

Unified Planning Work Program (UPWP)

July 1, 2018 through June 30, 2020

**Prepared for the
Lehigh Valley Transportation Study
(LVTS)**

**Lehigh Valley Planning Commission
(LVPC)**

-and-

**Lehigh and Northampton Transportation Authority
(LANta)**

**~~MARCH 2, 2018: LAST REVISED MARCH 28, 2018~~
AMENDED MAY 21, 2019**

PREFACE

On October 28, 1993, the U.S. Department of Transportation, under the joint sponsorship of the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA), released updated regulations covering the urban transportation planning and programming process. These regulations specified that:

- (a) In Transportation Management Areas (TMAs), the TMA(s), in cooperation with the State and operators of publicly-owned transit, shall develop unified planning work programs (UPWPs) that meet the requirements of 23 CFR Part 420, Subpart A and:
 - (1) Discuss the planning priorities facing the metropolitan planning area and describe all metropolitan transportation and transportation-related air quality planning activities (including the corridor and subarea studies discussed in 450.318 of this part) anticipated within the area during the next one or two-year period, regardless of funding sources or the agencies conducting the activities. The description should indicate who will perform the work, the schedule for completing it and the products that will be produced.
 - (2) Document planning activities to be performed with funds provided under Title 23, U.S.C., and the Federal Transit Act (Federal Register, Vol. 58, No. 207, p. 58040).

Within Lehigh and Northampton counties in Pennsylvania, the transportation planning process is conducted through the Lehigh Valley Transportation Study (LVTS). The purpose of this document is to describe the transportation planning and programming activities for the period July 1, 2018 through June 30, 2020 in Lehigh and Northampton counties and to comply with the Federal Planning regulations identified above. At the request of PennDOT, this document will cover a two-year period. The work order that results from this work program will cover the same two-year period.

**LEHIGH VALLEY TRANSPORTATION STUDY (LVTS)
TRANSPORTATION MANAGEMENT AREA (TMA)
PROSPECTUS**

I. Introduction

- A. The Unified Planning Work Program (UPWP) describes the transportation-related work activities that the Lehigh Valley Planning Commission (LVPC) and Lehigh and Northampton Transportation Authority (LANta) (with the aid of a planning consultant, if necessary) will perform in the 2019 and 2020 state fiscal years for the two-county area.
- B. The Lehigh Valley Transportation Study (LVTS) is designated as the transportation management area (TMA) for the Lehigh Valley.

II. Committees and Agency Responsibilities

- A. The Technical Committee reviews all issues and projects and then makes recommendations to the Coordinating Committee. The Coordinating Committee is the approval body of LVTS.
- B. The LVPC serves as technical staff for LVTS and is responsible, in cooperation with PennDOT and LANta, for providing information, analyses, and plan and program recommendations to the committees for their action.

III. Priorities for 2018-2020

The top priorities for the LVTS during the 2018-2020 UPWP will be:

1. The merger of the *Lehigh Valley Regional Comprehensive Plan* with the *MOVELV: Regional Long Range Plan* and the new 2019-2045 plan's adoption. This includes the development and adoption of Performance Measures to meet FAST Act requirements and strengthening of the transportation-land use connection. LRTP due date is 10-23-19.
2. Implementing the PennDOT Connects process with PennDOT and support of additional educational efforts, such as the Local Technical Assistance Program and Lehigh Valley Government Academy.
3. Implement the 2019-2022 Transportation Improvement Program (TIP) and prepare the 2021-2024 TIP Update.
4. Participation in the joint Federal Highway Administration and Federal Transit Administration Certification Review. Final Report is due 07-16-20.
5. Coordination with neighboring MPOs to address "Mega-Regional" needs.
6. Complete and begin implementation of the *Walk/BikeLV: Regional Active Transportation Plan, Moving LANta Forward Plan* and Enhanced Bus/*Bus Rapid Transit Study*.

7. Continued focus, dialogue, writing and leadership on freight issues as the Lehigh Valley has the second highest rate of freight growth in the World, according to CBRE. Strengthen these efforts through the Freight Advisory Committee, *Airport Area Freight Study*, Interstate 78 Point of Access Study, and *MOVELV: Regional Freight Plan*.
8. Update the *LVTS Public Participation Plan*.
9. Continue to monitor transportation system changes through the Highway Performance Monitoring and Segment Inventory System and publishing transportation trends information. A functional classification review and update will be completed by October 23, 2019.
10. Continue to implement DataLV, online and interactive data sharing and economic-transportation modeling system to better communicate information and build a more collaborative approach to transportation planning and investment.

IV. Constrained Funding

Source	FY 2018 Actual	FY 2019 Proposed	FY 2020 Proposed	Total Proposed
Motor License Funds (MLF)	\$110,000	\$113,000	\$113,000	\$226,000
FHWA Metropolitan Planning Funds (PL)	\$750,000	\$764,000	\$764,000	\$1,528,000
FTA Distribution	\$100,000	\$103,000	\$103,000	\$206,000
FHWA LTAP Supplement	\$26,650	\$25,000	\$25,000	\$51,650
				\$2,011,650

TASK I – OPERATIONS, ADMINISTRATION AND COLLABORATION

<u>Estimated Cost</u>	<u>2018-2019</u>	<u>2019-2020</u>
Federal Highway Administration	\$ 178,884	\$178,884
Federal Transit Administration	\$ 24,116	\$ 24,116
Pennsylvania Department of Transportation	\$ 26,458	\$ 26,458
Local Highway	\$ 18,263	\$ 18,263
Local Transit	\$ 6,029	\$ 6,029
Total	\$ 253,750	\$253,750

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
General Office, Unified Planning Work, Program Management, Contracting and Compliance	Develop monthly, quarterly and annual progress reports and invoices for PENNDOT and other partners	LVPC	Monthly, quarterly, annually by report type
	Coordinate and collaborate on the development of the 2020-2022 Unified Planning Work Program	LVPC, PENNDOT, USDOT	Winter 2020
	Proposal development, implementation and contracting	LVPC	As needed
	Work with PENNDOT, LANta and other partners to review and update relevant cooperative planning and information sharing agreements	LVPC	As needed

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Lehigh Valley Planning Commission (LVPC) and Lehigh Valley Transportation Study (LVTS) Committees	Coordination and participation in LVPC and LVTS Committee Meetings, including preparation and review of agendas, meeting minutes, notices, website updates, documents, presentations, and support	LVPC	Monthly
	Coordination and participation in Freight Advisory Committee meetings, including preparation and review of agendas, meeting minutes, notices, website updates and support	LVPC, PENNDOT	Quarterly
	Coordination and participation in the- General Assembly and any associated sub-regional working groups on the transportation-land use connection, including preparation and review of agendas, meeting minutes, notices, website updates and support	LVPC, Municipal Officials	At least three times per calendar year; sub-regional meetings as needed
	Coordination and participation in the Multi-Modal Working Group and any ad hoc or specific issue meetings, including preparation and review of agendas, meeting minutes, notices, website updates and support	LVPC	As needed

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Training	Coordinate and participate in Local Government Academy training	LVPC	Annually
	Develop, collaborate and participate with partners to deliver transportation training programs	LVPC, PENNDOT, Partners	At least Annually

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Agency and Partner Collaboration and Coordination	Attend Planning Partner and transportation-related meetings and workshops	LVPC	Generally, Annually
	Collaboratively work with educational institutions and non-profits to share and promote innovative transportation planning ideas and concepts that might evolve from teaching, training and research opportunities	LVPC, Partners	As needed
	Coordinate planning activities with neighboring Metropolitan Planning Organizations, transportation planning agencies, transit agencies and governments	LVPC, Partners	Generally, Quarterly
	Coordinate, prepare for, participate in and comply with the US DOT Federal Certification review. Final Report is due 07-16-20.	LVPC, PENNDOT, USDOT	On-site Visit Winter 2020
	Participate in committee and board meetings related to LANta activities and planning studies	LVPC, LANta	Monthly

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Public Information	Provide data and information as requested by partners and the public	LVPC	On-going
	Solicit public input and conduct public meetings	LVPC	On-going
	Evaluate and work to mitigate the impacts of plans and programs on environmental justice communities	LVPC	On-going
	Meet with community leaders and groups, including under-represented populations, to obtain input and collaborate on transportation issues	LVPC	On-going
	Review and evaluate the effectiveness of procedures and strategies in the current Public Participation Plan and modify	LVPC	June 2020
	Maintain and implement a Title VI/Non-Discrimination Plan	LVPC	On-going

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Media/Articles/ Newsletters	Maintain, update and utilize the LVPC website (DATA LV) and social media accounts to support participation in programs and plans and disseminate transportation information	LVPC	On-going

TASK II – LAND USE PLANNING, PLANS, PROJECTS AND GUIDANCE

<u>Estimated Cost</u>	<u>2018-2019</u>	<u>2019-2020</u>
Federal Highway Administration	\$ 422,976	\$422,976
Federal Transit Administration	\$ 57,024	\$ 57,024
Pennsylvania Department of Transportation	\$ 62,561	\$ 62,561
Local Highway	\$ 43,183	\$ 43,183
Local Transit	\$ 14,256	\$ 14,256
Total	\$ 600,000	\$600,000

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Infrastructure Funding	Solicit, prioritize, evaluate, program, monitor and administer Transportation Alternatives Set-Aside (TASA) program requests	LVPC, PENNDOT	On-going
	Share information and support the use of infrastructure funding programs such as the Pennsylvania Infrastructure Bank (PIB), Multi-Modal Transportation Fund, and public-private partnerships	LVPC	On-going
	Explore and plan for the development of new, restructured, sustainable and increased funding for infrastructure maintenance and improvements	LVPC, PENNDOT, Partners	On-going
	Assist organizations and communities with transportation funding efforts, including support letters, coordinated partner meetings and joint development of funding strategies, as necessary	LVPC, PENNDOT, Partners	On-going

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Freight Planning	Identify and coordinate critical multi-modal transportation facilities and connectors that support the economy and connect to employment centers, workforce catchment areas, national markets, and international markets	LVPC, PENNDOT, Adjacent MPOs, Mega Region Partners	On-going
	Coordinate the development of a strategic freight corridor program for infrastructure management, safety and maintenance	LVPC, PENNDOT, Partners	On-going
	Designate industrial zones to assist in better transportation movement	LVPC, Municipalities, Partners	On-going
	Develop freight and land use connection guidance for local governments and communities and provide training for the community	LVPC	2020
	Support, facilitate, collaborate, promote and participate in the Airport Area Freight Study	LVPC, PENNDOT, LANta, Airport Authority, Municipalities, Partners	2019
	Participate in member groups and contribute to the greater knowledge base and problem solving on freight needs and issues. Examples include the PENNDOT Truck Parking Stakeholder Group, PENNDOT Freight Working Group, USDOT Talking Freight and other governmental, non-profit and private partner collaborative initiatives	LVPC, PENNDOT, USDOT, Municipalities	On-going
	Begin the process of updating the <i>MOVELV Regional Freight Plan</i>	LVPC	2021
	Expand freight planning, data and economic analysis capabilities and the availability of this information to the public	LVPC, Partners	On-going

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Transportation Planning + Plan Integration	Support and assist in the development of municipal access management plans and access control implementation	LVPC, PENNDOT, Municipalities, Partners	On-going

Transportation Planning + Plan Integration (cont'd)	Review and comment on street vacation requests, transportation impact assessments, transportation plan reviews, and transportation impact studies	LVPC	On-going
	Support and coordinate efforts associated with the continued implementation of the Moving LANta Forward development program and transit studies	LVPC, LANta	On-going
	Solicit and coordinate transit (LANta) review and comments on Land Developments, Comprehensive Plans and Zoning Ordinances	LVPC, LANta	Monthly
	Implement recommendations from the Enhanced Bus/Bus Rapid Transit Study	LVPC, LANta	On-going
	Coordinate, facilitate and support regional bicycle, pedestrian, last steps to transit, multi-modal and commuter corridor identification and designation, and other multi-modal activities	LVPC, PENNDOT, LANta, Municipalities, Partners	On-going
	Integrate transportation planning with land-use planning in cooperation with local, county, state and federal partners	LVPC, PENNDOT, USDOT, LANta, Municipalities, Partners	On-going
	Identify livability, sustainability, equity and resiliency planning strategies to tie the quality and location of transportation facilities and services to broader opportunities	LVPC, LANta, PENNDOT, Municipalities	On-going
	Prioritize, develop and prepare corridor master plans and implementation strategies for those areas subject to growth pressures, redevelopment and access management issues	LVPC, Municipalities, Partners	On-going
	Collaborate with the Lehigh and Northampton Airport Authority on infrastructure improvements, enhanced logistical operations and implementation and, as consistent with land-use policy, implementation of the Airport Master Plan	LVPC, Airport Authority	On-going
	Implement a corridor urban/community design program that guides corridor planning initiatives and engages stakeholders	LVPC, PENNDOT, LANta, Municipalities, Partners	Annually
	Review and comment on Highway Functional Classification and update the National Highway Performance Program as needed, incorporating any changes into transportation planning and project work	LVPC, PENNDOT, USDOT	As Needed
	Maintain the Congestion Management Process (CMP) by reviewing- high priority corridors, conducting studies, identifying mitigation strategies, developing action and after-action plans, assisting local governments in congested corridors, and providing guidance related to alternative access and circulation	LVPC, PENNDOT, Municipalities, Partners	On-going

Transportation Planning + Plan Integration (cont'd)	Develop, collaborate on and implement performance metrics and other new or enhanced portions of federal transportation legislation	LVPC, PENNDOT, USDOT, LANta, Partners	On-going and As Needed
	Participate in, contribute to and collaborate on future technologies, shared economies, globalization and other transportation-based needs that require preparation	LVPC, PENNDOT, USDOT, LANta, Municipalities, Partners	On-going
	Internal coordination and development of transportation-related content to LVPC regional planning documents, including the Comprehensive Plan, multi-municipal area plans, and open space plans	LVPC	On-going

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Agency Project and Plan Collaboration and Delivery	Review and comment on PENNDOT reports and initiatives, including pilot projects, guidance reports, and operational plans	LVPC, PENNDOT	On-going
	Participate in and attend Planning Catalyst Team and other relevant PENNDOT committee meetings	LVPC, PENNDOT	On-going
	Assist PENNDOT with implementing the Pennsylvania Climate Change Action Plan and coordinate this effort with the <i>Lehigh Valley Hazard Mitigation Plan</i>	LVPC, PENNDOT	On-going
	Work with PENNDOT to meet Linking Planning and the National Environmental Protection Act (NEPA) and Congestion Mitigation and Air Quality requirements, including analysis and reporting	LVPC, PENNDOT	On-going
	Coordinate, facilitate, participate in and support meetings between project sponsors, PENNDOT and the public, including PENNDOT Connects	LVPC, PENNDOT, LANta, Municipalities, Partners	On-going

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Safety Programs	Continue an outreach program to solicit input and promote and address bicycle and pedestrian safety issues	LVPC, PENNDOT, LANta, Municipalities, Partners	Annually or more frequently
	Monitor and implement the <i>Lehigh Valley Safety Plan</i> and comprehensively update the plan every two to four years	LVPC	On-going; Plan update 2019

Safety Programs (cont'd)	Prioritize, select areas, develop safety strategies and program capital improvement recommendations as funding allows	LVPC, PENNDOT, LANta, Municipalities	Annually
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Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Transportation Improvement Program (TIP) & Long-Range Transportation Plan (LRTP/FutureLV)	Coordinate with PENNDOT, FHWA, and FTA on the preparation and adoption of the TIP and LRTP/FutureLV	LVPC, PENNDOT, USDOT	FFY 2021
	Monitor and advance non-traditional projects, evaluate projects that are likely to cause region-wide work zone impacts, and advance projects that promote or enhance transportation management plans	LVPC	On-Going; 2021
	Work with PENNDOT to document the process for coordinating changes to the TIP and LRTP/FutureLV to ensure fiscal constraint	LVPC, PENNDOT	As Needed
	Review the TIP and LRTP/Future LV updates and present them to LVTS, LVPC, the Counties and the public	LVPC	As Needed; 2021
	Incorporate performance metrics into the planning and decision-making processes of the TIP and LRTP/FutureLV	LVPC	On-Going
	Formally merge the LRTP and the <i>Lehigh Valley Comprehensive Plan</i> to reinforce and more efficiently plan and invest in the transportation/land use connection	LVPC, PENNDOT, Counties	October 23, 2019
	Enhance the usability, communication and understanding of the LRTP/FutureLV and TIP processes and projects	LVPC, PENNDOT	On-Going

TASK III – DATA COLLECTION, ANALYSIS AND SURVEILLANCE

<u>Estimated Cost</u>	<u>2018-2019</u>	<u>2019-2020</u>
Federal Highway Administration	\$ 162,141	\$162,141
Federal Transit Administration	\$ 21,859	\$ 21,859
Pennsylvania Department of Transportation	\$ 23,982	\$ 23,982
Local Highway	\$ 16,554	\$ 16,554
Local Transit	\$ 5,465	\$ 5,465
Total	\$ 230,000	\$230,000

Category	Specific Task + Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Transportation Counts and Segment Inventory	Collect and submit PENNDOT assigned traffic counts	LVPC, PENNDOT	Annually
	Verify and update roadway segment inventory and performance measures as assigned by PENNDOT	LVPC, PENNDOT	Annually
	Attend Highway Performance Monitoring System and Traffic Workshop training provided by PENNDOT	LVPC, PENNDOT	As Available
	Prepare, report and communicate findings detailing the LVPC's traffic counting program, traffic findings, and traffic trends (DataLV)	LVPC	Annually

Category	Specific Task + Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Data, Modeling and Information Systems	Develop, maintain and enhance transportation GIS coverages, including the creation of new coverage for locally owned, non-federal aid roadways, multimodal corridors, LANta routes, rail lines and other transportation systems	LVPC	On-Going
	Investigate and implement alternatives and conflict scenario modeling to support land-planning and transportation projects	LVPC	On-Going
	Report on alternative growth scenarios and their impact on the transportation network	LVPC	2019
	Build in capacity and utilize Regional Economic Modeling (REMI) to support the transportation program, improve metrics and impact understanding and decision-making	LVPC	On-Going
	Develop and maintain a comprehensive, publically accessible online data portal (DataLV) on the transportation system and land use connection for the Lehigh Valley	LVPC	Bi-Annually

TASK IV – LOCAL TECHNICAL ASSISTANCE PROGRAM (LTAP)

<u>Estimated Cost</u>	<u>2018-2019</u>	<u>2019-2020</u>
Federal Highway Administration	\$ 26,650	\$ 25,000
Federal Transit Administration	\$ -	\$ -
Pennsylvania Department of Transportation	\$ -	\$ -
Local Highway	\$ -	\$ -
Local Transit	\$ -	\$ -
Total	\$ 26,650	\$ 25,000

Category	Specific Task + Deliverables	Responsible Entity/Entities and Collaborators	Completion Date
Local Technical Assistance Program (LTAP)	Survey, identify, advertise, and schedule regional training needs	LVPC	Ongoing
	Create materials and market the value of the LTAP program	LVPC	Annually
	Participate in the LTAP Annual Meeting and other meetings and trainings	LVPC	As Needed
	Prepare and submit quarterly and annual reports to PENNDOT detailing project activities	LVPC	Quarterly and Annually
	Coordinate, promote and participate in LTAP technical assistance to Lehigh Valley municipalities; Incorporate projects into transportation planning programs, as needed	LVPC	Annually
	Plan, coordinate and execute a Lehigh Valley Annual Participant Meeting	LVPC	Annually
	PENNDOT Connects: Powered By Communities Session; Training for Municipal Entities	LVPC	June 19, 2019

TRANSIT

Lehigh and Northampton Transportation Authority (LANta)

TASK I - ADMINISTRATION

A portion of the program is directed toward routine administrative functions and overhead costs. Supported tasks are accounting, general program administration, facility-related costs and other items associated with LANta's cost allocation plan.

TASK II - PUBLIC INFORMATION

Activities necessary for the formation and implementation of a public involvement process and the provision of customer information are included under this work task. LANta will coordinate its public transportation information efforts with those of LVTS in order to enhance both public involvement processes.

LANta's public information and involvement process is ongoing and extensive. The following items are part of this overall effort: Provision and maintenance of service information through printed and online media; public hearings and meetings; public outreach efforts that include meetings that target specific interest groups (e.g., Center for Independent Living, local planning and municipal bodies, employer organizations, economic development organizations, etc.) and direct contact to under-represented individuals, including senior citizens, disabled, minorities, etc.; the distribution of specific announcements relative to planning and other program adjustments through on-board, direct mail or other similar procedures; other online communication methods as opportunities arise; and continued research and implementation of real-time service information tools.

LANta's procedures for outreach and public participation are extensive and inclusive. Components of this program are available to LVTS and PennDOT District 5 to assist in the gathering of input on topics that are intermodal.

The primary goal of the public information program for this work year will be the continuous improvement of all phases of LANta's suite of real-time bus information tools, including the Bus Tracker. This includes web page, social media, telephone call center and smart phone application-based utilities.

TASK III – SURVEILLANCE/ASSET MANAGEMENT

LANta will maintain and enhance its public transportation management system and will participate, as appropriate, in the MPO's development of the congestion management process and the intermodal management system. Particular components of the public transportation management system will include: market research of both users and non-users of the public transportation system; maintenance of route ridership information and system-wide operating data through manual and automated collection methodologies; maintenance of equipment and facility inventory and condition information reflecting the Federal Transit Administration's (FTA) required Transit Asset Management (TAM) Plan; the development of special surveys and in-house reviews and the compilation of various database elements; the identification of

necessary performance measures and the routine evaluation of system performance; the development, evaluation and routine monitoring of Americans with Disabilities Act (ADA) paratransit performance systems; and the collection and monitoring of information relative to major transportation terminals at key transfer points and intermodal interface points.

LANta will utilize these data systems in planning for changes and revisions to the public transportation system and the required capital support. The data sets are available in usable form for necessary input into regional and statewide management systems.

In addition, data collected by LANta will be shared with the LVPC for modeling purposes such as transit demand by bus stop location and average bus running speeds by corridor segment. With this data, the LVPC can also provide LANta with demographic analysis and land use information along high performing corridors and around high performing stops, which will allow it to determine the mix of demographic and land use conditions that most effectively create transit demand in the service area.

TASK IV - SYSTEM PLANNING

The system planning component of LANta's efforts will be directed toward the development of short and long range plans. Elements of these plans will address necessary metropolitan and system planning. Much of LANta's efforts in these program years will involve continuous service improvement efforts based on its adopted LANta Bus Service and Performance Guidelines. LANta prepares an Annual Service Performance Report which compares its current service to its adopted guidelines. Findings from this report guide planning actions for the subsequent year.

In 2013, LANta completed the Lehigh Valley Enhanced Bus/Bus Rapid Transit Study. Efforts in FY 2019 and 2020 will be directed toward implementing the recommendations of the study. This will include in-house service planning as well as coordination with the LVPC and PennDOT to incorporate recommended elements into other transportation projects involving the study corridors, including signal retiming, signal prioritization studies and intersection reconstruction. In addition, LANta will work closely with the LVPC to use the long-range transportation plan process to help identify priorities for the Enhanced Bus/Bus Rapid Transit Study recommendations and to then include these prioritized recommendations in the long-range plan document.

Other key areas of the system planning component will include: service planning and coordination efforts associated with the continued implementation of the *Moving LANTA Forward* program; outreach and coordination efforts with local municipal planning officials regarding transit-friendly land use development; planning and provision of passenger amenities and signage at bus stops and transit centers; planning for safe and convenient access to bus stops and transit centers through the identification of needed improvements to the pedestrian environment; routine reassessment and planning of route adjustments throughout the fiscal year affecting the LANta Bus division; capital improvement program analyses and updates for use in TIP development; the update and revisions to financial plans; maintenance of the strategic plan for system development; involvement in long range planning efforts per LVTS and other government agency requirements, including the preparation of the public transportation portion of the long range transportation plan; the assessment of involvement of private carriers in program development efforts; the maintenance of clean air planning program elements; involvement in particular local projects related to community and industrial development, i.e. transit related components; the continuing assessment of transit system issues, including maintenance and operating procedures, safety and security, procurement, education and professional development; necessary updates to ADA implementation plans; and direct input to statewide plan efforts as required.

TASK V - TIP DEVELOPMENT AND MAINTENANCE

The annual programming process is a key part of LANta's planning efforts. This work relates directly to the LVTS process as well as the internal needs of LANta's operations. Key programming elements include: LANta's annual Program of Projects; input to the development of the TIP; annual financial capacity assessments and budget plans; and provision of long range programming elements affecting LVTS's LRTP and PennDOT's TYP.

TASK VI - SPECIAL STUDIES AND LTAP

Technical Support - LANta will be involved as a liaison with projects that require major investment studies.

New Technology Applications - LANta continues to explore new technology and how to employ it to make the transit system more efficient and more responsive to community needs. Staff work includes applications in the following areas:

- Data management and systems planning
- Geographic Information System (GIS) applications
- Automatic Vehicle Location (AVL) systems
- Computerized run-cutting programs for the LANta Bus System

With LANta's Advanced Transit Management System (ATMS) installed and functional, LANta's efforts in these task years will include the continued optimization and improvement of the ATMS to maximize data quality and the continued incorporation of the data reporting capabilities of the system into planning and operations oversight processes.

Also, much of LANta's work in this task will be directed towards the continued development of capabilities and procedures for fully automated run-cutting and schedule document preparation using fixed route scheduling software.

BUDGET SUMMARY - YEAR 1
FY 2018-2019 UPWP
LEHIGH VALLEY TRANSPORTATION STUDY
***Revised May 21, 2019**

		TOTAL TASK	HIGHWAY			TRANSIT	
			PL	MLF	LOCAL	MPP	LOCAL
I	Operations, Administration and Collaboration	\$ 253,750	\$ 178,884	\$ 26,458	\$ 18,263	\$ 24,116	\$ 6,029
II	Land Use Planning, Plans, Projects and Guidance	\$ 600,000	\$ 422,976	\$ 62,561	\$ 43,183	\$ 57,024	\$ 14,256
III	Data Collection and Surveillance	\$ 230,000	\$ 162,141	\$ 23,982	\$ 16,554	\$ 21,859	\$ 5,465
Subtotal		\$ 1,083,750	\$ 764,000	\$ 113,000	\$ 78,000	\$ 103,000	\$ 25,750
SUPPLEMENTAL FUNDS							
IV	LTAP	\$ 26,650	\$ 26,650	\$ -			
Subtotal		\$ 26,650	\$ 26,650	\$ -		\$ -	\$ -
TOTAL BUDGET		\$ 1,110,400	\$ 790,650	\$ 113,000	\$ 78,000	\$ 103,000	\$ 25,750

BUDGET SUMMARY - YEAR 2
FY 2019-2020 UPWP
LEHIGH VALLEY TRANSPORTATION STUDY

		TOTAL TASK	HIGHWAY			TRANSIT	
			PL	MLF	LOCAL	MPP	LOCAL
I	Operations, Administration and Collaboration	\$ 253,750	\$ 178,884	\$ 26,458	\$ 18,263	\$ 24,116	\$ 6,029
II	Land Use Planning, Plans, Projects and Guidance	\$ 600,000	\$ 422,976	\$ 62,561	\$ 43,183	\$ 57,024	\$ 14,256
III	Data Collection and Surveillance	\$ 230,000	\$ 162,141	\$ 23,982	\$ 16,554	\$ 21,859	\$ 5,465
Subtotal		\$ 1,083,750	\$ 764,000	\$ 113,000	\$ 78,000	\$ 103,000	\$ 25,750
SUPPLEMENTAL FUNDS							
IV	LTAP	\$ 25,000	\$ 25,000	\$ -	\$ -	\$ -	\$ -
Subtotal		\$ 25,000	\$ 25,000	\$ -		\$ -	\$ -
TOTAL BUDGET		\$ 1,108,750	\$ 789,000	\$ 113,000	\$ 78,000	\$ 103,000	\$ 25,750