### FY 2011 Unified Planning Work Program

### Mecklenburg-Union Metropolitan Planning Organization

Approved by the Mecklenburg-Union Metropolitan Planning Organization May 19, 2010

Amended September 15, 2010 Amended November 17, 2010 Amended March 16, 2011



### METROPOLITAN PLANNING ORGANIZATION

600 East Fourth Street Charlotte, North Carolina 28202-2853 704-336-2205 www.mumpo.org

CHARLOTTE
CORNELIUS
DAVIDSON
HUNTERSVILLE
INDIAN TRAIL
MATTHEWS

MATTHEWS

MECKLENBURG

COUNTY

MINT HILL

MONROE NCDOT

PINEVILLE STALLINGS

UNION COUNTY WAXHAW

WEDDINGTON
WESLEY CHAPEL

WINGATE

#### **FY 2011 Unified Planning Work Program Amendments**

MUMPO adopted its fiscal year 2011 Unified Planning Work Program (UPWP) on May 19, 2010. Three amendments were approved by the MPO during the fiscal year. The following details the amendments.

#### Amendment #1, September 15, 2010

The final amount of the FY 2011 PL funds was not provided to MUMPO until May 5, one day before the TCC was scheduled to take final action on the UPWP. The amount was \$99,836 more than was assumed during the development of the UPWP. The TCC's recommendation was to use \$43,212 of the additional funds to make up for a shortfall in FY 2011 Section 5303 funds, and to program the remaining \$56,624 in Task Code VI-12, Management & Operations until it could be determined how to allocate the funds. This was approved by the MPO at its May 2010 meeting.

After the review by the TCC, the MPO took action on September 15, 2010 to reallocate the funds in the manner listed below. In addition, and at the request of the Town of Davidson, it revised the Town's project description. The requested action will result in all funds being assigned to the proper task codes. In addition, a change to the use of the funds allotted to the Town of Davidson is requested. See the attached memorandum for details.

- 1. Reallocate \$50,000 in Planning (PL) funds from Task Code VI-12, Management & Operations to Task Code VI-10, Corridor Protection Studies. The towns of Matthews and Stallings will each receive \$25,000 and use the funds to participate in the preparation of a transportation plan with the Town of Indian Trail.
- 2. Reallocate \$6,624 in Planning (PL) funds from Task Code VI-12, Management & Operations to Task Code III-3, Travel Model Updates.
- 3. Change the project description of the Town of Davidson's Planning (PL) funds transportation planning project from a study of NC 115 and the Potts-Sloan-Beaty corridor to a downtown parking study.

#### Amendment #2, November 17, 2010

In October 2009, NCDOT informed the state's MPOs that the USDOT had rescinded Planning (PL) funds from North Carolina. In a letter dated September 8, 2010, NCDOT's Transportation Planning Branch advised MUMPO that the rescinded funds had been replaced in full. The total amount of funding that must be programmed is \$291,642. The MPO took action on November 17, 2010 to amend the UPWP to program the funds. The following lists the manner in which the funds were allocated.

#### 1. Updates and improvements to the transportation database.

- digitizing thoroughfares
- research on data sources
- data manipulation
- populating the database

- map production for the QA/QC process
- Title VI, TIP, CTP, etc. map production
- computer hardware and software

Total cost: \$62,040

Task code: II-10, GIS Analysis & Mapping

### 2. Development of web-based, interactive project information that provides essential information about transportation projects in the planning area.

- gathering requirements
- application design
- integration/coordination with information technology staff
- testing
- deployment
- maintenance

Total cost: \$30,000

Task code: V-4, Transportation Improvement Program

### 3. Updates to land use information that will be crucial to the development of the next LRTP.

- field work
- map production
- data entry

Total cost: \$114,600

Task code: II-10, GIS Analysis & Mapping

#### 4. A thoroughfare alignment study in Monroe.

Development and evaluation of an alignment for the proposed 601 South Connector, which is intended to serve as a connector between the future Monroe Connector/Bypass and US 601 South.

Total cost: \$30,000

Task code: VI-10, Corridor Protection & Special Studies

#### 5. Additional travel demand modeling support.

Total cost: \$55,002

Task code: III-3, Travel Model Updates

#### **Amendment #3, March 16, 2011**

This amendment was limited to changing the description of the project to be undertaken by the Town of Indian Trail from the preparation of a local transportation plan to the preparation of an intersection analysis project. No funding changes were made.

#### RESOLUTION

#### TO AMEND THE FY 2011 UNIFIED PLANNING WORK PROGRAM FOR THE MECKLENBURG-UNION METROPOLITAN PLANNING ORGANIZATION

A motion was made by MPO Member <u>Sarah McAlay</u> and seconded by MPO Member <u>Dovid Howard</u> for the adoption of the following resolution, and upon being put to a vote was duly adopted.

WHEREAS, a comprehensive and continuing transportation planning program must be carried out cooperatively in order to ensure that funds for transportation projects are effectively allocated to the Mecklenburg-Union Urban Area; and

WHEREAS, the Mecklenburg-Union Metropolitan Planning Organization (MPO) adopted the FY 2011 Unified Planning Work Program (UPWP) on May 19, 2010; and

WHEREAS, the MPO finds a need to amend the FY 2011 UPWP in the following manner:

- 1. Reallocate \$50,000 in Planning (PL) funds from Task Code VI-12, Management & Operations to Task Code VI-10, Corridor Protection Studies. The towns of Matthews and Stallings will each receive \$25,000 and use the funds to participate in the preparation of a transportation plan with the Town of Indian Trail.
- 2. Reallocate \$6,624 in Planning (PL) funds from Task Code VI-12, Management & Operations to Task Code III-3, Travel Model Updates.
- 3. Change the project description of the Town of Davidson's Planning (PL) funds transportation planning project.

NOW, THEREFORE BE IT RESOLVED that the Mecklenburg-Union Metropolitan Planning Organization hereby amends the FY 2011 Unified Planning Work Program for the Mecklenburg-Union Metropolitan Planning Organization in the manner stated above.

I, Ted Biggers, Chairman of the Mecklenburg-Union Metropolitan Planning Organization, do hereby certify that the above is a true and correct copy of an excerpt from the minutes of a meeting of the Mecklenburg-Union Metropolitan Planning Organization, duly held on this the 15<sup>th</sup> day of September, 2010.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Ted Biggers, Chairman

Robert W. Cook, Secretary

#### RESOLUTION

### TO AMEND THE FY 2011 UNIFIED PLANNING WORK PROGRAM FOR THE MECKLENBURG-UNION METROPOLITAN PLANNING ORGANIZATION

A motion was made by MPO Member Jin Bensnon and seconded by MPO Member James Toylor for the adoption of the following resolution, and upon being put to a vote was duly adopted:

WHEREAS, a comprehensive and continuing transportation planning program must be carried out cooperatively in order to ensure that funds for transportation projects are effectively allocated to the Mecklenburg-Union Urban Area; and

WHEREAS, the Mecklenburg-Union Metropolitan Planning Organization (MPO) adopted the FY 2011 Unified Planning Work Program (UPWP) on May 19, 2010; and

WHEREAS, Planning (PL) funds previously rescinded are now being allocated to the MPO; and

WHEREAS, the MPO finds a need to amend the FY 2011 UPWP in the following manner in order to allocate the previously rescinded funds:

1) Updates and improvements to the transportation database.

Total cost: \$62,040

Task code: II-10, GIS Analysis & Mapping

2) Development of web-based, interactive project information that provides essential information about transportation projects in the planning area.

Total cost: \$30,000

Task code: V-4, Transportation Improvement Program

3) Updates to land use information that will be crucial to the development of the next LRTP.

Total cost: \$114,600

Task code: II-10, GIS Analysis & Mapping

4) A thoroughfare alignment study in Monroe.

Total cost: \$30,000

Task code: VI-10, Corridor Protection & Special Studies

5) Additional travel demand modeling support.

Total cost: \$55,002

Task code: III-3, Travel Model Updates; and

WHEREAS, the Technical Coordinating Committee unanimously recommended that the MPO amend the UPWP as presented.

NOW, THEREFORE BE IT RESOLVED that the Mecklenburg-Union Metropolitan Planning Organization hereby amends the FY 2011 Unified Planning Work Program for the Mecklenburg-Union Metropolitan Planning Organization in the manner stated above.

\*

I, Ted Biggers, Chairman of the Mecklenburg-Union Metropolitan Planning Organization, do hereby certify that the above is a true and correct copy of an excerpt from the minutes of a meeting of the Mecklenburg-Union Metropolitan Planning Organization, duly held on this the 17<sup>th</sup> day of November, 2010.

Ted Biggers, Chairman

Robert W. Cook, Secretary

#### MECKLENBURG-UNION METROPOLITAN PLANNING ORGANIZATION

## Charlotte-Mecklenburg Government Center Conference Room 267 March 16, 2011 Meeting Summary Minutes-Abridged

#### **Members Attending:**

David Howard (Charlotte), Jim Bensman (Cornelius), John Woods (Davidson), Sarah McAulay (Huntersville), John Quinn (Indian Trail), James Taylor (Matthews), Dumont Clarke (Mecklenburg County), Ted Biggers (Mint Hill), John Ashcraft (Monroe), Jim Eschert (Pineville), Lynda Paxton (Stallings), Jerry Simpson (Union County), Daune Gardner (Waxhaw), Nancy Anderson (Weddington), Brad Horvath (Wesley Chapel)

#### **Non-Voting Members Attending:**

Joel Randolph (Charlotte-Mecklenburg Planning Commission)

#### 1. Call to Order

Mayor Ted Biggers called the March 2011 MUMPO meeting to order at 7:00 PM.

#### 8. FY 2011 Unified Planning Work Program (UPWP) Amendment

#### Presenter:

Scott Kaufhold, Town of Indian Trail

#### Summary:

Mr. Kaufhold stated that when the UPWP was approved, Planning (PL) funds were provided to Indian Trail for the purpose of preparing a local transportation plan for Indian Trail, but that the town now wished to use the funds for an intersection analysis project. Mayor Paxton and Mayor Taylor both expressed concern with Indian Trail pulling out of a combined transportation planning project with their towns. Mayor Quinn asked if Indian Trail had conducted other transportation planning activities. Mr. Kaufhold replied that it had, and added that the TCC had unanimously recommended that the MPO approve the amendment.

#### Motion:

Ms. McAulay made a motion to approve the UPWP amendment as presented. Mr. Howard seconded the motion. Upon being put to a vote, the motion passed unanimously.

HEADING	MPO RESPONSE
1- MPO	Mecklenburg-Union
2 -FTA Code	44.22.00
3- Task Code	II-9
4- Title	Travel Time Studies
5- Task Objective	The funds will be used to purchase historical travel time data and dynamic route travel times from INRIX. The data will be used to calculate average travel times and speeds along major corridors; to calibrate the modeled speeds; and to monitor congestion for MUMPO's CMP. Work in this category will complement CMP work conducted in task code V-1.
6 - Tangible Product Expected	Historic travel time data and dynamic route travel times.
7- Expected Completion	June 2011
8 - Previous Work	Collection of travel time data on major/minor arterials from Charlotte CBD to MUMPO limits.
9 - Prior FTA Funds	\$00.00
10 - Relationship	Work in this category will support work to be completed for the congestion management process (V-1).
11 -Agency	Charlotte Department of Transportation

12- HPR - Highway - NCDOT 20%	
13- HPR - Highway - F11WA 80%	13.
14- Section 104 (f) PI, Local 20%	14.
15- Section 104 (f) P I FHWA 80%	15.
16- Section 5303 Local 10%	1500
17- Section 5303 NCDOT 10%	1500
18- Section 5303 FTA 80%	12000
19- Section 5307 Transit - Local 10%	19.
20- Section 5307 Transit - NCDOT 10%	20.
21- Section 5307 Transit - FTA 80%	21.
22- Additional Funds - Local 100%	22.

HEADING	MPO RESPONSE
1- MPO	Mecklenburg-Union
2 -FTA Code	44.23.01
3- Task Code	III-3
4- Title	Travel Model Updates
5- Task Objective  6 - Tangible Product Expected	Funds expended in this category will be devoted to the following annual model maintenance tasks: incorporate updated model data into the working model set; develop improved algorithms and scripts to enhance applications of the model; develop tools to produce a "userfriendly" model for end users and incorporate improvements resulting from the above; model documentation; provide training to NCDOT and SCDOT technical staff. Sub-tasks are outlined in the FY11 Metrolina Regional Travel Demand Model Work Plan. Also, Consultant services will be used to continue refinements and improvements to the Transit Mode of the Travel Demand Model. Travel forecasts and ridership projections for use in updating the Transit Corridor System Plan and in general Transit System Planning will also be performed.  On-going activities related to model maintenance; travel forecasts and ridership projections.
7- Expected Completion	June 2011

8 - Previous Work	Funds expended in this category were devoted to annual model maintenance, the incorporation of updated model data into the working model set; development of improved algorithms and scripts that enhanced applications of the model; development of tools to produce a "user-friendly" model for end users and the incorporation of improvements resulting from the above. Also, model documentation and training to NCDOT and SCDOT technical staff.
9 - Prior FTA Funds	\$140,711
10 - Relationship	
11 -Agency	Charlotte Department of Transportation
12- HPR - Highway - NCDOT 20%	12.
13- HPR - Highway - F11WA 80%	13.
14- Section 104 (f) PI, Local 20%	37210
15- Section 104 (f) P I FHWA 80%	148838 (as amended Sept & Nov 2010)
16- Section 5303 Local 10%	16709
17- Section 5303 NCDOT 10%	16709
18- Section 5303 FTA 80%	133672
19- Section 5307 Transit - Local 10%	19.
20- Section 5307 Transit - NCDOT 10%	20.
21- Section 5307 Transit - FTA 80%	21.
22- Additional Funds - Local 100%	22.

HEADING	MPO RESPONSE
1- MPO	Mecklenburg-Union
2 -FTA Code	44.23.01
3- Task Code	III-4
4- Title	Travel Surveys
5- Task Objective	A household travel survey will be conducted by an outside contractor over the span of FY11 and FY12. The objective of the data collection effort is to provide a statistically valid observation of the unique travel demand in the Metrolina Region for all modes of travel. This information will be the basis for the design, estimation, and calibration of a set of region-wide travel demand models used to project future demand for travel in the region. The survey gathers household- and person-level travel data, such as the number, length, and purpose of trips, as well as other trip details including mode of transportation and the time of day each trip.  Funding will also be used for additional technical services needed to aid in the:  • Development of the scope of services for the surveys, including but not limited to the household travel survey • Analysis of survey data • Updates to the trip generation program • Updates to the trip distribution program

6 - Tangible Product Expected	Household travel surveys and analysis of said surveys.
7- Expected Completion	June 2011
8 - Previous Work	Small sample surveys for use in updating baseline data for home interview survey, external station surveys, workplace surveys, and vehicle classification counts; CATS on-board survey.
9 - Prior FTA Funds	\$132,803
10 - Relationship	
11 -Agency	Charlotte Department of Transportation
12- HPR - Highway - NCDOT 20%	12.
13- HPR - Highway - F11WA 80%	13.
14- Section 104 (f) PI, Local 20%	5800
15- Section 104 (f) P I FHWA 80%	23200
16- Section 5303 Local 10%	2900
17- Section 5303 NCDOT 10%	2900
18- Section 5303 FTA 80%	23200
19- Section 5307 Transit - Local 10%	19.
20- Section 5307 Transit - NCDOT 10%	20.
21- Section 5307 Transit - FTA 80%	21.
22- Additional Funds - Local 100%	
	22.

HEADING	MPO RESPONSE
1- MPO	Mecklenburg-Union
2 -FTA Code	44.23.01
3- Task Code	III-6
4- Title	Forecasts of Future Travel Patterns
5- Task Objective	Funding will be used to begin the update of county level economic and demographic totals. This will provide needed information for verifying the aggregated TAZ level base year data and developing TAZ level future year projections. This task will be performed by an outside contractor and will continue into FY12.
6 - Tangible Product Expected	Partial update of county level economic and demographic totals.
7- Expected Completion	Ongoing
8 - Previous Work	Forecasted planning data was used as an input to the travel forecast models.
9 - Prior FTA Funds	\$40,836
10 - Relationship	
11 -Agency	Charlotte Department of Transportation
12- HPR - Highway - NCDOT 20%	12.
13- HPR - Highway - F11WA 80%	13.
14- Section 104 (f) PI, Local 20%	13650

15- Section 104 (f) P I FHWA 80%	54600
16- Section 5303 Local 10%	3750
17- Section 5303 NCDOT 10%	3750
18- Section 5303 FTA 80%	30000
19- Section 5307 Transit - Local 10%	19.
20- Section 5307 Transit - NCDOT 10%	20.
21- Section 5307 Transit - FTA 80%	21.
22- Additional Funds - Local 100%	22.

HEADING	MPO RESPONSE
1- MPO	Mecklenburg-Union
2 -FTA Code	44.23.01
3- Task Code	IV-3
4- Title	Transit Element of the LRTP
5- Task Objective	CATS will continue to monitor and update the Transit Corridor System Plan including: evaluation of ridership forecasts, developing/refining financial projections, monitoring existing services and trends, and communicating to the public.
6 - Tangible Product Expected	Financial projections
7- Expected Completion	June 2011; ongoing
8 - Previous Work	Preparation of the transit element of the LRTP; transit financial plan update; Corridor System Plan update; park & ride counts; ridership sampling; Countywide Transit Services Plan update.
9 - Prior FTA Funds	\$19,119
10 - Relationship	Development of CATS' updated Corridor System Plan
11 -Agency	Charlotte Area Transit System
12- HPR - Highway - NCDOT 20%	12.
13- HPR - Highway - F11WA 80%	13.

14- Section 104 (f) PI, Local 20%	14.
15- Section 104 (f) P I FHWA 80%	
16- Section 5303 Local 10%	15000
17- Section 5303 NCDOT 10%	1500
18- Section 5303 FTA 80%	120000
19- Section 5307 Transit - Local 10%	19.
20- Section 5307 Transit - NCDOT 10%	20.
21- Section 5307 Transit - FTA 80%	21.
22- Additional Funds - Local 100%	22.

1- MPO         Mecklenburg-Union           2-FTA Code         44.25.00           3- Task Code         V-4           4- Title         Transportation Improvement Program           5- Task Objective         Development of transit-related components of the 2012-2018 TIP.           6- Tangible Product Expected         Transit component of the TIP           7- Expected Completion         June 2011           8 - Previous Work         9 - Prior FTA Funds           9- Prior FTA Funds         \$00.00           10 - Relationship         11-Agency           11- Agency         Charlotte Area Transit System           12- HPR - Highway - NCDOT 20%         12.           13- HPR - Highway - F11WA 80%         13.           14- Section 104 (f) P1 FHWA 80%         46000           15- Section 5303 Local 10%         1250           17- Section 5303 NCDOT 10%         1250           18- Section 5303 FTA 80%         10000	HEADING	MPO RESPONSE
3- Task Code       V-4         4- Title       Transportation Improvement Program         5- Task Objective       Development of transit-related components of the 2012-2018 TIP.         6 - Tangible Product Expected       Transit component of the TIP         7- Expected Completion       June 2011         8 - Previous Work       \$00.00         9 - Prior FTA Funds       \$00.00         10 - Relationship       11 - Agency         12- HPR - Highway - NCDOT 20%       12.         13- HPR - Highway - F11WA 80%       13.         14- Section 104 (f) PI, Local 20%       11500         15- Section 104 (f) P I FHWA 80%       46000 (as amended November 2010)         16- Section 5303 Local 10%       1250         17- Section 5303 NCDOT 10%       1250	1- MPO	Mecklenburg-Union
4- Title  Transportation Improvement Program  5- Task Objective  Development of transit-related components of the 2012-2018 TIP.  6 - Tangible Product Expected  Transit component of the TIP  7- Expected Completion  June 2011  8 - Previous Work  9 - Prior FTA Funds  \$00.00  10 - Relationship  11 - Agency  Charlotte Area Transit System  12- HPR - Highway - NCDOT 20%  12.  13- HPR - Highway - F11WA 80%  13.  14- Section 104 (f) PI, Local 20%  15- Section 104 (f) PI FHWA 80%  46000  (as amended November 2010)  16- Section 5303 Local 10%  1250  17- Section 5303 NCDOT 10%	2 -FTA Code	44.25.00
Program   Program   Program	3- Task Code	V-4
components of the 2012-2018 TIP.	4- Title	
7- Expected Completion June 2011  8 - Previous Work 9 - Prior FTA Funds \$00.00  10 - Relationship  11 - Agency Charlotte Area Transit System  12- HPR - Highway - NCDOT 20% 12.  13- HPR - Highway - F11WA 80% 13.  14- Section 104 (f) PI, Local 20% 11500  15- Section 104 (f) P I FHWA 80% 46000 (as amended November 2010)  16- Section 5303 Local 10% 1250	5- Task Objective	-
8 - Previous Work       \$00.00         10 - Relationship       \$00.00         11 - Agency       Charlotte Area Transit System         12- HPR - Highway - NCDOT 20%       12.         13- HPR - Highway - F11WA 80%       13.         14- Section 104 (f) PI, Local 20%       11500         15- Section 104 (f) P I FHWA 80%       46000 (as amended November 2010)         16- Section 5303 Local 10%       1250         17- Section 5303 NCDOT 10%       1250	6 - Tangible Product Expected	Transit component of the TIP
9 - Prior FTA Funds       \$00.00         10 - Relationship       The section 104 (f) PI FHWA 80%         12- HPR - Highway - F11WA 80%       13.         14- Section 104 (f) PI, Local 20%       11500         15- Section 104 (f) P I FHWA 80%       46000 (as amended November 2010)         16- Section 5303 Local 10%       1250         17- Section 5303 NCDOT 10%       1250	7- Expected Completion	June 2011
10 - Relationship         11 - Agency       Charlotte Area Transit System         12- HPR - Highway - NCDOT 20%       12.         13- HPR - Highway - F11WA 80%       13.         14- Section 104 (f) PI, Local 20%       11500         15- Section 104 (f) P I FHWA 80%       46000	8 - Previous Work	
11 - Agency       Charlotte Area Transit System         12- HPR - Highway - NCDOT 20%       12.         13- HPR - Highway - F11WA 80%       13.         14- Section 104 (f) PI, Local 20%       11500         15- Section 104 (f) P I FHWA 80%       46000	9 - Prior FTA Funds	\$00.00
12- HPR - Highway - NCDOT 20%       12.         13- HPR - Highway - F11WA 80%       13.         14- Section 104 (f) PI, Local 20%       11500         15- Section 104 (f) PI FHWA 80%       46000	10 - Relationship	
13- HPR - Highway - F11WA 80%       13.         14- Section 104 (f) PI, Local 20%       11500         15- Section 104 (f) P I FHWA 80%       46000 (as amended November 2010)         16- Section 5303 Local 10%       1250         17- Section 5303 NCDOT 10%       1250	11 -Agency	Charlotte Area Transit System
14- Section 104 (f) PI, Local 20%       11500         15- Section 104 (f) P I FHWA 80%       46000 (as amended November 2010)         16- Section 5303 Local 10%       1250         17- Section 5303 NCDOT 10%       1250	12- HPR - Highway - NCDOT 20%	12.
15- Section 104 (f) P I FHWA 80%       46000	13- HPR - Highway - F11WA 80%	13.
16- Section 5303 Local 10%         1250           17- Section 5303 NCDOT 10%         1250	14- Section 104 (f) PI, Local 20%	11500
17- Section 5303 NCDOT 10% 1250	15- Section 104 (f) P I FHWA 80%	
	16- Section 5303 Local 10%	1250
18- Section 5303 FTA 80% 10000	17- Section 5303 NCDOT 10%	1250
	18- Section 5303 FTA 80%	10000
19- Section 5307 Transit - Local 10% 19.	19- Section 5307 Transit - Local 10%	19.

20- Section 5307 Transit - NCDOT 10%	20.
21- Section 5307 Transit - FTA 80%	21.
22- Additional Funds - Local 100%	22.

Mecklenburg-Union  44.21.00  VI-12  Management & Operations
VI-12  Management & Operations
Management & Operations
0 (ATT) (1 1 1
Support CATS participation in the metropolitan transportation planning process
Ongoing
Ongoing
\$00.00
Work is related to all the various tasks undertaken to implement the metropolitan transportation planning process.
Charlotte Area Transit System
12.
13.
52568
210273 (as amended September 2010)
2103
2103
16824

19- Section 5307 Transit - Local 10%	19.
20- Section 5307 Transit - NCDOT 10%	20.
21- Section 5307 Transit - FTA 80%	21.
22- Additional Funds - Local 100%	22.

		SPR		SEC. 104(f) PL		SECTION 5303		STP-DA		LOCAL	TASK FUNDING SUMMARY				
		Highw	ay		y/Transit		Transit/High	way							
TASK	TASK	NCDOT	FHWA	LOCAL	FHWA	LOCAL	NCDOT	FTA	LOCAL	FHWA		LOCAL	STATE	FEDERAL	TOTAL
CODE	DESCRIPTION	20%	80%	20%	80%	10%	10%	80%	20%	80%					
II. CONT	INUING TRANSPORTATION PLANNING	\$8,875	\$35,500	\$44,160	\$176,640	\$1,500	\$1,500	\$12,000	\$85,250	\$341,000	\$0	\$130,910	\$10,375	\$565,140	\$706,425
II-1	Traffic Volume Counts	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$42,000	\$168,000	\$0	\$42,000	\$0	\$168,000	\$210,000
II-4	Traffic Accidents	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,000	\$80,000	\$0	\$20,000	\$0	\$80,000	\$100,000
II-6	Dwelling Unit, Population & Employment Change	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,750	\$51,000	\$0	\$12,750	\$0	\$51,000	\$63,750
II-9	Travel Time Studies	\$0	\$0	\$0	\$0	\$1,500	\$1,500	\$12,000	\$3,000	\$12,000	\$0	\$4,500	\$1,500	\$24,000	\$30,000
II-10	GIS Analysis & Mapping	\$6,875	\$27,500	\$44,160	\$176,640	\$0		\$0	\$7,500	\$30,000	\$0	\$51,660	\$6,875	\$234,140	\$292,675
II-12	Bicycle & Pedestrian Facilities Inventory	\$2,000	\$8,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,000	\$8,000	\$10,000
III. TRAV	EL DEMAND MODEL	\$1,250	\$5,000	\$103,710	\$414,838	\$23,359	\$23,359	\$186,872	\$1,250	\$5,000	\$0	\$128,319	\$24,609	\$611,710	\$764,638
III-1	Collection of Base Year Data	\$0	\$0	\$36,050	\$144,200	\$0	\$0	\$0	\$0	\$0	\$0	\$36,050	\$0	\$144,200	\$180,250
III-2	Collection of Network Data	\$0	\$0	\$7,000	\$28,000	\$0	\$0	\$0	\$0	\$0	\$0	\$7,000	\$0	\$28,000	\$35,000
III-3	Travel Model Updates	\$0	\$0	\$37,210	\$148,838	\$16,709	\$16,709	\$133,672	\$0	\$0	\$0	\$53,919	\$16,709	\$282,510	\$353,138
III-4	Travel Surveys	\$0	\$0	\$5,800	\$23,200	\$2,900	\$2,900	\$23,200	\$0	\$0	\$0	\$8,700	\$2,900	\$46,400	\$58,000
III-5	Forecast of Data to Horizon Years	\$1,000	\$4,000	\$4,000	\$16,000	\$0	\$0	\$0	\$0	\$0	\$0	\$4,000	\$1,000	\$20,000	\$25,000
III-6	Forecasts of Future Travel Patterns	\$250	\$1,000	\$13,650	\$54,600	\$3,750	\$3,750	\$30,000	\$1,250	\$5,000	\$0	\$18,650	\$4,000	\$90,600	\$113,250
IV. LON	G-RANGE TRANSPORTATION PLANNING	\$2,125	\$8,500	\$0	\$0	\$15,000	\$15,000	\$120,000	\$32,000	\$128,000	\$0	\$47,000	\$17,125	\$256,500	\$320,625
IV-1	Community Goals & Objectives	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,000	\$40,000	\$0	\$10,000	\$0	\$40,000	\$50,000
IV-2	Highway Element of LRTP	\$750	\$3,000	\$0	\$0	\$0	\$0	\$0	\$10,000	\$40,000	\$0	\$10,000	\$750	\$43,000	\$53,750
IV-3	Transit Element of LRTP	\$625	\$2,500	\$0	\$0	\$15,000	\$15,000	\$120,000	\$0	\$0	\$0	\$15,000	\$15,625	\$122,500	\$153,125
IV-7	Rail Element of LRTP	\$500	\$2,000	\$0	\$0	\$0	\$0	\$0	\$4,000	\$16,000	\$0	\$4,000	\$500	\$18,000	\$22,500
IV-8	Freight Movement/Mobility Element of LRTP	\$250	\$1,000	\$0	\$0	\$0	\$0	\$0	\$4,000	\$16,000	\$0	\$4,000	\$250	\$17,000	\$21,250
IV-9	Financial Planning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,000	\$16,000	\$0	\$4,000	\$0	\$16,000	\$20,000
V. CONT	INUING PROGRAMS	\$2,750	\$11,000	\$19,500	\$78,000	\$1,250	\$1,250	\$10,000	\$64,500	\$258,000	\$0	\$85,250	\$4,000	\$357,000	\$446,250
V-1	Congestion Management Strategies	\$500	\$2,000	\$0	\$0	\$0	\$0	\$0	\$62,500	\$250,000	\$0	\$62,500	\$500	\$252,000	\$315,000
V-2	Air Quality/Conformity Analysis	\$1,250	\$5,000	\$8,000	\$32,000	\$0	\$0	\$0	\$0	\$0	\$0	\$8,000	\$1,250	\$37,000	\$46,250
V-3	Planning Work Program	\$250	\$1,000	\$0	\$0	\$0	\$0	\$0	\$2,000	\$8,000	\$0	\$2,000	\$250	\$9,000	\$11,250
V-4	Transportation Improvement Program	\$750	\$3,000	\$11,500	\$46,000	\$1,250	\$1,250	\$10,000	\$0	\$0	\$0	\$12,750	\$2,000	\$59,000	\$73,750
VI. ADM	INISTRATION	\$4,500	\$18,000	\$111,873	\$447,493	\$2,103	\$2,103	\$16,824	\$17,000	\$68,000	\$0	\$130,976	\$6,603	\$353,097	\$687,896
VI-2	Environmental Justice	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,000	\$40,000	\$0	\$10,000	\$0	\$40,000	\$50,000
VI-6	Public Involvement	\$500	\$2,000	\$0	\$0	\$0	\$0	\$0	\$4,000	\$16,000	\$0	\$4,000	\$500	\$18,000	\$22,500
VI-9	Environ. Analysis & Pre-TIP Planning	\$500	\$2,000	\$5,000	\$20,000	\$0	\$0	\$0		\$0	\$0	\$5,000	\$500	\$22,000	\$27,500
VI-10	Corridor Protection and Special Studies	\$500	\$2,000	\$49,305	\$197,220	\$0	\$0	\$0	\$3,000	\$12,000	\$0	\$52,305	\$500	\$14,000	\$264,025
VI-11	Regional or Statewide Planning	\$1,500	\$6,000	\$5,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000	\$1,500	\$26,000	\$32,500
VI-12	Management and Operations	\$1,500	\$6,000	\$52,568	\$210,273	\$2,103	\$2,103	\$16,824	\$0	\$0	\$0	\$54,671	\$3,603	\$233,097	\$291,371
TOTALS		\$19,500	\$78,000	\$279,243	\$1,116,971	\$43,212	\$43,212	\$345,696	\$200,000	\$800,000	\$0	\$522,455	\$62,712	\$2,143,447	\$2,925,834

### MECKLENBURG - UNION METROPOLITAN PLANNING ORGANIZATION FY 11 UPWP PL FUNDS (80 percent portion)

		AGENCY OR JURISDICTION									
TASK CODE	TASK DESCRIPTION	CDOT	C-MPC	Cornelius	Davidson	Huntersville	Matthews	Stallings	Monroe	Indian Trail	TOTAL
II. Continuino	g Transportation	\$0	\$176,640	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$176,640
II-1	Traffic Volume Counts	\$0	. ,				·				\$0
II-3	Street System Changes	\$0									\$0
II-4	Traffic Accidents	\$0									\$0
II-6	Dweling Unit, Pop. & Emplymnt Change	\$0									\$0
II-8	Vehicle Occupancy Rates	\$0									\$0
II-9	Travel Time Studies	\$0									\$0
II-10	GIS Analysis & Mapping	\$0	\$176,640								\$176,640
II-11	Parking Inventory	\$0									\$0
II-12	Bicycle & Pedestrian Facilities Inventory	\$0									\$0
III. Travel Dei		\$414,838	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$414,838
III-1	Collection Base Year Data	\$144,200									\$144,200
III-2	Collection of Network Data	\$28,000									\$28,000
III-3	Travel Model Updates	\$148,838									\$148,838
III-4	Travel Surveys	\$23,200									\$23,200
III-5	Forecast of Data to Horizon Years	\$16,000									\$16,000
III-6	Forecast of Future Travel Patterns	\$54,600									\$54,600
IV. Long-Ran	ge Transportation Plan	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Community Goals & Objectives	\$0									\$0
IV-2	Highway Element of the LRTP	\$0									\$0
IV-3	Transit Element of the LRTP	\$0									\$0
IV-7	Rail Element of the LRTP	\$0									\$0
IV-8	Freight Movement/Mobility Elem of LRTP	\$0									\$0
IV-9	Financial Planning	\$0									\$0
V. Continuino		\$48,000	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$78,000
V-1	Congestion Management Strategies	\$0									\$0
V-2	Air Quality/Conformity Analysis	\$32,000									\$32,000
V-3	Planning Work Program	\$0									\$0
V-4	TIP	\$16,000	\$30,000								\$46,000
VI. Administr		\$172,093	\$100,000	\$21,600	\$25,000	\$23,800	\$25,000	\$25,000	\$30,000	\$25,000	\$447,493
VI-2	Environmental Justice	\$0									\$0
VI-6	Public Involvement	\$0									\$0
VI-9	Environ Analysis & Pre-TIP Planning	\$20,000									\$20,000
VI-10	Corridor Protection & Special Studies	\$21,820		\$21,600	\$25,000	\$23,800	\$25,000	\$25,000	\$30,000	\$25,000	\$197,220
VI-11	Regional or Statewide Planning	\$20,000	<b>#</b> 400.055								\$20,000
VI-12	Management and Operations	\$110,273	\$100,000								\$210,273
TOTALS		\$634,931	\$306,640	\$21,600	\$25,000	\$23,800	\$25,000	\$25,000	\$30,000	\$25,000	\$1,116,971

#### **Anticipated DBE Contracting Opportunities for FY 2011**

Name of MPO: Mecklenburg-Union Check here if there are no anticipated DBE opportunities

Person Completing Form: Robert Cook Telephone Number: area code (704)-948-9132

Prospectus Task Code	Prospectus Description	Name of Agency Contracting Out	Type of Contracting Opportunity (Consultant, etc.)	Federal Funds to be Contracted Out	Total Funds to be Contracted Out

▶ Note: This form <u>must be submitted</u> to NCDOT-PTD even if you anticipate no DBE Contracting Opportunities. Note "No contracting opportunities" on the table if you do not anticipate having any contracting opportunities.

#### RESOLUTION

# APPROVING THE FY 2011 UNIFIED PLANNING WORK PROGRAM OF THE MECKLENBURG-UNION METROPOLITAN PLANNING ORGANIZATION

A motion was made by MPO Member John Ashcroff and seconded by MPO Member Saroh McA, by for the adoption of the following resolution, and upon being put to a vote was duly adopted.

WHEREAS, a comprehensive and continuing transportation planning program must be carried out cooperatively in order to ensure that funds for transportation projects are effectively allocated to the Mecklenburg-Union Urban Area; and

WHEREAS, the City of Charlotte has been designated as the recipient of Federal Transit Administration Metropolitan Planning Program funds; and

WHEREAS, members of the Mecklenburg-Union Metropolitan Planning Organization agree that the Unified Planning Work Program will effectively advance transportation planning for FY 2011.

NOW, THEREFORE BE IT RESOLVED that the Mecklenburg-Union Metropolitan Planning Organization hereby endorses the FY 2011 Unified Planning Work Program for the Mecklenburg-Union Metropolitan Planning Organization.

I, Ted Biggers, Chairman of the Mecklenburg-Union Metropolitan Planning Organization, do hereby certify that the above is a true and correct copy of an excerpt from the minutes of a meeting of the Mecklenburg-Union Metropolitan Planning Organization, duly held on this the 19th day of May, 2010.

Ted Biggers, Chairman

Robert W. Cook, Secretary

The following provides descriptions of the work proposed to be performed during FY 11. The descriptions reflect amendments approved by the MPO on September 15, 2010, November 17, 2010 and March 16, 2011.

#### II Continuing Transportation

#### II-1 Traffic Volume Counts

Funds allocated in this category will support collecting, processing, and analyzing traffic volume count data to support the travel demand model. Specifically, the following tasks will be conducted:

- 48 hour volume data will be collected at 550 700 model locations
- Vehicle occupancy studies for traffic entering CBD
- Turning movement count data at signalized intersections (used as a back check and additional layer of quality control for the model)
- Vehicle classification studies
- Travel time studies
- Pursuit of six permanent count station locations

Funding source: PL Funds: STP-DA supplement

#### II-4 Traffic Accidents

PL funds will be used to process and analyze police crash reports. The accident data will be used to analyze streets and intersections to support project development (long range projects and spot safety improvements).

Funding source: PL Funds: STP-DA supplement

#### II-6 Dwelling Unit, Population & Employment Changes

Funds in this category will support land development review and coordination activities. Funding source: PL Funds: STP-DA supplement

#### **II-9** Travel Time Studies

The funds will be used to purchase historical travel time data and dynamic route travel times from INRIX. The data will be used to calculate average travel times and speeds along major corridors; to calibrate the modeled speeds; and to monitor congestion for MUMPO's CMP. Work in this category will complement CMP work conducted in task code V-1.

Funding sources: PL Funds: STP-DA supplement and Section 5303

#### II-10 GIS Analysis & Mapping

Funds in this category will be applied to anticipated substantial work related to the preparation of the Comprehensive Transportation Plan (CTP). (CDOT) Also, funds will be applied to a project to improve the transportation database and to

update local land use information. (Planning)

Funding source: PL funds & PL Funds: STP-DA supplement

#### **III** Travel Demand Model

#### III-1 Collection of Base Year Data

2010 data including but not limited to population, households, mean income, employment, and school enrollment will be collected. This information is one of the primary inputs into the Metrolina Regional Travel Demand Model. Collection of this data

Approved: 5/19/10

is expected to be outsourced to a contractor. Sources for the data include, but are not limited to, the 2010 Census, InfoGroup (to be purchased), Dun & Bradstreet, and telephone surveys (to be outsourced to a contractor).

Funding is also included for the purchase of detailed freight data. InSight is currently being considered as a data source.

Funding source: PL Funds

#### III-2 Collection of Network Data

2010 roadway network data and transit route data including but not limited to posted speed limits, number of lanes, traffic signal locations, route locations, headways, park and ride lot locations, and parking costs will be collected by staff.

2010 vehicle classification counts will be collected by an outside contractor. Vehicle classification counts provide data necessary for model calibration and validation. Data provided includes number of vehicles by type and time of day as well as point location speed of each vehicle.

Funding source: PL Funds

#### III-3 Travel Model Updates

CATS & CDOT: Funds expended in this category will be devoted to the following annual model maintenance tasks: incorporate updated model data into the working model set; develop improved algorithms and scripts to enhance applications of the model; develop tools to produce a "user-friendly" model for end users and incorporate improvements resulting from the above; model documentation; provide training to NCDOT and SCDOT technical staff. Sub-tasks are outlined in the FY11 Metrolina Regional Travel Demand Model Work Plan. Also, Consultant services will be used to continue refinements and improvements to the Transit Mode of the Travel Demand Model. Travel forecasts and ridership projections for use in updating the Transit Corridor System Plan and in general Transit System Planning will also be performed.

Funding source: PL & Section 5303 Funds

#### III-4 Travel Survey

A household travel survey will be conducted by an outside contractor over the span of FY11 and FY12. The objective of the data collection effort is to provide a statistically valid observation of the unique travel demand in the Metrolina Region for all modes of travel. This information will be the basis for the design, estimation, and calibration of a set of region-wide travel demand models used to project future demand for travel in the region. The survey gathers household- and person-level travel data, such as the number, length, and purpose of trips, as well as other trip details including mode of transportation and the time of day each trip.

Funding will also be used for additional technical services needed to aid in the:

- Development of the scope of services for the surveys, including but not limited to the household travel survey
- Analysis of survey data
- Updates to the trip generation program

Approved: 5/19/10

• Updates to the trip distribution program Funding sources: PL & Section 5303 Funds

#### III-5 Forecast of Data to Horizon Years

Funding will be used to begin the update of county level economic and demographic totals. This will provide needed information for verifying the aggregated TAZ level base year data and developing TAZ level future year projections. This task will be performed by an outside contractor and will continue into FY12.

Funding source: PL Funds

#### III-6 Forecasts of Future Travel Patterns

This task covers the various applications of the regional travel demand model including but not limited to traditional highway travel forecasts, managed lanes forecasts, and transit corridor forecasts.

State of the practice hardware and software are a necessity for this task. As such, funding for the following is also included:

- TransCAD maintenance fees for licenses-\$7,000
- TransModeler maintenance fees for licenses-\$3,000
- VISSIM maintenance fees for licenses-\$2,000
- Sustainable hardware for the Metrolina Regional Travel Demand Model-\$4,000 Funding sources: PL Funds, PL Funds: STP-DA supplement & Section 5303 Funds

#### IV Long-Range Transportation Plan

#### IV-1 Community Goals & Objectives

The Technical Coordinating Committee has committed to starting work on the next LRTP during FY 11. Work in this category will focus on developing/updating goals and objectives that will guide the development of the plan.

Funding source: PL Funds: STP-DA supplement

#### IV-2 Highway Element

Work in this category will focus on:

- Assessing the effectiveness of the current roadway project ranking methodology
- If necessary, updating and/or preparing a new roadway project ranking methodology

Funding source: PL Funds: STP-DA supplement

#### IV-3 Transit Element

CATS will continue to monitor and update the Transit Corridor System Plan including: evaluation of ridership forecasts, developing/refining financial projections, monitoring existing services and trends, and communicating to the public.

Funding source: 5303 Funds

#### IV-7 Rail Element

Work in this category will focus on continuing efforts related to the Charlotte Rail Infrastructure and Safety Program (CRISP).

3

Funding source: PL Funds: STP-DA supplement

Approved: 5/19/10

#### IV-8 Freight Movement/Mobility Element

MUMPO will participate in a regional mobility study to be led by the Centralina Council of Governments.

Funding source: PL Funds: STP-DA supplement

#### IV-9 Financial Planning

In light of the Technical Coordinating Committee's commitment to begin work on an updated LRTP in FY 11, the proposed funding will support preliminary financial planning efforts.

Funding source: PL Funds: STP-DA supplement

#### V Continuing Programs

#### V-1 Congestion Management Strategies

MUMPO will continue to refine its congestion management process (CMP). Work will begin on the following tasks:

- Development of a data collection program
- Refinement of the definition of congestion
- Development of a CMP monitoring and reporting program
- Prioritization of identified congested corridors

Work undertaken in other task codes may be related to the CMP, e.g. II-9.

Funding source: PL Funds: STP-DA supplement

#### V-2 Air Quality/Conformity Analysis

MUMPO's planning area is classified as non-attainment for ozone and Mecklenburg County is classified as maintenance for carbon monoxide. Some of the potential tasks associated with the category in FY 11 are:

- Participation in interagency consultation process as part of SIP development and conformity determination development.
- Providing assistance to NCDENR in developing and maintaining mobile source emission inventories.
- Performing analysis and approving conformity determinations, at least one of which will be needed during FY 11.
- Preparation of the air quality conformity determination report.

Funding source: PL Funds

#### V-3 Planning Work Program

Funds in this category will be used in the annual preparation of UPWP and the previous fiscal year's annual report.

Funding source: PL Funds: STP-DA supplement

#### V-4 Transportation Improvement Program

Approved: 5/19/10

Work associated with, but not limited to, amendments to the 2009-2015 TIP, preparation and review of the 2012-2018 TIP and work with NCDOT's Strategic Prioritization of Transportation (SPOT) office.

Also, funds will be applied to the development of a web-based, interactive transportation project information resource. (Planning)

Funding source: PL Funds & Section 5303 Funds

#### VI Administration

#### VI-2 Environmental Justice

MUMPO will continue to refine its plan to reach out to environmental justice communities through a series of efforts including, but not limited to, the following:

- Preparation of educational material explaining the transportation planning process
- Working with focus groups
- Development of a project impact evaluation methodology
- Development of a public outreach planning process manual

Funding source: PL Funds: STP-DA supplement

#### VI-6 Public Involvement

MUMPO is committed to meaningful public participation in the regional transportation planning process and undertakes a variety of efforts each fiscal year that require outreach to the public. These efforts include, but are not limited to, the following:

- Long Range Transportation Plan (LRTP),
- Transportation Improvement Program (TIP)
- Unified Planning Work Program (UPWP)
- Comprehensive Transportation Plan (CTP)
- Corridor studies
- Participation in public events sponsored by other agencies

Funding source: PL Funds: STP-DA supplement

#### VI-9 Environmental Analysis & Pre-TIP Planning

Work in this category will focus on preparation of the Comprehensive Transportation Plan (CTP).

Funding source: PL Funds

#### VI-10 Corridor Protection & Special Studies

Funds will support:

- 1. PL local transportation planning efforts:
  - Cornelius: \$21,600 for continued work on its traffic count program, planning for Zion Avenue improvements and support of the MPO process
  - o Davidson: \$25,000 for a downtown parking study
  - Huntersville: \$23,800 for creation of a local traffic count program, preparation of a pedestrian plan and support of the MPO process
  - o Indian Trail: \$25,000 for an intersection analysis study
  - o Matthews: \$25,000 for the development of a local transportation plan
  - o Stallings: \$25,000 for the development of a local transportation plan

Approved: 5/19/10

- Monroe: \$30,000 for an evaluation of an alignment for the proposed 601 South Connector
- 2. Various projects (performed in-house or by consultants) to define conceptual alignments of proposed Thoroughfare Plan roadway extensions or realignments
- 3. Efforts to implement components of the Fast Lanes study
- 4. Review of the Centralina COG regional transportation planning study recommendations and/or assessment of urbanized area boundary changes on MUMPO
- 5. Other projects as recommended by the TCC

Funding sources: PL Funds and PL Funds: STP-DA supplement

#### VI-11 Regional or Statewide Planning

Funds will support:

- Continued coordination with regional MPO and RPO partners
- Activities associated with the Charlotte Regional Alliance for Transportation (CRAFT)
- Activities associated with the NC Association of MPOs

Funding source: PL Funds

#### VI-12 Management & Operations

Work performed as outlined in the Prospectus:

- Attending MPO, TCC and Transportation Staff meetings
- Preparation of MPO and TCC agendas
- Preparation of MPO and TCC meeting minutes
- Updating MUMPO's website
- Overall management of the daily functions of MUMPO

Funding source: PL Funds & Section 5303 Funds

Approved: 5/19/10