

Johnson City *MTPO*
Metropolitan Transportation Planning Organization

Fiscal Years 2020-2021 Unified Planning Work Program

Planning Priorities and Activities for the Johnson City MTPO
from October 1, 2019 to September 30, 2021

Federal-Aid Project Number SPR-PL-1(355)

Adopted August 28, 2019

Amended April 27, 2021

This Unified Planning Work Program was developed by the Johnson City MTPO, in cooperation with:

U.S. Department of Transportation

Federal Highway Administration

Federal Transit Administration

Tennessee Department of Transportation

An electronic copy of this document can be found on our website at <https://jcmpo.org/upwp.html>.

If you need this document translated into Spanish or any other language, please contact the MPO Manager, by phone at (423) 434-6272 or email at jcmpo@jcmpo.org.

Spanish Translation of the above statement:

Si usted necesita este documento resumido en español contacta por favor al Coordinador del MTPO. Numero de telefono (423) 434-6272, correo electronico: jcmpo@jcmpo.org.

The Johnson City Metropolitan Transportation Planning Organization (MTPO) ensures compliance with Title VI of the Civil Rights Act of 1964; 49 CFR, part 26; related statutes and regulations to the end that no person shall be excluded from participation in or be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance from the U.S. Department of Transportation on the grounds of race, color, sex or national origin.

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**RESOLUTION OF THE EXECUTIVE BOARD OF THE JOHNSON CITY METROPOLITAN TRANSPORTATION
PLANNING ORGANIZATION TO APPROVE AND ADOPT
THE FISCAL YEARS 2020-2021 UNIFIED PLANNING WORK PROGRAM**

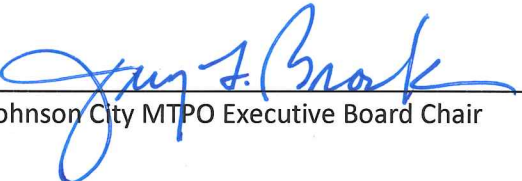
WHEREAS, a comprehensive, cooperative, and continuing transportation process is to be carried out in the Johnson City Metropolitan Planning Area; and

WHEREAS, under federal planning guidelines, Metropolitan Planning Organizations are required to submit a Unified Planning Work Program (UPWP) that identifies the transportation planning projects and planning activities to be undertaken by local, regional, and/or state agencies for the Johnson City Metropolitan Transportation Planning Organization (MTPO) Metropolitan Planning Area (MPA) for Fiscal Years 2020-2021; and

WHEREAS, the various state, local and regional agencies involved with transportation planning for the Johnson City MTPO MPA have cooperatively developed a UPWP for Fiscal Years 2020-2021; and

WHEREAS, the staff of the Johnson City MTPO, Tennessee Department of Transportation, Federal Highway Administration and Federal Transit Administration have reviewed the Fiscal Years 2020-2021 UPWP and found it satisfies federal requirements; and

NOW, THEREFORE, BE IT RESOLVED the Johnson City MTPO Executive Board does hereby approve and adopt the Fiscal Years 2020-2021 UPWP.



Johnson City MTPO Executive Board Chair

28 AUG 2019

Date



Johnson City MTPO Executive Staff Chair

28 AUG 2019

Date

RESOLUTION OF THE EXECUTIVE BOARD OF THE JOHNSON CITY METROPOLITAN TRANSPORTATION PLANNING ORGANIZATION TO

Amend the Fiscal Years 2020-2021 Unified Planning Work Program (UPWP) to replace Task E with a new task to update the Regional Intelligent Transportation System (ITS) Architecture and Deployment Plan in partnership with TDOT and move the funding to Fiscal Year 2021

WHEREAS, a comprehensive cooperative and continuing transportation planning process is to be carried out in the Johnson City Metropolitan Transportation Area; and

WHEREAS, under Federal Planning Guidelines MPOs are required to submit a Unified Planning Work Program (UPWP) that identifies the transportation planning projects and planning activities to be undertaken by local, regional, and or state agencies for the Johnson City MTPO Area for Fiscal Years 2020-2021; and

WHEREAS, the Fiscal Years 2020-2021 UPWP needs to be amended to replace Task E with a new task to update the Regional Intelligent Transportation System (ITS) Architecture and Deployment Plan; and

WHEREAS, the MTPO staff proposes to reallocate the funding for the old task to the new task and move the funding to Fiscal Year 2021; and

WHEREAS, the project to update the plan is a partnership between the Tennessee Department of Transportation and the Johnson City MTPO through the Planning Assistance Program; and

NOW, THEREFORE, BE IT RESOLVED that the Executive Board of the Johnson City Metropolitan Transportation Planning Organization does hereby amend the Fiscal Years 2020-2021 Unified Planning Work Program (UPWP) to replace Task E with a new task to update the Regional Intelligent Transportation System (ITS) Architecture and Deployment Plan in partnership with TDOT and move the funding to Fiscal Year 2021.



MTPO Executive Board, Chairperson

4-27-2021

Date



MTPO Executive Staff, Chairperson

27 APRIL 2021

Date

List of Abbreviations

ADA	Americans with Disabilities Act
AMPO	Association of Metropolitan Planning Organizations
CFR	Code of Federal Regulations
CPG	Consolidated Planning Grant
COOP	Continuity Of Operations Planning
EDC	Every Day Counts
EPA	Environmental Protection Agency
ETRIMS	Enhanced Tennessee Roadway Information Management System
FAST Act	Fixing America's Surface Transportation Act
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
FY	Fiscal Year
GIS	Geographic Information Systems
GPS	Global Positioning System
ITS	Intelligent Transportation Systems
JCT	Johnson City Transit
LRPD	Long Range Planning Division
L RTP	Long Range Transportation Plan (State)
MAP-21	Moving Ahead for Progress in the 21 st Century Act
MOA	Memorandum of Agreement
MPA	Metropolitan Planning Area
MPO	Metropolitan Planning Organization
MTP	Metropolitan Transportation Plan
MTPO	Metropolitan Transportation Planning Organization
PEL	Planning and Environmental Linkages
PL 112	Section 112 of the Federal-Aid Highway Act of 1973 (Public Law 93-87)
PPP	Public Participation Plan
RPO	Rural Planning Organization
Sec. 5303	Title 49, United States Code, Section 5303 (Transit Planning)
SHRP	Strategic Highway Research Program
SPR	State Planning and Research Funds
TAM	Transit Asset Management
TDOT	Tennessee Department of Transportation
TIP	Transportation Improvement Program
TITAN	Tennessee Integrated Traffic Analysis Network
TNMUG	Tennessee Model Users Group (Travel Demand Model)
TPM	Transportation Performance Management
TPR	Transportation Planning Report
TSMO	Transportation System Management and Operations
UPWP	Unified Planning Work Program
USC	United States Code
U.S. DOT	United States Department of Transportation
VMT	Vehicle Miles Traveled

Section 1 – About the UPWP

The Johnson City Metropolitan Transportation Planning Organization (MTPO) was established in 1982 when the 1980 Census identified the Johnson City Urbanized Area (urban areas with a population of at least 50,000). Federal law requires the Johnson City MTPO to conduct transportation planning activities within the Johnson City Urbanized Area in a continuous, cooperative, and comprehensive process, as defined in the following federal legislation and regulations:

- Current Transportation Authorization – Fixing America’s Surface Transportation (FAST) Act;
- Past Transportation Authorization – Moving Ahead for Progress in the 21st Century (MAP-21) Act;
- Metropolitan Transportation Planning – Title 23 of the United States Code (USC), Section 134;
- Formula Grant Program for Metropolitan Planning – Title 49 of the USC, Section 5303;
- Metropolitan Transportation Planning and Programming – Title 23 of the Code of Federal Regulations (CFR), Section 450; and
- Metropolitan Transportation Planning and Programming –Title 49 of the CFR, Section 613, Subpart A.

In order to carry out these duties, the Johnson City MTPO staff develops a work program in the form of a document called the Unified Planning Work Program, or UPWP as it is often referred to by transportation professionals. This two-year UPWP covers Federal Fiscal Years 2020-2021, beginning on October 1, 2019 and ending on September 30, 2021. The UPWP identifies tasks ranging from data collection tasks to plan development, ongoing administrative activities and special projects. As a result, these tasks support the **continuing, comprehensive and cooperative** planning process.

The UPWP is developed by the Johnson City MTPO staff in conjunction with its member jurisdictions, two local public transit providers, Tennessee Department of Transportation (TDOT), Federal Highway Administration (FHWA), and Federal Transit Administration (FTA). The MTPO staff announced the solicitation of projects for a new UPWP at the Executive Board meeting on November 14, 2018 and discussed that several local jurisdictions approached the MTPO with potential projects. Elizabethton asked for assistance with an ADA Transition Plan but it was ineligible for PL funds and recommended to use STBG funds instead. Johnson City asked the MTPO to fund a sub-area study on transportation needs within the city. Jonesborough asked for assistance with a Transportation Planning Report (TPR) for a proposed parkway; however, TDOT is taking the lead on funding and managing this study. In addition, the three MPOs within the Tri-Cities area have discussed potential ramifications of the 2020 Census and the chairman of the Executive Staff of the Johnson City MTPO requested to commission a study. TDOT also provided the MTPO with information on the I-26 Corridor Study already in progress.

The draft UPWP is then submitted to TDOT, FHWA, and FTA for comments. Once the comments have been adequately addressed, the UPWP is recommended for adoption by the Johnson City MTPO Executive Board. The Executive Board meeting is advertised at least seven days before the meeting and the draft UPWP is placed on the MTPO’s website. Then, the adopted UPWP is forwarded to TDOT and approved by FHWA and FTA.

Section 2 – Planning Focus Areas of the Johnson City MTPO

The Johnson City MTPO plans to focus on four areas for the two-year period in the UPWP. The first is to maintain the MPO program to remain eligible for federal transportation funds, including the maintenance of the four main planning documents and everyday operations. The second focus is to monitor transit funding as distributed by TDOT to area public transit providers. The third focus is to conduct a sub-area study in Johnson City to identify projects in order to prepare for the future update to the Metropolitan Transportation Plan (MTP). In the second year, the MTPO staff will focus on the 2020 Census and its potential effect on the MPOs in the Tri-Cities region, along with tracking any changes with the new transportation authorization act, when passed by Congress. These activities are explained in more detail in the Work Program in Section 9.

Section 3 – Funding Sources

The primary funding sources to accomplish tasks identified in the UPWP is provided by two programs. First, the FHWA Section 112 Metropolitan Transportation Planning funds (PL 112) and second, the FTA Section 5303 Transit Planning funds. TDOT participates in the Consolidated Planning Grant (CPG) Program, where they receive a direct apportionment of both types of funds and combine them into a single fund administered by FHWA. The funds are distributed to the MPOs and administered by TDOT’s Long Range Planning Division (LRPD) in accordance with 23 CFR 420.109. Both types of funds are distributed based on a formula. The PL 112 formula gives each MPO a base amount plus an amount based on their 2010 Census Urbanized Area population and the formula also retains a small portion for TDOT to use for the benefit of all the MPOs. The distribution formula for the 5303 funds is based on each MPO’s 2010 Census Urbanized Area population. TDOT also receives an allocation of State Planning and Research Funds (SPR) from FHWA and Section 5304 transit planning funds from FTA that are available to assist MPOs and transit agencies across the state.

As with most grants, matching funds are required. **Table 1** below shows each funding program and the required matching ratios. The funds originating with FHWA require a 20% local match, resulting in an 80% Federal/20% Local split. The funds originating with FTA also require 20% matching funds. TDOT provides half of the match, resulting in an 80% Federal/10% State/10% Local split.

Table 1 – Funding Sources and Ratios

Funding Program	Program Description	Federal	State	Local
FHWA (PL 112)	Provides funding to the MPOs to establish a cooperative, continuous, and comprehensive framework for making transportation investment decisions in metropolitan areas	80%	0%	20%
FTA (Sec. 5303)	Provides funding and procedural requirements to the MPOs for multimodal transportation planning in metropolitan areas	80%	10%	10%

Table 2 and **Table 3** on the next two pages identify the amount of funding that has been obligated in previous fiscal years (shown as carryover/residual) and the amount of available, unobligated new allocation of funds for a total available balance of funding to program for tasks in the UPWP for the

Johnson City MTPO. From this available balance, we subtracted the programmed funds for each work task identified in this UPWP, revealing the total amount that needs to be obligated for FY 2020 and 2021 and the amount that will remain available to be programmed but unobligated. The unprogrammed and/or unobligated funding will become carryover funds to the next fiscal year.

Depending on the task, other funding sources may be used. If so, they are identified in the detail section of each task in the UPWP. However, it should be noted, without the FHWA PL 112 and FTA Section 5303 funds, the Johnson City MTPO would not be able to operate in its current capacity as the majority of these funds are used for its operations. The City of Johnson City provides the majority of the local matching funds, with other jurisdictions contributing the match for projects specific to their locale.

Table 2 – Transportation Planning Funding Programs, FY 2020

Funding Program	Total	Federal	State	Local
CPG - Federal Highway Administration (80/0/20)				
FHWA (PL 112) (Percentages)	100%	80%	0%	20%
Est. Carryover/Residual (already obligated)*	\$725,000	\$580,000	\$0	\$145,000
Plus FY 2020 Est. Allocation (not obligated)	\$301,114	\$240,891	\$0	\$60,223
Total Available Balance for FY 2020	\$1,026,114	\$820,891	\$0	\$205,223
Minus FY 2020 Programmed Funds	\$240,000	\$192,000	\$0	\$48,000
Total Amount to be Federally Obligated	\$0	\$0	\$0	\$0
<i>Est. Obligated Funds to Carryover into FY 2021</i>	\$485,000	\$388,000	\$0	\$97,000
<i>Est. Unobligated Funds to Carryover into FY 2021</i>	\$301,114	\$240,891	\$0	\$60,223
CPG - Federal Transit Administration (80/10/10)				
FTA (Sec. 5303) (Percentages)	100%	80%	10%	10%
Est. Carryover/Residual (already obligated)	\$103,000	\$82,400	\$10,300	\$10,300
Plus FY 2020 Est. Allocation (not obligated)	\$64,296	\$51,436	\$6,430	\$6,430
Total Available Balance for FY 2020	\$167,296	\$133,836	\$16,730	\$16,730
Minus FY 2020 Programmed Funds	\$60,000	\$48,000	\$6,000	\$6,000
Total Amount to be Federally Obligated	\$0	\$0	\$0	\$0
<i>Est. Obligated Funds to Carryover into FY 2021</i>	\$43,000	\$34,400	\$4,300	\$4,300
<i>Est. Unobligated Funds to Carryover into FY 2021</i>	\$64,296	\$51,436	\$6,430	\$6,430

*Assumes full FY 2019 allocation was obligated

Table 3 – Transportation Planning Funding Programs, FY 2021

Funding Program	Total	Federal	State	Local
CPG - Federal Highway Administration (80/0/20)				
FHWA (PL 112) (Percentages)	100%	80%	0%	20%
Est. Carryover/Residual (already obligated)	\$485,000	\$388,000	\$15,000	\$82,000
Plus FY 2020 Remaining Alloc. (not obligated)	\$301,114	\$240,891	\$0	\$60,223
Plus FY 2021 Est. Allocation (not obligated)	\$301,114	\$240,891	\$0	\$60,223
Total Available Balance for FY 2021	\$1,087,228	\$869,782	\$15,000	\$202,446
Minus FY 2021 Programmed Funds	\$345,000	\$276,000	\$15,000	\$54,000
Total Amount to be Federally Obligated	\$0	\$0	\$0	\$0
<i>Est. Obligated Funds to Carryover into FY 2022</i>	<i>\$140,000</i>	<i>\$112,000</i>	<i>\$0</i>	<i>\$28,000</i>
<i>Est. Unobligated Funds to Carryover into FY 2022</i>	<i>\$602,228</i>	<i>\$481,782</i>	<i>\$0</i>	<i>\$120,446</i>
CPG - Federal Transit Administration (80/10/10)				
FTA (Sec. 5303) (Percentages)	100%	80%	10%	10%
Est. Carryover/Residual (already obligated)	\$43,000	\$34,400	\$4,300	\$4,300
Plus FY 2020 Remaining Alloc. (not obligated)	\$64,296	\$51,436	\$6,430	\$6,430
Plus FY 2021 Est. Allocation (not obligated)	\$64,296	\$51,436	\$6,430	\$6,430
Total Available Balance for FY 2021	\$171,592	\$137,272	\$17,160	\$17,160
Minus FY 2021 Programmed Funds	\$120,000	\$96,000	\$12,000	\$12,000
Total Amount to be Federally Obligated	\$77,000	\$61,600	\$7,700	\$7,700
<i>Est. Obligated Funds to Carryover into FY 2022</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>	<i>\$0</i>
<i>Est. Unobligated Funds to Carryover into FY 2022</i>	<i>\$51,592</i>	<i>\$41,272</i>	<i>\$5,160</i>	<i>\$5,160</i>

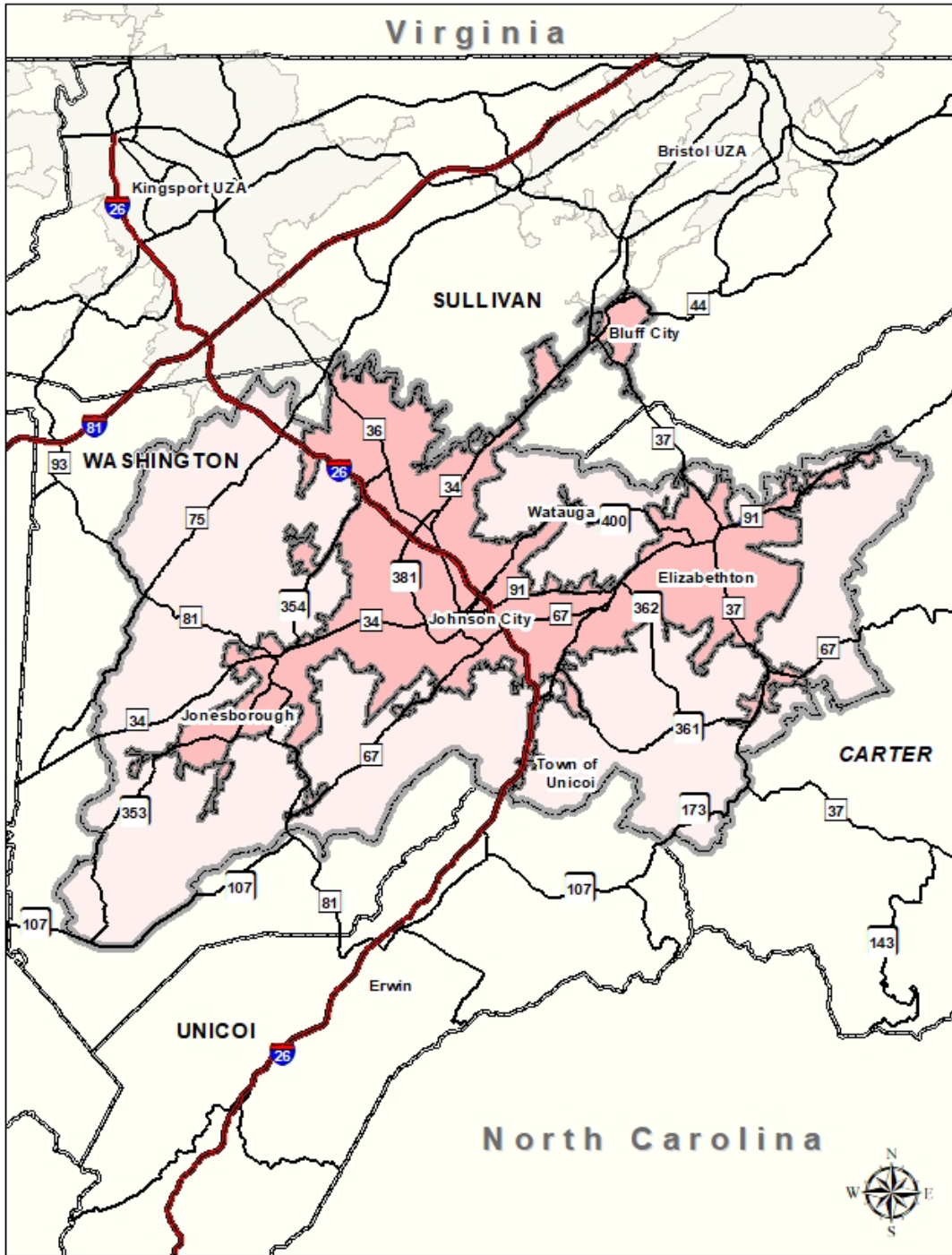
Section 4 – About the Johnson City MTPO

Johnson City MTPO Metropolitan Planning Area

The Johnson City MTPO Metropolitan Planning Area (MPA) consists of the Town of Bluff City, the City of Elizabethton, the City of Johnson City, the Town of Jonesborough, a portion of the Town of Unicoi, and parts of Carter, Sullivan and Washington Counties. At a minimum, the MPA boundaries shall encompass the entire existing urbanized area (as defined by the Bureau of the Census) plus the contiguous area expected to become urbanized within a 20-year forecast period for the metropolitan transportation plan. The map in **Figure 1** on the next page shows the Johnson City MTPO Urbanized Area, as well as the MPA boundaries for the Johnson City MTPO. The current boundary was adopted by the Johnson City MTPO Executive Board at its meeting on October 9, 2014 and approved by the Governor of the State of Tennessee on December 17, 2014.

Figure 1

Johnson City MTPO MPA Boundary



Legend

- Johnson City 2010 Urbanized Area - Smoothed
- Johnson City MTPO MPA Boundary - October 2014
- County Boundaries
- Interstate
- State Routes

0 1.25 2.5 5 7.5 10 Miles

SCALE 1:400,000

Organizational Structure

The Johnson City MTPO is organized as an Executive Board, Executive Staff and administrative staff. The Executive Board, or Policy Board, is the overall governing body for the Johnson City MTPO and is supported by the Executive Staff and the Johnson City MTPO administrative staff.

Executive Board

The Executive Board is the governing body of the Johnson City MTPO and has the authority to adopt plans, programs, and policies. The Executive Board includes the top elected officials from the member jurisdictions.

- Mayor of the City of Johnson City – Executive Board Chairman
- Mayor of the City of Elizabethton – Member
- Mayor of the Town of Bluff City - Member
- Mayor of the Town of Jonesborough – Member
- Mayor of the Town of Unicoi – Member
- Mayor of Carter County – Member
- Mayor of Washington County – Member
- Governor of Tennessee – Member
- Tennessee County Highway Officials Association – Chosen Representative – Member

Members of the Executive Board may designate a representative to serve on the board in their absence. Due to the duties and responsibilities of their office, the Governor of Tennessee usually sends a representative to meetings on their behalf.

Executive Staff

The Executive Staff is responsible for providing guidance and approval for formulation of work programs and budgetary allocations for MTPO programs and projects in the Johnson City Urbanized Area. Executive Board members, the chief elected officials of each jurisdiction, are responsible for overall policy direction and makes recommendations to the Executive Board.

- City Manager, City of Johnson City – Executive Staff Chairman
- City Manager, City of Elizabethton – Member
- City Manager, Town of Bluff City – Member
- Administrator, Town of Jonesborough – Member
- Town Recorder, Town of Unicoi – Member
- Highway Superintendent, Carter County – Member
- Highway Superintendent, Washington County – Member
- Johnson City Transit (JCT) – Member
- First Tennessee Development District – Member
- TDOT – Member

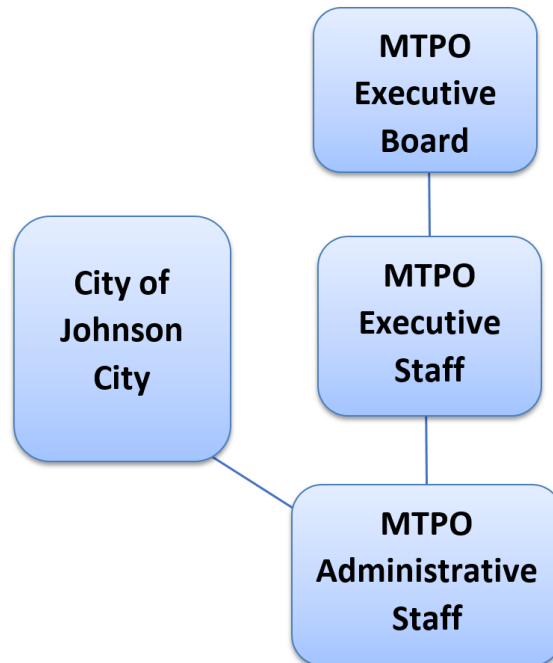
FHWA and FTA are non-voting members of the Executive Staff. When necessary, the Executive Staff can assign tasks to other employees of their agency to assist with transportation projects.

Administrative Staff

The administrative staff of the Johnson City MTPO is housed as a division of the City of Johnson City. As required by federal law, the Johnson City MTPO is still responsible for coordinating transportation planning activities for all its member jurisdictions, as shown in **Figure 2** below. The administrative staff is also responsible for ongoing administration and day-to-day operations for the Johnson City MTPO.

Figure 2

Johnson City MTPO Organizational Chart



Section 5 – Public Participation

In accordance with the Johnson City MTPO Public Participation Plan (PPP), after TDOT, FHWA and FTA have reviewed the UPWP, the draft is made available on the Johnson City MTPO website at <https://icmpo.org/upwp.html> for public review. The UPWP is reviewed and discussed at meetings of the Johnson City Executive Board and Executive Staff and adopted by the Executive Board. The Executive Board meeting is advertised at least seven days in advance. Any comments made are recorded and addressed before the UPWP is adopted. The final document is available on the website and copies are available at the MTPO administrative offices.

Section 6 – Amendments and Administrative Modifications

The UPWP can be modified or amended throughout the year if needed. An amendment is required if funding for a required task needs to be increased over 20% of the amount programmed for that task, if a new task is added, if new or previously unprogrammed funds are added, if there is a major scope change to an existing task or if an existing task is deleted. Before an amendment to the UPWP is final, the amendment is placed on the Johnson City MTPO Executive Board agenda for their approval and adoption.

The adopted amendment is then forwarded to TDOT and officially reviewed and approved by FHWA and FTA.

The UPWP can be administratively modified if funding for a required task is not over 20% of the amount programmed for that task or a technical correction is made to a task that does not change its scope. The modification is sent to TDOT and forwarded to FHWA and FTA for their files.

Section 7 – Title VI / Environmental Justice / ADA

The Johnson City MTPO will continue to advocate for the fair treatment and meaningful involvement of all people regardless of race, color, national origin, sex, income, and disability. The Johnson City MTPO maintains an active Title VI program which is reviewed by the TDOT Civil Rights Office on a triennial basis. The most recent Title VI program can be found on the website at <https://jcmpo.org/titlevi.html>. The program will be updated per TDOT's schedule. The webpage currently provides contact information for the Title VI coordinator, along with forms for the complaint process. All projects using federal highway and transit funds for the Johnson City MTPO comply with Title VI, Environmental Justice and the Americans with Disabilities Act (ADA).

Section 8 – Federal Planning Factors

Federal transportation legislation defines ten specific planning factors to be considered when developing transportation plans and programs in MPO areas. The planning factors are found in Title 23 of the United States Code, Section 134(h). The Johnson City MTPO will continue incorporating the ten federal planning factors into the works tasks and resulting products provided for in this UPWP. The ten planning factors are:

1. **Economic Vitality** – Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.
2. **System Safety** – Increase the safety of the transportation system for motorized and non-motorized users.
3. **System Security** – Increase the security of the transportation system for motorized and non-motorized users.
4. **Accessibility & Mobility** – Increase the accessibility and mobility of people and freight.
5. **Enhance Environment** – Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.
6. **Integration and Connectivity** – Enhance the integration and connectivity of the transportation system, across and between modes throughout the metropolitan region, for people and freight.
7. **System Management and Operations** – Promote efficient system management and operation.
8. **System Preservation** – Emphasize the preservation of the existing transportation system.

9. **System Resiliency** – Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation.

10. **Travel & Tourism** – Enhance travel and tourism.

Table 4 illustrates each of the planning factors and summarizes which of the work tasks address that factor.

Table 4

Summary of Planning Factors Matrix

Planning Factors	Tasks						
	A1- Admin Activities	A2 – Data Inventories	B – MTP	C – TIP	D – Transit Planning	E – Reg. ITS Arch.	F – TMA Study
Economic Vitality	✓	✓	✓	✓	✓		✓
System Safety	✓	✓	✓	✓	✓	✓	✓
System Security	✓	✓	✓	✓	✓	✓	✓
Accessibility & Mobility		✓	✓	✓	✓	✓	✓
Enhance Environment			✓	✓	✓		✓
Integration and Connectivity	✓	✓	✓	✓	✓	✓	✓
Systems Management and Operations	✓	✓	✓	✓	✓	✓	✓
System Preservation		✓	✓	✓	✓	✓	✓
System Resiliency	✓	✓	✓	✓	✓		✓
Travel & Tourism	✓	✓	✓	✓	✓	✓	✓

The following Work Program provides more details on activities for each task that address the appropriate planning factor, listed in brackets. The planning factors are shortened to one word – Economic, Safety, Security, Mobility, Environment, Connectivity, Operations, Preservation, Resiliency, and Tourism.

Section 9 – Work Program

Task A1 – Administrative Activities

Responsible Agencies: Johnson City MTPO, TDOT – Long Range Planning Division, Office of Local Programs, Program Development Division and the Division of Multimodal Transportation Resources, FHWA, FTA

Purpose: To conduct continuing, cooperative, and comprehensive transportation planning activities consistent with the MPA’s comprehensive general plans and ensure that all transportation projects meet federal and state requirements.

Previous Work: This is a continuing work activity; however, the following notable undertakings were made in FY 2019:

- Assisted TDOT and consultant on the multimodal corridor study on Interstate 26 by advising team on deficiencies, assisting with public outreach, and providing feedback on possible solutions;
- The MTPO coordinated with TDOT and public transit providers to execute a new planning agreement;
- Hosted a meeting with regional agencies to review the ITS Architecture service packages and tour the new Johnson City Traffic Management Center;
- Adopted safety performance targets for the five-year period of 2015-2019;
- Adopted two- and four-year performance targets for pavement/bridge conditions and system performance; and
- Developed and submitted a new two-year UPWP to cover FYs 2020-2021.

Activities for FY 2020 and 2021

- Maintain the FYs 2020-2021 UPWP with any necessary amendments or administrative modifications;
- Develop, adopt and submit the two-year FY 2022-2023 UPWP;
- Work with TDOT and FHWA to prepare and submit financial invoices and progress reports on a quarterly basis, along with documentation for expenses;
- Work with TDOT to adopt safety performance targets for the five-year periods of 2016-2020 and 2017-2021 [**Safety**];
- Continue to work with TDOT and consultant on multimodal corridor study on Interstate 26 by recommending project priorities from presented solutions [**All Planning Factors**];
- Prepare for and host Executive Board, Executive Staff and public meetings/workshops as needed;
- Continue to participate in sponsored trainings, workshops and/or online training courses provided by the National Highway Institute, National Transit Institute and/or other federal or state agencies to maintain proficiency in the field;

- Attend statewide monthly conference calls, quarterly meetings, annual conference and/or webinars with TDOT and MPOs, along with Interagency Consultation bi-monthly conference calls;
- Attend meetings of the First Tennessee Rural Planning Organization, Washington County Local Emergency Planning Committee **[Security/ Resiliency]**, and Tennessee Model Users Group;
- Attend meetings with other MPOs in the region, along with other MPOs across Tennessee and in other states, to foster a regional approach to transportation planning and share ideas;
- Maintain annual organizational membership to the Association of MPOs and attend annual conference;
- Attend Transportation Research Board's Annual Meeting and bi-annual Tools of the Trade Conference;
- Attend meetings with the Northeast Tennessee Valley Regional Industrial Development Association and the Northeast Tennessee Regional Economic Partnership on transportation projects that support economic development and growth in the Johnson City MTPO MPA **[Economic]**;
- Attend other transportation-related meetings and/or conferences with pre-approval by TDOT and FHWA;
- Continue to communicate with the TDOT Office of Local Programs for the implementation of projects as they relate to the MTP and TIP with member jurisdictions;
- Maintain Title VI Program, attend training and complete the next assessment when due **[Environment]**;
- Track the new transportation authorization act as it moves through Congress, along with reading updates provided by the staff of AMPO, who actively monitors activity in Washington, and review any changes that need to be made to planning documents and funding sources for projects;
- Check for effectiveness of the PPP to determine if an update is needed after a new transportation authorization act is passed; if so, the MTPO staff will amend the document to incorporate and note the changes, using the required process for agency review and public comment **[Environment]**;
- Update and maintain any required Memorandums of Understanding and/or Agreement with other MPOs, TDOT or public transit providers;
- Coordinate with TDOT Region 1 on Traffic Incident Management activities with regional first responders to enhance safety, reduce traffic congestion, and reduce secondary traffic crashes on highways **[Security/ Operations/ Resiliency]**;
- Annually review the Johnson City ITS Regional Architecture with regional agencies to log implementations to the service packages as they occur to prepare for the full update at a later date **[Mobility/ Operations]**;
- Prepare and maintain Johnson City MTPO contact lists as needed, along with maintaining annual subscription of email distribution software Constant Contact;
- Relay information about meetings, agendas, and updates to all Executive Board and Executive Staff members;
- Process and execute contractual documents and grant amendments, as required;
- Update By-Laws and Prospectus, as needed;

- Update Continuity of Operations Plan (COOP), as needed, to ensure the continuity of essential office functions in the occurrence of a major event/emergency/disaster [**Operations/ Resiliency**];
- Purchase of items including, but not limited to, meeting supplies, office supplies, desktop software, office equipment (such as computers and printers), publications, and duplication services, when necessary, for day-to-day operations. Also, purchase of services, such as translation and captioning, as needed; and
- The Long Range Planning Division of TDOT will work jointly with the MPO to establish the required administrative and technical procedures and prepare contractual agreements. In addition, the Long Range Planning Division will attend technical and policy board meetings, distribute information on federal transportation planning guidelines and requirements, conduct seminars and work sessions, review the MPO’s transportation planning studies and reports, and undertake general administrative activities.

End Products (Schedule) – FY 2020

End Product	By Whom	When
Prepare for and host Executive Board and Executive Staff meetings	Johnson City MTPO Staff	As needed Oct 1, 2019 – Sept 30, 2020
Attend meetings, trainings, workshops and conferences	Johnson City MTPO Staff	As needed Oct 1, 2019 – Sept 30, 2020
Quarterly Invoices and Progress Reports	Johnson City MTPO Staff; TDOT Staff	Oct 2019, Jan 2020, Apr 2020, July 2020
Adopt performance targets for safety for the five-year period of 2016-2020	Johnson City MTPO Staff; TDOT Staff	By Feb 2020
Assist with Multimodal Corridor Study on Interstate 26	Johnson City MTPO Staff; TDOT Staff; Consultant	By Summer 2020
Submit Title VI Program Assessment	Johnson City MTPO Staff; TDOT Staff	By Aug 2020

End Products (Schedule) – FY 2021

End Product	By Whom	When
Prepare for and host Executive Board and Executive Staff meetings	Johnson City MTPO Staff	As needed Oct 1, 2020 – Sept 30, 2021
Attend meetings, trainings, workshops and conferences	Johnson City MTPO Staff	As needed Oct 1, 2020 – Sept 30, 2021
Quarterly Invoices and Progress Reports	Johnson City MTPO Staff; TDOT Staff	Oct 2020, Jan 2021, Apr 2021, July 2021
Develop two-year FY 2022-2023 UPWP for review	Johnson City MTPO Staff; TDOT Staff; FHWA/FTA Staff	By Feb 2021
Adopt performance targets for safety for the five-year period of 2017-2021	Johnson City MTPO Staff; TDOT Staff	By Feb 2021
Attend Title VI Training	Johnson City MTPO Staff	By May 2021
Check for effectiveness of PPP after new transportation act is passed and amend if necessary	Johnson City MTPO Staff	By July 2021
Adopt and submit two-year FY 2022-2023 UPWP	Johnson City MTPO Staff; TDOT Staff; FHWA/FTA Staff	By Aug 2021

Planning Factors Considered: This task considers seven of the ten FAST Act Planning Factors, as shown in **Table 4** on page 14 while conducting administrative activities, and noted with individual activities, which are Economic Vitality, System Safety, System Security, Integration and Connectivity, System Management and Operations, System Resiliency, and Travel and Tourism.

Budget and Funding Source

Task A1 – Administrative Activities – FY 2020				
CPG Federal Funds		TDOT Match	Local Match	Johnson City MTPO Total
FHWA	FTA*			
\$96,000	\$24,000	\$3,000	\$27,000	\$150,000

Task A1 – Administrative Activities – FY 2021				
CPG Federal Funds		TDOT Match	Local Match	Johnson City MTPO Total
FHWA	FTA*			
\$80,000	\$24,000	\$3,000	\$23,000	\$130,000

**Please note that although FTA provides funds to MPOs for metropolitan planning, they are no longer an oversight agency for the CPG.*

Task A2 – Data Inventories and Surveillance

Responsible Agencies: Johnson City MTPO, TDOT – Long Range Planning Division

Purpose: To collect and maintain an inventory of transportation, traffic, safety, demographic, and land-use data and analyze it as it relates to the update of the MTP and other various plans, programs and studies. Data and information is also disseminated to the public by way of the Johnson City MTPO website.

Previous Work: This is a continuing work activity; however, the following notable undertakings were made in FY 2019:

- Partnered with a graduate student group from East Tennessee State University (ETSU) for a class project to analyze crash data in GIS, with a cascading story map as a presentation;
- Maintained Esri GIS Enterprise license, in cooperation with the City of Johnson City, and purchased additional specialty add-ons; also maintained TransCAD license;
- Maintained the Johnson City MTPO website with all documents, meetings, public notices, and upcoming events for public viewing;
- TDOT collected traffic volume data throughout the Johnson City MTPO MPA; and
- TDOT is also maintaining crash data in the E-TRIMS website.

Activities for FY 2020 - 2021

- Utilize professional services, such as contracting with the Geosciences Department at ETSU, to assist as needed in data collection, analyzation, organization, traffic count, transportation system resiliency, and maintenance of GIS databases [**Economic/ Safety/ Security/ Resiliency**];
- Maintain the database for TransCAD model, which includes economic, population and socioeconomic data, for the future update of the MTP – this would include purchase of databases, such as ReferenceUSA and Woods & Poole data, if available [**All Planning Factors**];
- Receive transit data collection and analysis, including transit patron surveys, GIS analysis, passenger trip data collected on transit vehicles, and other methods as provided from public transit providers [**Mobility/ Connectivity/ Resiliency/ Tourism**];
- Regional traffic count information is maintained (via interactive mapping system) on the Johnson City MTPO website via a link to the TDOT statewide count information and also downloaded and shown in an interactive ArcGIS Online map [**Economic/ Safety/ Operations**];
- Although TDOT collects traffic count data at established stations, special traffic counts may be conducted by the local agencies within the Johnson City MTPO MPA, which may require the use and/or purchase of special equipment [**Economic/ Safety/ Operations**];
- Maintain the Johnson City MTPO website and social media to provide up-to-date information and enhanced access to transportation planning products for the public and Johnson City MTPO member agencies;
- Maintain licenses for existing software: TransCAD for Travel Demand Model, Esri ArcGIS products for Geographical Information Systems (GIS), Google Earth Pro, website development software and hosting, and other software packages;

- Purchase computer systems capable of storing, retrieving, correlating, analyzing, and displaying geographic information. This includes purchases of equipment needed by the Johnson City MTPO for storing data and for display purposes for various visualization techniques;
- Work with TDOT to update and maintain the functional classification system for the Johnson City MTPO MPA **[Preservation]**;
- TDOT will coordinate with MPOs for statewide data acquisition purchase for the travel forecasting and other transportation planning activities;
- TDOT will continue to collect annual traffic count data at established stations;
- TDOT will conduct special traffic counts as needed for planning and design projects;
- TDOT will maintain file on crashes and furnish high hazard listings and other safety data as required; and
- Travel time studies will be conducted by TDOT, if needed, for special studies.

End Products (Schedule) – FY 2020

End Product	By Whom	When
Contract with Geosciences Department at ETSU	Johnson City MTPO Staff; ETSU Geosciences Staff	Fall 2019
Jointly fund data acquisition purchase for travel forecasting with TDOT	Johnson City MTPO Staff; TDOT Staff	Fall 2019
Purchase ReferenceUSA data	Johnson City MTPO Staff	Oct 2019
Acquire 2019 traffic count data from TDOT	Johnson City MTPO Staff; TDOT Staff	Spring 2020
Purchase Esri ArcGIS licenses	Johnson City MTPO Staff	Aug 2020
Purchase TransCAD license	Johnson City MTPO Staff	Aug 2020

End Products (Schedule) – FY 2021

End Product	By Whom	When
Contract with Geosciences Department at ETSU	Johnson City MTPO Staff; ETSU Geosciences Staff	Fall 2020
Purchase ReferenceUSA data	Johnson City MTPO Staff	Oct 2020
Acquire 2020 traffic count data from TDOT	Johnson City MTPO Staff; TDOT Staff	Feb 2021
Purchase Esri ArcGIS licenses	Johnson City MTPO Staff	Aug 2021
Purchase TransCAD license	Johnson City MTPO Staff	Aug 2021
Begin to acquire data needs for Coordinated Plan and MTP update	Johnson City MTPO Staff; TDOT Staff; Consultant	Aug – Sep 2021

Planning Factors Considered: This task considers nine of the ten FAST Act Planning Factors, as shown in **Table 4** on page 14 and noted with individual activities, while collecting and analyzing data, which are Economic Vitality, System Safety, System Security, Accessibility and Mobility, Integration and Connectivity, System Management and Operations, System Preservation, System Resiliency, and Travel and Tourism.

Budget and Funding Source

Task A2 – Data Inventories & Surveillance – FY 2020				
CPG Federal Funds		TDOT Match	Local Match	Johnson City MTPO Total
FHWA	FTA*			
\$56,000	\$0	\$0	\$14,000	\$70,000

Task A2 – Data Inventories & Surveillance – FY 2021				
CPG Federal Funds		TDOT Match	Local Match	Johnson City MTPO Total
FHWA	FTA*			
\$36,000	\$0	\$0	\$9,000	\$45,000

**Please note that although FTA provides funds to MPOs for metropolitan planning, they are no longer an oversight agency for the CPG.*

Task B – Metropolitan Transportation Plan

Responsible Agencies: Johnson City MTPO, TDOT – Long Range Planning Division

Purpose: To provide a continuously updated comprehensive transportation plan that will provide for the long-range transportation needs of the Johnson City MTPO MPA.

Previous Work:

- Monitored the 2045 MTP; and
- Prepared language regarding performance measures and targets should the need arise to amend the MTP.

Activities for FY 2020 - 2021

For the Johnson City MTPO:

- Maintain the 2045 MTP and make any necessary amendments or administrative modifications (as needed) **[All Planning Factors]**;
- Ensure all projects within the current TIP comply with the 2045 MTP;
- Attend any workshops or class that may be beneficial for updating the future MTP;
- Analyze performance targets as they are set and how they might affect the current 2045 MTP, should an amendment be needed before the next MTP update **[Safety/ Operations/ Preservation]**;
- Should an amendment be required, staff has budgeted funding to bring back the consultant who assisted with the original MTP in order to integrate performance measures and targets;
- Assist TDOT with maintaining Statewide Long Range Transportation Plan (LRTP) **[All Planning Factors]**;
- Make any necessary updates to the current MTP for requirements issued by new transportation authorizations;
- If future air quality standards change and affect the Johnson City MTPO MPA, the Johnson City MTPO will update or develop necessary plans, models, and documents to make the Johnson City MTPO MPA air quality compliant. (Note: At this time, the Johnson City MTPO MPA is in attainment status) **[Mobility/ Environment]**; and
- Issue a Request for Proposals to update the 2045 MTP (in conjunction with the update to the Coordinated Public Transit- Human Services Transportation Plan) and the Travel Demand Model and evaluate proposals to select the best-rated firm **[All Planning Factors]**.

End Products (Schedule) – FY 2020

End Product	By Whom	When
Maintain 2045 MTP with amendments and modifications	Johnson City MTPO Staff	As Needed
Continue to analyze performance targets as they affect the 2045 MTP	Johnson City MTPO Staff; TDOT Staff; FHWA/ FTA Staff	Ongoing

End Products (Schedule) – FY 2021

End Product	By Whom	When
Maintain 2045 MTP with amendments and modifications	Johnson City MTPO Staff	As Needed
Continue to analyze performance targets as they affect the 2045 MTP	Johnson City MTPO Staff; TDOT Staff; FHWA/ FTA Staff	Ongoing
Issue Request for Proposal for update to the MTP (in conjunction with the update to the Coordinated Plan)	Johnson City MTPO Staff	By Apr 2021
Evaluate proposals and select the best-rated firm	Johnson City MTPO Staff	By Jun 2021
Issue contract (purchase order) to selected firm	Johnson City MTPO Staff	By Jul 2021

Planning Factors Considered: All ten FAST Act Planning Factors are considered when making any updates to the MTP, and noted with individual activities, which are Economic Vitality, System Safety, System Security, Accessibility and Mobility, Enhance Environment, Integration and Connectivity, System Management and Operations, System Preservation, System Resiliency, and Travel and Tourism.

Budget and Funding Source

Task B – Metropolitan Transportation Plan – FY 2020				
CPG Federal Funds		TDOT Match	Local Match	Johnson City MTPO Total
FHWA	FTA*			
\$20,000	\$0	\$0	\$5,000	\$25,000

Task B – Metropolitan Transportation Plan – FY 2021				
CPG Federal Funds		TDOT Match	Local Match	Johnson City MTPO Total
FHWA	FTA*			
\$20,000	\$8,000	\$1,000	\$6,000	\$35,000

**Please note that although FTA provides funds to MPOs for metropolitan planning, they are no longer an oversight agency for the CPG.*

Task C – Transportation Improvement Program

Responsible Agency: Johnson City MTPO, Public Transit Providers

Purpose: To prepare and maintain an accurate, timely, and fiscally constrained Transportation Improvement Program (TIP).

Previous Work:

- Administrative modifications and amendments were completed as needed to the FY 2017-2020 TIP;
- A Call for Projects was issued to jurisdictions in the November 14th Executive Board meeting;
- Projects in the current TIP were analyzed for inclusion in the new TIP;
- The draft FY 2020-2023 TIP was submitted for state and federal review in late May 2019;
- After comments were resolved, the draft TIP was posted for public comment; and
- Annual Listing of Obligated Projects for FY 2018 was made available to the public.

Activities for FY 2020 – 2021

- Maintain the accuracy of the FY 2017-2020 TIP through amendments and administrative modifications when necessary while remaining fiscally constrained **[All Planning Factors]**;
- Adopt the FY 2020-2023 TIP and submit it to TDOT for inclusion in the Statewide TIP (STIP) **[All Planning Factors]**;
- Maintain the accuracy of the FY 2020-2023 TIP through amendments and administrative modifications when necessary while remaining fiscally constrained **[All Planning Factors]**;
- Modify the TIP with updated performance targets, when necessary;
- Maintain the electronic TIP with quarterly federal obligations, when received from TDOT;
- Coordinate existing TIP projects with local, state, and federal agencies;
- Publish the FY 2019 and FY 2020 Annual Listing of Obligated Projects; and
- The TDOT Office of Local Programs will coordinate, review and assist the Johnson City MTPO in maintenance of the TIP as it relates to the successful implementation and deployment of local projects. The Office of Local Programs will coordinate projects with FHWA on behalf of the Johnson City MTPO and participate in Johnson City MTPO meetings.

End Products (Schedule) – FY 2020

End Products	By Whom	When
Maintain the current TIP with amendments and administrative modifications	Johnson City MTPO Staff; Public Transit Providers' Staff; TDOT Staff; FHWA/FTA Staff	As Needed
Modify current and draft TIP with adopted regional Transit Asset Management targets	Johnson City MTPO Staff; Public Transit Providers' Staff; TDOT Staff; FTA Staff	By Oct 2019
Adopt FY 2020-2023 TIP	Johnson City MTPO Staff; TDOT Staff; FHWA/FTA Staff	Oct/Nov 2019
FY 2019 Annual Listing of Obligated Projects will be made available	Johnson City MTPO Staff; TDOT Staff	Nov/Dec 2019
Modify TIP with adopted safety performance targets for time period 2016-2020	Johnson City MTPO Staff; TDOT Staff; FHWA Staff	By Feb 2020

End Products (Schedule) – FY 2021

End Products	By Whom	When
Maintain the TIP with amendments and administrative modifications	Johnson City MTPO Staff; Public Transit Providers' Staff; TDOT Staff; FHWA/FTA Staff	As Needed
Modify TIP with adopted regional Transit Asset Management and new Safety targets	Johnson City MTPO Staff; Public Transit Providers' Staff; TDOT Staff; FTA Staff	By Oct 2020
FY 2020 Annual Listing of Obligated Projects will be made available	Johnson City MTPO Staff; TDOT Staff	Nov/Dec 2020
Modify TIP with adopted safety performance targets for time period 2017-2021	Johnson City MTPO Staff; TDOT Staff; FHWA Staff	By Feb 2021

Planning Factors Considered: All ten FAST Act Planning Factors will be considered during the development and maintenance of the TIP, and noted with individual activities, which are Economic Vitality, System Safety, System Security, Accessibility and Mobility, Enhance Environment, Integration and

Connectivity, System Management and Operations, System Preservation, System Resiliency, and Travel and Tourism.

Budget and Funding Source

Task C – Transportation Improvement Program – FY 2020				
CPG Federal Funds		TDOT Match	Local Match	Johnson City MTPO Total
FHWA	FTA*			
\$20,000	\$4,000	\$500	\$5,500	\$30,000

Task C – Transportation Improvement Program – FY 2021				
CPG Federal Funds		TDOT Match	Local Match	Johnson City MTPO Total
FHWA	FTA*			
\$20,000	\$4,000	\$500	\$5,500	\$30,000

**Please note that although FTA provides funds to MPOs for metropolitan planning, they are no longer an oversight agency for the CPG.*

Task D – Transit Planning

Responsible Agency: Johnson City MTPO, Public Transit Providers, TDOT – Division of Multimodal Transportation Resources, FTA

Purpose: To administer funds, coordinate planning activities, and to encourage citizen knowledge and awareness of public and private transit services.

Previous Work:

- Monitored communication with TDOT Multimodal staff on the Section 5307 funding formula for distribution of allocation to the small urbanized areas to minimize disruption to current services;
- Maintained the Coordinated Public Transit – Human Services Transportation Plan (Coordinated Plan) by meeting with the Advisory Committee to assess progress in spring 2019;
- Public transit providers shared their TAM performance targets for the state FY 2020 in June 2019;
- Regional TAM performance targets were adopted by the Executive Board in August 2019; and
- Conducted public participation activities for transit projects for the new TIP.

Activities for FY 2020 – 2021

- Continue to work with TDOT Multimodal staff as they provide funding to bridge the gap in providing services for urban to urban trips not covered by an urban transit provider and that this Critical Trips funding program will continue **[Economic/ Safety/ Mobility/ Environment/ Connectivity/ Resiliency/ Tourism]**;
- Continue to be a stakeholder in regional transit planning meetings and discussions, including monitoring the annual distribution of Section 5307 funds to area public transit providers **[Economic/ Safety/ Mobility/ Environment/ Connectivity/ Resiliency/ Tourism]**;
- Work with TDOT and public transit providers to adopt regional Transit Asset Management (TAM) targets for state FY 2021 and 2022 **[Mobility/ Operations/ Preservation/ Resiliency]**;
- Work with TDOT and public transit providers to adopt regional transit safety targets as part of the state sponsored Transportation Public Agency Safety Plan (due by July 20, 2020) for state FY 2021 and 2022 **[Safety/ Security]**;
- Organize meeting with the Advisory Committee to assess progress on the Coordinated Plan **[Economic/ Safety/ Mobility/ Environment/ Connectivity/ Resiliency/ Tourism]**;
- In conjunction with contracting with a consultant for the update of the MTP, the MTPO staff will include in the Request for Proposals the update to the 2017 Coordinated Plan; and
- The Multimodal Transportation Resources Division of TDOT will administer state and federal programs regarding river transportation, urban public transportation, rail service, ride-sharing, and transportation systems management. Representatives of this office will participate in MPO meetings, distribute federal transit guidelines and requirements, conduct seminars and work sessions, and review MPO studies and reports. This office will coordinate FTA Section 5307, 5310 and 5339 funding programs in Tennessee, administer TIP amendments and adjustments for projects involving FTA funding and/or public transportation activities, and review documents to

ensure that transit and rail is giving due consideration in the planning process. It should be noted that there are no “navigable rivers” in the Johnson City MTPO MPA; however, there are two class 1 and one class 3 railroads.

End Products (Schedule) – FY 2020

End Products	By Whom	When
Organize Advisory Committee meeting on Coordinated Plan	Johnson City MTPO Staff; Public Transit Providers’ Staff; Advisory Committee	Spring 2020
Collaborate to finalize regional TAM performance targets for FY 2021	Johnson City MTPO Staff; Public Transit Providers’ Staff	By Jul 2020
Collaborate to finalize regional transit safety performance targets for FY 2021	Johnson City MTPO Staff; Public Transit Providers’ Staff; TDOT Staff	By Jul 2020
Adopt regional TAM and safety performance targets for FY 2021	Johnson City MTPO Staff; Public Transit Providers’ Staff; TDOT Staff; FTA Staff	By Aug 2020

End Products (Schedule) – FY 2021

End Products	By Whom	When
Organize Advisory Committee meeting on Coordinated Plan	Johnson City MTPO Staff; Public Transit Providers’ Staff; Advisory Committee	Spring 2021
Issue Request for Proposal for update to the Coordinated Plan (in conjunction with the update to the MTP)	Johnson City MTPO Staff	By Apr/May 2021
Collaborate to finalize regional TAM performance targets for FY 2022	Johnson City MTPO Staff; Public Transit Providers’ Staff	By Jul 2021
Collaborate to finalize regional transit safety performance targets for FY 2022	Johnson City MTPO Staff; Public Transit Providers’ Staff	By Jul 2021
Adopt regional TAM and safety performance targets for FY 2022	Johnson City MTPO Staff; Public Transit Providers’ Staff; TDOT Staff; FTA Staff	By Aug 2020
Begin the update to the Coordinated Plan	Johnson City MTPO Staff; Public Transit Providers’ Staff; TDOT Staff; Regional Stakeholders; Consultant	By Aug 2021

Planning Factors Considered: All ten FAST Act Planning Factors will be considered during transit planning, and noted with individual activities, which are Economic Vitality, System Safety, System Security, Accessibility and Mobility, Enhance Environment, Integration and Connectivity, System Management and Operations, System Preservation, System Resiliency, and Travel and Tourism.

Budget and Funding Source

Task D – Transit Planning – FY 2020				
CPG Federal Funds		TDOT Match	Local Match	Johnson City MTPO Total
FHWA	FTA*			
\$0	\$20,000	\$2,500	\$2,500	\$25,000

Task D – Transit Planning – FY 2021				
CPG Federal Funds		TDOT Match	Local Match	Johnson City MTPO Total
FHWA	FTA*			
\$0	\$24,000	\$3,000	\$3,000	\$30,000

**Please note that although FTA provides funds to MPOs for metropolitan planning, they are no longer an oversight agency for the CPG.*

Task E –Regional Intelligent Transportation System (ITS) Architecture and Deployment Plan update

Responsible Agencies: TDOT, Long Range Planning Division and Johnson City MTPO

Purpose: To update the Regional Intelligent Transportation System (ITS) Architecture and Deployment Plan through a partnership with TDOT and the Johnson City MTPO.

Activities for FY 2021

- Meet with the Johnson City MTPO and its stakeholders (electronically) to review the current state of ITS in the region and get updates on any implementations;
- Convert and review the Johnson City MTPO Turbo Architecture database to the latest version (9.0 or higher) of Regional Architecture Development for Intelligent Transportation (RAD-IT).
- Review and include any new service packages, etc., that have been developed with the National ITS Reference Architecture that would be applicable;
- Prepare a draft document for review by the stakeholders, TDOT and FHWA staff;
- Address comments from these three entities and revise the draft document; and
- Finalize the document and provide all related items to the Johnson City MTPO for keeping and displaying on their website (unless the contractor provides their own website).

End Products (Schedule) – FY 2021

End Products	By Whom	When
TDOT to issue Call for Proposals to on-call consultants	TDOT Staff	By May 2021
Evaluate proposals and issue contract to the selected firm	TDOT Staff	By May 2021
Meet with stakeholders to discuss existing and planned projects since the last plan update	Johnson City MTPO Staff; Stakeholders; Consultant	By June 2021
Review service packages	Stakeholders; Consultant; Johnson City MTPO Staff	By July 2021
Convert and review Turbo Architecture	Stakeholders; Consultant; Johnson City MTPO Staff	By Aug 2021
Submit final document	TDOT staff; Consultant; Johnson City MTPO Staff; FHWA staff	By Dec 2021

Planning Factors Considered: This task considers seven of the ten FAST Act Planning Factors, as shown in **Table 4** on page 14 and noted with individual activities, which are System Safety, System Security, Accessibility and Mobility, Integration and Connectivity, System Management and Operations, System Preservation, and Travel and Tourism.

Budget and Funding Source

Task E – Regional ITS Architecture – FY 2021				
CPG Federal Funds		TDOT Match ¹	Local Match	Johnson City MTPo Total
FHWA	FTA			
\$60,000	\$0	\$15,000	\$0	\$75,000

1 – Match provided by TDOT through the Planning Assistance Program

Task F – Transportation Management Area (TMA) Study

Responsible Agency: Johnson City MTPO

Purpose: To analyze the possibility of the 2020 Census designating one urbanized area with a population over 200,000, and the effect of becoming a Transportation Management Area (TMA).

Activities for FY 2021

- Issue a Request for Proposals to contract with a consultant to prepare a TMA study of the Johnson City and Kingsport Urbanized Areas, evaluate proposals and select the best-rated firm;
- The consultant will study the possibility that the 2020 Census could combine the Kingsport and Johnson City Urbanized Areas (and possibly Bristol) into one **[All Planning Factors]**;
- Such a combination would push the population of the single urbanized area over 200,000, resulting in a designation as a TMA;
- Consultant will study the additional ways that TMAs are subject to special planning and programming requirements and their effect;
- The effects will include transportation planning regulations; highway formula funding direct allocations; new requirements to distribute FTA Section 5307 and 5310 allocations; and
- The final study will guide future elected officials and MPOs' staff making the transition, should it come to pass.

End Products (Schedule) – FY 2021

End Products	By Whom	When
Issue Request for Proposal for TMA Study	Johnson City MTPO Staff	By Oct 2020
Evaluate proposals and select the best rated firm	Johnson City MTPO Staff	By Nov 2020
Issue contract (purchase order) to selected firm	Johnson City MTPO Staff	By Dec 2020
Gather information and conduct analysis of impact	Johnson City MTPO Staff; Consultant	By June 2020
Submit final document	Johnson City MTPO Staff; Consultant	By Sep 2021

Planning Factors Considered: All ten FAST Act Planning Factors will be considered during the development of the TMA study, and noted with individual activities, which are Economic Vitality, System Safety, System Security, Accessibility and Mobility, Enhance Environment, Integration and Connectivity, System Management and Operations, System Preservation, System Resiliency, and Travel and Tourism.

Budget and Funding Source

Task E – Transportation Management Area Study – FY 2021				
CPG Federal Funds		TDOT Match	Local Match	Johnson City MTPO Total
FHWA	FTA*			
\$60,000	\$36,000	\$4,500	\$19,500	\$120,000

**Please note that although FTA provides funds to MPOs for metropolitan planning, they are no longer an oversight agency for the CPG.*

Task G: ADA Transition Plan for the City of Elizabethton

Background: The City of Elizabethton (the project lead and responsible agency) has received Surface Transportation Block Grant funds that were programmed in the FY 2017-2020 TIP and carried over into the FY 2020-2023 TIP. These funds are also being shown in this UPWP, by request of FHWA.

Responsible Agency: City of Elizabethton

Purpose: To hire a consultant to complete an ADA Transition Plan that will improve accessibility to those with disabilities to comply with ADA requirements.

Activities for FY 2020

- Obligate funds;
- Issue a Request for Proposals to contract with a consultant to complete the ADA Transition Plan, evaluate proposals and select the best-rated firm; and
- Consultant will gather and analyze existing data, prepare a Self-Evaluation analysis and present a final ADA Transition Plan for the City of Elizabethton.

End Products (Schedule) – FY 2020

End Products	By Whom	When
Evaluate consultants from TDOT’s approved list	City of Elizabethton Staff	By Oct 2019
Receive the Notice to Proceed	City of Elizabethton Staff	By Oct 2019
Issue contract to selected firm	City of Elizabethton Staff	By Nov 2019
Gather data and conduct analysis	City of Elizabethton Staff; Consultant	By Jun 2020
Prioritize list of projects in Self-Evaluation	City of Elizabethton Staff; Consultant	By Aug 2020
Submit final ADA Transition Plan document	City of Elizabethton Staff; Consultant	By Sept 2020

Budget and Funding Source

ADA Transition Plan – FY 2020				
STBG Funds		TDOT Match	Local Match	Project Total
FHWA	FTA			
\$140,000	\$0	\$0	\$35,000	\$175,000

Other Transportation Planning Tasks in the Johnson City MTPO MPA

Although not the responsibility of the Johnson City MTPO, there are several other transportation planning tasks that are being implemented within the Johnson City MTPO MPA:

1. **TDOT Road Safety Audits**

TDOT conducts, upon request of local officials, road safety audits that are intended to eliminate or alleviate safety concerns that have been identified when studying crash data and from actual field investigations. According to TDOT, road safety audits are used primarily as “quick” improvements to correct safety issues such as lack of signing or striping or to correct minor geometric deficiencies. Typically, all improvements occur within the existing right-of-way and are completed within one (1) year of the final report. The cost of each of the studies and implementations vary by multiple projects.

2. **Interstates 55, 75 & 26 Multimodal Corridor Study**

The purpose of a Multimodal Corridor Study is to identify short- and long-term solutions for improving problem spots along entire corridors. The results will provide a prioritized listing of potential multimodal projects that can be considered by TDOT or by local planning organizations.

Interstates 55, 75 & 26 and 40 & 81 have been classified in the Tennessee Long-Range Transportation Plan as routes critical to statewide mobility and regional connectivity. The Plan classified routes needing improvement, while protecting and maximizing capacity over the next decade.

The studies will also investigate a range of multimodal solutions to address future travel demands, with emphases on managing congestion, improving safety, maximizing the potential for freight diversion and preserving/enhancing the corridors’ economic benefits. Both technical analysis and input from local officials and individuals are needed to provide as much data as possible (<https://www.tn.gov/tdot/projects/transportation-studies.html>). These studies will be completed in 18-months.

The Interstate 55/75/26 Multimodal Corridor Study is expected to be completed by March, 2020 and was budgeted for \$1.8 million with \$1,440,000 SPR funds and \$360,000 state funds. The Interstate 40/81 Multimodal Corridor Study is expected to be completed in June, 2020, and was budgeted for \$2.5 million with \$2 million SPR funds and \$500,000 state funds.

Budget Summary – Funding Sources

Table 6
Funding Sources- Johnson City Urbanized Area
Fiscal Year 2020

TASK	CONSOLIDATED PLANNING GRANT					TOTAL
	FHWA PL 112 80%	LOCAL MATCH 20%	FTA Sec. 5303 80%	TDOT MATCH 10%	LOCAL MATCH 10%	
A1. Administration	\$96,000	\$24,000	\$24,000	\$3,000	\$3,000	\$150,000
A2. Data Inventories	\$56,000	\$14,000	\$0	\$0	\$0	\$70,000
B. MTP	\$20,000	\$5,000	\$0	\$0	\$0	\$25,000
C. TIP	\$20,000	\$5,000	\$4,000	\$500	\$500	\$30,000
D. Transit Planning	\$0	\$0	\$20,000	\$2,500	\$2,500	\$25,000
E. Reg. ITS Architecture	\$0	\$0	\$0	\$0	\$0	\$0
F. TMA Study	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$192,000	\$48,000	\$48,000	\$6,000	\$6,000	\$300,000

TASK	FHWA STBG 80%	LOCAL MATCH 20%	TOTAL
G. ADA Transition Plan	\$140,000	\$35,000	\$175,000
TOTAL	\$140,000	\$35,000	\$175,000

Table 7
Funding Sources- Johnson City Urbanized Area
Fiscal Year 2021

TASK	CONSOLIDATED PLANNING GRANT						TOTAL
	FHWA PL 112 80%	TDOT MATCH	LOCAL MATCH 20%	FTA Sec. 5303 80%	TDOT MATCH 10%	LOCAL MATCH 10%	
A1. Administration	\$80,000	\$0	\$20,000	\$24,000	\$3,000	\$3,000	\$130,000
A2. Data Inventories	\$36,000	\$0	\$9,000	\$0	\$0	\$0	\$45,000
B. MTP	\$20,000	\$0	\$5,000	\$8,000	\$1,000	\$1,000	\$35,000
C. TIP	\$20,000	\$0	\$5,000	\$4,000	\$500	\$500	\$30,000
D. Transit Planning	\$0	\$0	\$0	\$24,000	\$3,000	\$3,000	\$30,000
E. Regional ITS Architecture	\$60,000	\$15,000	\$0	\$0	\$0	\$0	\$75,000
F. TMA Study	\$60,000	\$0	\$15,000	\$36,000	\$4,500	\$4,500	\$120,000
TOTAL	\$276,000	\$15,000	\$54,000	\$96,000	\$12,000	\$12,000	\$465,000

TASK	FHWA STBG 80%	LOCAL MATCH 20%	TOTAL
G. ADA Transition Plan	\$0	\$0	\$0
TOTAL	\$0	\$0	\$0

Budget Summary – Agency Participation

Table 8
Agency Participation- Johnson City Urbanized Area
Fiscal Year 2020

TASK		TDOT	MPO	TOTAL
A1.	Administration	\$3,000	\$147,000	\$150,000
A2.	Data Inventories	\$0	\$70,000	\$70,000
B.	MTP	\$0	\$25,000	\$25,000
C.	TIP	\$500	\$29,500	\$30,000
D.	Transit Planning	\$2,500	\$22,500	\$25,000
E.	Regional ITS Architecture	\$0	\$0	\$0
F.	TMA Study	\$0	\$0	\$0
TOTAL		\$6,000	\$294,000	\$300,000

TASK		TDOT	Elizabethton	TOTAL
G.	ADA Transition Plan	\$0	\$175,000	\$175,000
TOTAL		\$0	\$175,000	\$175,000

Table 9
Agency Participation- Johnson City Urbanized Area
Fiscal Year 2021

TASK		TDOT	MPO	TOTAL
A1.	Administration	\$3,000	\$127,000	\$130,000
A2.	Data Inventories	\$0	\$45,000	\$45,000
B.	Long Range Planning	\$1,000	\$34,000	\$35,000
C.	TIP	\$500	\$29,500	\$30,000
D.	Transit Planning	\$3,000	\$27,000	\$30,000
E.	Regional ITS Architecture	\$15,000	\$60,000	\$75,000
F.	TMA Study	\$4,500	\$115,500	\$120,000
TOTAL		\$27,000	\$438,000	\$465,000

TASK		TDOT	Elizabethton	TOTAL
G.	ADA Transition Plan	\$0	\$0	\$0
TOTAL		\$0	\$0	\$0

Budget Summary – Agency Participation by Funding Source

Table 10
Agency Participation by Funding Source
Fiscal Year 2020

AGENCY	CONSOLIDATED PLANNING GRANT					TOTAL
	FHWA PL 112 80%	LOCAL MATCH 20%	FTA SEC. 5303 80%	TDOT MATCH 10%	LOCAL MATCH 10%	
TDOT Match	\$0	\$0	\$0	\$6,000	\$0	\$6,000
MPO	\$192,000	\$48,000	\$48,000	\$0	\$6,000	\$294,000
TOTAL	\$192,000	\$48,000	\$48,000	\$6,000	\$6,000	\$300,000

AGENCY	FHWA STBG 80%	Local Match 20%	TOTAL
Elizabethton	\$140,000	\$35,000	\$175,000
TOTAL	\$140,000	\$35,000	\$175,000

**Table 11
Agency Participation by Funding Source
Fiscal Year 2021**

AGENCY	CONSOLIDATED PLANNING GRANT						TOTAL
	FHWA PL 112 80%	TDOT MATCH	LOCAL MATCH 20%	FTA SEC. 5303 80%	TDOT MATCH 10%	LOCAL MATCH 10%	
TDOT Match	\$0	\$15,000	\$0	\$0	\$12,000	\$0	\$27,000
MPO	\$276,000		\$54,000	\$96,000	\$0	\$12,000	\$438,000
TOTAL	\$276,000	\$15,000	\$54,000	\$96,000	\$12,000	\$12,000	\$465,000

AGENCY	FHWA STBG 80%	Local Match 20%	TOTAL
Elizabethton	\$0	\$0	\$0
TOTAL	\$0	\$0	\$0