/23	95								
E. MPO 2050 MTP Development (*Dates for MPO staff to update)			11/1/22	2/4/24	329								
E1	<i>2050 MTP draft document and incorporate model results, address Policy Committee review comments</i>	<i>MPO Staff</i>	<i>11/1/22</i>	<i>11/15/23</i>	272								
E2	<i>Public Comment Period on draft 2050 MTP (46 calendar days)</i>	<i>MPO Staff</i>	<i>11/16/23</i>	<i>12/31/23</i>	32								
E3	<i>Review comments and document responses from Public Comment Period, final version for Policy Committee</i>	<i>MPO Staff</i>	<i>1/1/24</i>	<i>1/15/24</i>	11								
E4	<i>Finalize 2050 MTP</i>	<i>MPO Staff</i>	<i>1/16/24</i>	<i>2/1/24</i>	13								
E5	<i>PC Adopts Final 2050 MTP</i>	<i>MPO</i>	<i>2/2/24</i>	<i>2/4/24</i>	1								

*Workdays exclude holidays.

Assumption Source:

- 1. The CBMPO Transportation Coordinating Committee meets on the third Wednesday of each month at 10:00 a.m. https://www.bartowcountygga.gov/departments/community_development/mpo/committees.php