JATSO

JOPLIN AREA TRANSPORTATION STUDY ORGANIZATION

UNIFIED PLANNING WORK PROGRAM

NOVEMBER 1, 2008 TO OCTOBER 31, 2009

City of Joplin
Department of Public Works
Division of Planning & Community Development
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LIST OF ABBREVIATIONS

CPG	Consolidated Planning Grant
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
FY	Fiscal Year
GIS	Geographic Information Systems
JATSO	Joplin Area Transportation Study Organization
MAPS	Metropolitan Area Publictransit System
MoDOT	Missouri Department of Transportation
MOU	Memorandum of Understanding
MPO	Metropolitan Planning Organization
O & D	Origin & Destination Study
PIP	Public Involvement Process
SAFETEA-LU	Safe, Accountable, Flexible, Efficient Transportation Equity Act - A Legacy for Users
TIP	Transportation Improvement Program
UPWP	Unified Planning Work Program

INTRODUCTION

Purpose

The Joplin area transportation planning process is an on-going effort that constitutes a branch of activities developed by the Joplin Planning Division and the Public Works Department. The purpose is to analyze and evaluate various types of data (such as demographic, socio-economic, land use and scientific) in order to provide a rational basis for making short-range and long-range decisions about transportation needs in the Joplin metropolitan area. The planning process identifies present and future needs, and develops plans, policies, and projects to carry out objectives identified in the long-range transportation plan.

The transportation planning process is required by federal regulations as a prerequisite to the receipt of federal capital and operating assistance. The end result from this continuing, cooperative, and comprehensive process will include plans and programs that match and enhance the comprehensively planned development of the metropolitan area. In addition, the planning process and requirements mandated by the enacted by the Safe, Accountable, Flexible, Efficient Transportation Equity Act – A Legacy for Users (SAFETEA-LU) will be addressed as part of the Joplin Area Transportation Study Organization's (JATSO) planning activities.

Organization

On May 20, 1983, Governor Christopher Bond of Missouri signed the letter of approval designating the JATSO as the Metropolitan Planning Organization (MPO) for the Joplin metropolitan area under Title 23 of the U.S. Code.

The MPO has designated the City of Joplin as the contracting agent for service agreements involving federal planning funds from the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA). The Harry S. Truman Coordinating Council, the local regional planning commission, represents JATSO in the smaller villages and unincorporated areas in the metropolitan planning area.

The organization and responsibilities of the various agencies involved in the transportation planning process are defined in this Unified Planning Work Program (UPWP), the Memorandum of Understanding, and the JATSO bylaws.

Planning Factors

The metropolitan transportation planning process shall be continuous, cooperative, and comprehensive. It shall provide for consideration and implementation of projects, strategies and services that will address the following eight factors:

1. Support the economic vitality of the Joplin metropolitan area, especially by enabling global competitiveness, productivity and efficiency;

2. Increase the safety of the transportation system for motorized and non-motorized users;

3. Increase the security of the transportation system for motorized and non-motorized users;

4. Increase the accessibility and mobility of people and freight;

5. 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. Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight;

7. Promote efficient system management and operation; and

8. Emphasize the preservation of the existing transportation system.

Eligible Items

There are a number of activities that are considered eligible for transportation planning funds, particularly FHWA and FTA Consolidated Planning Grant (CPG) funds. These include street inventories, map preparation, aerial photography and photogrammetry, traffic volume studies, land use studies, and other studies that support the transportation planning process. Other eligible activities include systems development and project planning, economic and fiscal studies related to streets, project evaluation studies, and compilation of reference statistics.

Tasks Completed in FY 2008 UPWP

Transportation Improvement Program (TIP)

- Staff amended the JATSO FY 2008-11 TIP to include the addition of nine (9) new MoDOT projects and two (2) Safe Routes to School projects.
- Staff maintained and monitored the projects in the JATSO FY 2008-2011 TIP.

Unified Planning Work Program (UPWP)

- Staff maintained and monitored projects in the FY 2008 UPWP.
- Staff prepared quarterly reports to MoDOT for ONEDOT approval.
- Staff created, implemented, and revised the Public Involvement Plan (PIP).
    - The JATSO Policy Board adopted the PIP in December 2007. In August 2008, the Board adopted the revisions to the PIP.
- Staff created the JATSO Memorandum of Understanding (MOU).
    - This document was signed by the Policy Board membership and executed by MoDOT in March 2008.
- Staff revised the 1983 JATSO bylaws.
    - The Policy Board adopted these bylaws in August 2008.

Geographic Information Systems (GIS**)**

- Staff maintained and updated GIS layers utilized by JATSO.

Transit Planning

- Staff monitored the MAPS transit system and collected data and information.

Origin and Destination (O&D) Study

- The consultant, ETC Institute of Olathe, KS, completed the FY 2008 updated study. The study looked at changing economic conditions, travel patterns, growth and other factors in the metro area.

Traffic Signal Study

- The consultant, Ollson Associates, completed the traffic study. The study looked to improve traffic flow through better coordination of municipal and state traffic signals.

JATSO Website Development (ongoing)

- Staff is working on finalizing an agreement with a consultant for the website development.

FY 2009 Program Goals

The annual transportation planning program begins on November 1, 2008 and continues through October 31, 2009. The UPWP is directed toward the continuation and improvement of existing activities and the development of those activities mandated by federal regulations. For fiscal year 2009, JATSO goals are:

- Improve transportation through better cooperation and communication from JATSO, MoDOT, and ONEDOT.
- Create an interactive website that can be easily accessed by the public to view GIS/JATSO data and information.
- Identify growth and changing land use patterns by updating aerial photography through a flyover of the MPO boundaries.
- Examine road capacity by purchasing the transportation model in October 2009 and train JATSO staff on how to use the hardware in FY 2010.
- Increase participation in JATSO by holding more meetings, giving presentations, and increase advertising.

The UPWP annual program consists of the tasks on the following pages.

TASK 1. Transportation Improvement Program

Objective: Develop a fiscally constrained area-wide listing of transportation improvement projects inside the Joplin metropolitan area for a four-year period that is consistent with JATSO's long-range transportation plan.

Current Status: The JATSO FY 2009-2012 TIP was produced by the City of Joplin, Harry S. Truman Coordinating Council, the Missouri Department of Transportation (MoDOT) and other local governments.

Work Items:

- *Administration* – 75%
  - Monitor and maintain the FY 2009-2012 TIP
  - Amend FY 2009-2012 TIP when new projects are added
  - Prepare FY 2010-2013 TIP
  - Prepare the FY 2008 Annual Listing of Obligated Projects
- *Outreach* – 25%
  - Conduct Public Meetings

End Products:

- One (1) JATSO FY 2010-13 TIP
- TIP amendments (as necessary)
- Prepare the FY 2008 Annual Listing of Obligated Projects

Schedule for Completion:

- Activities will be on-going from November 2008 through October 2009.

Budget:

Total Cost	Federal Funds (80%)	Local Funds (20%)
$ 7,035	$ 5,628 (CPG Funds)	$ 1,407 (Joplin)

TASK 2. Unified Planning Work Program

Objective: JATSO staff will maintain the approved UPWP for the current fiscal year 2009 and develop the 2010 UPWP.

Current Status: This task is on-going with activities occurring on a day-to-day or on-demand basis.

Work Items:

- Administration – 75%
  - Monitor and maintain the FY 2009 UPWP
  - Prepare FY 2009 quarterly progress reports
  - Prepare the FY 2010 UPWP
  - Document all MPO activities
- Outreach – 25%
  - Conduct public meetings
  - Create informational brochures
  - Ensure agencies receiving federal transportation funds maintain accurate financial records

End Products:

- Four (4) FY 2009 quarterly progress reports
- One (1) JATSO FY 2010 UPWP

Schedule for Completion:

- Activities will be on-going from November 2008 through October 2009.

Budget:

Total Cost	Federal Funds (80%)	Local Funds (20%)
$ 45,730	$ 36,584 (CPG Funds)	$ 9,146 (Joplin)

TASK 3. Geographic Information Systems (GIS)

Objective: JATSO staff will work with the City of Joplin, the Harry S. Truman Coordinating Council, and other local governments and agencies to update and create databases and collect and input data into the JATSO's GIS.

Current Status: The City of Joplin updates zoning maps within the Joplin corporate boundaries. Census information, other socio-economic data, and additional transportation data of the Joplin area is inserted into GIS databases as it becomes available.

Work Items:

- Administration – 100%
    - Maintain and update GIS layers used by JATSO, the Metro Area Publictransit System (MAPS), the Harry S. Truman Coordinating Council and local governments and agencies.

End Projects:

- Maintained GIS layers
- Updated street, subdivision, zoning, and property ownership layers.
- Updated aerial photography and contour, flood plain, census, environmental and traffic count layers
- A new aerial layer of the JATSO area
- A new subdivision layer of the City of Joplin
- A master street plan layer

Schedule for Completion:

- Activities will be on-going from November 2008 through October 2009.

Budget:

Total Cost	Federal Funds (80%)	Local Funds (20%)
$ 28,140	$ 22,512 (CPG Funds)	$ 5,628 (Joplin)

TASK 4. Transit Planning

Objective:

- To provide program and administrative support for the Metropolitan Area Publictransit System (MAPS).
- To complete long and short-range transit planning responsibilities, including, maintenance of the Coordinated Public Transit – Human Services Transportation Plan.

Current Status:

- JATSO continues to assist MAPS with program support and administration.

Work Items:

- *Administration – 100% -*
  - The MAPS transit coordinator collects and records transit data and information and reports the data findings to local and federal government agencies.
  - The MAPS transit coordinator and JATSO staff use data and information to complete short and long-range planning responsibilities.
  - Transit coordinator monitors and analyzes Sunshine Lamp Trolley system
  - Implementation the Human Services Transportation Coordination Plan.

End Products:

- Transit coordinator carries out the daily operations of MAPS.
- Transit coordinator provides MoDOT and FTA with necessary transit data and documentation.

Schedule for Completion:

- Activities will be on-going from November 2008 through October 2009.

Budget:

Total Cost	Federal (80%)	Local Funds (20%)
$50,061	$ 40,049 (FTA Sec. 5307)	$ 10,012 (Joplin)

TASK 5. Programs, Software & Hardware

Objective: To purchase computer hardware, software and other technologies to aid the planning process, specifically the purchase of a transportation modeling program.

Current Status: JATSO has narrowed the selection of transportation modeling programs to TransCAD (developed by Caliper) and Cube (developed by Citilabs). Staff believes these two models are more compatible with JATSO's GIS. Presentations will be given from both Caliper and Citilabs to determine which software works best with JATSO.

Work Items:

- *Equipment* – 100%
    - JATSO will purchase a transportation modeling program compatible with JATSO GIS.

End Products:

- One (1) transportation modeling program.

Schedule for Completion:

- Anticipated purchase of the model is 2009.

Budget:

Total Cost	Federal Funds (80%)	Local Funds (20%)
$ 15,000	$ 12,000 (CPG Funds)	$ 3,000 (Joplin)

TASK 6. Aerial Photography and Map Digitization Project

Objective: Create a set of digital aerial photographs, including contours, of the Joplin metropolitan area.

Current Status: This is a new task fro FY 2009.

Work Items:

- *Aerial Photographs* – 100 %
    - Jasper County is creating a set of aerial and contour photographs of the JATSO area.

End Products:

- A complete and accurate set of digital aerial maps with contours of the JATSO area for transportation and land use planning.

Schedule for Completion:

- Anticipate flyover in Fall 2008 with digital maps available soon after.

Budget:

Total Cost	Federal Funds (80%)	Local Funds (20%)
$30,000	$24,000 (CPG Funds)	$6,000 (Joplin)

TASK 7. JATSO Website Development

Objective: Create an interactive website for citizens, agencies, businesses and local officials to view GIS layers and JATSO information.

Current Status: JATSO is leaning towards Midland GIS Solutions to create and maintain the website. JATSO is estimating it will cost $38,800 to create the website and $7,200 ($600 per month) to maintain the website thereafter.

Work Items:

- *Consultant Fee* – 100%
    - A website development company will create and maintain the website.

End Products:

- An interactive website.

Schedule for Completion:

- The new JATSO website should be ready in the Fall/Winter 2008.

Budget:

Total Cost	Federal Funds (80%)	Local Funds (20%)
$46,000	$36,800 (CPG Funds)	$9,200 (Joplin $ 7,700, Webb City $ 1,500)

TASK 8. Transportation Studies

Objective: To purchase traffic counters to perform necessary transportation studies.

Current Status: No specific project locations are identified at this time, but due to growth patterns in the JATSO planning area additional counter will allow multiple studies to conducted at the same time. JATSO is anticipates conducting approximately twelve (12) traffic counts for the FY 2009.

Work Items:

- Equipment – 100%
    - Purchase five (5) traffic counters

End Product:

- Five (5) traffic counters
- Traffic count data

Schedule for Completion:

- Anticipate purchasing the traffic counters during in the first quarter of FY 2009.
- Traffic counts will be conducted through the JATSO fiscal year.

Budget:

Total Cost	Federal Funds (80%)	Local Funds (20%)
$ 6,000	$ 4,800 (CPG Funds)	$ 1,200 (Joplin)

TASK FUNDING SUMMARY

Task	FHWA PL & FTA Section 5303 (Consolidated Funds) Total Cost	FTA Section 5307	Local	Total Funds
1. Transportation Improvement Program	$ 5,628	$0	$ 1,407	$ 7,035
2. Unified Planning Work Program – Administration & Operations	$36,584	$0	$ 9,146	$45,730
3. Geographic Information Systems	$22,512	$0	$ 5,628	$28,140
4. Transit Planning	$0	$40,049	$ 10,012	$50,061
5. Programs, Software & Hardware	$12,000	$0	$ 3,000	$15,000
6. Aerial Photography & Map Digitization Project	$24,000	$0	$ 6,000	$30,000
7. JATSO Website Development	$ 36,800	$0	$ 9,200	$46,000
8. Transportation Studies	$ 4,800	$0	$ 1,200	$ 6,000
TOTAL	**$142,324**	**$40,049**	**$45,593**	**$227,966**

FHWA PL & FTA Section 5303 Funds (Consolidated Planning Grant) = $142,324
Local Match (20% of Consolidated Funds-FHWA PL Funds and FTA Section 5303 Funds) = $35,581
FTA Section 5307 Share = $40,049
Local Match (20% of Total Task Cost using FTA Section 5307 Funds) = $10,012

EXPENSE SUMMARY
(Includes Match)

Cost Category	Consolidated Planning Funds FHWA PL & FTA Sec 5303	
Personnel Services:		
Regular – Full Time	$	53,601
Longevity Pay		496
Auto Allowance		301
Cell Phone Allowance		626
Hospitalization		6,389
Worker's Compensation		697
FICA Expense		4,007
Lagers Retirement Expense		3,631
Deferred Compensation Expense		376
Life Insurance Expense		225
Total Personnel Services:	**$**	**70,349**
Operational Supplies:		
Operational Supplies	$	300
General Office Supplies		150
Food & Beverage Supplies		150
GIS Project Supplies		400
Facility Rent Allocation		5,881
Telephone Charges		300
Postage		50
Consulting Fees		See Below
Website Development		46,000
Jasper County Flyover		30,000
Travel Expenses		250
Conferences & Seminars		200
Dues & Memberships		500
Publications & Subscriptions		150
Total Operational Supplies:	**$**	**84,331**

(continued)
EXPENSE SUMMARY
(Includes Match)

Cost Category	Consolidated Planning Funds FHWA PL & FTA Sec 5303
Other Purchases & Services:	
Legal Notices	1,000
Fees & Permits	225
Total Other Purchases & Services:	**$ 1,225**
Capital Outlay & Improvements:	
Traffic Counters	$ 6,000
Traffic model (program)	$ 15,000
Replacement Computer	$ 1,000
Total Capital Outlay & Improvements:	**$ 22,000**
TOTAL JATSO FY 2009 PROGRAM:	**$ 177,905**

(The total does not include $50,061 in FTA Section 5307)

Federal Share (80% of Task Cost using Consolidated Planning Grant Funds-FHWA PL & FTA Sec. 5303) = $142,324
Local Match (20% of Consolidated Planning Grant Funds) = $35,581

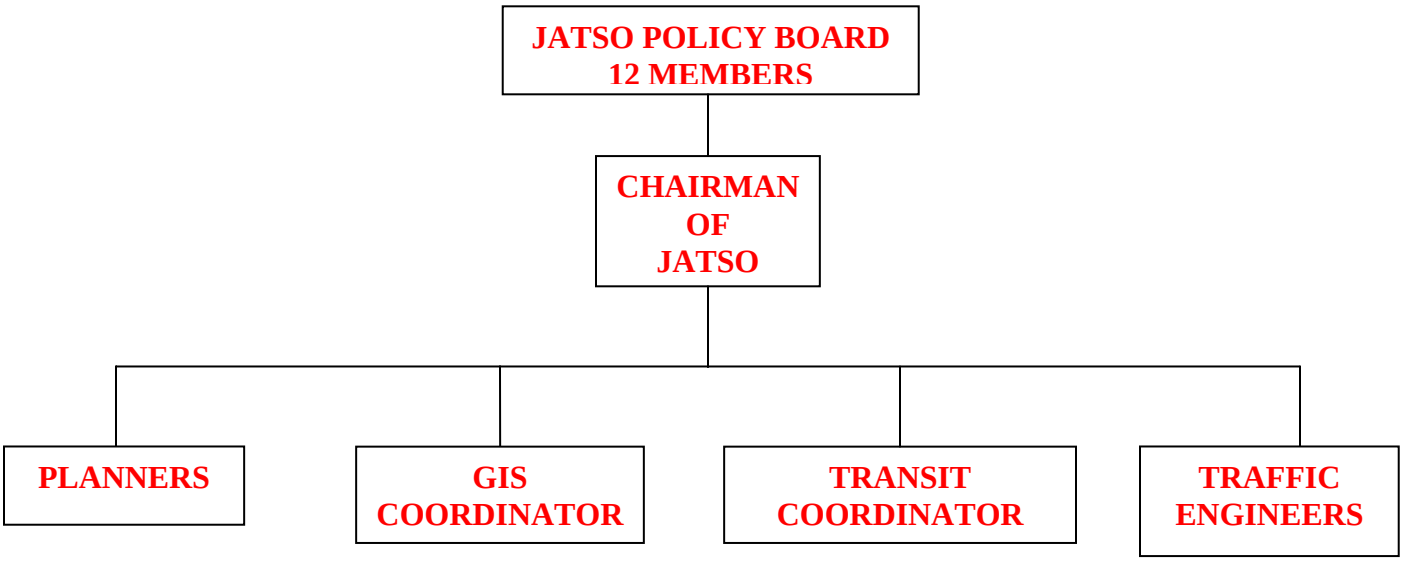
The total amount of the Consolidated Planning Grant (CPG) available for FY 2009 is estimated at $171,278. The JATSO is budgeting $142,324 in CPG funds for planning tasks in FY 2009. T These projects include: the purchase of a transportation model (calibration is scheduled in FY 2010), aerial photography, and the GIS/JATSO website development. The JATSO is currently holding approximately $482,822 in reserves that is not obligated.

JATSO deeply appreciates the advice and technical assistance provided by MoDOT, FHWA, and FTA in the course of conducting local planning activities. JATSO recognizes that planning is a multi-faceted activity, requiring knowledge of a variety of subjects. The dedication and cooperative spirit displayed by these agencies is deeply appreciated.

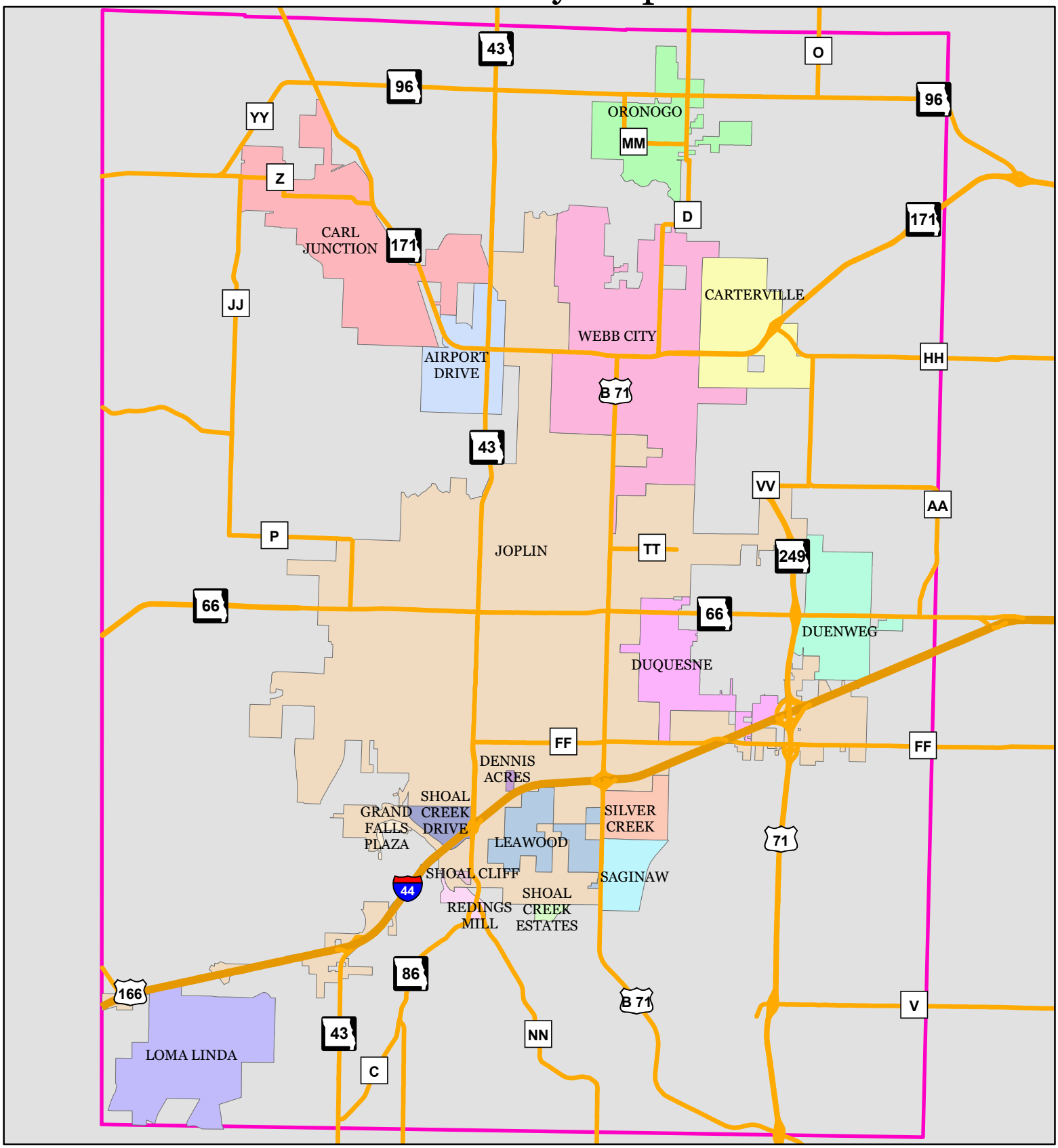
The preparation of this UPWP is financed in part by FTA and FHWA Consolidated Planning Grant funds that are administered by the MoDOT.

Joplin Area Transportation Study Organization (JATSO)
Organizational Chart

Staff is located at the City of Joplin offices and are fully dedicated to JATSO activities



Joplin Area Transportation Study Organization (JATSO) Boundary Map



Legend

State Roads
Road Classifications
- Interstates
- Highways

Metro Area City Limits
City Name
- AIRPORT DRIVE
- CARTERVILLE
- CARI JUNCTION
- DUENWEG
- DUQUESNE
- GRAND FALLS PLAZA
- LOMA LINDA
- ORONOGO
- REDINGS MILL
- SAGINAW
- SHOAL CREEK ESTATES
- SILVER CREEK
- WEBB CITY
- DENNIS ACRES
- JOPLIN
- LEAWOOD
- SHOAL CLIFF VILLAGE
- SHOAL CREEK DRIVE
- MPO Boundary

N
W E
S

1 in = 2 miles