APPENDICES

APPENDIX A

Glossary

AADT or Annual Average Daily Traffic – The estimate of typical daily traffic on a road segment for all days of the week, Sunday through Saturday, over the period of one year.

Access – The facilities and services that make it possible to get to any destination, measured by the availability of physical connections (roads, sidewalks, etc.), travel options, ease of movement, and nearness of destinations.

ARRA or American Recovery and Reinvestment Act of 2009— The American Recovery and Reinvestment Act of 2009 (ARRA) is a \$787 billion economic stimulus package signed into law by President Barack Obama on Feb. 17, 2009. A percentage of the package targets spending (contracts, grants, and loans) and the rest includes tax cuts and entitlements such as Medicaid and Social Security Administration payments. ARRA has provided 100% federal funding to implement roadway, transit, bicycle and pedestrian preservation and improvement projects.

Amenities - Anything that increases physical or material comfort, such as bus shelters, trees, benches, and landscaping.

C or Construction – Abbreviation used in the WILMAPCO TIP

CAAA or Clean Air Act and its Amendments - The federal law that requires urban areas with high pollution to modify transportation policies in order to reduce emissions. This law makes air quality a primary concern in transportation decision-making.

CBD or Central Business District - Downtown portion of a city that serves as the primary activity center. Its land use is characterized by intense business activity that serves as a destination for a significant number of daily work trips.

CMAQ or Congestion Mitigation and Air Quality - Federal funds available for either transit or highway projects which contribute significantly to a reduction in automobile emissions that cause air pollution.

CMS or Congestion Management System - A process for evaluating the level of congestion on the region's transportation system, and for identifying strategies which will reduce this congestion.

Conformity – An assessment of the compliance of any transportation plan, program, or project with air quality improvement plans. The conformity process is defined by the Clean Air Act.

CTP or Capital Transportation Program - The program devised by the state of Delaware to determine and prioritize transportation capital investments. These needs and cost estimates are updated annually in the program. This process is coordinated with WILMAPCO in the development of its TIP, or Transportation Improvement Program.

CTP or Consolidated Transportation Program – The program devised by the state of Maryland to determine and prioritize transportation capital investments. These needs and cost estimates are updated annually in the program. This process is coordinated with WILMAPCO in the development of its TIP, or Transportation Improvement Program.

Delaware Council on Transportation – Appointed by the Governor and made up of business and community leaders who are interested in transportation subjects and have demonstrated expertise or experience that would help in evaluating relevant issues and programs. It advises DelDOT and the Governor on issues which may aid in providing the best possible transportation services.

DelDOT or Delaware Department of Transportation - DelDOT provides the transportation network throughout Delaware, including design, construction and maintenance of roads and bridges, highway operations and operation of DART First State.

DNREC or Delaware Department of Natural Resources and Environmental Control – Agency charged with protecting and managing Delaware's natural resources, protecting public health and safety, providing outdoor recreation, and educating and the environment.

DRBA or Delaware River and Bay Authority - Overseen by six commissioners from New Jersey and six from Delaware, the DRBA is charged with providing transportation links between the two states and economic development in Delaware and southern New Jersey. The DRBA operates the Delaware Memorial Bridge, Cape May-Lewes Ferry, Three Forts Ferry Crossing, Salem County Business Center and five airports—New Castle, Civil Air Terminal at Dover AFB, and Delaware Airpark, in Delaware, and Millville and Cape May, in New Jersey.

DTC or Delaware Transit Corporation – Operates "DART First State", statewide multimodal and specialized transportation services throughout the State of Delaware.

Demographic Trends - Trends regarding population, such as size, growth, density, distribution and vital statistics.

Design Criteria - Criteria used to guide the design of development and transportation projects. Transit-oriented design (TOD) and mobility-friendly design are examples.

EPA or Environmental Protection Agency – The federal regulatory agency responsible for administrating and enforcing federal environmental laws including the Clean Air Act.

FHWA or Federal Highway Administration – The agency of the U. S. Department of Transportation that funds surface transportation planning and programs, primarily highways.

FTA or Federal Transit Administration – The agency of the U.S. Department of Transportation that funds surface transportation planning and programs, primarily transit.

Fixing America's Surface Transportation (FAST) Act - The \$305 billion, five-year funding and authorization bill to govern United States federal surface transportation spending. It was passed by Congress on December 3, 2015, and President Barack Obama signed it on December 4.

Financial Plan - Federal surface transportation spending legislation requires that Plan recommendations are actually affordable. A financial plan must be developed to show that we are reasonably certain that funding sources will be adequate for implementation.

Functional Classification – A hierarchical system of categorizing streets and roads on the basis of the way they are used, the volumes of traffic they carry, and the way they function within the context of the overall transportation system.

FY or Fiscal Year – WILMAPCO's yearly accounting period begins July 1 and ends the following June 30. Fiscal years are denoted by the calendar year in which they end. The federal fiscal year is October 1-September 30. The MDOT and DelDOT fiscal year runs concurrent with WILMAPCO's.

GARVEE or Grant Anticipation Revenue Vehicle-- A GARVEE is any bond or other form of debt repayable, either exclusively or primarily, with future Federal-aid highway funds under Section 122 of Title 23 of the United States Code. Although the source of payment is Federal-aid funds, GARVEEs cannot be backed by a Federal guarantee, but are issued at the sole discretion of, and on the security of, the state issuing entity.

GIS or Geographic Information Systems – GIS is a system of computer software, hardware and data to help manipulate, analyze and present information that is tied to a spatial location.

Greenways - Interconnecting paths designed to accommodate bicycle and pedestrian uses. Greenways link our natural areas and make them accessible to our communities. The Lower Susquehanna Greenway, the East Coast Greenway, and the Delaware Coastal Heritage Greenway are examples.

Infrastructure - The physical structure of a community, such as roads, sidewalks, sewers, rail lines, and bridges.

Intelligent Transportation Systems (ITS) - Technologies that improve the management and efficiency of our transportation system, such as electronic toll collection, timed traffic signals and on-board navigation systems.

Intermodal – Those issues or activities which involve or affect more than one mode of transportation, including transportation connections, choices, cooperation and coordination of various modes. Also known as "multimodal". The term "mode" is used to refer to and to distinguish from each other the various forms of transportation, such as automobile, transit, ship, bicycle and walking.

ISTEA – The acronym for the federal Intermodal Surface Transportation Efficiency Act of 1991, landmark legislation that restructured programs for all methods of transportation. Replaced by MAP-21

Land Use – Activities and structures on the land, such as housing, shopping centers, farms, and office buildings.

Long-Range Plan – A transportation plan covering a time span of 20 or more years.

MAP-21-- Moving Ahead for Progress in the 21st Century Act-- The fourth, and most recent, transportation re-authorization legislation. Enacted on July 6, 2012, MAP-21 authorized funding surface transportation programs at over \$105 billion for fiscal years FY 2013 and 2014. Replaces ISTEA, TEA-21 and SAFETEA-LU.

MARC or Maryland Rail Commuter Service - One of the mass transit systems in Baltimore, Washington and Virginia.

MdTA or Maryland Transportation Authority - The Authority is responsible for managing, operating and improving the State's toll facilities.

MDOT or Maryland Department of Transportation - The Department provides Maryland citizens with a transportation network encompassing aviation, highway, marine, mass transit, motor vehicle, railroad and toll facilities.

Metropolitan Planning Organization (MPO) – The organization required by the federal government, designated by states, and operated by local officials for developing transportation programs in urban areas of 50,000 or more people. The MPO for our region is WILMAPCO.

MTA or Maryland Mass Transit Administration - The MTA provides a network of transit, rail and freight services.

Mobility – The movement of people or goods throughout our communities and across the region. Mobility is measured in terms of travel time, comfort, convenience, safety and cost.

Multimodal-- A transportation system or project that accommodates automobiles, public transit, public safety vehicles, freight, pedestrians and bicycles in a balanced way to maximize access and mobility and to minimize congestion throughout the community.

NAAQS or National Ambient Air Quality Standards - The U.S. Environmental Protection Agency (EPA) has established National Ambient Air Quality Standards (NAAQS) for six air pollutants: ozone, lead, carbon monoxide, sulfur dioxide, nitrogen dioxide, and respirable particulate matter.

NOx or Nitrogen Oxides - is the generic term for a group of highly reactive gases, all of which contain nitrogen and oxygen in varying amounts. Many of the nitrogen oxides are colorless and odorless. However, one common pollutant, nitrogen dioxide (NO₂) along with particles in the air can often be seen as a reddish-brown layer over many urban areas.

PAC or Public Advisory Committee – An advisory committee to the Council that represents a diverse group of organizations. The mission of the PAC is to advise the Council on public participation strategies and to provide a forum for community concerns.

Park-and-Ride – Lots in outlying areas where people can park and then use transit, carpool, or vanpool for the remainder of their trip.

PD or Project Development – The planning phase of a project. An abbreviation used in the WILMAPCO TIP

PE or Preliminary Engineering – An abbreviation used in the WILMAPCO TIP

Pipeline Process – Formerly used by DelDOT to keep track of projects and to help move them from idea state to implementation.

ROW or Right of Way Acquisition – An abbreviation used in the WILMAPCO TIP.

Regional Transportation Plan (RTP)— A blueprint to guide the region's transportation for the next 25 years. Federal law requires the RTP to be updated every four years (in areas that do not meet air quality standards) to ensure that the plan remains current and effective at achieving the goals. Formerly known as the Metropolitan Transportation Plan (MTP).

SAFETEA-LU - Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users. The third transportation reauthorization legislation. Enacted into law in July of 2005, the bill authorizes \$284 billion of federal funding through 2009. Replaces ISTEA and TEA-21.

SEPTA or Southeastern Pennsylvania Transportation Authority - Transit authority for Philadelphia and the surrounding areas.

SHA or (Maryland) State Highway Administration - As part of the Maryland Department of Transportation (MDOT), SHA is responsible for more than 16,000 lane miles of interstate, primary and secondary roads and more than 2,500 bridges.

SIP or Statewide Implementation Plan – Documents prepared by states and submitted to the EPA for approval, which identify actions and programs to carry out the requirements of the Clean Air Act.

Special Use Lanes – Lanes on heavily congested roadways that are used exclusively by carpools, vanpools, buses or any vehicle that transports multiple passengers; also called High Occupancy Vehicle (HOV) lanes.

Sprawl – Commercial and residential development occurring farther away from traditional communities and towns, usually limiting mobility and accessibility to auto use only.

STIP or Statewide Transportation Improvement Program – A multi-year, statewide intermodal program of transportation projects that includes project scheduling and funding information. Known in both Delaware and Maryland as the CTP.

TAC or Technical Advisory Committee – An advisory committee to the Council that represents federal, state, and local planning agencies in Delaware and Maryland. The TAC is responsible for overseeing the technical work of WILMAPCO staff and developing recommendations to the Council on projects and programs.

TEA-21 – The acronym for the 1998 federal Transportation Equity Act for the 21st Century. Replaced ISTEA, but continued and expanded ISTEA's restructured programs for all modes of transportation. It provides guidelines to authorize federal funding of transportation projects.

TIP or Transportation Improvement Program – A program that lists all federally funded projects and services in the WILMAPCO region, covering a period of four years. It is developed annually in cooperation with MDOT, DelDOT and affected transit operators.

Traffic Calming – Design techniques to decrease the speed and volume of vehicle traffic on streets, while still providing vehicle circulation in an area. Techniques include speed bumps, landscaping and roundabouts.

Transit – Passenger service provided to the public along established routes. Paratransit is a variety of smaller, often flexibly scheduled and routed transit services serving the needs of persons that standard transit would serve with difficulty or not at all.

Transit-Oriented Development – Transit-oriented development (TOD) is development characterized by a layout that encourages use of public transit service and walking or bicycling instead of automobile use for many trip purposes. Typically, it places higher density development within an easy walking distance of ½ to ½ mile of a public transit station or stop and is mixed-use, accessible by all other modes. It is compact, pedestrian friendly, and has a transit stop or station as an activity center.

Transportation Investment Areas (TIA) – Areas for future investments in transportation which will match transportation investments to land use needs.

UPWP or Unified Planning Work Program – A plan, developed by WILMAPCO, that **g**uides all transportation planning activities in the WILMAPCO region.

VOC or Volatile Organic Compounds - VOC's are hydrocarbons released from burning fuel such as gasoline, oil as well as vapors from paints and dry-cleaning solvents. These vapors are released into the atmosphere and are acted upon by the sun and heat and combine with Nitrogen Dioxide (NOx) to form ozone.

VMT or Vehicle Miles of Travel – A standard areawide measure of travel activity, calculated by multiplying average trip length by the total number of trips.

Wilmington Area Planning Council (WILMAPCO) – The MPO for Cecil County, Maryland and New Castle County, Delaware.

APPENDIX B

Self Certification, Resolutions and Organizational Chart

Self-Certifications Summary of Statutory Requirements

Metropolitan Planning

The State and the MPO shall certify to FHWA and FTA at least every four years that the planning process is addressing major issues facing their area and is being conducted in accordance with all applicable transportation planning requirements. The planning process will undergo joint review and evaluation by FHWA, FTA, and State DOT to determine if the process meets requirements.

The process for developing the MTPs and programs shall provide for consideration of all modes of transportation and shall be continuing, cooperative, and comprehensive to the degree appropriate, based on the complexity of the transportation problems to be addressed.

[23 CFR 450.334; U.S.C. Title 23, Sec. 134, and U.S.C. Title 49, Ch. 53, Sec. 5303]

WILMAPCO Actions

WILMAPCO (Wilmington Area Planning Council) is the metropolitan planning organization (MPO) for Cecil County, Maryland and New Castle County, Delaware. As the MPO, we are required by the federal government to bring local government, state transportation agencies and the public into the transportation decision making process. A range of stakeholders come together through WILMAPCO to develop:

- Regional Transportation Plan (RTP) every four years, http://www.wilmapco.org/rtp/
- Congestion Management System (CMS) annually, http://www.wilmapco.org/cms/
- Unified Planning Work Program (UPWP) annually, http://www.wilmapco.org/upwp/
- Transportation Improvement Program (TIP) annually, http://www.wilmapco.org/tip/
- Performance Based Planning through the regional progress report, http://www.wilmapco.org/regional-progress-report/
- Public Participation Plan, http://www.wilmapco.org/ppp/

Planning is done using a collaborative process that fosters involvement by the public and stakeholders, informs transportation decisions, reflects community's vision, goals and objectives, considers a variety of alternative strategies and a diverse set of concerns, and accounts for all forms of transportation and their impacts. Guidance is provided through the Technical Advisory Committee and its subcommittees, and the Public Advisory Committee.

Measures prohibiting discrimination and exclusion, and requiring equal opportunity

Title VI, Civil Rights Act of 1964

Title VI prohibits exclusion from participation in, denial of benefits of, and discrimination under Federally assisted programs on grounds of race, color, or national origin. Title VI assurance regulations were also executed by each State, prohibiting discrimination on the basis of sex or disability.

[23 U.S.C. 324 and 29 U.S.C. 794]

Disadvantaged Business Enterprises (DBE)

The DBE program ensures equal opportunity in transportation contracting markets, addresses the effects of discrimination in transportation contracting, and promotes increased participation in Federally-funded contracts by small, socially and economically disadvantaged businesses, including minority- and women-owned enterprises. The statute provides that at least 10 percent of the amounts made available for any Federal-aid highways, mass transit, and transportation research and technology program be expended with certified DBEs.

[MAP-21, Pub. L. 109-59, Sec. 1101(b); CFR 49, Subtitle A, Part 26]

Americans with Disabilities Act of 1990 (ADA)

Programs and activities funded with Federal dollars are prohibited from discrimination based on disability. Compliance with the applicable regulations is a condition of receiving Federal financial assistance from the DOT.

Older Americans Act

Confirms opportunity for employment with no discriminatory personnel practices because of age. Also, the Older American Act Amendments of 2006 included provisions relating to transportation in Title III-B (Grants for State and Community Programs on Aging, Title IV [Technical Assistance and Innovation to Improve Transportation for Older Individuals], Title V [Senior Community Service Employment Program], and Title VI [Native American Aging Programs].

[Pub. L. 89-73, as amended, and 42 U.S.C. 6101]

Section 324 of 23 U.S.C.

No one on the basis of gender shall be denied participation in or benefits of any program or activity receiving Federal assistance under Title 23.

Rehabilitation Act of 1973

This law protects qualified individuals from discrimination based on their disability. The nondiscrimination requirements of the law apply to employers and organizations that receive financial assistance from any Federal department or agency, including the U.S. Department of Health and Human Services (DHHS).

WILMAPCO Actions

It is the policy of WILMAPCO to afford equal opportunity for participation in programs, activities and employment. All participation decisions are made without regard to race, color, age, sex, religion, national origin, ancestry, marital status, physical or mental handicap that can reasonably be accommodated, or status as a military veteran.

Public involvement is a key component of the transportation planning and programming process. A proactive public involvement process is one that provides complete information, timely public notice, and full public access to major transportation decisions, and supports early and continuing involvement of the public in developing transportation plans and programs.

It is the policy of WILMAPCO to afford equal opportunity for employment. All employment decisions are made without regard to race, color, age, sex, religion, national origin, ancestry, marital status, physical or mental handicap that can reasonably be accommodated, or status as a military veteran. http://www.wilmapco.org/titlevi/

As an agency, we are committed to incorporating Title VI throughout our planning process. Contracts with third-party firms, as well as our personnel manual, feature all federally-required non-discriminatory clauses and Disadvantaged Business Enterprises (DBE) assurances.

We are also asked to reach out to people who are traditionally left out of the transportation planning process, such as low-income and minority households. Periodically the Public Participation Plan undergoes an evaluation of its public participation activities and initiatives. The PPP is then revised or amended to enhance public participation in the transportation planning process. Evaluation examines geographic distribution of the WILMAPCO Transporter (the newsletter), literature distribution at minority group event(s), contact with minority population media, and creation of foreign language documents and low literacy documents. http://www.wilmapco.org/ppp/

In addition to conducting special outreach to these communities, we must show if transportation investments are adversely impacting these populations and that improvements are equitably distributed. Our Environmental Justice (EJ) and Title VI initiatives seeks to identify and mitigate the transportation burdens low-income and minority groups carry. It aims to direct spending into these communities, via our project prioritization process, to improve EJ public participation, as well as to plan for and help guide the implementation of community-based transportation projects. Our Transportation Justice (TJ) initiative goes beyond federal mandates, assessing the challenges faced by three other mobility-constrained populations: the elderly, the disabled, and zero-car households. The Appendix of the EJ Report contains EEO, DBE, etc. statements are on pp. 89-93. WILMAPCO also coordinates with DelDOT's Civil Rights Department as needed.

http://www.wilmapco.org/ej/

WILMAPCO is fully committed to the spirit and intent of the ADA legislation. To facilitate participation by people with disabilities, the following guidelines and activities apply:

- All WILMAPCO public meetings and formal events will be held in facilities that are accessible to persons with disabilities.
- All documents available to the public will be provided in alternative formats for qualified individuals with disabilities, upon request.
- The website will be accessible to and usable by individuals with vision impairments.
- Additional accommodations will be provided on an as-needed basis.

Clean Air Act: Air-Pollution Prevention and Control

All State and local transportation officials will take part in a 3C planning process in nonattainment and maintenance areas to determine which planning elements will be developed, adopted, and implemented to maintain or improve the air quality for said area. In nonattainment and maintenance areas that include more than one State, the affected States may jointly undertake and implement air-quality-planning procedures.

The Federal government will not financially support activities that do not conform to approved plans. Priority of funding will be given to those projects or programs that achieve and maintain national primary ambient air-quality standards.

[42 U.S.C., Ch. 85, §§ 7408, 7410, 7504, 7505a, 7511, 7512, 7506(c) and (d), and 7604; 49 U.S.C., Ch. 53, 23 U.S.C., § 134]

WILMAPCO Actions

The WILMAPCO Air Quality Subcommittee has 13 members representing federal, state and local agencies in Delaware and Maryland. The AQS assesses the air quality impacts of transportation projects in WILMAPCO's Transportation Improvement Program (TIP) and Regional Transportation Plan (RTP). Their recommendations help our region attain its air quality goals. WILMAPCO does not adopt or amend a RTP or TIP until conformity has been demonstrated with the State Implementation Plan for Air Quality, including the air quality conformity requirements as set forth in the Clean Air Act Amendments of 1990. Resources are allocated annually as part of the UPWP to ensure the coordination of the transportation and air quality planning activities, and support determination of the air quality conformity process of the RTP and TIP. The WILMAPCO Air Quality Subcommittee meets regularly to foster coordination and provide guidance to WILMAPCO Council. http://www.wilmapco.org/ags/

Wilmington Area Planning Council

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Robert Alt Mayor of Elkton

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New Castle County Executive

Connie C. Holland

Delaware Office of State Planning Coordination, Director

Cecil County Executive Tari Moore

Heather Murphy
Maryland Dept. of Transportation
Director, Office of Planning and Capital Programming

Michael Spencer
Mayor of Newport

Dennis P. Williams Mayor of Wilmington

WILMAPCO Executive Director Tigist Zegeye

RESOLUTION

AMENDED FY 2017-2020 TRANSPORTATION IMPROVEMENT PROGRAM BY THE WILMINGTON AREA PLANNING COUNCIL (WILMAPCO) APPROVING THE NEW CASTLE COUNTY AND CECIL COUNTY AIR QUALITY CONFORMITY DETERMINATIONS FOR THE AND THE

the Metropolitan Planning Organization for Cecil County, Maryland and New Castle WHEREAS, the Wilmington Area Planning Council (WILMAPCO) has been designated

AMENDED 2040 REGIONAL TRANSPORTATION PLAN

County, Delaware by the Governors of Maryland and Delaware, respectively; and

County, Maryland in nonattainment for ozone; and maintenance for fine particulate matter and both New Castle County, Delaware and Cecil Ambient Air Quality Standards (NAAQS) designated New Castle County, Delaware in WHEREAS, the United States Environmental Protection Agency has under the National

with federal requirements; and Transportation Improvement Programs and Regional Transportation Plans in accordance WHEREAS, WILMAPCO must demonstrate transportation conformity on

conformity consultation process; and Plan have undergone appropriate technical review as required Transportation Improvement Program and the Amended 2040 Regional Transportation WHEREAS, the Air Quality Conformity Determinations for the Amended FY 2017-20 by the interagency

B-5

Plan show conformity to all appropriate budgets; and Transportation Improvement Program and the Amended 2040 Regional Transportation WHEREAS, the emission projections outlined m the Amended FY 2017-20

Plan has undergone a 30-day public review and comment period, including one public Transportation Improvement Program and the Amended 2040 Regional Transportation open house; WHEREAS, the Air Quality Conformity Determinations for the Amended FY 2017-20

the Amended 2040 Regional Transportation Plan NOW, THEREFORE, BE IT RESOLVED that the Wilmington Area Planning Council Determinations for the Amended FY 2017-20 Transportation Improvement Program and approves the New Council County and Cecil County Air Quality Conformity

Sppkmber 8, 2016 Date:

John Sisson, Chairperson

Wilmington Area Planning Council

850 Library Avenue, Suite 100 Newark, Delaware 19711 302-737-6205; Fax 302-737-9584 From Cecil County: 888-808-7088 e-mail: wilmapco@wilmapco.org web site: www.wilmapco.org

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Delaware Office of State Planning

Coordination, Director

Tari Moore Cecil County Executive

Maryland Dept. of Transportation Director, Office of Planning and Capital Programming **Heather Murphy**

Michael Spencer Mayor of Newport

Dennis P. Williams Mayor of Wilmington

WILMAPCO Executive Director
Tigist Zegeye

RESOLUTION

PROGRAM, TRANSPORTATION ALTERNATIVES PROGRAM, FTA URBANIZED PROGRAM, CONGESTION MITIGATION AND AIR QUALITY IMPROVEMENT AMENDING THE NEW CASTLE COUNTY AND DELAWARE STATEWIDE PROGRAM INCLUDING USE OF URBAN SURFACE TRANSPORTATION ELEMENTS OF THE FY 2017-20 TRANSPORTATION IMPROVEMENT BY THE WILMINGTON AREA PLANNING COUNCIL (WILMAPCO) AREA, AND FTA 5310 PROGRAM FUNDS

Metropolitan Planning Organization (MPO) for Cecil County, Maryland and New Castle County, WHEREAS, Delaware by the Governors of Maryland and Delaware, respectively; and the Wilmington Area Planning Council (WILMAPCO) has been designated the

of Fixing America's Surface Transportation Act (FAST) Metropolitan Planning Requirements require four years, update the Transportation Improvement Program (TIP); and that the MPO, in cooperation with participants in the planning process, develop, and at least every WHEREAS, the United States Department of Transportation (USDOT) Regulations and Regulations

WHEREAS, the TIP can be amended from time to time by the WILMAPCO Council; and

WHEREAS, the projects to be amended into the FY 2017-2020 TIP have undergone appropriate technical review, where it was determined that an air quality conformity determination is not required;

portion of the Statewide Capital Transportation Program for Delaware; and conforming 2040 Regional Transportation Plan (RTP) that is the basis for the New Castle County WHEREAS, the projects to be amended in the FY 2017-2020 TIP are drawn from the an air quality

WHEREAS, the RTP can be amended from time to time by the WILMAPCO Council; and

23 CFR 450.324 (e); and WHEREAS, the MPO has determined that the amendments are financially constrained, as directed by

WHEREAS, the FY 2017 projects contained in the amended FY 2017-2020 TIP will be utilized as the priority list of projects;

approve amending the FY 2017-2020 TIP including proposed use of Urban STP, CMAQ, FTA NOW, THEREFORE, BE IT RESOLVED that the Wilmington Area Planning Council does hereby Urbanized Area, FTA 5310, and TAP Funds for FY 2017 projects.

Spember 8,2016

Wilmington Area Planning Council ohn Sisson, Chairperson



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Tari Moore Cecil County Executive

Director, Office of Ha Capital Programming Heather Murphy Maryland Dept. of Transportation Director, Office of Planning and

Michael Spencer

Dennis P. Williams Mayor of Wilmington

WILMAPCO Executive Director

RESOLUTION

BY THE WILMINGTON AREA PLANNING COUNCIL (WILMAPCO) FY 2017-2020 TRANSPORTATION IMPROVEMENT PROGRAM ADOPTING THE

County, Delaware by the Governors of Maryland and Delaware, respectively; and the Metropolitan Planning Organization (MPO) for Cecil County, Maryland and New Castle WHEREAS, the Wilmington Area Planning Council (WILMAPCO) has been designated

Improvement Program (TIP); and in the planning process, develop and, at least every four years, updates the Transportation require that, in air quality non-attainment areas, the MPO, in cooperation with participants Fixing America's Surface Transportation (FAST), Metropolitan Planning Requirements, WHEREAS, the United States Department of Transportation's (USDOT) Regulations of

and New Castle County portions of the respective Statewide Capital Transportation conforming 2040 Regional Transportation Plan (RTP) that is the basis for the Cecil County Programs for Maryland and Delaware; and WHEREAS, the projects included in the FY 2017-2020 TIP are drawn from the air quality

priority projects to be implemented, as well as a list of program development projects; and WHEREAS, the WILMAPCO TIP format incorporates a four-year period for the listing of

reviews; and WHEREAS, the FY 2017-2020 TIP has undergone appropriate community and technical

FAST Act and Clean Air Act and Amendments (CAAA) of 1990 requirements; and WHEREAS, the TIP must be determined to be air quality conforming in accordance with

directed by 23 CFR 450.324 (e), and consistent with the Regional Transportation Plan; WHEREAS, the FY 2017-2020 TIP has been found to be financially constrained, as

does hereby adopt the FY 2017-2020 Transportation Improvement Program NOW, THEREFORE, BE IT RESOLVED that the Wilmington Area Planning Council

Date:) lauch 10,

John Sisson, Chairperson

Wilmington Area Planning Council

Wilmington Area Planning Council

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Heather Murphy
Maryland Dept. of Transportation
Director, Office of Planning and
Capital Programming

Michael Spencer Mayor of Newport

Dennis P. Williams Mayor of Wilmington

VILMAPCO Executive Di

WILMAPCO Executive Director Tigist Zegeye

RESOLUTION
BY THE WILMINGTON AREA PLANNING COUNCIL
CERTIFYING THE METROPOLITAN TRANSPORTATION

PLANNING PROCESS FOR FISCAL YEAR 2017

Maryland and Delaware, respectively; and is responsible for the performance of the transportation planning process in the Wilmington Urbanized Area; and Planning Organization for Cecil County, Maryland and New Castle County, Delaware by the Governors of WHEREAS, the Wilmington Area Planning Council (WILMAPCO) has been designated the Metropolitan

process is consistent with applicable Federal Law; and WHEREAS, it is the responsibility of WILMAPCO to ensure that said policy, planning, and programming

WILMAPCO certify that its transportation planning process is in conformance with regulations; and, WHEREAS, the USDOT Fixing America's Surface Transportation (FAST) Act legislation requires the

WHEREAS, the Federal Regulations for metropolitan transportation planning in 23 CFR 450.334 state that the State(s) and the MPO shall annually certify to the FHWA and the FTA that the planning process is addressing the major issues facing the area and is being conducted in accordance with all applicable requirements of:

- (1) 23 U.S.C. 134, 49 U.S.C. 5303, and this subpart;
- amended (42 U.S.C. 7504, 7506 (c) and (d)) and 40 CFR part 93; (2) In nonattainment and maintenance areas, sections 174 and 176 (c) and (d) of the Clean Air Act, as
- (3) Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d-1) and 49 CFR part 21;
- (4) 49 U.S.C. 5332, prohibiting discrimination on the basis of race, color, creed, national origin, sex or age in employment or business opportunity;
- (5) Section 1101 (b) of the Fixing America's Surface Transportation (FAST) Act -Pub. L. 112-141 and 49 CFR Part 26 regarding the involvement of disadvantaged business enterprises in USDOT funded projects;
- (6) 23 CFR part 230, regarding the implementation of an equal employment opportunity program on Federal and Federal-aid highway construction contracts; (7) The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) and 49 CFR parts
- (8) The Older Americans Act, as amended (42 U.S.C. 6101), prohibiting discrimination on the basis of age in
- programs or activities receiving Federal financial assistance; (9) Section 324 of title 23, U.S.C., regarding the prohibition of discrimination based on gender; and
- discrimination against individuals with disabilities. (10) Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. 794) and 49 CFR part 35 regarding

is being carried on in conformance with all applicable requirements. NOW, THEREFORE, BE IT RESOLVED, that WILMAPCO does hereby certify that the planning process

Departments of Transportation join this certification, as signified by their signatures on the attached, and BE IT FURTHER RESOLVED, that WILMAPCO does hereby request that the Maryland and Delaware forward this joint self-certification to both FHWA and FTA.

1) and 10, 2016

John Sisson, Chairperson Wilmington Area Planning Council

VILMAPCO
Partners with you in transportation planning

METROPOLITAN TRANSPORTATION PLANNING PROCESS SELF-CERTIFICATION

(To be submitted with each Metropolitan Transportation Improvement Program)

area and is being conducted in accordance with all applicable requirements of: hereby certify that the transportation planning process is addressing the major issues in the metropolitan planning Area Planning Council (WILMAPCO), the metropolitan planning organization for the Wilmington urbanized area, The Maryland Department of Transportation and the Delaware Department of Transportation and the Wilmington

- (1) 23 U.S.C. 134, 49 U.S.C. 5303, and this subpart;
- U.S.C. 7504, 7506 (c) and (d)) and 40 CFR part 93; (2) In nonattainment and maintenance areas, sections 174 and 176 (c) and (d) of the Clean Air Act, as amended (42
- (3) Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d-1), 49 CFR part 21;
- employment or business opportunity; (4) 49 U.S.C. 5332, prohibiting discrimination on the basis of race, color, creed, national origin, sex or age in
- (5) Section 1101 (b) of the Fixing America's Surface Transportation (FAST) Act-Pub. L. 112-141 and 49 CFR Part 26 regarding the involvement of disadvantaged business enterprises in USDOT funded projects;
- Federal-aid highway construction contracts; (6) 23 CFR part 230, regarding the implementation of an equal employment opportunity program on Federal and
- (7) The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) and 49 CFR parts 27,
- programs or activities receiving Federal financial assistance;
 (9) Section 324 of title 23, U.S.C., regarding the prohibition of discrimination based on gender; and (8) The Older Americans Act, as amended (42 U.S.C. 6101), prohibiting discrimination on the basis of age in
- against individuals with disabilities. (10) Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. 794) and 49 CFR part 35 regarding discrimination

Date	3/10/16	Title	Executive Director	Printed Name	Tigist Zegeye	Signature	Council	Wilmington Area Planning
Date	3122116	Title	Secretary	Printed Name	Pete K. Rahn	Signature	Transportation	Maryland Department of
Date	4/4/1100	Title	Secretary	Printed Name	Jennifer L. Cohan	Signature	Transportation	Delaware Department of

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Delaware Office of State Planning

Coordination, Director

Tari Moore Cecil County Executive

Heather Murphy Maryland Dept. of Transportation Director, Office of Planning and Capital Programming

Michael Spencer
Mayor of Newport

Dennis P. Williams
Mayor of Wilmington

WILMAPCO Executive Director Tigist Zegeye

RESOLUTION

DRAFT FY 2017-2020 TRANSPORTATION IMPROVEMENT PROGRAM BY THE WILMINGTON AREA PLANNING COUNCIL (WILMAPCO) APPROVING THE RELEASE OF THE FOR A PUBLIC REVIEW PERIOD

Delaware by the Governors of Maryland and Delaware, respectively; and Metropolitan Planning Organization (MPO) for Cecil County, Maryland and New Castle County, WHEREAS, the Wilmington Area Planning Council (WILMAPCO) has been designated the

develop and, at least every four years, updates the Transportation Improvement Program (TIP); and quality non-attainment areas, the MPO, in cooperation with participants in the planning process, WHEREAS, the United States Department of Transportation's (USDOT) Regulations of Fixing America's Surface Transportation (FAST), Metropolitan Planning Requirements, require that, in air

conforming 2040 Regional Transportation Plan (RTP) that is the basis for the Cecil County and New Delaware; and Castle County portions of the respective Statewide Capital Transportation Programs for Maryland and WHEREAS, the projects included in the FY 2017-2020 TIP are drawn from the an air quality

to be air quality conforming; and WHEREAS, the FY 2017-2020 TIP has undergone appropriate technical review and has been found

upcoming public workshop; and WHEREAS, the public will have the opportunity to comment on the Draft FY 2017-2020 TIP at the

CFR 450.324 (e); and WHEREAS, the MPO has determined that the projects are financially constrained, as directed by 23

the priority list of projects; WHEREAS, the FY 2017 projects contained in the amended FY 2017-2020 TIP will be utilized as

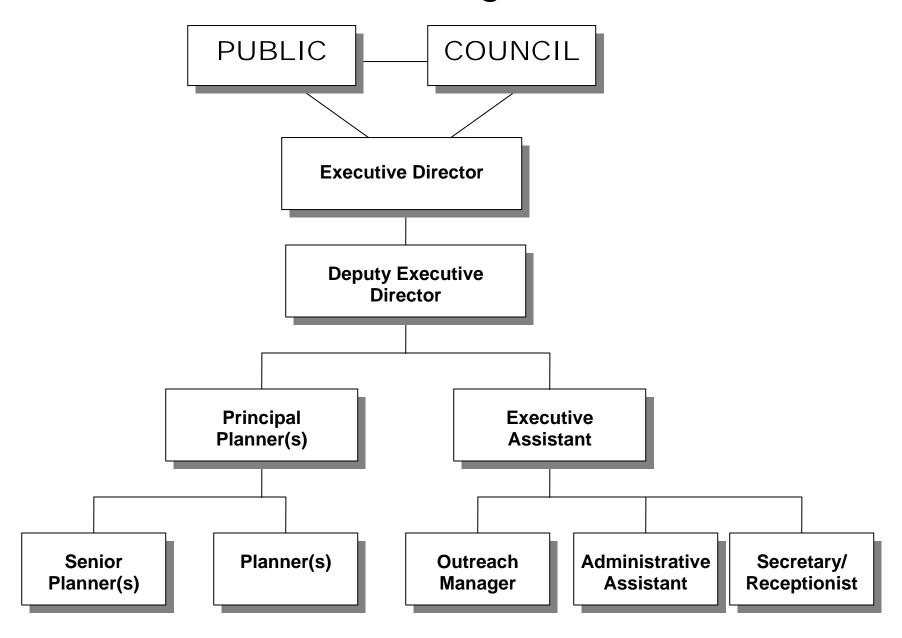
approve the release of the draft FY 2017-2020 TIP Transportation Improvement Program for a public review period. NOW, THEREFORE, BE IT RESOLVED that the Wilmington Area Planning Council does hereby

January 14, 2016

John Sisson, Chairperson Wilmington Area Planning Council

VILMAPCO
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WILMAPCO Organization



APPENDIX C

Air Quality Conformity Analysis



Air Quality Conformity Determination

For the New Castle County, Delaware Portion of the PA-NJ-MD-DE 8-hour Ozone Nonattainment Area & PA-NJ-DE Fine Particulate Matter (PM_{2.5}) Maintenance Area

FY2017-2020 Transportation Improvement Program And 2040 Regional Transportation Plan

September 2016







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Appendix B: Conformity Results (detailed)
Appendix C: Interagency Consultation
Appendix D: Public Particination Materials

DE fine particulate matter (PM2.5) nonattainment areas. the New Castle County, Delaware portion of the PA-NJ-MD-DE 8-hour ozone and PA-NJ-Improvement Program (TIP) and Amended 2040 Regional Transportation Plan (RTP) for This report demonstrates transportation conformity of the Wilmington Area Planning Council's (WILMAPCO) Amended Fiscal Year (FY) 2017-2020 Transportation Transportation

regional significance must be reviewed and approved through WILMAPCO. plan for, coordinate, and program the many transportation investments in the region. Under Delaware and Cecil County, Maryland. It is designated by the governors of both states to federal law and regulation, all plans and programs that involve federal funds or are of WILMAPCO is the Metropolitan Planning Organization (MPO) for New Castle County,

governments and transportation providers are partners in the planning and programming requirements, a collaborative process has been developed wherein state, county and local (DelDOT) and affected transit operators. In accordance with federal planning Department of Transportation (MDOT), the Delaware Department of Transportation and a regional long-range transportation plan (RTP) in cooperation with the Maryland WILMAPCO is responsible for developing a Transportation Improvement Program (TIP)

demonstrated. are equal to or less than the emission budgets in the SIPs, then conformity has been for each state. If emissions generated from the projects programmed in the TIP and RTP to the transportation emission budgets set forth in the Statewide Implementation Plan (SIP) Maryland, WILMAPCO is required by law to demonstrate that the RTP and TIP conform As the Federally-designated MPO for New Castle County, Delaware and Cecil County,

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8-hour Ozone Background

contribute to NOx and VOC emissions. emissions, level ozone is a key contributor to smog. earth from the sun's harmful rays, ground forms a protective layer, shielding the sunlight. While ozone in the stratosphere compounds (VOC) in the presence of oxides (NOx) and volatile organic created by a reaction between nitrogen Ozone is an odorless, colorless, gas and is summertime pollutant. heat and sunlight, it is Since ozone is formed in the presence of vehicle and gasoline natural exhaust, vapors, considered a sources industrial chemical



illnesses such as pneumonia and bronchitis. aggravated asthma, reduced lung capacity, and increased susceptibility to respiratory at very low levels, ground-level ozone triggers a variety of health problems including People with respiratory problems, children and the elderly are most vulnerable, but even when taking a deep breath and breathing difficulties during exercise or outdoor activities. inflammation similar to sunburn. Other symptoms include wheezing, coughing, and pain Ozone exposure is detrimental to public health. Ozone can irritate lung airways and cause healthy people that are active outdoors can be affected when ozone levels are high. Even

leaves of trees and other plants, ruining the appearance of cities, national parks, and both agricultural productivity and ecosystem stability. Furthermore, ozone damages the other pollutants, and harsh weather. As a result, ground-level ozone negatively impacts plants to produce and store food, which makes them more susceptible to disease, insects, In addition to adverse health effects, ground-level ozone also interferes with the ability of recreation areas.

8-Hour Ozone National Ambient Air Quality Standards

0.080 ppm NAAQS set in 1997. The effective date of the 2008 ozone standard designations concentration of 0.075 ppm and retains the same general form and averaging time as the primary and secondary NAAQS for ozone. The 2008 standard is set at an 8-hour average Federal Register (77 FR 30088) establishing initial air quality designations for the 2008 was July 20, 2012. On May 21, 2012, the Environmental Protection Agency (EPA) issued a final rule via the

and maintaining its attainment goals. In particular, the projects will not: demonstrate that all future transportation projects will not hinder the area from reaching been designated as nonattainment areas and, as a result, are subject to transportation Areas across the United States that have failed to meet the standards outlined above have Transportation conformity requires nonattainment and maintenance areas to

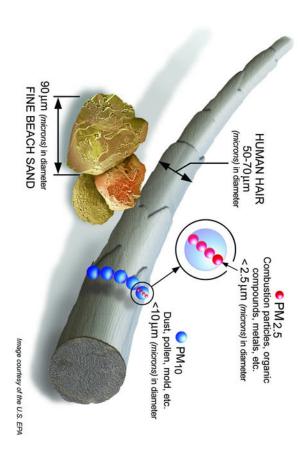
- Cause or contribute to new air quality violations
- Worsen existing violations
- Delay timely attainment of the relevant NAAQS

Delaware will no longer be included in the PA-NJ-MD-DE nonattainment area under the Pennsylvania, New Jersey, Maryland and Delaware. attainment date of December 31, 2015. It is made up of 16 counties spanning the states of The PA-NJ-MD-DE area is classified as a marginal nonattainment area, resulting in an 2008 standard The counties of Sussex and Kent in

are expected next year. In October 2015, EPA lowered the standard to 0.70 ppm. Nonattainment area designations

PM2.5 Background

air from power plant, industrial and mobile source emissions of gases such as sulfur dioxide smoke from a fire, or as a component of automobile exhaust) or be formed indirectly in the one-thirtieth the diameter of a human hair). Fine particles can be emitted directly (such as droplets suspended in the air, where the size of the particles is less than 2.5 µm (or about and nitrogen oxides. Fine particulate matter (PM2.5 hereafter) is a mixture of microscopic solids and liquid



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breathe, people with heart or lung disease, asthmatics, older adults, and children are as heart attacks and cardiac arrhythmia. While fine particles are unhealthy for anyone to disease, decreased lung function, asthma attacks, and certain cardiovascular problems such emergency room visits, absences from school or work, and restricted activity days), lung respiratory and cardiovascular disease (as indicated by increased hospital admissions, premature death. Effects associated with fine particle exposure include aggravation of studies have shown significant associations between elevated fine particle levels and especially at risk. The health effects associated with exposure to fine particles are significant. Scientific

PM2.5 National Ambient Air Quality Standards

exposure to PM2.5 at levels that may cause health problems. In July 1997, the EPA issued NAAQS for PM2.5, designed to protect the public from That standard included two

1 An annual standard set at 15 $\mu g/m^3$, based on a three-year average of the annual mean PM2.5 concentrations, and

2) A 24-hour standard of 65 $\mu \, g/m^3$, based on a three-year average of the 98^{th} percentile of 24-hour concentrations.

Areas need to meet both standards to be considered in attainment of PM2.5 NAAQS

Montgomery, and Philadelphia counties in Pennsylvania, and Burlington, Camden and which the region consisting of New Castle County in Delaware, Bucks, Chester, Delaware, On April 5, 2005, EPA designations under the PM2.5 NAAQS became effective, under This region is known as the Philadelphia-Wilmington, PA-NJ-DE PM2.5 Nonattainment Gloucester counties in New Jersey were collectively designated as a nonattainment area.

was found adequate for conformity purposes by EPA in December 2013. October 2011 PM2.5 SIP's PM2.5 emission budget, calculated using the MOVES model, PA-NJ-DE PM2.5 Nonattainment Area in nonattainment for the 24-hour standard. The Three years later, in December 2009, the EPA designated the Philadelphia-Wilmington, In December 2006, the EPA revised the 24-hour standard from 65 µg/m³ to 35 µg/m³

was September 4, 2014. requires conformity analyses using motor vehicle emission budgets associated with the simultaneously approved the New Castle County PM2.5 Maintenance Plan, which the Delaware portion of the Philadelphia-Wilmington, PA-NJ-DE PM2.5 Nonattainment Area for both the 1997 annual and the 2006 24-hour PM2.5 standards. The EPA On August 5, 2014, the EPA approved Delaware's request to redesignate to attainment 1997 annual in the 2006 24-hour PM2.5 standards. The effective date of this final rule

Status of the Amended 2040 RTP and Amended FY 2017-2020 TIP

in the four-year TIP that corresponds to that project's development timetable. projects that address challenges faced by the region are identified in this plan and placed enhancement of existing highway, transit, and bicycle/pedestrian facilities. Transportation construction of new facilities, improved connectivity to multiple travel modes, and the recommendations for enhanced transportation efficiency and functionality, including the transportation plan with at least a 20-year planning horizon. The RTP presents As the regional transportation-planning agency for Cecil County, Maryland and New Delaware, WILMAPCO is charged with authoring a long-range

Amended FY 2017 TIP is set for Council adoption in September 2016. conformity analysis were adopted by the WILMAPCO Council in January 2015. were created by the WILMAPCO staff and member agencies. The RTP and present The 2015 Update to the 2040 RTP and the Amended Fiscal Year (FY) 2017 – 2020 TIP

¹ Meeting the PM2.5 standards nationwide is estimated to prevent at least 15,000 premature deaths; 75,000 cases of chronic bronchitis; 10,000 hospital admissions for respiratory and cardiovascular disease; hundreds of thousands of occurrences of aggravated asthma; and 3.1 million days when people miss work because they are suffering from symptoms related to particle pollution exposure.

representatives, the MPO and representatives from both state and federal agencies including: Interagency consultation requirements include process includes cooperative interaction among the federal, state and local agencies. As required by the federal transportation conformity rule (40 CFR 93.105) the conformity coordination with the local county

- WILMAPCO
- Maryland Department of the Environment (MDE)
- Maryland Department of Transportation (MDOT)
- Delaware Transit Corporation (DTC)
- Delaware Department of Transportation (DelDOT)
- Delaware Department of Natural Resources and Environmental Control (DNREC)
- Cecil County
- New Castle County
- Federal Highway Administration (FHWA)
- Environmental Protection Agency (EPA)
- Federal Transit Administration (FTA)

Quality Subcommittee (AQS) groups met and collaborated in order to achieve the following goals related to the transportation conformity process: As part of the interagency consultation, the Technical Advisory Committee (TAC) and Air

C - 7

- Determine planning assumptions
- Develop a definitive list of future year projects to be analyzed
- Develop a format for presenting determination
- Develop and standardize the public participation process

Meeting minutes and notes are available at the following webpages:

- http://www.wilmapco.org/aqs/
- http://www.wilmapco.org/tac/

Determine Planning Assumptions

Ozone

compared to the Delaware Department of Natural Resources and the Environmental projects (those which do not qualify as exempt under 40 CFR 93.126 and 127) will be Control's (DNREC) Motor Vehicle Emissions Budget (MVEB). The emissions resulting from the implementation of regionally significant transportation

MOBILE6b model for 2009. The following budgets were used: The ozone emissions budgets of record were developed by DNREC using the

• VOC: 9.89 tons/summer day

• NOx: 19.23 tons/summer day

93.118, require that emissions analyses for the following years: The EPA regulations, as outlined in the Final Transportation Conformity Rule, Section

- Attainment year
- A near-term year, one-to-five years in the future
- The last year of the RTP's forecast period
- An intermediate year or years such that analyses years are no more than ten years

The following three analysis years were chosen for the ozone analysis

- 2020 (near-term year)
- 2030 (interim year to keep analysis years less than ten years apart)
- 2040 (WILMAPCO Plan horizon year)

ozone for transportation conformity. precursor emissions, VOC and NOx, must be included in a regional analysis of 8-hour reacting with each other in the presence of sunlight. The EPA has ruled that both As discussed above, ozone formation is a direct result of VOC and NOx emissions

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PM2.5

compounds (VOCs), sulfur oxides (SOx), and ammonia (NH₃). or more of several exhaust components, including nitrogen oxides (NOx), volatile organic transit construction. Transportation-related indirect PM2.5 emissions can result from one Transportation-related direct PM2.5 emissions can result from particles in exhaust fumes, vehicles emit both direct PM2.5 and other gases that react in the air to form PM2.5 PM2.5 can result from both direct and indirect sources. Gasoline and diesel on-road from brake and tire wear, from road dust kicked up by vehicles, and from highway and

has not deemed construction-related dust as a contributor to the regional PM2.5 problem. significant contributors to the regional PM2.5 problem. The current submitted PM2.5 SIP from construction of transportation projects if the SIP identifies these emissions as of the three state air agencies have found that road dust is a significant PM2.5 contributor. agency. For this nonattainment area, neither of the EPA Regional Administrators nor any significant contributor to PM2.5 by either the EPA Regional Administrator or a state air analyses for direct PM2.5 should include road dust only if road dust is found to be and brake/tire wear must be included. However, EPA has ruled that regional emissions For the regional analysis of direct PM2.5 emissions, the EPA has ruled that both exhaust EPA has also ruled that regional direct PM2.5 analyses need only include fugitive dust

nonattainment area are tailpipe exhaust and brake/tire wear. Thus, the only components of direct PM2.5 emissions to be considered in the

than NOx as a significant contributor of PM2.5 emissions in New Castle County. EPA has identified four potential transportation-related PM2.5 precursors: NOx, VOCs, For the regional analysis of indirect PM2.5 emissions (also called PM2.5 precursors), the SOx, and NH₃. The current PM2.5 SIP does not identify any precursors identified other

The following PM2.5 pollutants and precursors were tested:

- Direct PM2.5 source: tailpipe exhaust, brake and tire wear
- PM2.5 Precursor: NOx

model (described later) for 2012. The following budgets were used: The PM2.5 emissions budget of record were developed by DNREC using the MOVES

- Direct PM2.5 2012 budget: 199.0 tons/year (0.545 tons/day)
- Indirect (NOx) PM2.5 2012 budget: 6,273 tons/year (17.19 tons/day)

intermediate year or years such that analysis years are no more than 10 years apart. term year (one-to-five years in the future), the last year of the long range plan, and an the attainment year. Section 93.119(g) of the Final Rule states that these analysis years must include a near-EPA regulations require that emissions analysis be conducted for specific analysis years. Additionally, the 2015 analysis year meets a conformity requirement to test conformity for

The following analysis years were chosen for the PM2.5 analysis:

- 2020 (near-term year)
- 2030 (interim year to keep analysis years less than ten years apart)
- 2040 (WILMAPCO Plan horizon year)

Travel Demand Modeling Methodology

consistent with the modeling procedures WILMAPCO and DelDOT have used assisting in and regional transportation agencies in preparing air quality analyses. analyses required by the CAA amendments, and are similar to those used by other state consistent with methods WILMAPCO and DelDOT have used in conducting air quality The air quality analysis conducted for the Amended FY 2017-2020 TIP and Amended 2040 Resources and Environmental Control (DNREC). the preparation of various SIP documents with the Delaware Department of Natural series of computer-based modeling techniques. These techniques are They are also

Travel Demand Modeling

estimated volumes and average speeds for each segment or "link" of the roadway system. software package. planning industry. The model components were processed through the CUBE Voyager mode split, assignment, and feedback that is commonly used throughout the transportation employment sites. The model follows a five-step process of trip generation, distribution, vehicular travel patterns, automobile ownership, and the location of population and A travel demand model for Delaware, including New Castle County, is maintained by The model applies a variety of data regarding roadway network conditions. The primary products of the model used in the air quality analysis were

in place and open to service during these years. The types of projects tested included: 2012. Model networks were developed for the years 2020, 2030, and 2040 for New Castle the 2040 RTP used a 2012 base year network validated against DelDOT traffic counts for The modeling process developed for the Amended FY 2017-2020 TIP and this update of more), and new construction. roadway upgrades (such as new or improved shoulders), highway widening (one lane or County. Networks included major capacity improvement projects that are expected to be

(TAC) and were adopted by the WILMAPCO Council in July 2014. Demographic projections, including employment, households, and population, were developed for each of the analysis years through the WILMAPCO Data & Demographic Subcommittee. These forecasts were recommended by the Technical Advisory Committee

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quality conformity regulations, and is a set of planning tools commonly used among MPOs mode split, assignment, and feedback. This type of process is required by Federal air travel demand" modeling process. The approach includes trip generation, trip distribution, and State DOTs. Travel estimates were developed for this conformity analysis using a so-called "five-step

demographic data generally consists of: estimate and manage demographic data for the TAZ in New Castle County. Delmarva Peninsula, of Planning) uses a single, integrated model of the Delaware/Maryland portion of the Since the modeling process maintained for WILMAPCO by the Delaware DOT (Division economic data for Traffic Analysis Zones (TAZ) for the New Castle County MPO region. The travel demand modeling process uses two sets of primary input data. The first is socio-WILMAPCO staff have developed a subcommittee process to

- Population
- 2) Dwelling Units
- 3) Total Employment by Place of Work
- 4) Employment by Job Sector, by Place of Work
- 5 Total Employed Persons (Employment by Place of Residence)
- 6) Average Income
- Income Quartiles
- Average Vehicle Ownership

Vehicle Ownership Quartiles

TAZ-based employment locations. series of local, county, and state-agency data sources to develop and achieve consensus on of the US Census, but the WILMAPCO Demographics and Data Subcommittee used a develop a set of TAZ estimates for 2012. Employment by place of work is not a product that means data from the 2010 Census was used with other locally obtained information to updated as needed to the base year of the long range plan. For this conformity analysis, forecasts for each TAZ, for the horizon years of 2020, 2030, and 2040. For each TAZ, data for each of these items was obtained from the most recent census and The MPO subcommittee also developed demographic

New Castle County roadways and streets. The network file stores the following data for each street segment: The second primary travel model input is the so-called "travel network" representation of

- 1) Functional Class (or road type)
- 2) Number of Lanes
- 3) Lane Capacity
- 4) Posted Speed
- 5) Operating Speed
- 5) Average Peak Period Capacity (Lanes X Lane Capacity)

at an aggregate, zonal level with extensive market segmentation. TAZ-based models are referred to as "aggregate demand models" because they are applied data from the 1997 - 2011 Delaware Travel Monitoring Survey (DTMS). The current travel models in use in the United States. DelDOT staff (with assistance from Whitman, The current set of DelDOT/MPO travel demand models is typical of advanced TAZ-based Requardt and Associates, an engineering consulting firm) estimated these models using

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part of the DelDOT/MPO travel model process DTMS data for 2012 - 2015 has not been analyzed at this time and is therefore not yet a

purposes including: generation rates to estimate productions and attractions for each TAZ, for several trip household data using workers per household, persons per household, and vehicles per household data from US Census PUMS, then applies cross classification-based The trip generation models include a precursor step, which disaggregates TAZ-based

- 1) Home-Based Work (HBW)
- 2) Home-Based Local Shopping (HBLS)
- 3) Home-Based Regional Shopping (HBRS)
- 4) Home-Based Other (HBO)
- 5) Non-Home Based (NHB)
- 6) Journey-to-Work (JTW)
- 7) Journey-at-Work (JAW)
- s) I ruck

The trip distribution models are standard gravity model formulations using trip length frequencies for each trip purpose based on analysis of the entire 1997 – 2011 DTMS

county-based conformity analyses. trips are not currently modeled in the TAZ-based regional modeling process used for certain sets of model runs that are based on tax-parcel TAZ geography. Non-motorized Non-motorized trips (separate modes for bicycle and walk) are included as an option in The mode choice model used by DelDOT and the MPOs is a nested logic choice format

freeway, arterial, collector, and local speeds separately. PM, and Offpeak. volumes and speeds by time period of day. Four peak period times are used: AM, Midday, which emphasize average weekday peak period congestion levels to allocate roadway The trip assignment procedures use network capacity-constrained equilibrium methods, The process uses customized speed-flow delay curves representing

the CUBE Voyager software package (Version 6.1.0 of the software dated May 2, 2013) feedback from trip assignment back through trip distribution. The travel model was run in under license from the vendor, Citilabs (http://www.citilabs.com/). The model process methods, as required by conformity regulations, incorporate full

Summary

and household size were developed for the same planning horizon years. the improvement was completed. Socioeconomic projects such as population, employment in Table 1. The types of projects tested were corridor improvements, highway widening the DelDOT/MPO "Peninsula Travel Model". Modeled transportation projects are listed and 2040 for New Castle County and for the Delaware/Maryland peninsula counties within against DelDOT traffic counts for 2012. Model networks were developed for 2020, 2030, and new roadway construction. The modeling process for this conformity analysis used a 2012 base year network validated Each project was added to the network in the year when

Table 1: Cecil and New Castle Counties' Regionally Significant Projects

Row	Project	County	List	Model Year
1	MD 213: Frenchtown Road to US 40 (two to four lane divided highway)	Cecil	Aspiration	2040
2	I-95: Susquehanna River to DE Line (add a lane in each direction, plus bridge expansic Cecil	: Cecil	Constrained	2040
ယ	MD 272: US 40 to Lums Rd. (two to four lane divided highway)	Cecil	Constrained	2040
4	I-95/SR 222 Interchange (two to four lanes on the SR 222 bridge)	Cecil	Constrained	2040
5	MD 222: US 40 to MD 276 (multilane reconstruction)	Cecil	Constrained	2040
6	US 301: MD State Line to SR 1 (new four lane expressway)	NCC	Constrained	2020
7	Christina River Bridge (new bridge)	NCC	Constrained	2020
8	SR 72, McCoy Road to SR 71 (two to four lanes)	NCC	Constrained	2030
9	Road A / SR 7 Improvements (new lane in each direction)	NCC	Constrained	2030
10	SR 299, SR 1 to Catherine Street (widening)	NCC	Constrained	2030
11	Elkton Road, Maryland State Line to Casho Mill Road (widening)	NCC	Constrained	2030
12	SR 141/I-95 Interchange (expansion)	NCC	Constrained	2030
13	US 301: Spur (new two lane road)	NCC	Constrained	2030
14	US 40/SR 896 (grade separated intersection)	NCC	Constrained	2030
15	SR 1: Tybouts Corner to Roth Bridge (widening)	NCC	Constrained	2030
16	SR 896/I-95 Interchange (expansion)	NCC	Constrained	2030
17	SR 896/Bethel Church Road Interchange (expansion)	NCC	Constrained	2030
18	US 40 Widening: Salem Church Road to Walther Road	NCC	Constrained	2030
19	SR 1: Tybouts Corner to SR 273 (four to six lanes)	NCC	Constrained	2030
20	SR 4 (Christina Parkway): SR 2 to SR 896 (widening entire lengh 2 to 4 lanes)	NCC	Constrained	2030
21	Tyler McConnell Bridge, SR141: Montchanin Road to Alapocas Road (bridge expansic NCC	NCC	Constrained	2040
22	I-295 Improvements Eastbound at SR 141 (add third lane)	NCC	Aspiration	2040

Emission Factor Estimate

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software is required for use in conformity analyses after March 2013. software replaces the previous EPA tool which was called MOBILE6.2. countywide air quality analyses including transportation conformity analyses. were released in 2009. This is the required modeling software used in regional or Emission Simulator (MOVES) modeling software. Initial draft versions of the software EPA's Office of Transportation and Air Quality (OTAQ) developed the MOtor Vehicle The MOVES

pollutants and allows multiple scale analysis. The MOVES software produces estimates MOVES estimates emissions for mobile sources covering a broad range of mobile source of emissions from cars, trucks and motorcycles.

"MOVES inventory method" process for estimating mobile source emissions in New model data for this conformity analysis. The travel model software, CUBE Voyager, was Figure 3 presents an overview of the process used to generate travel model and emissions arranged by DelDOT staff with consultant assistance to include the DNREC spreadsheet

spreadsheet method ensuring the CUBE-model generated emissions data accurately replicated the DNREC series of quality-control checks were performed by DelDOT and the consulting firm staff process is based directly on the DNREC application of the MOVES inventory method. A incorporated, step-by-step, into the CUBE Voyager software so that conformity analysis MOVES inventory method for estimating mobile source emissions. That process was Castle County. Essentially, DNREC staff developed an Excel-based application of the

years and modeling scenarios. Management System (HPMS). HPMS data are used to standardize the Delaware specific used to account for seasonal traffic variations and alignment of Delaware-based Vehicle Travel model link volumes are summed to countywide totals. Adjustment factors are then VMT data as required by the EPA so that direct comparisons can be made among different Traveled (VMT) estimates with the federally-required Highway Performance

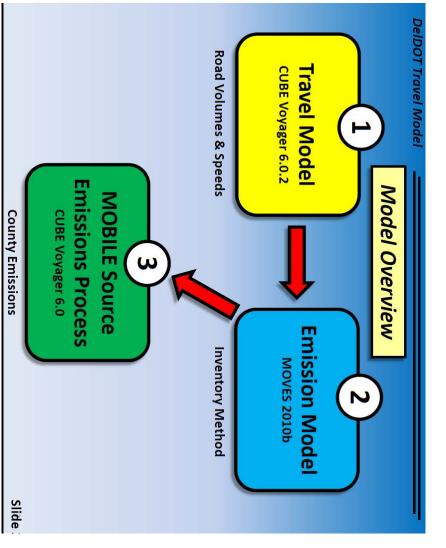


Figure 1: Overview of Travel Model – Emission Model Process for Conformity

Mobile Source Emissions Estimates

process is countywide emission estimates presented in this document. noted above. This process links the estimated roadway speeds and volumes generated by for New Castle County and adjusts it for input into the MOVES mobile emissions process The estimates of emissions for New Castle County are generated jointly by DelDOT and DNREC. The model post-processor takes data produced by CUBE Voyager model output the travel demand model with emission trends derived from MOVES. The product of this

specific VMT data as required by the EPA so that direct comparisons can be made among seasonal traffic variations and to align the travel demand estimates with DelDOT's and the the data contained in the current SIPs. The adjustments represent factors to account for The VMT and emissions data for New Castle County were adjusted to be compatible with different years and modeling scenarios. HPMS traffic level reporting system. These data were used to standardize the Delaware

Analysis Results

and budget tests pass, which demonstrates conformity. 4 present the results of the baseline and budget tests for PM2.5 emissions. All baselines The results of the motor vehicle emissions budget tests are presented below in Tables 2 and 3 and 4. Table 2 presents the results of the budget tests for ozone emissions. Tables 3 and

Table 2: Ozone (VOC & NOx) Emissions Test Results – MVEB Test (tons/summer day)

VOC (tpsd)	2020	2030	2040
Emissions	4.81	4.81 4.00 4.11	4.11
2009 Budget	9.89	9.89 9.89 9.89	9.89
Result	Pass	Pass	Pass

NOx (tpsd)	2020	2020 2030 2040	2040
Emissions	9.57	7.10	7.25
2009 Budget	19.23	19.23 19.23 19.23	19.23
Result	Pass	Pass Pass	Pass

Table 3: Annual PM2.5 Emissions Test Results – MVEB Test (tons/day)

Direct PM2.5 (tpy)	2020	2020 2030 2040	2040
Emissions	131.2	131.2 113.8 118.8	118.8
2012 Budget	199.0	199.0 199.0 199.0	199.0
Result	Pass	Pass Pass Pass	Pass

Indirect (NOx) PM2.5 (tpy) 2020	2020	2030 2040	2040
Emissions	3,514	3,514 2,624 2,674	2,674
2012 Budget	6,273	6,273 6,273 6,273	6,273
Result	Pass	Pass	Pass

Table 4: Daily PM2.5 Emissions Test Results – MVEB Test (tons/day)

Direct PM2.5 (tpd)	2020	2030	2040
Emissions	0.304	0.304 0.254	0.265
2012 Budget	0.545	0.545 0.545	0.545
Result	Pass	Pass	Pass

Indirect (NOx) PM2.5 (tpd) 2020 2030 2040	2020	2030	2040
Emissions	9.63	9.63 7.19 7.33	7.33
2012 Budget	17.19	17.19 17.19 17.19	17.19
Result	Pass	Pass Pass Pass	Pass

Description of Input Data

These data items are discussed in the following sections. are used for all inputs that have a significant impact on calculated emission rates. recommended for use when completing a regional conformity analysis. Local data sources current or best available information for any specific area. As a result, local data is program data for every county; but EPA cannot certify that the default data is the most database of meteorology, vehicle fleet, program parameters, and environmental variables. MOVES includes a default national characteristics, and environmental parameters that affect emissions. A large number of inputs to MOVES are needed to fully account for the numerous vehicle vehicle descriptions, fuel parameters, inspection/maintenance (I/M) vehicle activity, fuel, and emissions control These include traffic flow

Roadway Data

The emission calculation process uses key traffic data from the regional travel demand model to estimate regional Vehicle Miles Traveled (VMT) and speeds. This data includes

calculating the diversions due to transportation projects. estimating the impact of population and employment growth on roadway volumes and regionally significant transportation projects. The model provides a key resource for demand model runs are produced for future analysis years and include the impact of including area type, facility type, lanes, distances, capacity, and free-flow speeds. Travel individual roadway traffic volumes and physical roadway descriptive characteristics

with HPMS reported totals for the base year. Performance Monitoring System (HPMS) adjustments used to align annual VMT estimates winter months (derived from permanent count station monitoring), and, Highway seasonal adjustment factors reflecting traffic variation within the spring, summer, fall, and the number of vehicles using the road per day. Additional adjustments to VMT included: VMT was determined for each roadway class/setting by multiplying the length of road by

MOVES software, thereby accounting for certain physical highway conditions and congestion caused by traffic volume. A speed bin is essentially an increment of speed in horizon years. due to planned transportation improvements and other projects assumed to be "in-service" range; for example: "VMT for the 30-35 mph range". For future horizon years, congestion Thus, the travel demand model provided VMT according to the speed bins required by the roadway capacity, traffic volume, and other physical roadway features (e.g. traffic signals). Speed data was calculated for each highway segment and hour of the day, based on (and thereby speed) can be affected by traffic growth and changes in physical conditions

Vehicle Class Data

input into MOVES by six HPMS vehicle groups. Emission rates within MOVES vary significantly by vehicle type. The MOVES model produces emissions and rates by thirteen MOVES vehicle source types. However, VMT is

source type and HPMS class groups. by functional class based on DelDOT classification counts and internal MOBILE6.2 and MOVES technical guidance the MOBILE6.2 vehicle classes were mapped to the MOVES MOBILE6.2 weight-based vehicle types and then, using procedures provided in EPA WILMAPCO. The vehicle groups from the count data were expanded to the 28 MOVES defaults. For this emissions analysis, vehicle type pattern data was developed for New Castle County This follows procedures used for previous conformity analyses for

given road segment's VMT is placed in) reflect this truck adjustment. of cars and also tend to have slower average traveling speeds than cars for most functional effect generally is due to larger trucks taking up more roadway space than a given number increasing numbers of vehicles (congestion) cause average traveling speeds to drop. This process. A heavy truck weight factor is used by functional class to adjust the rates at which The impact of trucks on traffic flow is accounted for within the travel demand modeling The final loaded speeds from the travel model (used to define which speed bin a

C - 18

Vehicle Age

information obtained from DMV registration data. to 31 years old. The vehicle age distributions were prepared by DNREC DAQ based on The age distributions reflect the percentage of vehicles for each model year in the fleet up Vehicle age distributions were input to MOVES for the county by the thirteen source types.

system using a spreadsheet method. July 1, 2012 summary of vehicle age data into MOBILE6.2-16 composite vehicle type The age distributions for this conformity analysis were based on 2012 DMV registration In the late summer of 2012, DNREC DAQ staff transformed DMV raw data for a

based data from DNREC DAQ into the MOVES source type categories. and air quality modeling consulting firm utilizing the available EPA MS-Excel-based vehicle registration converter tool. This tool assisted in converting the MOBILE6.2-16 The MOVES model input age distributions were produced by DelDOT's travel demand

Vehicle Population Data

quality modeling consulting firm using a spreadsheet source type categories, for each year emissions estimates are needed including future the number of vehicles (called "vehicle population") to be defined for each of the thirteen horizon years. This data was prepared and provided by DelDOT's travel demand and air forecasted start and evaporative emissions within MOVES. The MOVES model requires Vehicle fleet information such as the number and age of vehicles has an impact on the

and averaged to a countywide growth factor that was then applied to the 2012 age each horizon year), the TAZ based estimates (again, for each horizon year) were summed future year vehicles. To generate future year vehicle populations needed for MOVES (for vehicles per household (for each traffic analysis zone) to develop TAZ-based estimates of Demographics subcommittee use 2010 Census-based data for vehicles per person and countywide vehicles from 2012 to each horizon year. WILMAPCO staff and the Data and New Castle County by developing a growth factor based on the projected increase in total For the analysis years 2020, 2030, and 2040, the vehicle populations were estimated for distribution data described above

Environmental and Fuel Data

Information on environmental, fuel, vehicle technology, and other control strategy assumptions were determined based on a review of MOVES2010b default information by DNREC DAQ

sulfur content, aromatic content, benzene content, olefin content, and Methyl Ter-Butyl the formulations based on these data. Data inputs include fields such as: ethanol content, obtains data on all fuel shipments from the refineries in the Delaware area and develops assigned to New Castle County, Delaware by the EPA in the MOVES model. The EPA Fuel Data: DNREC DAQ used the fuel formulation and supply data that has been Ether (MTBE) volume.

presented as month-by-month, hourly data sets for New Castle County. temperature and humidity values that exist in the MOVES model. These values are temperatures of the surrounding air. DNREC DAQ used the default ozone analysis Meteorological Data: Evaporative emissions are influenced significantly by the

Other Vehicle Technology and Control Strategy Data

The MOVES2010b default I/M data was reviewed and updated by DNREC DAQ for Program (VEIP) was utilized for these analysis runs and is described below. New Castle County. The current I/M program known as the Vehicle Emission Inspection

combined with an assumed 96% compliance rate for vehicles showing up for testing The compliance factors reflect the fail and waiver rates observed in the program, and cap pressure test. Finally, all 1975 and newer light duty vehicles in New Castle receive a two-speed idle test. In addition, model year 1975-1995 vehicles receive a tank vehicles subject to the regulation receive an idle test; those of model year 1981-1995 regulation receive an On-board Diagnostics (OBD) II test. Model year 1968-1980 vehicles. In New Castle County, 1996 and newer light duty vehicles subject to the biennially and on change of ownership. There is a five-year grace period for new cars, as well as 1970 and newer light duty trucks up to 8,500 pounds. The test is done powered and diesel-powered vehicles: model year 1968 and newer light duty passenger County subject to this regulation receive a visual inspection of the catalytic converter. DE Vehicle Emission Inspection Program: This program tests the following gasoline-

(http://www.epa.gov/oms/models/moves/tools.htm). inventory utilized the August 2010 version of the files: rates are required to reflect the implementation of the National Low Emission standards covering model year vehicles through 2016. Modifications of default emission incorporated into the MOVES2010b software. These include the National Program released instructions and input files that can be used to model these impacts. This Federal Programs: Current federal vehicle emissions control and fuel programs are Vehicle Program (NLEV) program in Delaware. To reflect these impacts, EPA has

State Vehicle Technology Program:

standards will be phased-in over the 2015-2025 model years amendments create more stringent emission standards for new motor vehicles. These new entitled LEV III (third generation low emission vehicle standards) in March 2012. These required by this regulation. California adopted the Low-Emission Vehicle regulation requirements. The regulation also requires manufacturers of 2015 and subsequent model emission requirements and California Low Emission Vehicle (LEV II) phase-in of 2014 model year vehicles to comply with Non-Methane Organic Gas (NMOG) California LEV III phase-in requirements. Zero emission vehicles are currently not year vehicles to comply with NMOG plus NOx emission requirements, as well as Admin Code 1140, which was revised December 2013, Delaware required manufacturers DE Clean Car Program: Under the Delaware Low Emission Vehicle Program, 7 DE

beginning with vehicle model year 2014. standard phase-in schedules for new emission standards. Modifications to those schedules January 2010. EPA provided input files to reflect the CAL LEVII program with the The impacts of this program were modeled for all analysis years using EPA's guidance document, Instructions for Using LEV and NLEV Inputs for MOVES, EPA-420-B-10-003, were done per EPA's instructions, to reflect a later start for the State of Delaware

Amended 2040 Determination RTP and Amended FY 2017-2020 TIP Conformity

Financial Constraint

are sufficient to cover the costs; therefore, satisfying the financial constraint requirement. the new roads. As shown in the RTP, WILMAPCO has found that the projected revenues MPO area and has compared that with the estimated revenues and maintenance needs of developed an estimate of the cost to maintain and operate existing roads and bridges in the operating funds are reasonably expected to be available are included. WILMAPCO has being adequately operated and maintained. transportation plan to be financially constrained while the existing transportation system is The planning regulations, Sections 450.322(b) (11) and 450.324(e) require the Only projects for which construction and

Public Participation

using the following outlets: and ending on September 6, 2016. The public review and comment period was announced analysis was made available for public review and comment beginning on July 25, 2016 the Final Conformity Rule, and Final Statewide / Metropolitan Planning Rule. This conformity document has undergone the public participation requirements set forth in The draft

- Notices in the Delaware News Journal and Cecil Whig
- WILMAPCO website (<u>www.wilmapco.org</u>)
- WILMAPCO E-NEWS (monthly electronic newsletter)
- WILMAPCO Transporter (quarterly newsletter)
- Public Workshop on August 31, 2016, at the Newark Library in Newark, Delaware

Appendix G of the TIP. The documentation of the observed 30-day public comment period can be found in

Appendices

Appendix A

Conformity Question Checklist

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Table A-1: Conformity Questions Matrix

Are the conformity determinations based upon the latest planning assumptions? (a) Is the conformity determination, with respect to all other applicable criteria in §§93.111. - 93.119, based upon the most recent planning assumptions in force at the time of the conformity determination? (b) Are the assumptions derived from the estimates of current and future population, employment, travel, and congestion most recently developed by the MPO or other designated agency? Is the conformity determination based upon the latest assumptions about current and future background concentrations? (c) Are any changes in the transit operating policies (fare and and service levels) and assumed The conformity determination uses the most recent available information we hick eregistration. Population, housing and land use data inputs for the Travel Demand Model were updated in July 2014. Vehicle fleet data for 2012 was utilized in the conformity determination. Transportation in conjunction with WILMAPCO and other local, state and federal representatives as part of the consultation process. Standard procedures for projecting future demographics are outlined in recently the DE Dept of Transportation in conjunction with WILMAPCO and other local, state and federal representatives as part of the consultation process. Standard procedures for projecting future demographics are outlined in recently the DE Dept of Transportation in conjunction with the Plan. Reasonable assumptions have been and service levels) and assumed
--

For Areas w Transportatio 93.118 consistent w	93.113(b) Are TCMs b	93.108 Is the Trans	Is the highw adequately de regionally si 93.106(a) (2)(ii) modific at transportation operational	Does the document t employment transpo	93.106(a) (1) Are the Ho		Did the MPC determinat consultatio conformit	Is the confi 93.111 based upon		SECTION OF 40 CFR PART 93
For Areas with SIP Budgets:Is the Transportation Plan, TIP or Project consistent with the motor vehicle emissions budget(s) in the	Are TCMs being implemented in a timely manner?	Is the Transportation Plan Fiscally Constrained? Yes	Is the highway and transit system adequately described in terms of the regionally significant additions or modifications to the existing transportation network which the transportation plan envisions to be operational in the horizon years?	Does the plan quantify and document the demographic and employment factors influencing transportation demand?	Are the Horizon Years correct?	TRANSPORTATION PLAN	Did the MPO make the conformity determination according to the consultation procedures of the conformity rule or the state's conformity SIP?	Is the conformity determination based upon the latest emissions Yes model?	(f) Key assumptions shall be specified and included in the draft documents and supporting materials used for the interagency and public consultation required by §93.105.	CRITERIA YES/NO
Emission totals calculated for each analysis years were tested against the 2009 SIP budgets for ozone and	There a	The transportation plan is in complete agreement with the State's FY 2017 to 2022 Capital Improvement Plan.	The r highw docum determ	Socioec populati employme holds are ii	Analysis horizon years included 2020, 2030 and 2040. These represent the appropriate horizon years for the 8-hour ozone and PM2.5 NAAQS conformity determination.	N	WII con accord proced	EP M	Key planning assumptions are included and explained in the conformity determination document and agreed upon by all participating parties through the interagency consultation process. The conformity document has been made available for public review for the required 30 day period.	NO COMMENTS

Appendix B

Conformity Results
Detailed VMT and Emissions
By County
By Functional Class
By Analysis Year

Table B-1: Detailed Emission Results

New Castle County Annual PM2.5 and Nox Emission (Tons)

Total	12	11	10	9	8	7	6	5	4	သ	2	1	IVIOTILI	4+401/4
1738.50	163.54	141.20	133.96	130.43	141.57	144.86	138.07	137.37	139.22	149.46	152.51	166.30	VOC	
3514.38	323.18	294.68	280.64	264.74	288.61	270.78	270.42	302.04	301.15	313.34	290.11	314.69	NOx	2020
131.24	14.48	11.71	9.74	8.26	8.98	8.57	8.47	9.99	10.49	12.59	13.15	14.80	PM25	
1376.60	120.43	110.35	110.17	108.97	118.07	120.41	115.00	114.24	114.03	116.47	108.77	119.68	voc	
2624.03	242.73	221.26	210.02	196.13	214.18	200.58	200.50	225.50	224.23	235.58	216.35	236.96	NOx	2030
113.78	12.94	10.32	8.39	6.90	7.48	7.11	7.04	8.49	9.04	11.12	11.69	13.27	PM25	
1394.39	119.38	110.88	112.08	111.64	121.06	123.45	117.91	116.77	116.05	116.94	110.38	117.84	voc	
2673.73	246.91	225.07	213.63	199.82	218.55	204.73	204.59	229.74	228.20	239.76	221.76	240.96	NOx	2040
118.77	13.50	10.78	8.75	7.19	7.80	7.41	7.34	8.86	9.44	11.61	12.26	13.84	PM25	

New Castle County Summer Weekday Ozone & PM2.5 Emission (Tons)

Month		2020			2030			2040	
MOULU	voc	NOx	PM25	voc	NOx	PM25	voc	NOx	PM25
6	4.80	9.56	0.30	3.99	7.09	0.25	4.10	7.24	0.26
7	4.87	9.27	0.30	4.04	6.87	0.25	4.15	7.02	0.26
8	4.77	9.87	0.31	3.97	7.33	0.26	4.07	7.48	0.27
Average	4.813	9.568	0.304	4.002	7.096	0.254	4.106	7.248	0.265

Table B-2: VMT by Vehicle Type

New Castle County Annual VMT by Vehicle Type

HPMSVTypeID	2020 HPMS Annual VMT	2030 HPMS Annual VMT	2040 HPMS Annual VMT
Motorcycles	42,709,270	46,330,590	49,265,158
Passenger Cars	2,644,656,130	2,868,896,538	3,050,611,777
Other 2 axle-4 tire vehicles	2,996,088,248	3,250,126,588	3,455,988,849
Buses	35,774,135	38,807,425	41,265,478
Single Unit Trucks	53,851,516	58,417,586	62,117,743
Combination Trucks	144,979,294	157,272,089	167,233,667
Total	5,918,058,594	6,419,850,816	6,826,482,672

Table B-3: Vehicle Population

New Castle County Vehicle Population

	2020 SourceType	2030 Source Type	2040 SourceType
sourceTypeName	Population	Population	Population
Motorcycle	13898	14514	14824
Passenger Car	246212	257118	262615
Passenger Truck	159865	166946	170516
Light Commercial Truck	52605	54935	56109
Intercity Bus	199	208	212
Transit Bus	596	623	636
School Bus	985	1029	1051
Refuse Truck	78	82	84
Single Unit Short-haul Truck	3183	3324	3396
Single Unit Long-haul Truck	224	234	239
Motor Home	390	407	416
Combination Short-haul Truck	1231	1286	1313
Combination Long-haul Truck	925	966	987

Table B-4: VMT by Functional Classification

New Castle County Average Daily VMT by Functional Classification

	2020 HPMS	2030 HPMS	2040 HPMS
Functional Class	Adjusted VMT	Adjusted VMT	Adjusted VMT
PA-rural	1,475,198	1,672,544	1,841,440
Minor Arterial-rural	317,436	367,270	398,143
Major collector-rural	185,556	223,117	256,267
Minor collector-rural	62,345	77,680	90,661
Local-rural	268,753	339,365	384,538
Interstate-urban	3,658,500	3,956,280	4,263,386
Freeway-urban	820,731	905,974	963,259
PA-urban	4,054,670	4,338,158	4,559,499
Minor Arterial-urban	1,555,260	1,653,826	1,714,088
Major collector-urban	1,335,056	1,464,876	1,566,373
Local-urban	2,436,054	2,541,487	2,613,940
Total	16,169,559	17,540,577	18,651,594

Appendix C

Interagency Consultation

For a collection of meeting notes, please visit: wilmapco.org/aqs

Appendix D

Public Participation Materials

Please visit:

wilmapco.org/rtp

wilmapco.org/tip

wilmapco.org/aq

Air Quality Conformity Analysis For the 8-Hour Ozone NAAQS

For the Cecil County Portion of the PA-NJ-MD-DE Nonattainment Area

FY2017–2020 Transportation Improvement Program And 2040 Regional Transportation Plan

Prepared for:

WILMAPCO







In Conjunction with
Maryland Department of Transportation
And
Maryland Department of the Environment



Prepared by:
Michael Baker International



Air Quality Conformity Analysis

For the 2040 Regional Transportation Plan and the Fiscal Year 2017-2020 Transportation Improvement Program for Cecil County, MD Portion of the PA-NJ-MD-DE 8-Hour Ozone Nonattainment Area

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Maryland portion of the PA-NJ-MD-DE 8-hour ozone nonattainment area. This report demonstrates transportation conformity of the Wilmington Area Planning Program (TIP) and 2040 Regional Transportation Plan (RTP) for the Cecil County Council's (WILMAPCO) Fiscal Year (FY) 2017-2020 Transportation Improvement

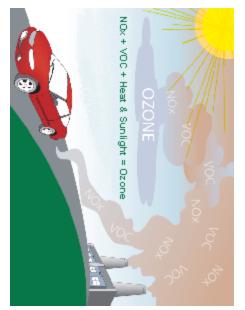
regional significance must be reviewed and approved through WILMAPCO Delaware and Cecil County, Maryland. It is designated by the governors of both states to federal law and regulation, all plans and programs that involve federal funds or are of plan for, coordinate, and program the many transportation investments in the region. Under WILMAPCO is the Metropolitan Planning Organization (MPO) for New Castle County,

transportation providers are partners in the planning and programming process. collaborative process has been developed wherein state, county, and local governments and of Transportation (MDOT), the Delaware Department of Transportation (DelDOT) and and a Regional Transportation Plan (RTP) in cooperation with the Maryland Department WILMAPCO is responsible for developing a Transportation Improvement Program (TIP) transit operators. In accordance with federal planning

equal to or less than the emission budgets in the SIPs, then conformity has been each state. If emissions generated from the projects programmed in the TIP and RTP are transportation emission budgets set forth in the Statewide Implementation Plan (SIP) for As the Federally-designated MPO for New Castle County, DE and Cecil County, MD, WILMAPCO is required by law to demonstrate that the RTP and TIP conform to the

8-hour Ozone Background

contribute to NOx and VOC emissions. emissions, earth from the sun's harmful rays, ground sunlight. While ozone in the stratosphere Compounds (VOC) in the presence of Oxides (NOx) and Volatile Organic created by a reaction between Nitrogen Since ozone is formed in the presence of level ozone is a key contributor to smog. forms a protective layer, shielding the Ozone is an odorless, colorless, gas and is vehicle and natural sources gasoline exhaust, vapors, industrial chemical



heat and sunlight, it is considered a summertime pollutant.

similar to sunburn. Other symptoms include wheezing, coughing, and pain when taking a The health effects of ozone vary. Ozone can irritate lung airways and cause inflammation deep breath and breathing difficulties during exercise or outdoor activities. People with

ground-level ozone triggers a variety of health problems including aggravated asthma, that are active outdoors can be affected when ozone levels are high. Even at very low levels, respiratory problems, children, and the elderly are most vulnerable, but even healthy people pneumonia and bronchitis. reduced lung capacity, and increased susceptibility to respiratory illnesses such as

other plants, ruining the appearance of cities, national parks, and recreation areas. other pollutants, and harsh weather. Furthermore, ozone damages the leaves of trees and plants to produce and store food, which makes them more susceptible to disease, insects, In addition to adverse health effects, ground-level ozone also interferes with the ability of

8-Hour Ozone National Ambient Air Quality Standards (NAAQS)

2008 NAAQS

and averaged over three years, may not exceed this level at any monitor in the area. concentration of 0.075 ppm. The fourth highest value in a year, rounded to the nearest 0.01 Federal Register (77 FR 30088) establishing initial air quality designations for the 2008 primary and secondary NAAQS for ozone. The 2008 standard is set at an 8-hour average On May 21, 2012, the Environmental Protection Agency (EPA) issued a final rule via the

its attainment goals. In particular, the projects will not: that all future transportation projects will not hinder the area from reaching and maintaining Transportation conformity requires nonattainment and maintenance areas to demonstrate nonattainment areas Areas that have failed to meet the standards outlined above have been designated as and, as а result, are subject to transportation

- Cause or contribute to new air quality violations
- Worsen existing violations or
- Delay timely attainment of the relevant NAAQS

criteria of CAA section 181(a)(5) of compliance with all commitments and requirements attainment date. However, EPA granted a 1-year extension to July 20, 2016 by meeting the attainment date of July 20, 2015. The PA-NJ-MD-DE did not attain the standard by the The PA-NJ-MD-DE area is classified as a marginal nonattainment area, resulting in an 20, 2012, the 1997 ozone NAAQS were revoked for transportation conformity purposes 1 final rule for implementation of the 2008 NAAQS (77 FR 30160), also effective on July May 4, 2016. in the SIP, and "clean" data in 2014. EPA's final rule was published in 81 FR 26697, dated year after the effective date of designations for the 2008 ozone NAAQS, July 20, 2013. The effective date of the 2008 ozone standard designations was July 20, 2012. Under the

conformity purposes. are not required and the previously approved, and 2009 MVEBs must be used for Since the area was designated as marginal under the 2008 ozone standards, new MVEBs motor vehicle emission budgets (MVEBs) associated with the attainment demonstration. Maryland portion of the nonattainment area. The same ruling found adequate the 2009 approving the attainment demonstration for the 1997 8-hour ozone NAAQS for the EPA published a final rule (77 FR 65488), which became effective on November 28, 2012,

PA-NJ-MD-DE 8-Hour Ozone Nonattainment Area

The 2008 8-hour ozone nonattainment area is made up of 16 counties spanning four states. Figure 1 illustrates the entire nonattainment area and the location of the areas covered by WILMAPCO (New Castle and Cecil Counties) for both the 2008 ozone standards.

Figure 1: Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE Nonattainment Areas



Status of the 2040 RTP & 2017-2020 TIP

project's development timetable. on the four-year Transportation Improvement Program (TIP) that corresponds to that enhancement of existing highway, transit, and bicycle/pedestrian facilities. Transportation construction of new facilities, improved connectivity to multiple travel modes, and the recommendations for enhanced transportation efficiency and functionality, including the transportation plan with at least a 20-year planning horizon. The projects that address challenges faced by the region are identified in this plan and placed Castle As the regional transportation-planning agency for Cecil County, Maryland and New County, Delaware, WILMAPCO is charged with authoring Plan presents a long-range

formally adopted by the WILMAPCO Council on March 10, 2016. were created by the WILMAPCO staff and member agencies. The TIP and RTP were The 2040 update of the Regional Transportation Plan and the Fiscal Year 2017 – 2020 TIP

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county representatives, the MPO and representatives from both state and federal agencies As required by the federal transportation conformity rule (40 CFR 93.105) the conformity local agencies. Interagency consultation requirements include coordination with the local process includes a significant level of cooperative interaction among the federal, state, and

- Wilmington Area Planning Council (WILMAPCO)
- Maryland Department of the Environment (MDE)
- Maryland Department of Transportation (MDOT)
- Maryland State Highway Administration (SHA), Maryland Transit Administration toll facilities) (MTA), and Maryland Transportation Authority (MDTA) (responsible for the State's
- Delaware Transit Corporation (DTC)
- Delaware Department of Transportation (DelDOT)
- Delaware Department of Natural Resources and Environmental Control (DNREC)
- Cecil County
- New Castle County
- Federal Highway Administration (FHWA)
- Environmental Protection Agency (EPA)
- Federal Transit Administration (FTA)

following goals related to the transportation conformity process: Quality Subcommittee (AQS) groups met and collaborated in order to achieve the As part of the interagency consultation, the Technical Advisory Committee (TAC) and Air

- Determine planning assumptions
- Develop a definitive list of future year projects to be analyzed
- Develop a format for presenting determination
- Develop and standardize the public participation process

August 13, 2015, December 17, 2016, March 10, 2016, May 12, 2016, and July 21, 2016. The TAC met the third Thursday of each month in 2015 and 2016, and the AQS met on http://www.wilmapco.org/tac) see Appendix U for meeting minutes. (http://www.wilmapco.org/ags/;

Determine Planning Assumptions

8-Hour Ozone Regional Emissions Test

document: Cecil County, Maryland 8-Hour Ozone State Implementation Plan and Base compared to the 2009 Motor Vehicle Emissions projects (those which do not qualify as exempt under 40 CFR 93.126 and 127) will be The emissions resulting from the implementation of regionally significant transportation Budgets (MVEB), set forth in the

effective on November 28, 2012 (77 FR 65488). to EPA in June 2007. EPA found the 2009 MVEBs adequate for conformity purposes, Year Inventory SIP Revision: 07-05, for conformity purposes. The document was submitted

Analysis Years

provided that they: analysis may be performed for any years in the timeframe of the conformity determination Criteria and Procedures: Motor Vehicle Emissions Budget, state that the regional emissions EPA regulations, as outlined in the Final Transportation Conformity Rule, Section 93.118,

- Include a near-term year, one to five years in the future
- Are not more than ten years apart
- The analysis is performed for the attainment year (if it is in the timeframe of the transportation plan and conformity determination)
- Include the last year of the timeframe of the conformity determination

The last year of the plan is 2040, making the analysis years 2020, 2030, and 2040. selected as the intermediate year so that the analysis years are no more than 10 years apart. the transportation plan. 2020 was chosen so that the first analysis year is no more than five The attainment year for the 2008 standard, is 2015, which is not within the timeframe of years beyond the year in which the conformity determination is being made. 2030 was

Components of the Regional Emissions Analysis

emissions, VOC and NOx, must be included in a regional analysis of 8-hour ozone for with each other in the presence of sunlight. The EPA has ruled that both precursor transportation conformity. As discussed above, ozone formation is a direct result of VOC and NOx emissions reacting

Future Year Projects

are analyzed in this conformity determination. were found to be regionally significant through the interagency consultation process and The projects listed in Table 3, in the Travel Demand Modeling section of this document,

Analysis Results

the nonattainment area will not cause or contribute to any new violation of the air quality determination. The regionally significant projects located in the Cecil County portion of results of the budget test for NOx emissions. The results show that all analysis years are The results of the motor vehicle emissions budget tests are presented below in Tables 1 and Table 1 presents the results of the budget test for VOC emissions. Table 2 outlines the the established and approved 2009 MVEB and show a positive conformity

5

	2020	2030	2040
	Modeled	Modeled	Modeled
Cecil County Total	1.6	1.0	0.9
2009 Conformity Budget	2.2	2.2	2.2
Conformity Result	Pass	Pass	Pass

Table 2: NOx Emissions Test Results – MVEB Test (tons/day)

	2020 Modeled	2030 Modeled	2040 Modeled
	Modeled	Modeled	Modeled
Cecil County Total	5.5	3.6	3.7
2009 Conformity Budget	7.3	7.3	7.3
Conformity Result	Pass	Pass	Pass

Travel Demand Modeling Methodology

model was originally developed in 2006 and revalidated in 2012 for the upper eastern shore diversions related to regionally significant transportation improvement projects. The travel of Maryland including Cecil County. A travel demand model has been used to estimate future roadway traffic volumes and

final report available from MDOT. analysis zones and assigns them to highway networks consisting of key regional roadway mode choice or transit assignment module. The model produces vehicle trips for 477 traffic Kent, Queen Anne's, and Cecil Counties in Maryland, as well as New Castle County, for the year 2010. A summary of the model components and validation are presented in a segments. The base year model is validated against survey data and traffic counts collected distribution, and traffic assignment. The regional travel model does not contain a formal Delaware. This model is a traditional three-step model incorporating trip generation, trip The Upper Eastern Shore (UES) model uses the TP+ software platform and encompasses

Highway Networks

used in the air quality analysis are estimated volumes, link distances, free-flow speeds, and regionally significant highway projects (as defined in section 93.101 of the Final and adjusting the link capacities for projects that add lanes to existing roadways. A list of the RTP and TIP are coded onto the networks by adding links for new construction projects the facilities' respective capacities and travel speeds. For each horizon year, projects from nonattainment region (Figure 2). Links in the network are coded with attributes that portray representing freeways, principal arterials, minor arterials, and collectors within the analysis year: 2020, 2030, and 2040. The networks are comprised of link segments Transportation Conformity Rule) is shown in Table 3. The primary products of the model For the purpose of this conformity analysis, model highway networks are created for each validation count data. link capacities. The impacts of transit on regional vehicle trips are accounted for in the Future changes to transit service (as reflected in regionally

as MAQONE. significant transit projects) can be accounted for using off-model analysis techniques, such

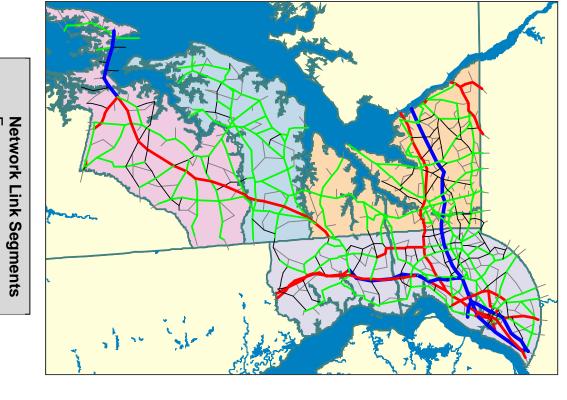


Figure 2: Cecil County Network Map

Principle Arterials Minor Arterials Collectors

Freeways

Table 3: Cecil and New Castle Counties Regionally Significant Highway Projects

No.	Project Name	County	Description	In-service Date
_	MD 213: Frenchtown Road to US 40	CC	Two to four lane divided highway	2040
2	I-95: Susquehanna River to DE Line	cc	Add a lane in each direction, plus bridge expansion	2040
ω	MD 272: US 40 to Lums Road	CC	Two to four lane divided highway	2040
4	I-95/SR 222 Interchange	CC	Two to four lanes on the SR 222 bridge	2040
5	MD 222: US 40 to MD 276	CC	Multilane reconstruction	2040
6	US 301: MD State Line to SR 1	NCC	New four lane expressway	2020
7	Christina River Bridge	NCC	New bridge	2020
8	SR 72, McCoy Road to SR 71	NCC	Two to four lanes	2030
9	Road A / SR 7 Improvements	NCC	New lane in each direction	2030
10	SR 299, SR 1 to Catherine Street	NCC	Widening	2030
11	Elkton Road, Maryland State Line to Casho Mill Road	NCC	Widening	2030
12	SR 141/I-95 Interchange	NCC	Expansion	2030
13	US 301: Spur	NCC	New two lane road	2030
14	US 40/SR 896	NCC	Grade separated intersection	2030
15	SR 1: Tybouts Corner to Roth Bridge	NCC	Widening	2030
16	SR 896/I-95 Interchange	NCC	Expansion	2030
17	SR 896/Bethel Church Road Interchange	NCC	Expansion	2030
18	US 40 Widening: Salem Church Road to Walther Road	NCC	Widening	2030
19	SR 1: Tybouts Corner to SR 273	NCC	Four to six lanes	2030
20	SR 4 (Christina Parkway): SR 2 to SR 896	NCC	Widening entire length two to four lanes	2030
21	Tyler McConnell Bridge, SR141: Montchanin Road to Alapocas Road	NCC	Bridge expansion	2040
22	I-295 Improvements Eastbound at SR 141	NCC	Add third lane	2040

Note NCC = New Castle County

CC = Cecil County

Land Use Forecast Methodology

Land use estimates for the base and future year models for Cecil County are developed from existing data sources and county comprehensive plans, as well as through

comprised of data describing the population, households, workforce, and employment for coordination with state and local planning agencies. The land use data for this model is

and 2040 for Cecil County. summarizes the land use data used for traffic modeling for the analysis years 2020, 2030 from the land use demographics approved by WILMAPCO. WILMAPCO's demographic Land use for Cecil County, Maryland and New Castle County, Delaware came directly projections for New Castle and Cecil Counties were adopted in July 2014. Table 4

Table 4: Summary of Land Use Data Used for Modeling Runs

Cecil County	unty					
Year	Population*	Households*	Labor Force*	Total* Employment	Retail* Employment	Non-Retail* Employment
2020	107,557	40,907	53,148	49,817	8,710	41,107
2030	124,360	47,659	61,149	54,785	8,541	46,243
2040	138,105	52,826	67,414	58,530	9,134	49,396

*Data Source: WILMAPCO Projections (Adopted July 2014)

Estimation Process for Mobile Source Emissions

user flexibility, new software design, and significant new capabilities incorporates the latest emissions data, more sophisticated calculation algorithms, increased estimating emissions from highway vehicles. This conformity analysis uses MOVES2014 model, EPA's state-of-the-art tool for Compared to previous tools, MOVES

Analysis Methodology

the Maryland Department of Environment (MDE), Motor Vehicle Administration (MVA), to MOVES2014) data has been used for the conformity analysis. Local data inputs to the provided in EPA's technical guidance. WILMAPCO, and other local/national sources. analysis process reflect the latest available planning assumptions using data obtained from The methodology used to produce the emission data conform to the recommendations A mix of local data and national default (internal

MOVES2014 emission model. PPSUITE consists of a set of programs that perform the along with custom post-processing software (PPSUITE) to prepare key input files to the above) for 2020, 2030, and 2040 to estimate the regional Vehicle Miles Traveled (VMT) following functions: The analysis methodology includes the use of regional travel model outputs (as described

- Analyzes highway operating conditions
- Calculates highway speeds
- Compiles VMT and vehicle type mix data
- Prepares MOVES runs and processes MOVES outputs

PPSUITE and the traffic-related input files prepared for MOVES. MOVES emissions model. The PPSUITE process is also integral to producing other key Maryland and in other states including Pennsylvania, Virginia, New Jersey, and New York. input files to the MOVES emission model. The software has gone through a significant revision to ensure consistency with the The PPSUITE system has been used for previous inventory and conformity submissions in Figure 3 summarizes the key functions of

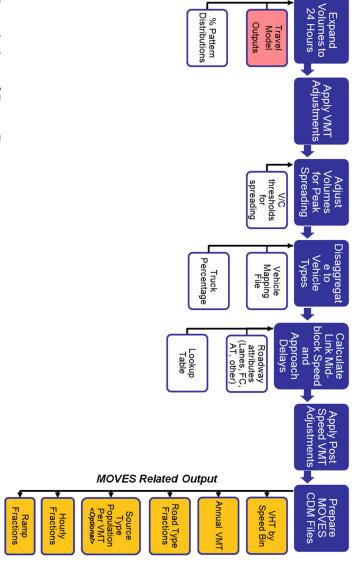


Figure 3: Summary of Emission Calculation Process

Description of Input Data

data items are discussed in the following sections are used for all inputs that have a significant impact on calculated emission rates. recommended for use when completing a regional conformity analysis. Local data sources current or best available information for any specific area. program data for every county; but EPA cannot certify that the default data is the most database program parameters, and environmental variables. MOVES includes a default national characteristics, and environmental parameters that A large number of inputs to MOVES are needed to fully account for the numerous vehicle of meteorology, vehicle fleet, vehicle descriptions, affect emissions. fuel parameters, vehicle activity, fuel, and emissions control inspection/maintenance These include As a result, local data is traffic (I/M)

<u>Roadway Data</u>

regionally significant transportation projects. model to estimate regional Vehicle Miles Traveled (VMT) and speeds. This data includes demand model runs are produced for future analysis years and include the impact of including area type, facility type, lanes, distances, capacity, and free-flow speeds. Travel individual roadway traffic volumes and physical roadway descriptive The emission calculation process uses key traffic data from the regional travel demand The model provides a key resource for characteristics

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calculating the diversions due to transportation projects estimating the impact of population and employment growth on roadway volumes and

with HPMS reported totals for the base year. seasonal adjustments to reflect an average weekday for the summer season and Highway the number of vehicles using the road per day. Additional adjustments to VMT included: Performance Monitoring System (HPMS) adjustments used to align annual VMT estimates VMT was determined for each roadway class/setting by multiplying the length of road by

thereby speed) is affected by traffic growth and changes in physical conditions due to conditions and congestion caused by traffic volume. For future conditions, congestion (and roadway capacity, traffic volume, and other physical roadway features (e.g. traffic signals) Speed data was calculated for each highway segment and hour of the day, based on transportation improvement projects. post processing software. Thus, average speeds reflect physical highway

Vehicle Class Data

is inputted into MOVES by five HPMS vehicle groups. produces emissions and rates by thirteen MOVES vehicle source types. However, VMT Emission rates within MOVES vary significantly by vehicle type. The MOVES model

groups as inputs to MOVES. default VMT distributions for Maryland, which were recombined to the HPMS vehicle internal MOVES defaults. functional class based on State Highway Administration (SHA) classification counts and Then the vehicle groups were expanded to the 13 MOVES source types using MOVES2014 percentage splits to the four vehicle groups: Autos, Heavy trucks, Motorcycles and Buses. For this emissions analysis, vehicle type pattern data was developed for the county by As the first step, SHA count data was used to develop

for every hour of the day. the thirteen MOVES source types. This data contains percentage splits to each source type volumes, is used by PPSUITE to distribute the hourly roadway segment volumes among Vehicle type pattern data, developed from 2014 SHA TMS database and hourly traffic

estimation process by adjusting capacity using information from the Highway Capacity more roadway space than a given number of cars, and this is accounted for in the speed to adjust the speeds in response to trucks. That is, a given number of larger trucks take up The vehicle type percentages are also provided to the capacity analysis section of PPSUITE

Vehicle Age

2014 MVA registration data. vehicle age distributions were prepared by MDE based on information obtained from the The distributions reflect the percentage of vehicles in the fleet up to 31 years old. Vehicle age distributions are input to MOVES for the county by the thirteen source types.

based on the VIN-decoded MVA registration data. The age distributions for light duty vehicles, buses, refuse trucks, and motor homes are

(downloaded from https://www3.epa.gov/otaq/models/moves/tools.htm) The age distributions for heavy duty trucks (source type 52, 53, 61 and 62) were developed default age distributions for MOVES2014 for 2020, 2030 and 2040

Vehicle Population Data

emission standpoint such as trailers and farm tractors). data pre-processed to remove duplicate, expired, and non-eligible vehicles (from the was prepared and provided by MDE utilizing the 2014 VIN-decoded MVA registration the population of vehicles to be separated by the thirteen source type categories. forecasted start and evaporative emissions within MOVES. The MOVES model requires Vehicle fleet information such as the number and age of vehicles has an impact on the

other information recorded in the MVA vehicle registration data were also utilized in this refuse trucks and motor homes for Cecil County. Vehicle class, body/style, RGVW, and VIN-decoding was used to estimate vehicle population for light-duty vehicles, buses,

estimated using Cecil County VMT and MOVES2014 default VMT/population ratios for those source types. The vehicle population for heavy-duty trucks (source types 52, 53, 61 and 62) was

growth rate methodology included: on projected household and population growth obtained from state and MPO sources. The For the analysis years 2020, 2030, and 2040, the vehicle population was forecasted based

- Choosing the highest growth rate between population, households, and VMT
- Default VMT/Population ratio for trucks, i.e., truck population growth based on Truck VMT

Environmental and Fuel Data

Information on environmental, fuel, vehicle technology, and other control strategy assumptions were determined based on a review of MOVES2014 default information by

changed from the MOVES2014 defaults include: data inputs (Fuel Formulation, Fuel Supply, and Fuel Usage Fractions tables) required by the Comptroller of Maryland. These fuel reports are generated by testing samples collected in the field (gas stations) for the purpose of fuel regulation enforcement. Three sets of fuel Laboratory, which is under the jurisdiction of Maryland Fuel Tax Division of the Office of the MOVES2014 model were developed for Cecil County. Fuel Data: MDE obtains monthly fuel data reports regularly from the Maryland Fuel The fuel parameters that

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E300 E200 benzineContent olefinContent sulfurLevel fuelSubtypeID fuelFormulationID aromaticContent **ETOHVolume** Selected per guidance based on ethanol content of gasoline Unique ID used for easy recognition Computed from the local fuel data Computed from the local fuel data

for the county. computations were developed from the 24 hourly values for every hour in a given month National Climate Data Center of NOAA. Hourly average temperature and humidity updated in 2014. The month-by-month, raw hourly-data sets were obtained from the compiled to be used for periodic emission inventories. The data used for this analysis were triennial basis, meteorological data including hourly temperature and relative humidity is determined by MDE using the procedures documented in EPA's technical guidance. On a temperatures of the surrounding air. Ozone analysis temperature and humidity values were Meteorological Data: Evaporative emissions are influenced significantly by the

Other Vehicle Technology and Control Strategy Data

utilized for these analysis runs and is described below. The MOVES2014 default I/M data was reviewed and updated by MDE for Cecil County. The current I/M program known as the Vehicle Emission Inspection Program (VEIP) was

the gas cap check reflects the much higher retest pass rate for this check. weight range covered by the program. This was derived from documentation comparing Heavy duty vehicles have an additional factor, reflecting the fraction of vehicles in the combined with an assumed 96% compliance rate for vehicles showing up for testing. converter. The compliance factors reflect the fail and waiver rates observed in the program, receive an idle test with a gas cap leak test and a visual check for the presence of a catalytic weighing from 8,501pounds up to 14,000 pounds receive the OBD test. All other vehicles and newer gasoline powered vehicles weighing up to 26,000 pounds. The test is done MD Vehicle Emission Inspection Program (VEIP): This program tests model year 1977 the MOVES and MOBILE vehicle classes. The significantly higher compliance rate for Light duty vehicles model year 1996 and newer, and model year 2008 and newer vehicles biennially, and on change of ownership. There is a two-year grace period for new vehicles.

Program (NLEV) program in Maryland. and fuel standards beginning with model year 2017. Modifications of default emission standards for model year 2014 to 2018 medium and heavy-duty vehicles, Tier 3 vehicle standards covering model year vehicles through 2025, fuel efficiency and greenhouse gas incorporated into the MOVES2014 software. These include the National Program rates are required to reflect the early implementation of the National Low Emission Vehicle Federal Programs: Current federal vehicle emissions control and fuel programs are To reflect these impacts, EPA has released

the October 2014 version of the files: instructions and input files that can be used to model these impacts. This inventory utilized

(http://www.epa.gov/oms/models/moves/tools.htm).

State Vehicle Technology Program:

motor vehicles. These new standards will be phased-in over the 2015-2025 model years. to the Low-Emission Vehicle regulation entitled LEV III (third generation low emission that requires the manufacturers to produce a certain percentage of zero emission vehicles in 2011 and requires all 2011 model year and newer vehicles (GVWR up to 14,000 lbs.) the California Low Emission Vehicle (LEV II) program. The program was implemented vehicle standards). These amendments create more stringent emission standards for new (electric, fuel cell, etc.) for purchase in the state. California has adopted new amendments greenhouse gas pollutants. This program also contains a zero emission vehicles component registered in Maryland to meet California emission standards for both criteria and MD Clean Car Program: Under the Maryland Clean Cars Act of 2007, Maryland adopted

beginning with vehicle model year 2011. schedules were done per EPA's instructions, to reflect a later start for the State of Maryland the standard phase-in schedules for new emission standards. The impacts of this program were modeled for all analysis years using EPA's guidance document, Instructions for Using LEV and NLEV Inputs for MOVES2014, EPA-420-B-14-060a, October 2014. EPA provided input files to reflect the CAL LEVIII program with Modifications to those

2040 RTP and FY 2017-2020 TIP Conformity Determination

Financial Constraint

found that the projected revenues are sufficient to cover the costs, therefore satisfying the with the estimated revenues and maintenance needs of the new roads. WILMAPCO has maintain and operate existing roads and bridges in the MPO area and has compared that Regional Transportation Plan, WILMAPCO has developed an estimate of the cost to operating funds are reasonably expected to be available are included. As shown in the being adequately operated and maintained. transportation plan to be financially constrained while the existing transportation system is The planning regulations, Sections 450.322(b) (11) and 450.324(e) require the financial constraint requirement. Only projects for which construction and

Public Participation

analysis was made available for formal public review and comment beginning on July 25, the Final Conformity Rule, and Final Statewide / Metropolitan Planning Rule. The draft 2016. The public review and comment period was announced using the following outlets: This conformity document has undergone the public participation requirements set forth in

- Notices in the Delaware News Journal and Cecil Whig Newspapers
- Radio advertisements
- WILMAPCO website (<u>www.wilmapco.org</u>)
- WILMAPCO E-NEWS (monthly electronic newsletter)

TIP Public Workshop held at the Newark Library on August 31.

The documentation of the observed 30-day public comment period, comments, and the responses to comments can be found in Appendix E.

Conformity Statement

responses to all of EPA's criteria as applicable to this conformity determination. emissions budgets established in the SIP. Appendix A contains a matrix, which provides 8-hour ozone nonattainment area, requires the RTP and TIP to conform to the motor vehicle The conformity rule, as it applies to the Cecil County, MD portion of the PA-NJ-MD-DE

will not worsen the region's air quality or delay the timely attainment of the National as the MPO, has concluded that the implementation of the 2040 RTP and 2017-2020 TIP of 2020, 2030, and 2040. Based on the conformity analysis, WILMAPCO, in its capacity below the EPA-approved motor vehicle emission budgets for the established analysis years 8-hour ozone nonattainment area indicate that the projected mobile source emissions are The results of the conformity analysis for the Cecil County portion of the PA-NJ-MD-DE Ambient Air Quality Standards.

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http://www.epa.gov/otaq/stateresources/transconf/conf-regs.htm Transportation Conformity Regulations as of April, 2012, EPA-420-B-12-013;

Metropolitan Transportation Planning and Programming; http://www.ecfr.gov. 23 CFR PART 450 - Planning Assistance and Standards, Subpart C

Council; <u>http://www.wilmapco.org/tip/</u> FY 2017-2020 Transportation Improvement Program; Wilmington Area Planning

http://www.wilmapco.org/rtp/ Regional Transportation Plan, 2040 Update; Wilmington Area Planning Council;

users guide and other information. Modeling Page within EPA's Office of Mobile Sources Website (http://www.epa.gov/omswww/models.htm) contains a downloadable model, MOVES

Development, Transportation Conformity, and Other Purposes, US EPA Office of Transportation and Air Quality, EPA-420-B-14-008, July 2014. Policy Guidance on the Use of MOVES2014 for State Implementation Plan

Transportation and Air Quality, EPA-420-B-15-007, January 2015. Implementation Plans Technical Guidance: Using MOVES to prepare Emission Inventories for State and Transportation Conformity. EPA Office of

420-B-14-055, July 2014. Motor Vehicle Emission Simulator (MOVES), User Guide for MOVES2014, EPA-

Highway Capacity Manual 2010, Transportation Research Board, January, 2010.

Traffic Trends System Report Module, 2014 Data, Maryland State Highway Administration

Appendix A

Conformity Question Checklist

Table A-1: Conformity Questions Matrix

			40 CFR 93.110		Section
(e) The conformity determination must use the latest existing information regarding the effectiveness of the TCMs and other implementation plan measures, which have already been implemented.	(d) The conformity determination must include reasonable assumptions about transit service and increases in transit fares and road and bridge tolls over time.	(c) Are any changes in the transit operating policies (including fares and service levels) and assumed transit ridership discussed in the determination?	(b) Are the assumptions derived from the estimates of current and future population, employment, travel, and congestion most recently developed by the MPO or other designated agency? Is the conformity determination based upon the latest assumptions about current and future background concentrations?	(a) Is the conformity determination, with respect to all other applicable criteria in §§93.111 - 93.119, based upon the most recent planning assumptions in force at the time of the conformity determination?	Requirement Is the conformity determination based on the latest planning assumptions?
N/A	~	~	~	~	≺ ₹
There are no TCMs identified in the SIP.	See above regarding transit. Tolls are included in the validated UES travel demand model.	The impact of transit on regional vehicle trips is accounted for in the validation count data. Any future changes to transit service can be accounted for using off-model or sketch analysis tools, such as MAQONE. However, there are not any regionally significant transit projects in this analysis.	Land use for Cecil County, Maryland and New Castle County, Delaware came directly from the land use approved by WILMAPCO. WILMAPCO demographic projections for Cecil and New Castle Counties were adopted in July 2014.	The conformity analysis uses the UES travel demand model that is validated (checks the accuracy of the model) to 2010 conditions. Assumptions regarding vehicle mix, hourly patterns, monthly/seasonal factors, and vehicle fleet registration data are based on the latest available (2011) information from the Maryland Department of the environment (MDE) & State Highway Administration (SHA).	See below.

I he contormity determination was performed using the 2009 motor vehicle emissions budgets contained in the SIP and found adequate by EPA.	~	Is the Transportation Plan consistent with the motor vehicle emissions budget in the applicable SIP?	40 CFR 93.118
There are no TCMs in the SIP.	N/A	Are TCMs being implemented in a timely manner?	93.113(b)
See Financial Constraint Section.	~	Is the Transportation Plan Fiscally Constrained?	93.108
A summary of regionally significant projects can be found in the land use section and Table 3 of this document.	~	Is the highway and transit system adequately described in terms of the regionally significant additions or modifications to the existing transportation network that the transportation plan envisions to be operational in the horizon years?	93.106(a) (2)(ii)
A summary is provided in the Land Use Forecast Methodology section and the relevant data is summarized in Table 4 of this document.	~	Does the plan quantify and document the demographic and employment factors influencing transportation demand?	93.106(a) (2)(i)
The years chosen: 2020, 2030, and 2040, represent the appropriate horizon years needed for the 8-hour ozone NAAQS conformity determinations.	~	Are the horizon years correct?	40 CFR 93.106 (a) (1)
Consultation procedures were followed in accordance with the Federal Transportation Conformity Rule. WILMAPCO consulted appropriate agencies and provided a scope of work to the following agencies: MDOT, MDE, DelDOT, DNREC, FHWA, FTA, and EPA.	Υ	Did the MPO make the conformity determination according to the consultation procedures of the conformity rule or the state conformity SIP?	40 CFR 93.112
EPA's latest emissions model, Motor Vehicle Emissions Simulator (MOVES) was used for this conformity determination.	~	Is the conformity determination based on the latest emissions model?	40 CFR 93.111
Summary provided in Interagency Consultation Section with supporting documents in Appendix D & E.	Y	(f) Key assumptions shall be specified and included in the draft documents and supporting materials used for the interagency and public consultation required by §93.105.	
Response	N/Y	Requirement	Section

Appendix B

Conformity Results
Detailed VMT and Emissions
By County
By Road Type
By Analysis Year

Table B-1: 2020 Emissions Budget Test Results

2020 Analysis				
Bood Tuno	VAT	Speed	VOC	NOX
Noad Type	7777	(mph)	(tons/day)	(tons/day)
Off-Network		1	1.17	2.35
Rural Restricted Access	2,185,375	60.6	0.17	1.81
Rural Unrestricted Access	2,032,121	38.5	0.17	1.05
Urban Restricted Access	119,745	59.8	0.01	0.09
Urban Unrestricted Access	358,684	18.2	0.05	0.18
Nonattainment Area Total	4,695,924		1.57	5.48
	2009 Budgets (Submitted)	(Submitted)	2.2	7.3
			PASS	PASS

Table B-2: 2030 Emissions Budget Test Results

PASS	PASS			
7.3	2.2	(Submitted)	2009 Budgets (Submitted)	
3.64	1.02		5,540,547	Nonattainment Area Total
0.07	0.03	17.3	405,241	Urban Unrestricted Access
0.04	0.01	59.1	149,689	Urban Restricted Access
0.45	0.10	37.4	2,391,583	Rural Unrestricted Access
0.82	0.09	53.9	2,594,034	Rural Restricted Access
2.24	0.80	-	-	Off-Network
(tons/day)	(tons/day)	(mph)	V 181.1	road Type
NOX	VOC	Speed	LVVA	Pood Tupo
				2030 Analysis

Table B-3: 2040 Emissions Budget Test Results

2040 Analysis				
Bood Tuno	±000	Speed	VOC	NOX
Noad Type	11414	(mph)	(tons/day)	(tons/day)
Off-Network	-	•	0.73	2.51
Rural Restricted Access	3,072,760	58.8	0.07	0.71
Rural Unrestricted Access	2,705,928	36.6	0.09	0.36
Urban Restricted Access	179,489	59.5	0.00	0.04
Urban Unrestricted Access	437,144	17.4	0.02	0.05
Nonattainment Area Total	6,395,321		0.91	3.68
	2009 Budgets (Submitted)	Submitted)	2.2	7.3
			PASS	PASS

Appendix C

MOVES Input Files and Parameters For

Cecil County, MD

Traffic/Air Quality Data Checklist for Cecil County

Data Item	Inputs Assumptions
MOVES RunSpec	
Emission Model	MOVES2014 (default database: MOVESDB20141021)
Scale/Calulation Type	County Scale Inventory Run
Analysis Years	2020, 2030, 2040
Analysis Season	July Weekday
Pollutants	VOC, NOx
Fuel Types	Gasoline, Diesel, CNG, Electricity, E-85
Traffic Data	
Highway Network	Cecil Model Networks (2020, 2030, 2040): Use socio-economic forecast and latest network Inputs updated for 2040 LRTP
Seasonal/Daily Adjustments	Factors to develop MOVES daily and monthly VMT fraction files as inputs. Seasonal adjustment factors developed from 2014 SHA Traffic Trends Report.
County HPMS VMT Adjustments	Apply HPMS Adjustments to ensure Model VMT is consistent with reported HPMS
Mapfile	Use MOVES2014 national defaults VMT distributions for Maryland to dissagregate light duty vehicles/buses/trucks to MOVES 13 source types; consistent with 2014 NEI.
Hourly Patterns	Deveoped based on 2014 SHA Traffic Trends Report
Vehicle Mixes	MOVES VMT required by 5 HPMS vehicle classes. Use 2014 SHA truck count data (TMS database & hourly volumes) to split model traffic volumes into motorcycles, light duty vehicles, buses and trucks, and use MOVES default VMT distributions for the state to divide the four vehicle groups into MOVES 13 source types, which are recombined to the 6 HPMS vehicle classes.
MOVES Inputs	
Annual VMT	Calculated by PPSUITE from Model network / seasonal factors / vehicle mapping
Month VMT Fractions	Calculated based on 2014 seasonal adjustment factors
Day VMT Fractions	Calculated based on 2014 seasonal adjustment factors
Avg. Hourly Speed Distribution	Calculated by PPSUITE (Minimum Speed = 2.5 mph); Based on Model volumes and speed post processing by hour of day.
Road Type Distribution	Calculated by PPSUITE; a RoadType field must be added to the Model network based on FC.
Ramp Fraction	MOVES defaults
Source Type Population	Non-trucks: 2014 Inputs provided by MDE> Adjust/grow to 2020, 2030, and 2040 by applying growth factors developed from Woods & Poole population/households/employment forecast data and limiting to VMT Growth. For non-trucks: maximum of households & population growth. Heavy duty trucks (source type 52, 53,61 & 62): Use Cecil county VMT and MOVES2014 default VMT/Population ratios to estimate truck population.
Vehicle Age Distribution	Use MDE-prepared 2020, 2030 and 2040 inputs for light duty vehicles and MOVES2014 naitonal default age distribution inputs for trucks (source type 52, 53,61 & 62).
Fuel Supply	Provided by MDE
Fuel Formulation	Provided by MDE
Fuel Usage Fraction	Provided by MDE
Temperatures/Humidity	2014 inputs provided by MDE
I/M Parameters	Provided by MDE
Control Programs	
Early NLEV / CALLEVIII	Include EPA provided MOVES2014 override database for early NLEV implementation and MD-specific CALLEVIII program provided by MDF
California ZEV Program	Included (provided by MDE)

SUMMER DAY OZONE MOVES SAMPLE INPUT FILES Cecil County

Sample Cecil County MOVES Run Specification File Settings for Analysis Year 2020

Sample xml file format – Run 1

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sourcetypename="Combination Short-haul Truck"/>
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Sample xml file format – Run 2
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sourcetypename="Combination Short-haul Truck"/>
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Home"/>
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```
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Bus"/>
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Unit Short-haul Truck"/>
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sourcetypename="School Bus"/>
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sourcetypename="Combination Short-haul Truck"/>
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sourcetypename="School Bus"/>
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sourcetypename="Single Unit Long-haul Truck"/>
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sourcetypename="Single Unit Short-haul Truck"/>
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Sample mrs file format – Run 1

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user's data]]></description>
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                                                                                         Gas
                                                                                                 (CNG)"
                                                                                                            sourcetypeid="11"
sourcetypename="Motorcycle"/>
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                                                                             Natural
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                                                                                                 (CNG)"
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sourcetypename="Passenger Car"/>
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                                                                             Natural
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                                                                                                            sourcetypeid="31"
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sourcetypename="Passenger Truck"/>
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Commercial Truck"/>
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Truck"/>
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>ENDIF
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Bus"/>
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Truck"/>
```

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Unit Short-haul Truck"/>
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Home"/>
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Truck"/>
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Truck"/>
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Truck"/>
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Truck"/>
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haul Truck"/>
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haul Truck"/>
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Exhaust"/>
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                                                                                                                processkey="17"
processname="Crankcase Extended Idle Exhaust"/>
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Fuel Leaks"/>
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                                                                                                                processkev="15"
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                                                                                                                processkey="16"
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                                                                                                                processkey="17"
processname="Crankcase Extended Idle Exhaust"/>
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                                                                                 Gaseous
processname="Extended Idle Exhaust"/>
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Fuel Vapor Venting"/>
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Fuel Leaks"/>
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                                                        pollutantname="Volatile
                                                                                     Organic
                                                                                                 Compounds"
processname="Crankcase Running Exhaust"/>
<pollutantprocessassociation</pre>
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                                                        pollutantname="Volatile
                                                                                     Organic
                                                                                                 Compounds"
                                                                                                                processkey="16"
processname="Crankcase Start Exhaust"/>
```

```
<pollutantprocessassociation</pre>
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                                                                                                             processkey="17"
processname="Crankcase Extended Idle Exhaust"/>
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                                                       pollutantname="Volatile
                                                                                   Organic
                                                                                               Compounds"
                                                                                                             processkey="90"
processname="Extended Idle Exhaust"/>
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                                                                                                             processkey="91"
processname="Auxiliary Power Exhaust"/>
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                                                                                                             processkey="91"
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                                                                                           Hydrocarbons"
processname="Auxiliary Power Exhaust"/>
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                                                                                                             processkey="91"
processname="Auxiliary Power Exhaust"/>
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Sample mrs file format – Run 2

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Appendix D

Interagency Consultation

Please Visit:

http://www.wilmapco.org/aqs

its air quality goals. and Regional Transportation Plan (RTP). Their recommendations help our region attain of transportation projects in WILMAPCO's Transportation Improvement Program (TIP) and local agencies in Delaware and Maryland. The AQS assesses the air quality impacts The WILMAPCO Air Quality Subcommittee has 13 members representing federal, state

Appendix E

Public Participation Materials

Please Visit:

http://www.wilmapco.org/aq

cannot fund, authorize, or approve federal actions to support projects that do not conform to Clean Air Act requirements governing the current National Ambient Air Quality Standards (NAAQS). which do not meet air quality standards to ensure that federal actions conform to the purpose of the State Implementation Plan (SIP). The US Department of Transportation "maintenance areas," respectively, the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) jointly determine conformity within these regions Air Quality Conformity is a process which ensures federal funding and approval goes to transportation activities that are consistent with our air quality goals. This process applies to both the long range Regional Transportation Plan (RTP) and the Transportation Improvement Program (TIP). Known as "non-attainment areas" or

responsible for ensuring a plan is in place to meet the attainment levels in these County is considered in maintenance for fine particulate matter (PM2.5). WILMAPCO is New Castle and Cecil Counties are designated in non-attainment for ozone. New Castle While ozone and fine particulate emissions have and continue to drop dramatically, the WILMAPCO region still does not meet the rigorous federal air quality standards. Both

http://www.wilmapco.org/rtp

conform to air-quality standards. Significantly, no transportation projects in the region may be funded with federal money unless the projects are found in an approved long-range transportation plan. The WILMAPCO long-range plan is called the Regional Every four years, MPOs must update their long-range transportation plan with at least a 20 year planning horizon. This long-range plan must be financially reasonable and Transportation Plan (RTP).

APPENDIX D

FINANCIAL PLAN

The Metropolitan Planning Regulation (23 CFR 450) requires that the Transportation Improvement Program (TIP) be financially constrained, meaning that the amount of funding programmed must not exceed the amount of funding estimated to be reasonably available. In developing the TIP, the WILMAPCO has taken into consideration the transportation funding revenues expected to be available during the four years of the TIP.

This section of the TIP includes the documentation of reasonably available finances that demonstrates how this TIP, once approved, can be implemented. In developing the TIP, MPO members, particularly MDOT, and DelDOT, have cooperatively developed estimates of funds that are reasonably expected to be available to support TIP implementation. The revenue and cost estimates for the TIP reflect year of expenditure dollars, based on reasonable financial principles and information.

The Delaware, Maryland and federal financial forecasts that support the TIP are based on a six-year Financial Plan developed by Maryland and Delaware. The forecasted revenues and expenditures use the latest available economic estimates. The TIP is based on conservative assumptions formulated from historical trends for projected funding. The TIP serves several purposes. It is the documentation of the intent to implement specific facilities and projects from the RTP. It provides a medium for local elected officials, agency staffs, and interested members of the public to review and comment on the priorities assigned to the selected projects. The TIP establishes eligibility for federal funding for those projects selected for implementation during the first program year, detailed in the federal funding letter included in this appendix.

A summary of available federal funds for Delaware and Maryland and their allocation by fund source to implementing agencies is included. The project listings provide specific federal funding amounts and the source of the matching funds.

Detailed funding sources

State Funding:

State funding comes from the Transportation Trust Fund (TTF). In Delaware, this receives revenues from motor fuel taxes, Delaware Turnpike revenues, Route 1 tolls, motor vehicle document fees and motor vehicle registration fees, and miscellaneous sources including include motor carrier registration fees, operator license fees, titling fees, Division of Motor Vehicles record sales, and vanity tag fees. In Maryland, sources of funds include motor fuel taxes, motor vehicle excise (titling) taxes, motor vehicle fees (registrations, licenses and other fees), and federal-aid. In addition, Maryland's Trust Fund also includes corporate income taxes, operating revenues (e.g., transit fares, port fees, airport fees), and bond proceeds. Federal-aid projections are based on current appropriations and the match required to meet capital program cashflow requirements. Bonds are issued to support the cashflow requirements of the planned capital program while maintaining debt coverage requirements.

Local Funding:

Local funding comes from municipal and private contributions.

Federal Funding:

Federal funding comes from Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) capital funds.

FHWA funds include:

- Surface Transportation Program (STP) Metro is a flexible funding category typically used to fund roadway reconstruction, roadway operational improvements, roadway widening, new roadway, new interchange, interchange reconstruction, and studies.
- Transportation Alternatives Program (TAP) can fund bicycle / pedestrian projects, historic preservation projects, environmental mitigation projects, transportation museum projects, landscaping and beautification projects, and conversion of rails to trails projects. The projects must relate to surface transportation. Includes Recreational Trails (RT) provides funding to DNREC to develop and maintain recreational trails for motorized and nonmotorized recreational trail users and Safe Routes to School (SRS) is designed to enable and encourage children, including those with disabilities, to walk and bicycle to school, and to help plan, develop, and implement projects that will improve safety, reduce traffic, fuel consumption, and air pollution in the vicinity of schools.
- Congestion Mitigation/Air Quality (CMAQ) can fund projects that reduce transportation-related emissions in non-attainment and maintenance areas for ozone, carbon monoxide, and small particulate matter.
- Discretionary funds are additional funds (not formula funds) that the federal government may decide to award to the region. Examples of discretionary funding sources include bridge, Transportation and Community and System Preservation, Congressional Allocation, and Jobs & Growth Tax Relief.
- Other Regional Priorities typically fund construction, widening, and reconstruction on roadways on the state highway system.
- Surface Treatment funds repaving and resurfacing projects on the State Highway System.
- Bridge can fund the replacement, rehabilitation, and widening of any public bridge.
- Safety funds typically fund projects that reduce the number and severity of crashes.
- STP Flexible can fund almost any type of roadway improvement project.
- The Interstate Maintenance Program (IM) provides funding to rehabilitate, restore, and resurface the interstate highway system
- National Highway System (NHS) funds can be used for any type of improvement on roadways designated as part of the National Highway System.
- Highway Safety Improvement Program (HSIP) authorizes a new Federal-aid funding program to achieve a significant reduction in traffic fatalities and serious injuries on all public roads.
- Highway Bridge Replacement and Rehabilitation Program (BRXZ) provides funds to assist States in their programs to rehabilitate deficient highway bridges and retrofit bridges on public roads.

FTA funds include:

- Section 5307 can fund capital, maintenance, operations, and planning assistance for mass transportation in urbanized areas.
- Section 5309 can fund mass transit capital projects, regional rapid transit system construction, and studies to plan and implement the above.
- Section 5310 can fund capital equipment purchases for transportation of elderly and disabled persons within the urbanized area.
- Section 5311 can fund administrative, capital, and operating expenses for continuing public transportation service in the non-urbanized area of the state.
- Section 5337, State of Good Repair Grants, is a formula based program dedicated to repairing and upgrading the nation's rail transit systems along with high -intensity motor bus systems that use high occupancy vehicle lanes, including bus rapid transit (BRT).

FY 2017-2020 Estimated Spending Summary

		State	:	Federa	ı	Other		TOTAL
All \$ x 1000		Funds	Percent	Funds	Percent	Funds	Percent	
	2017	190,346.1	68%	89,847.6	32%	1,650.9	1%	281,844.7
Delaware Statewide	2018	188,227.1	70%	77,961.3	29%	1,520.9	1%	267,709.4
	2019	184,705.9	67%	89,330.8	32%	1,520.9	1%	275,557.5
Element	2020	181,186.8	65%	95,570.2	34%	1,520.9	1%	278,278.0
	TOTAL	744,465.9	67%	352,709.9	32%	6,213.7	1%	1,103,389.6
	2017	34,078.5	10%	155,805.7	45%	157,550.2	45%	347,434.4
New Castle County	2018	39,848.0	12%	280,240.7	81%	24,436.0	7%	344,524.7
•	2019	49,279.8	19%	198,384.1	76%	12,472.0	5%	260,135.9
Element	2020	51,216.6	28%	127,297.7	71%	1,300.0	1%	179,814.3
	TOTAL	174,422.9	15%	761,728.2	67%	195,758.2	17%	1,131,909.3
	2017	8,758.0	21%	28,728.9	69%	4,087.7	10%	41,574.6
Cecil County	2018	4,808.0	19%	19,547.8	78%	848.5	3%	25,204.3
	2019	3,748.0	20%	15,266.9	80%	68.7	0%	19,083.6
Element	2020	3,748.0	20%	15,005.0	80%	4.0	0%	18,757.0
	TOTAL	21,062.0	20%	78,548.6	75%	5,008.9	5%	104,619.5
	2017	233,182.6	35%	274,382.2	41%	163,288.8	24%	670,853.7
	2018	232,883.2	37%	377,749.8	59%	26,805.4	4%	637,438.4
Combined Total	2019	237,733.6	43%	302,981.7	55%	14,061.6	3%	554,777.0
	2020	236,151.4	50%	237,873.0	50%	2,824.9	1%	476,849.3
	TOTAL	939,950.8	40%	1,192,986.7	51%	206,980.8	9%	2,339,918.4



STATE OF DELAWARE DEPARTMENT OF TRANSPORTATION

800 BAY ROAD P.O. BOX 778 Dover, Delaware 19903

SECRETARY

July 14, 2016

Ms. Tigist Zegeye
Executive Director
WILMAPCO
850 Library Avenue, Suite 100
Newark, Delaware 19711

Dear Ms. Zegeye:

recommending programming Federal funds for Fiscal Year 2017 projects as follows: Pursuant to the adoption of Wilmington Area Planning Council's (WILMAPCO) Fiscal Year 2017 - 2020 TIP and the Delaware Department of Transportation's Fiscal Year 2017 - 2020 STIP, I am

Urban Surface Transportation Program (STP) (Population over 200,000) (Z230, M23E)

\$17,670,330	Total:
\$1,346,837	Bridge Painting, New Castle County
\$7,428,000	Bridge Preservation (BR 1-308; 1-577; 1-684; 1-814)
\$1,200,000	Walnut Street, Front Street to 4th Street, Wilmington
\$3,000,000	Christina Bridge Approaches
\$400,000	Garasches Lane, Wilmington
\$1,600,000	SR72 and Old Baltimore Pike Intersection
\$200,000	Little Baltimore Road Drainage Improvements
\$2,495,493	HSIP NCC, N282, Mill Creek Road and Stoney Batter Road
Amount	Project

FTA Urbanized Area (5307, 5340)

Total	Transit Vehicle Replacement Paratransit Buses NCC FY16-22	Claymont Station	NRTC, Platform and Pedestrian Bridge	NRTC, Station Building and Track A Realignment	NRTC, Parking Lot & Access Road	Wilmington Operations Center Bus Wash	Preventive Maintenance - New Castle County	Project
\$19,169,883	\$ 2,329,883	\$300,000	\$7,680,000	\$1,280,000	\$1,040,000	\$40,000	\$6,500,000	<u>Amount</u>



Transportation Alternatives Program (M30E, M3E1, 5307) Project New Castle County Transportation Alternatives Statewide Transportation Alternatives (FHWA) Transportation Alternatives Wilmington Urbanized Area (FTA) Total	FTA Elderly and Persons with Disabilities (5310) Project Statewide Transit Vehicle Replacement Total	Congestion Mitigation/Air Quality (CMAQ) (M400, M40E) Project Statewide Bike and Pedestrian Improvements Statewide Rideshare — Transportation Management Improvements Industrial Track Greenway Phase III Manor Avenue Sidewalk Improvements Myrtle Avenue Sidewalk Improvements Statewide Transportation Management Improvements
Amount \$ 730,718 \$ 1,362,340 \$160,000 \$2,253,058	<u>Amount</u> \$587,943	Amount \$3,200,000 \$360,000 \$9,646,159 \$1,000,000 \$800,000 \$2,900,000 \$17,906,159

We respectfully request your approval by way of signature on this document. If you have any questions, please contact me at (302) 760-2693.

APPROVED:

Executive Director

Tigist Zegeye

Sincerely,

Bill Geronimo

Senior Fiscal Management Analyst, Finance

င္ပ Mary Ridgeway, Division Administrator, FHWA

Theresa Garcia Crews, Regional Administrator, FTA

Jennifer Cohan, Secretary

Hugh E. Curran, Director, Finance

Lanie Thornton, Assistant Director, Finance

Robert McCleary, Director, Transportation Solutions
Shante Hastings, Deputy Director, Transportation Solutions
Drew Boyce, Director, Planning

John T. Sisson, Chief Executive Officer, Delaware Transit Corporation

Federal Fiscal Year 2016 Obligation Plan State Fiscal Year 2017 Spend

PROPERTY AND INVESTMENT OF THE PARTY OF	Federal	State	c riscar rear	STP/	
Description	Amount	Amount	Total	CMAQ	Justification
ITMS Field Devices /Support - Video					This is the enhancement of the video management system. This includes four
Management System	\$360,000.00	\$90,000.00	\$450,000.00	STP	pole mounted cameras and two portable trailer mounted cameras.
					This is a phase of a multi-year project to design, construct and implement both
	1				fixed location and portable electronic dynamic message signs (DMS). The
					DMS are controlled and monitored real-time from the TMC. The DMS provide
ITMS Field Devices /Support - Dynamic					the capability to display travel information prior to key decision points. This
Message Sign System	\$100,000.00	\$25,000.00	\$125,000.00	CMAQ	project is to build permanent DMS in New Castle and Kent counties.
					This is a phase of a multi-year project to implement a statewide automated real-
					time vehicle detection system. The detection system will provide a variety of
	1 1				information to include vehicle volumes, classification, speed, travel time and
4	1				congestion monitoring. The collected data will be used for real-time control,
					monitoring and information plus the data will be stored for planning purposes.
ITMS Field Devices /Support - Electronic					This project phase provides for four fixed location solar powered microwave
Detection System	6122 000 00	£22.000.00	#16# 000 00	0) () 0	detection sites to be located at Puncheon Run Exit, Five Points, SR 1 and SR
Detection system	\$132,000.00	\$33,000.00	\$165,000.00	CMAQ	16 and Argos Corner.
					This project is a planned multi-year project to expand the existing roadway
ITMS Field Devices /Support - Roadway					weather information system to add four additional sites to include DE 52
Weather Information System	\$132,000.00	\$33,000.00	\$165,000,00	CMAG	between Center Meeting and Twaddle Mill Road, Summit Bridge, US 13 over
weather information bystem	\$132,000.00	\$33,000.00	\$165,000.00	CMAQ	Records pond and US 113 at US 9.
					This project is a planned multi-year project to expand the existing WTMC 1380
	1				AM traveler information radio system to provide statewide coverage. This
					phase of the project will design, construct and implement four WTMC 1380
					AM repeater sites to include: US 13 at SR 9, US 113 at SR 26, US 13 at SR 16
					and US 113 at SR 16. The WTMC 1380 AM radio system provides 24 hour
ITMS Field Devices /Support - Traveler					real-time multimodal travel, incident and emergency information. WTMC
Information System	\$212,000.00	\$53,000.00	\$265,000.00	CMAO	1380 AM is a component of DelDOT's transportation management and
	\$212,000.00	\$55,000.00	\$203,000.00	CMAQ	congestion mitigation program. This also includes two traveler advisory signs.
					This project provides for aerial monitoring services by the Civil Air Patrol
ITMS Field Devices /Support - Incident					(CAP). The CAP provides daily flights morning and evening peak periods and provide information to the TMC on the states of the transportation system to
Management Program	\$20,000.00	\$5,000.00	\$25,000.00	STP	include the impact of incidents such as accidents and disabled vehicles.
TOTAL FY17 PROGRAM	\$4,000,000.00			311	mended the impact of including such as accidents and disabled venicles.

STP	\$2,000,000.00
CMAQ	\$3,000,000.00
TOTAL FY 17 PROGRAM	\$5,000,000,00

Federal Fiscal Year 2016 Obligation Plan State Fiscal Year 2017 Spend

	Federal	State		STP/	
Description	Amount	Amount	Total	CMAQ	Justification
ITMS Planning and Engineering	\$696,000.00	\$174,000.00	\$870,000.00	STP	Planning and Engineering consultant support to provide traffic signal software on-call support, on-call ITS planning and engineering, University of Delaware ITS Lab support, transportation homeland security and emergency management planning support, FCC required WTMC radio engineering, Transportation Management Team (TMT) program support, TMC Technician training, and ITMS related software development and network support.
					Planning and Engineering consultant services to provide traffic signal timing anlysis; ITMS systems design; development of ITMS systems related specifications; ITMS telecommunications system design to support statewide expansion of computerized traffic signal system, transportation system monitoring devices, and travel information systems. Work under this project shall include the review and retiming of signalized corridors statewide, design of microwave vehicle detection system along SR1 in Kent and Sussex Counties, design of 10 computerized signal system sampling detection sites statewide, and design of 4 weather stations. Work will also include the design
ITMS Planning and Engineering	\$960,000.00	\$240,000.00	\$1,200,000.00	CMAQ	of DSRC sites to support connected vehicles.
ITMS/TMC Systems	\$192,000.00	\$48,000.00	\$240,000.00	STP	Provides for purchase of ITMS related Transportation Management Center (TMC) computers and networking equipment, ITMS related software as required to support the continued expansion of the statewide ITMS system, including enhancement of the computerized signal system.
				×	This project is a phase of a multi-year project to implement a fiber optic and wireless based statewide telecommunication system to support connection of facilities and transportation management control, monitoring and information field devices; to include traffic signals, electronic signing, electronic detection, etc. This phase includes the installation/upgrade of five miles of fiber optics at SR 1 / SR 26 to Fenwick, associated network electronics and facilities; wireless based telecommunication system enhancement in Newark and Georgetown; Fiber hub at IRIB, 2 mini hubs in NCC and Sussex, and the purchase of three fiber hub generators. Implementation of broadband microwave and wireless telecommunication system in a portion of Kent and Sussex Counties to support expansion of the ITMS system. 4.9 GHz project in New Castle and Sussex
ITMS Telecommunications	\$800,000.00	\$200,000.00	\$1,000,000.00	CMAQ	counties.
					This project is a phase of a multi-year project to enhance DelDOT's mobile app, including the enhancement of voice recognition, real-time bus arrival information, and user personalization. The mobile app provides traveler information for traffic flow, weather information, and transportation system
ITMS Mobile App	\$332,000.00	\$83,000.00	\$415,000.00	STF	status.
ITMS Field Devices /Support - Traffic Signal System	\$64,000.00	\$16,000.00	\$80,000.00	CMAC	This is a phase of a multi-year project to add all the DelDOT maintained traffic signals to the computerized signal system. This phase will add 50 more signals to the computerized system.
~,~	40 1,000.00	Ψ10,000.00	Ψυυ,υυυ.υυ	Civil	to me comparented of stems

Bike/Ped Pool Spend Plan

Project Name		contract #	Phase	FY16 State	FY16 Federal	FY17 State	FY17 Federal	FY18 State	FY18 Federal	FY19 State	FY19 Federal
West Street Trail		T201330010		\$0.00	\$155,000.00	\$0.00	\$23,000.00	\$122,000.00	\$488,000.00	\$0.00	\$0.00
J&B, Rehoboth		T201330012		\$0.00	\$110,000.00	\$0.00	\$75,000.00	\$56,400.00	\$225,600.00	\$131,800.00	\$527,200.00
Brecknock Trail		T201330011		\$0.00	\$65,000.00	\$0.00	\$45,000.00	\$123,000.00	\$492,000.00	\$0.00	\$0.00
Feasibility Assistance	T/C	T201601801	PRD	\$0.00	\$100,000.00	\$0.00	\$100,000.00	\$0.00	\$0.00	\$0.00	\$0.00
Project Development	T/C	T201601802	PE	\$0.00	\$180,000.00	\$0.00	\$120,000.00	\$0.00	\$0.00	\$0.00	\$0.00
Open End Const. NCC FY16 - FY18		T201630001	i i	\$52,000.00	\$208,000.00	\$192,000.00	\$768,000.00	\$45,000.00	\$180,000.00	\$0.00	\$0.00
Open End Const Kent & Sussex FY16- FY18		T201630002		\$52,000.00	\$208,000.00	\$193,000.00	\$772,000.00	\$45,000.00	\$180,000.00	\$0.00	\$0.00
Senator Bikeway		T201630003		\$28,000.00	\$112,000.00	\$20,000.00	\$80,000.00	\$100,800.00	\$403,200.00	\$43,200.00	\$172,800.00
US 13 sidewalk Improvements		T201601201		\$30,000.00	\$120,000.00	\$19,000.00	\$76,000.00	\$80,000.00	\$320,000.00	\$120,000.00	\$480,000.00
Georgetown to Lewes Phase I		T201230002		\$20,500.00	\$230,000.00	\$0.00	\$1,451,000.00	\$0.00	\$0.00	\$0.00	\$0.00
Open End Const. NCC		T201230007		\$201,879.00	\$1,748,700.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Onen End NCC (lums trailhead)		T201230007		\$70,000.00	\$280,000.00	\$30,000.00	\$120,000.00	\$0.00	\$0.00	\$0.00	\$0.00
Open End Const. Kent & Sussex		T201230008		\$162,000.00	\$1,036,500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Industrial Track R/W		T201330009	1	\$10,000.00	\$40,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Open End Const. Kent		T201430001		\$0.00	\$1,200,700.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Washington Street ADA Improv.		T201601101		\$0.00	\$30,000.00	\$8,000.00	\$32,000.00	\$32,000.00	\$128,000.00	\$40,000.00	\$160,000.00
Georgetown to Lewes Phase II		T201630004	PE	\$240,000.00	\$0.00	\$260,000.00	\$0.00	\$40,000.00	\$160,000.00	\$260,000.00	\$1,040,000.00
				4000 000 00							

Totals \$866,379.00 \$5,823,900.00 \$722,000.00 \$3,662,000.00 \$644,200.00 \$2,576,800.00 \$595,000.00 \$2,380,000.00

	Transportation	Transportation Alternative Program (TAP) FY 2017 Spend Plan	Phase	Estimate	State 2017 spend	Federal 2017 spend
	T201220004	Old Lancaster Pike Bidges	CON	767,000	30,000	315,800
			TRAF			330
			Œ	120,000		50,000
Subtotal		A CONTROL OF THE PROPERTY OF THE PARTY OF TH	Otilities	887.000	30.000	25,000 391 130
0000000	T201220005	Midtown Brandywine	CF.	71,000	4 400	28 400
	-	Triangle of the state of the st	CON	411,000	54,400	110,000
			TRAF	4,200	800	3,400
Subtotal				486,200	59,600	141,800
	T201220008	St. Georges Streetscape II	CE	21,000	4,200	16,800
			CON	415,900	95,900	320,000
			TRAF	1,200	300	900
Subtotal	1000		3	438,100	100,400	337,700
	17007250001	city of wilmington blke Facility	CON	42,000	70 OOO	150 000
			TRAF	1 000	200	008
Subtotal				243,000	50,200	150,800
	T201320003	11th Street Streetscape	PE	95,000		70,000
			CON & CE	460,000	120,000	340,000
			TRAF	2,500	500	2,000
Subtotal				557,500	120,500	412,000
	1201320004	North Street Enhancements	PE	120,000	12,000	48,000
			TRAF	5,000	100,000	420,000.00
Subtotal			-	1.000.000	117.000	468,000
	T201620001	White Clay Creek Bridge	PE	310,000	41,000	164,000
			CON & CE	1,300,000		
			TRAF	2,000		
Subtotal	T201620006	Brandwine South Bod Import	P	1,612,000	41,000	164,000
	10000	trainer) with a second car. Import.	CON & CF	860,000	025,61	11,200
				2,000		
Subtotal				1,002,000	19,320	77,280
	T201620003	St. Georges Streetscape III	PE	110,000	2,000	8,000
			CON & CE	650,000		
			TRAF	2,000		
Subtotal				762,000	2,000	8,000
	T201620002	Concord Avenue Streetscape II	PE	155,000	18,600	74,400
			CON & CE	850,000		
			TRAF	4,000		
Subtotal				1,009,000	18,600	74,400
	T201620010	Old Brandywine Village Improv	PE	150,000	14,000	56,000
			CON & CE	800,000		
			TRAF	2,000		
Subtotal				952,000	14,000	56,000
	T201620007	Wilmington Ped Improvements	PE	150,000	16,500	66,000
			CON & CE	650,000		
			TRAF	2,500		
Subtotal				802,500	16,500	66,000
	8000791071	lown of lownsend Phase II		129,800	16,354	65,419
			TRAF	2,000		
Subtotal			11000	1 031 800	16 354	65 /10
Suprotai				1,051,500	10,354	65,419

	Transportation FV	Transportation Alternative Program (TAP) FY 2017 Spend Plan	Phase	Estimate	State 2017 spend	Federal 2017 spend
	T201620009	Auburn Valley Trail	PE	160,000	16,000	64,000
			CON & CE	750,000		
			TRAF	1,000		
Subtotal				911,000	16,000	64,000
	T201620011	Southbridge Enhancements II	PE	150,000		
			CON & CE	850,000		
			TRAF	2,000		
Subtotal				1,002,000		
	T201620012	DE City Enhancements	PE	150,000		
			CON & CE	700,000		
			TRAF	2,000		
Subtotal				852,000		
	T201620013	9th Street Enhancements II	PE	125,000	15,000	60,000
			CON & CE	875,000		
			TRAF	2,000		
Subtotal				1,002,000	15,000	60,000
	T201620015	R/W Support Service	Planning	150,000		70,000
Subtotal	AND RESIDENTIAL PROPERTY.			150,000		70,000
	NA	Transportation Alternative General		2,453,000	809,000	1,054,000
Subtotal				2,453,000	809,000	1,054,000
	N N	SRTS Program General		2,000,000	100,000	400,000
				2000000	100.000	400 000
Suprotore	T201620014	Walnut Street Design	P	120,000	17,000	68.000
	1201620014	Manut Street Design	ř	120,000	17,000	00,000
Subtotal	San San		STATE OF STATE OF		17,000	68,000
	T01620017	H. Fletcher Brown Park	Planning		6,000	24,000
Subtotal					6,000	24,000
TOTALS				23,296,100	1,801,934	5,915,369

WILMAPCO Annual Listing of Obligated Projects

The Annual Listing of Obligated Projects includes all projects listed in the Transportation Improvement Program (TIP) for which federal funds were obligated during the preceding federal program year by the Delaware Department of Transportation (DelDOT) or Maryland Department of Transportation (MDOT). The Annual Listing is intended to demonstrate transportation spending decisions by providing an accounting for federal funds that have been authorized and committed by the state or designated recipients for expenditure on projects programmed in the TIP. In addition to this introduction, the Annual Listing report includes reports submitted by DelDOT and MDOT. This listing is done to implement the requirement from MAP-21 that Metropolitan Planning Organizations publish an annual listing of obligated projects. Federal transportation law states:

23 CFR 450.332 Annual listing of obligated projects.

- a) In metropolitan planning areas, on an annual basis, no later than 90 calendar days following the end of the program year, the State, public transportation operator(s), and the MPO shall cooperatively develop a listing of projects (including investments in pedestrian walkways and bicycle transportation facilities) for which funds under 23 U.S.C. or 49 U.S.C. Chapter 53 were obligated in the preceding program year.
- b) The listing shall be prepared in accordance with § 450.314(a) and shall include all federally funded projects authorized or revised to increase obligations in the preceding program year, and shall at a minimum include the TIP information under § 450.324(e)(1) and (4) and identify, for each project, the amount of Federal funds requested in the TIP, the Federal funding that was obligated during the preceding year, and the Federal funding remaining and available for subsequent years.
- c) The listing shall be published or otherwise made available in accordance with the MPO's public participation criteria for the TIP.

MDOT FY 2014 Obligated Project Listing

Environmental Projects (Funds 24, 25, 26, 74 and 88)

Route	Description	Obligated Funds	STIP Reference	Contract Num	Approp. Code	Fed Project Num	Phase
	AT VARIOUS LOCATIONS IN DISTRICTS 1 & 2	\$129,881.00	WILMAPCO 3-3; SW 6-1; RU Environmental	AT067B51	M240	000A976	СО
	TC35 - VEGETATION MGMT, NATIVE PLANT EST	\$287,840.00	WILMAPCO 3-3; SW 6-1; RU Environmental	AT091B21	M240	000A898	PE
	TC40-VEGETATION MGMT/SUSTAINABLE LANDSC	\$80,000.00	WILMAPCO 3-3; SW 6-1; RU Environmental	AX197B21	L240	000A833	PE
	SB-LOWER SUSQUEHANNA BYWAY CORR MGMT PL	\$50,000.00	WILMAPCO 3-3	AX238B21	Q970	MD06019	PE
	PERMIT PROCESSING/COMPLIANCE MISC ACTIVI	\$56,448.00	WILMAPCO 3-3; SW 6-1; RU Environmental	AX748B21	Q240	000A457	PE
	SCENIC BYWAYS PROGRAM MANAGEMENT	\$32,000.00	WILMAPCO 3-3; SW 6-1; RU Environmental	AX838B21	L240	0003143	PE
	Total:	\$636,169.00					

Safety and Spot Improvements (Funds 23, 27, 30, 32, 33, 75, 76, 79, 85 and 87)

Route	Description	Obligated Funds	STIP Reference	Contract Num	Approp. Code	Fed Project Num	Phase
US 301	TC35-AT MD299-CCTV CAMERAS-CECILTON WEIG	\$100,778.00	WILMAPCO 3-5	CE400B51	L050	1271056	СО
	STATEWIDE -12 LOCATIONS-TRUCK WEIGHT INSPECTION STATIONS-FULL DEPTH CONCRETE REPAIRS	\$9,345.26	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AX515C15	L050	000A419	PP
MD0279	ELKTON NEWARK ROAD AT MD 545	\$339,911.00	WILMAPCO 3-5	CE383B21	L400	2931006	PE
MD 273	TELEGRAPH ROAD AT MD 272	\$387,892.00	WILMAPCO 3-5	CE384B21	L400	2881008	PE
MD 273	TELEGRAPH ROAD AT MD 213	\$292,767.00	WILMAPCO 3-5	CE385C21	L400	2881009	PE
	ADA COMPLIANCE (RETROFIT) PROGRAM FY 13	\$216,960.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	XX528B21	L230	000A966	PE
	ADA COMPLIANCE (RETROFIT) PROGRAM FY 13	\$941,282.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	XX528B21	M240	000A966	PE
	AUTOMATIC TRAFFIC RECORDS STWD	\$673,302.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AT051B51	M001	000B079	CO
	AUTOMATIC TRAFFIC RECORDS STWD	\$326,698.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AT051C51	M240	000B079	CO
	MOD/SIGNALIZATION OF HIGHWAY LIGHTING	\$2,339.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AT605B51	L240	000A020	СО
	APS/AUDIBLE PEDESTRIAN SIGNALS-PHASE 4	\$560,000.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AT949B52	M240	0003301	СО

Total:	\$14,201,756.60					
TC35 - SIDEWALK RETROFIT PROGRAM	\$1,000,000.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AT093B21	M240	000A902	PE
AT VARIOUS LOACTIONS IN DISTRICT 2	\$497,425.00	WILMAPCO 3-5; RU Safety Spot	XX441B52	MS30	000B076	СО
TDSD/IN-HOUSE TRAFFIC STUDY REVIEW	\$305,034.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AX242B23	LS3E	000A719	PE
PEDESTRIAN SAFETY CAMPAIGN	\$1,395,000.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AW072B11	MS31	000B066	PP
TC11-LOCATIONAL ANALYSIS SAFETY FY12-14	\$1,000,000.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AT834C22	LS3E	000A834	PE
INST/MOD/RECONSTRUCT UPS/TRAFFIC SIGNAL	\$1,000,000.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	XY128B51	M240	000A896	CO
SIGNALS IN DISTRICTS 1 AND 2	\$400,000.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	XX661B51	L24E	000A748	СО
SIGNALS IN DISTRICTS 1 AND 2	\$500,000.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	XX661B51	M232	000A748	СО
TC11-TCD STRU INSP/REMED DESGN FY 12-14	\$884,909.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AX902B21	M240	000A874	PE
85PE CPD CONSULTANT PE	\$100,000.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AX781B21	L050	000A478	PE
85PE TEDD CONSULTANT SIGNAL DESIGN	\$140,136.68	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AX774F22	H240	000A465	PE
85PE TEDD CONSULTANT SIGNAL DESIGN	\$1,538,822.83	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AX774B22	L240	000A465	PE
85PE TEDD INHOUSE SIGNAL DESIGN	\$1,064,541.72	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AX774B21	L240	000A464	PE
85PE TEDD CONSULTANT SIGNING DESIGN	\$100,000.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AX773C22	L240	000A473	PE
85PE TEDD CONSULTANT SIGNING DESIGN	\$352,613.11	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AX773B22	L240	000A473	PE
85PE TEDD INHOUSE SURVEY REVIEWS	\$72,000.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AX769B21	M240	000A469	PE

Resurfacing and Rehabilitation (Fund 77)

Route	Description	Obligated	STIP Reference	Contract	Approp.	Fed	Phase
		Funds		Num	Code	Project Num	
US 40	TC11-MD 213 TO DELAWARE STATE LINE	\$833,749.00	WILMAPCO 3-4	CE326B51	L24E	1251056	СО
US 40	TC11-MD 213 TO DELAWARE STATE LINE	\$1,000,000.00	WILMAPCO 3-4	CE326D51	M240	1251056	CO
MD 282	CECILTON TO MD213-WESTERN CORP TOWN LIMI	\$243,803.00	WILMAPCO 3-4	CE392B51	M230	1280009	СО
MD 282	CECILTON TO MD213-WESTERN CORP TOWN LIMI	\$208,878.00	WILMAPCO 3-4	CE392C51	33C0	1280009	СО
MD 222	TC13-US 40 TO I-95	\$75,750.00	WILMAPCO 3-4	CE394B51	L230	2851008	СО
MD 222	TC13-US 40 TO I-95	\$141,716.00	WILMAPCO 3-4	CE394D51	L23E	2851008	СО
MD 222	TC13-US 40 TO I-95	\$1,127,400.00	WILMAPCO 3-4	CE394F51	M240	2851008	СО
	RESURF VARIOUS LOC IN CECIL COUNTY	\$1,376,463.52	WILMAPCO 3-4	XX907B51	M240	000A282	СО
	RESURF VARIOUS LOC IN CECIL COUNTY	\$593,544.00	WILMAPCO 3-4	XX907B51	Q250	000A282	СО
	TC94-THINLINE THERMOPLASTIC-VAR LOC D1,2	\$1,214,182.00	WILMAPCO 3-4; SW 8-3; RU Resurfacing	XY231B53	M240	000A982	СО

Total:	\$8,771,100.52					
VARIOUS LOCATIONS IN DISTRICTS 1 AND 2	\$1,795,706.00	WILMAPCO 3-4; SW 8-3; RU Resurfacing	XY236B53	MS30	000B060	СО
VARIOUS LOCATIONS IN DISTRICT 2	\$25,000.00	WILMAPCO 3-4; RU Resurfacing	XY232B52	MS32	000A970	СО
TC94-THINLINE THERMOPLASTIC-VAR LOC D1,2	\$134,909.00	WILMAPCO 3-4; SW 8-3; RU Resurfacing	XY231B53	L05E	000A982	CO

Bridge Replacement and Rehabilitation (Fund 80)

Route	Description	Obligated Funds	STIP Reference	Contract Num	Approp. Code	Fed Project	Phase
		Fullus		Nulli	Code	Num	
	TC13-INVERT PAVING/RESTORE 47 STRUCTURES	\$1,000,000.00	WILMAPCO 3-2; SW 9-4; RU Bridge	AT090B51	M001	000B050	СО
	TC13-INVERT PAVING/RESTORE 47 STRUCTURES	\$1,000,000.00	WILMAPCO 3-2; SW 9-4; RU Bridge	AT090C51	M240	000B050	СО
	BRIDGE INSPECTION-STATEWIDE-FY2014 &2015	\$3,760,000.00	WILMAPCO 3-2; SW 9-4; RU Bridge	AW139C1P	M001	000B078	PP
	TC12-BRIDGE INSPECTION PROGRAM-FY 2013	\$881,073.00	WILMAPCO 3-2; SW 9-4; RU Bridge	AW139C2N	M240	000A950	PE
	BRIDGE INSPECTION-STATEWIDE-FY2014 &2015	\$3,760,000.00	WILMAPCO 3-2; SW 9-4; RU Bridge	AW139D1P	M240	000B078	PP
	SMALL STRUCTURE INSPECTIONS STWD-FY 2012	\$34,672.00	WILMAPCO 3-2; SW 9-4; RU Bridge	AW140B2M	L24E	000A828	PE
	TC-INVERT PAVING/REPAIR VAR STRUCTURES	\$140,624.13	WILMAPCO 3-2; SW 9-4; RU Bridge	AX194B51	M240	000A795	СО
	VAR BRIDGE STRUCTURAL EVALUATION/TESTING	\$282,240.00	WILMAPCO 3-2; SW 9-4; RU Bridge	AX971B21	L240	000A612	PE
	Total:	\$10,858,609.13					

Congestion Management (Funds 81 and 86)

Route	Description	Obligated Funds	STIP Reference	Contract Num	Approp. Code	Fed Project Num	Phase
	CHART SUPPORT FOR CAPWIN FY 13-14	\$336,000.00	WILMAPCO 3-12; SW 11-6; RU Congestion Management	AT441B22	M240	0003334	PE
	TC70-CHART RWIS UPGRADE	\$221,171.61	WILMAPCO 3-12; SW 11-6; RU Congestion Management	AT620B52	L05E	000A826	СО
	TC11-CATT LAB OPERATION SUPPORT FY 12-14	\$350,000.00	WILMAPCO 3-12; SW 11-6; RU Congestion Management	AX103B2B	L240	0003212	PE
	TC11-CATT LAB OPERATION SUPPORT FY 12-14	\$500,000.00	WILMAPCO 3-12; SW 11-6; RU Congestion Management	AX103C2B	L240	0003212	PE
	TC11-TECH SUPPORT FOR CHART ITS FY 12-14	\$57,654.00	WILMAPCO 3-12; SW 11-6; RU Congestion Management	AX104C2B	H240	0003213	PE

	Total:	\$16,092,740.68					
			Management				
CHART SYSTEM DEVELOPMENT FY 13-14		\$1,950,000.00	•	SD104D93	LZ20	0003258	Other
S.M. W. S. STEIN DEVELOT MENT 11 13 14		¥1,230,000.00	Management	3510-033	2210	0003230	Other
CHART SYSTEM DEVELOPMENT FY 13-14		\$1 250 000 00	Management WILMAPCO 3-12; SW 11-6; RU Congestion	SD104C93	LZ10	0003258	Other
CHART SYSTEM DEVELOPMENT FY 13-14		\$300,000.00	WILMAPCO 3-12; SW 11-6; RU Congestion	SD104C93	LZ10	0003258	Other
			Management				
CHART SYSTEM DEVELOPMENT FY 13-14		\$2,700,000.00	WILMAPCO 3-12; SW 11-6; RU Congestion	SD104B93	LZ1E	0003258	Other
Civiliti Wisi Stailing and Support 1 13-13		Ç033,303.00	Management	AA737023	1412-40	0003201	1 L
CHART - MSP Staffing and Support FY 13-15		\$659 565 00	Management WILMAPCO 3-12; SW 11-6; RU Congestion	AX757B23	M240	0003261	PE
CHART Operation Centers Staffing Support		\$500,000.00	WILMAPCO 3-12; SW 11-6; RU Congestion	AX257B61	L24E	3114044	Other
			Management				
CHART SUPPORT FOR MATOC FY 13-14		\$540,000.00	WILMAPCO 3-12; SW 11-6; RU Congestion	ZY103B21	M240	0003259	PE
S.W.W. ELYGED CINCOTTS I TO 14		Ç27 1 ,150.00	Management	700750121	11770	0003114	
CHART LEASED CIRCUITS FY 10-14		\$274.196.00	Management WILMAPCO 3-12; SW 11-6; RU Congestion	AX790F21	H770	0003114	PE
CHART LEASED CIRCUITS FY 10-14		\$0.41	WILMAPCO 3-12; SW 11-6; RU Congestion	AX790C21	Q760	0003114	PE
		**	Management				
CHART LEASED CIRCUITS FY 10-14		\$487,188.59	WILMAPCO 3-12; SW 11-6; RU Congestion	AX790B21	L240	0003114	PE
		+ 2,000,200.00	Management To your Early St. Tr. St. T	, 23 223		0000211	. =
TC11-CHART SYSTEM NETWORK ENGR FY12-	-16	\$1.090.260.00	WILMAPCO 3-12; SW 11-6; RU Congestion	AX789C23	LZ2E	0003211	PE
TC11-CHART SYSTEM NETWORK ENGR FY12-	-16	\$3,035,000.00	WILMAPCO 3-12; SW 11-6; RU Congestion Management	AX789B23	L24E	0003211	PE
TOTAL CHART CYCTEM NETWORK ENGO, 5140	16	¢2 025 000 00	Management	AV700D22	1245	0002244	DE
CHART SUPPORT SERVICES - BCS 2007-06C		\$208,000.00	WILMAPCO 3-12; SW 11-6; RU Congestion	AX626B21	L240	3114039	PE
		. ,	Management				
CHART SUPPORT SERVICES - BCS 2007-06B		\$160,000.00	WILMAPCO 3-12; SW 11-6; RU Congestion	AX625B21	L240	3114038	PE
CHART SUPPORT SRV- BCS 2007-06A		\$160,000.00	WILMAPCO 3-12; SW 11-6; RU Congestion Management	AX624B21	L240	3114037	PE
CHART CHEROPT CRIVER DCC 2007 OCA		¢4.60.000.00	Management	AVC24B24	1240	2444027	DE
CHART PERFORMANCE EVALUATION CY13-1	5	\$308,448.00	WILMAPCO 3-12; SW 11-6; RU Congestion	AX124B1B	M240	0003321	PP
1011 12013011 0KT 10K CII/KKT 11311 12 1		71,003,237.07	Management To, No congestion	717104828	1112-10	0003213	
TC11-TECH SUPPORT FOR CHART ITS FY 12-1	4	\$1 005 257 07	WILMAPCO 3-12; SW 11-6; RU Congestion	AX104D2B	M240	0003213	PE

Other Projects

Route	Description	Obligated Funds	STIP Reference	Contract Num	Approp. Code	Fed Project Num	Phase
	LOWER SUSQUEHANNA BYWAY CORRIDOR MGMT	\$8,156.00	WILMAPCO 3-3	AX286B26	L970	MD06019	PE

I-95 CC SUPPORT FOR ITS-MCOM YEAR 2	\$3,560,000.00	WILMAPCO 3-12	AX350B2B	LT2E	0003329	PE
RECREATIONAL TRAILS FY 14 PROJECTS	\$1,112,384.00	WILMAPCO 3-3; SW 6-1; RU Environmental	AX688B24	M940	0003340	PE
RECREATIONAL TRAILS FY 14 PROJECTS	\$245,463.00	WILMAPCO 3-3; SW 6-1; RU Environmental	AX688C54	H940	0003340	СО
I-95 CC MULT-STATE MODEL ANALYSIS	\$65,000.00	WILMAPCO 3-12	AX791B22	5L50	0003329	PE
I-95 CC MULT-STATE MODEL ANALYSIS	\$100,000.00	WILMAPCO 3-12	AX791C22	5L5E	0003329	PE
SB0605 BLUE CRAB BYWAY MANAGEMENT-YEAR 1	\$13,644.00	WILMAPCO 3-3; SW 6-1; RU Environmental	AX863B22	L970	MD06020	PE
SAFE ROUTE TO SCHOOL-PLN OF INFRAST PJT	\$509,120.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AT011B11	LU3E	0003339	PP
FUEL TAX AUDITING & ACTIVITIES ENFORCE	\$5,000.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AX019B91	L96E	PTE2013	Other
SAFE ROUTES TO SCHOOLS COORDINATOR	\$101,557.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AX352B22	LU10	0003232	PE
SAFE ROUTES TO SCHOOLS COORDINATOR	\$148,179.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AX352C22	LU3E	0003232	PE
SAFE ROUTES TO SCHOOL - GRANT F	\$3,330,915.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	AX933B52	LU2E	0003338	СО
SAFE ROUTES TO SCHOOL COORDINATOR&SRTS	\$69,808.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	HS193B21	LU3E	0001875	PE
MD STRATEGIC HWY SAFETY PLAN 2011-2014	\$217,601.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	HS207B23	LS3E	000A888	PE
PED/BIKE SAFETY PROGRAM - FY 13	\$414,500.00	WILMAPCO 3-5; SW 7-2; RU Safety Spot	HS207B25	MS32	0003279	PE
CHART IN-HOUSE STAFF FOR FY 2014	\$7,000,000.00	WILMAPCO 3-12; SW 11-6; RU Congestion	AT040B61	M240	3114048	Other
CHART VEHICLES FOR FY 2014 - OPERATIONS	\$2,000,000.00	Management WILMAPCO 3-12; SW 11-6; RU Congestion Management	AX280B63	M240	0003302	Other
CHART OPERATIONS FY 2013	\$1,456,443.00	WILMAPCO 3-12; SW 11-6; RU Congestion Management	AX335B61	M240	3114047	Other
TC11-LEGACY PAVEMENT IMP-DIST 2/DIST 4	\$183,939.42	60-9509-38	AX264B51	LZ2E	000A805	СО

iotai:	\$20,541,709.42
Grand Total:	\$71.102.085.35

^{*} This information is based on the State Fiscal Year 2014 (July 2013 to June 2014)

^{**}The above report is intended to represent a snapshot of the Federal funds obligated to the specified project within the aforementioned fiscal year. The information above is collected from Federal Highway FMIS System. SHA Program Development Division only compiles the report.

^{***}STIP created prior to 2010. Unable to locate

DelDOT FY 2014 Obligated Project Listing

STATE PROJECT	PROGRAM FEDERAL	APPORT	PROJECT			FED \$
NUMBER	FUNDS	CODE	TITLE	REASON	STIP	AUTH
HOWBER	<u>101123</u>	M400	BIKE PEDESTRIAN	PE,ROW,CONS	<u> </u>	576,464
		M400	BIKE PEDESTRIAN TOLL CREDITS	PE,ROW,CONS		172,116
		M400	BIKE PEDESTRIAN	PE,ROW,CONS		280,744
05-10006	12,000,000	M001	BRIDGE PRESERVATION	PE,ROW,CONS		13,558
05-10006	-	M233	BRIDGE PRESERVATION	PE,ROW,CONS		398,600
05-10003	2,400,000	M001	BRIDGE MANAGEMENT	PE,ROW,CONS		400,000
05-10003 M233		M233	BRIDGE MANAGEMENT	PE,ROW,CONS	Revised 11/6/13	280,000
		M233	BRIDGE INSPECTION	PE		400,000
		M233	BRIDGE INSPECTION TOLL CREDITS	PE		100,000
		M001	BRIDGE INSPECTION	PE		586,460
		M001	BRIDGE INSPECTION TOLL CREDITS	PE		146,615
	450,000		STRUCTURE REHABILITATION OPEN END NORTH	CONS		360,000
			STRUCTURE REHABILITATION OPEN END NORTH TOLL CREDITS	CONS		90,000
	450,000		STRUCTURE REHABILITATION OPEN END CANAL	CONS		360,000
			STRUCTURE REHABILITATION OPEN END CANAL TOLL CREDITS	CONS		90,000
	150,000	M233	STRUCTURE REHABILITATION OPEN END CENTRAL	CONS		120,000
		M233	STRUCTURE REHABILITATION OPEN END CENTRAL TOLL CREDITS	CONS		30,000
	150,000	M233	STRUCTURE REHABILITATION OPEN END SOUTH	CONS	CONS	
		M233	STRUCTURE REHABILITATION OPEN END SOUTH TOLL CREDITS	CONS		30,000
T201207401	24,000	L110	BR1-032 ON N203 FOULK ROAD OVER SOUTH BRANCH	ROW		24,000
T201207401		L110	BR1-032 ON N203 FOULK ROAD OVER SOUTH BRANCH TOLL CREDITS	ROW		6,000
	14,400	L1CE	BR1-112 ON N257 YORKLYN ROAD OVER RED CLAY CREEK	ROW		
T201207101		L110	BR1-159 ON JAMES STREET OVER CHRISTINA RIVER	PE	MOD 4/25/14	280,000
T201207101		M233	BR1-159 ON JAMES STREET OVER CHRISTINA RIVER	ROW	ADDED 2/15	184,000
T201207101		M233	BR1-159 ON JAMES STREET OVER CHRISTINA RIVER	CONS	Update 6/24	1,600,000
T201207101		M001	BR1-159 ON JAMES STREET OVER CHRISTINA RIVER	CONS	Update 6/24	2,400,000
T201207101		L11E	BR1-159 ON JAMES STREET OVER CHRISTINA RIVER TOLL CREDITS	CONS	Update 6/24	1,000,000
T201407402		M233	BR 1-191 ON N318 MILLTOWN ROAD OVER MILL CREEK	PE	PNR ADDED 4/26/13	12,600
	28,000	M240	BR 1-227 ON N013 PAPER MILL ROAD OVER MIDDLE RUN TRIBUTARY	PE	Update 6/24	
T201307103		M001	BR 1-229B ON SR2 KIRKWOOD HIGHWAY OVER WHITE CLAY CREEK	ROW	Update 6/24	27,200
T201307103		M001	BR 1-229B ON SR2 KIRKWOOD HIGHWAY OVER WHITE CLAY CREEK TOLL CREDITS	ROW	Update 6/24	6,800

STATE PROJECT	PROGRAM FEDERAL	APPORT	PROJECT			FED \$
<u>NUMBER</u>	<u>FUNDS</u>	CODE	<u>TITLE</u>	REASON	<u>STIP</u>	AUTH
	37,840	M240	BR 1-239 ON N352 RED MILL ROAD OVER TRIBUTARY TO WHITE CLAY CREEK	PE	Update 6/24	
T201307102		L11E	BR 1-254 ON N350 OLD NEWARK ROAD OVER COOL RUN	ROW	Update 6/24	20,000
T201207102		M240	BR1-274 ON N312 WEDGEWOOD RD.	CONS	Update 6/24	734,400
T201207102		M240	BR1-274 ON N312 WEDGEWOOD RD. TOLL CREDITS	CONS	Update 6/24	183,600
T201407103	29,040	M240	BR 1-291 ON SONGSMITH DR OVER TRIBUTARY TO SMALLEY'S POND	PE	Update 6/24	
T201307401		M001	BR 1-393 ON SR299 MAIN STREET OVER APPOQUINIMINK RIVER	PE		32,000
		M001	BR 1-393 ON SR299 MAIN STREET OVER APPOQUINIMINK RIVER TOLL CREDITS	PE		8,000
T201307401		M240	BR 1-393 ON SR299 MAIN STREET OVER APPOQUINIMINK RIVER	ROW		22,400
T201307401		M240	BR 1-393 ON SR299 MAIN STREET OVER APPOQUINIMINK RIVER TOLL CREDITS	ROW		5,600
T201207103	37,840	M233	BR 1-438 ON N463 BLACKBIRD STATION ROAD OVER BLACKBIRD CREEK	PE		
T200907403		L1C0	BR 1-501, 1-501A & 1-501B SR 141 VIADUCT OVER SR4	CONT INCREASSE	STIP MOD	150,064
T201207103	28,000	L1CE	BR1-543 ON N213 CARR ROAD OVER SHELLPOT CREEK	PE		29,600
T201207103		L1CE	BR1-543 ON N213 CARR ROAD OVER SHELLPOT CREEK TOLL CREDITS	PE		7,400
T201307101		L11E	BR 1-567A ON N501 HAY ROAD OVER SHELLPOT CREEK, CITY OF WILMINGTON	ROW		24,000
T201407403	8,000	L100	BR 1-577 ON N050 NORTHEAST BLVD OVER BRANDYWINE RIVER	PE	Updated 5/23/14 with new PE estimate	408,000
T201407403	8,000	L100	BR 1-577 ON N050 NORTHEAST BLVD OVER BRANDYWINE RIVER TOLL CREDITS	PE	Update 5/30/14	102,000
T201407403	8,000	L1CE	BR 1-577 ON N050 NORTHEAST BLVD OVER BRANDYWINE RIVER	ROW	Update 5/30/14	
T201007402		L1C0	BR1-585 ON AUGUSTINE CUTOFF	CONS		2,407,200
T201107401		M001	BR1-665N & 1-665S ON US 13 OVER	CONS	Update 5/7/14 STIP MOD	561,636
T201107401		M001	BR1-665N & 1-665S ON US 13 OVER	CONVERT	Update 6/24	1,328,800
T201107401		M001	BR1-665N & 1-665S ON US 13 OVER TOLL CREDITS	CONVERT	Update 6/24	332,200
T201407105		M001	BR 1-680 ON SR141 OVER US13	PE	STIP MOD 9/12/14	436,000
T201407105	924,000	L1CE	BR 1-680 ON SR141 OVER US13	PE	Update 6/24	
T201407107		ER90	BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY REPAIRS	PE	ADDED 6/4/14	2,000,000
T201407107		ER90	BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY REPAIRS	CONS	ADDED 7/3/14	330,000
T201407107		M001	BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY REPAIRS	CONS	ADDED 7/3/14	13,500,000
T201407401		M233	BR 1-814 ON N009 12TH STREET OVER NORFOLK SOUTHERN RR	ROW	per 5/23/14 mtg: 0 ROW	26,400

STATE PROJECT <u>NUMBER</u>	PROGRAM FEDERAL <u>FUNDS</u>	APPORT CODE	PROJECT <u>TITLE</u>	<u>REASON</u>	STIP needed PNR ADDED 4/26/13	FED \$ <u>AUTH</u>
T201107402		M001	BR1-826 N & S	CONS		1,840,000
T201107402		M001	BR1-826 N & S TOLL CREDITS	CONS		460,000
	100,000	L480	DISADVANTAGED BUSINESS ENTERPRISE			267,313
		M439	EDUCATION AND TRAINING	CONVERT	New code	64,366
	8,000	M240	ENVIRONMENTAL IMPROVEMENTS	ENV		18,000
	200,000	LS20	SAFETY IMPROVEMENT PROGRAM RURAL ROADS	PE,ROW,CONS		250,000
		LS20	SAFETY IMPROVEMENT PROGRAM RURAL ROADS TOLL CREDITS	PE,ROW,CONS		27,778
	2,200,000	MS30	SAFETY IMPROVEMENT PROGRAM	PE,ROW,CONS		1,790,627
	244,444	MS30	SAFETY IMPROVEMENT PROGRAM TOLL CREDITS	PE,ROW,CONS		198,958
	2,200,000	MS30	HIGHWAY SAFETY IMPROVEMENT PROGRAM, 11407,4050,3200	PE,ROW,CONS		5,135,000
	3,035,000	MS30	HSIP	CONS		
	2,265,000	MS31	SEC 154 PENALTIES-FOR HSIP	PRO	ADD 7/29/14	723,474
T200800702		MS30	CHURCHMANN'S ROAD - CHRISTIANA HOSPITAL TO SR 1	ROW	Update 7/25/14	18,000
T200800702		MS30	CHURCHMANN'S ROAD - CHRISTIANA HOSPITAL TO SR 1 TOLL CREDITS	ROW	Update 7/25/14	2,000
14-77712	260,000	M230	CITY OF NEW CASTLE INTERSECTIONS	PD	ADDED 8/23/13	
T200809001	40,000	M001	I-95 CARR ROAD AND MARSH ROAD	ROW		40,000
T200809001		M001	I-95 CARR ROAD AND MARSH ROAD TOLL CRDITS	ROW		10,000
		L030	LEA BOULEVARD - TATNALL STREET TO MARKET STREET	CONS		1,440,000
		MS30	MILL CREEK AND STONEY BATTER ROAD	CONS		1,700,000
T201200106		MS30	SALEM CHURCH ROAD AT CHRISTIANA HIGH SCHOOL	ROW	Update 6/21	9,000
T201200106		M240	SALEM CHURCH ROAD AT CHRISTIANA HIGH SCHOOL	CONS		240,000
T201200106		M240	SALEM CHURCH ROAD AT CHRISTIANA HIGH SCHOOL TOLL CREDITS	CONS		60,000
	45,000		SR 2 AND CLEVELAND AVENUE INTERSECTION IMPROVEMENTS	PE		
T201200701	135,000	M001	SR2 PIKE CREEK ROAD TO WOODMILL DRIVE	ROW		120,000
T201200701		M001	SR2 PIKE CREEK ROAD TO WOODMILL DRIVE TOLL CREDITS	ROW		30,000
T201200108	90,000	M240	SR72 AND OLD BALTIMORE PIKE INTERSECTION	ROW		80,000
T201200108	F F00 000	M240	SR72 AND OLD BALTIMORE PIKE INTERSECTION TOLL CRDITS	ROW		20,000
T200000704	5,580,000	L240	SR273 AND HARMONY ROAD INTERSECTION	CONS		450,000
T200900704		LS3E	SR 273, APPLEBY AND AIRPORT ROAD	ROW		450,000
T200900704	040.000	LS3E	SR 273, APPLEBY AND AIRPONT ROAD	CONS		1,870,000
T201200102	918,000 16,000	LS3E M001	SR273 INTERSECTION IMPROVEMENTS	CONS ROW	X'd 8/22/13	1,870,000
T201200102	16,000	MOOT	SR 7 AT SKYLINE DRIVE/MERMAID STONEY BATTER ROAD	KUW	λ α δ/ 22/13	16,000

STATE PROJECT	PROGRAM FEDERAL	APPORT	PROJECT			FED \$
<u>NUMBER</u>	<u>FUNDS</u>	CODE	<u>TITLE</u>	<u>REASON</u>	STIP	<u>AUTH</u>
T201200102		M001	SR 7 AT SKYLINE DRIVE/MERMAID STONEY BATTER ROAD TOLL CREDITS	ROW	now NP	4,000
T201200102	600,000	M001	SR 7 AT SKYLINE DRIVE/MERMAID STONEY BATTER ROAD	CONS	Update 6/24	680,000
T201200102	000,000	M001	SR 7 AT SKYLINE DRIVE/MERMAID STONEY BATTER ROAD TOLL CREDITS	CONS	Update 6/24	170,000
1201200102		LZ20	SR7 AND VALLEY ROAD INTERSECTION	CONS	opulate of 2 :	716,000
T201000701		M230	SR71, OLD PORTER ROAD TO SR 7	PE	Update 6/24 Update	45,000
T201000701		M230	SR71, OLD PORTER ROAD TO SR 7	ROW	9/8/14 (inc SIP MOD) Update	600,000
T201000701		M230	SR71, OLD PORTER ROAD TO SR 7 TOLL CREDITS	ROW	9/8/14 (inc SIP MOD)	150,000
	1,170,000	MS30	SR896 AND OLD CHESTNUT HILL ROAD INTERSECTION	CONS	STIP MOD REVISED	1,183,777
	540,000	MS30	SR896 AND PORTER ROAD INTERSECTION	CONS	11/27/13bg MOD	956,628
T201200104	45,000	M001	US 40 AND SR7 INTERSECTION IMPROVEMENTS	PE		40,000
T201200104		M001	US 40 AND SR7 INTERSECTION IMPROVEMENTS TOLL CREDITS	PE		10,000
T201200105	450,000	M240	OLD BALTIMORE PIKE AND SALEM CHURCH ROAD	ROW	Update 6/25	240,000
T201200105		M240	OLD BALTIMORE PIKE AND SALEM CHURCH ROAD TOLL CREDITS	ROW	Update 6/25	60,000
T201300102	NEW	MS30	HEP, 1495 AT PHILADELPHIA PIKE	ROW		45,000
T201300101	NEW	M240	HEP, US40 AT GLASGOW AVENUE	ROW		80,000
T201300101		M240	HEP, US40 AT GLASGOW AVENUE TOLL CREDITS	ROW		20,000
T200800901		MS30	US 9 (HSIP) CONS	CONVERT		4,053,086
T200800901		MS30	US 9 (HSIP) CONS TOLL CREDITS	CONVERT		450,343
T200512102		M230	CHRISTINA RIVER BRIDGE AND APPROACHES	PE		720,000
T200512102		M230	CHRISTINA RIVER CROSSING TOLL CREDITS	PE		180,000
T200512102		HY20	CHRISTINA RIVER CROSSING	ROW	br pres	3,421,892
T200512102		LY20	CHRISTINA RIVER CROSSING	ROW	br pres	5,538,108
T200512102		LY20	CHRISTINA RIVER CROSSING TOLL CREDITS	ROW		2,240,000
T200512102		M230	CHRISTINA RIVER BRIDGE AND APPROACHES	CONS		1,138,792
T200512102		L23E	CHRISTINA RIVER BRIDGE AND APPROACHES	CONS		3,192,927
T200512102		LY20	CHRISTINA RIVER BRIDGE AND APPROACHES	CONS	ADDED 3/14	5,668,281
T201309002	80,000	M001	CAVALIERS MITIGATION	PE	ADD 6/14 Removed	28,000
T201309002	1,200,000	M001	CAVALIERS MITIGATION	CONS	4/10/14, FY15 ADD	
		M001	I-95 AND SR141 RAMPS G & F IMPROVEMENTS TOLL CREDITS	CONS		1,600,000
		M001	I-95 AND SR141 RAMPS G & F IMPROVEMENTS TOLL CREDITS	CONS		400,000

STATE PROJECT <u>NUMBER</u>	PROGRAM FEDERAL <u>FUNDS</u>	APPORT CODE M240 M240 M001	PROJECT TITLE INTERSECTION IMPROVEMENTS INTERSECTION IMPROVEMENTS TOLL CREDITS INTERSTATE ROADWAY LIGHTING	REASON CONS CONS CONVERT	<u>STIP</u>	FED \$ <u>AUTH</u> 800,000 200,000 930,000
	170,000	M438	PLANNING - LOCAL TRANSPORTATION ASSISTANCE PROGRAM	PLAN		140,000
	1,472,635 90,642	M450 LT30	PLANNING - METROPOLITAN PLANNING ORGANIZATION /FHWA MOTOR FUEL TAX COMPLIANCE AND ANTI TAX EVASION	PLAN PRO	See PNR	1,695,391
T201409001		M001	INTERSTATE OPEN END LIGHTING	CONS	dated 12/10/13 See PNR	1,800,000
T201409001		M001	INTERSTATE OPEN END LIGHTING TOLL CREDITS	CONS	dated 12/10/13	200,000
T201303401		M001	INTERSTATE MAINTENANCE DRAINAGE REPAIR, FY14-FY16, OPEN-END	CONVERT	ADDED 10/3/13	820,322
		M001	INTERSTATE STRUCTURAL MAINTENANCE, OPEN END, FY12-13	CONT INCREASSE	STIP MOD	220,627
		M001	INTERSTATE STRUCTURAL MAINTENANCE	CONS		218,050
		M001	INTERSTATE STRUCTURAL MAINTENANCE TOLL CREDITS	CONS		139,450
	12 000 000	L24E	ON THE JOB TRAINING SUPPORTIVE SERVICES	CONC		73,511
	12,800,000	M230	PAVEMENT REHABILITATIONS	CONS		1,490,000
		M231	PAVEMENT REHABILITATIONS	CONS CONS		3,569,133
		M230 M232	PAVEMENT REHABILITATIONS PAVEMENT REHABILITATIONS	CONS		484,673 3,448,664
		M240	PAVEMENT REHABILITATIONS PAVEMENT REHABILITATIONS	CONS		1,880,206
			FAVEWENT REHADILITATIONS	CONT		, ,
T201206201		L20E	PAVEMENT & REHABILITATION, SOUTH I-I, 2012	INCREASSE		32,597
	120,000	41TE		CONS	ADD 6/18	
		M001	PAVEMENT REHABILITATIONS	CONS		4,133,496
T201206105		M230	PAVEMENT & REHABILITATION, NORTH V, 2012	CONS		3,000,000
	1,975,000	M550	PLANNNING - STATEWIDE & REGIONAL PLANNING	PLAN		1,481,659
	596,900	M560	PLANNNING - STATEWIDE & REGIONAL PLANNING	PLAN		310,644
T201466001		L550	SPR PLANNING PROGRAM 2014	PLAN	STIP MOD	776,000
		LS5E	RAIL CROSSING SAFETY	PD		67,500
	550,000	LS40	RAIL CROSSING SAFETY	CONS		
	61,111	LS40	RAIL CROSSING SAFETY TOLL CREDITS	CONS		
		MS50	RAIL CROSSING SAFETY	CONS		85,795
	550,000	MS50	RAIL CROSSING SAFETY TOLL CREDITS	CONS		52,520
T201500513		LS4E	RAILROAD PRELIMINARY ENGINEERING SERVICES	PE	STIP MOD	50,000

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T201500513		LS5E	RAILROAD PRELIMINARY ENGINEERING SERVICES	PE	STIP MOD 9/16	50,000
T201500508		LS5E	PIGEON POINT ROAD (N-377) RAILROAD CROSSING SAFETY IMPROVEMENTS	RAIL ROAD	STIP MOD 9/16	271,000
	854,068	L94E	REC TRAILS			676,410
		M940	RECTRAILS			169,103
	99,000	LU1E	SAFE ROUTES TO SCHOOL	PLAN		
	693,000	LU2E	SAFE ROUTES TO SCHOOL	CONS		68,043
	198,000	LU3E	SAFE ROUTES TO SCHOOL	CONS		73,000
		L97E	SCENIC BYWAYS			840,500
	800,000	M001	SIGNAGE & PAVEMENT MARKINGS	CONS		800,000
		M001	SIGNAGE & PAVEMENT MARKINGS TOLL CREDITS	CONS		200,000
T200504110	42,381	L49E	TECHNOLOGY - SUMMER INTERN PROGRAM			44,960
T201304601	10,000,000	M230	N54 HOWELL SCHOOL ROAD	CONS	STIP MOD	83,161
T201304601		M232	PARK AVENUE RELOCATION	PD		800,000
T201304601		M232	PARK AVENUE RELOCATION TOLL CREDITS	PD		200,000
T201009003		M232	PARK AVENUE RELOCATION	PE	ADDED 10/24/13 w MOD	200,000
T201009003		M001	ROAD A / SR 7 IMPROVEMENTS	PE	UPDATED 8/29/13	1,200,000
T201309003		M001	ROAD A / SR 7 IMPROVEMENTS	PE	UPDATED 8/29/13	300,000
T201009002		M001	ROAD A / SR 7 IMPROVEMENTS	CONT INCREASSE	STIP MOD 9/17	331,413
T200511001		M001	SR1 FROM TYBOUTS CORNER TO SR273	PE	Update 6/21	4,800,000
T200511001	800,000	M001	SR1 FROM TYBOUTS CORNER TO SR273	ROW		
	200,000	M001	SR1 FROM TYBOUTS CORNER TO SR273 TOLL CREDITS	ROW		
T200410301		L050	SR1 TRUCK WEIGH STATION	CONS		
		L23E	SR 4, CHRISTINA PARKWAY FROM SR 2, ELKTON ROAD TO SR 896, SOUTH COLLEGE AVENUE, NEWARK	PE	Update 8/29	185,931
	1,840,000	M240	SR 72, MCCOY ROAD TO SR 71	ROW		800,000
		M240	SR 72, MCCOY ROAD TO SR 71	ROW		200,000
		L230	SR141 - SR2 KIRKWOOD HGY TO FAULKLAND RD	LANDSCAPING		600,000
	360,000	M400	RIDESHARE - TRANSPORTATION MANAGEMENT IMPROVEMENTS	PLAN		360,000
T201350302		M400	40' HEAVY DUTY LOW FLOOR BUSES	CONVERT	veh	3,815,353
T201350302		L40E	40' HEAVY DUTY LOW FLOOR BUSES	CONVERT	veh	3,880,546
T201350302		Q400	40' HEAVY DUTY LOW FLOOR BUSES	CONVERT	veh	1,042,489

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T201350302	FUNDS	L400	40' HEAVY DUTY LOW FLOOR BUSES	CONVERT	veh	1,107,932
T201350302		M400	40' HEAVY DUTY LOW FLOOR BUSES TOLL CREDIT	CONVERT	veh	2,461,580
09-18004	712,880	M400	30" LOW FLOOR EXPANSION DOVER/REHOBOTH	PRO	UPDATED 7/2/14	
09-18004		M400	30" LOW FLOOR EXPANSION DOVER/REHOBOTH TOLL CREDITS	PRO	UPDATED 7/2/14	178,220
		LZ1R	40' HEAVY DUTY LOW FLOOR BUSES	CONVERT		-
		L40E	40' LOW FLOOR DOVER/REHOBOTH EXPRESS	PRO		712,880
07-22412	1,429,300	L400	TRANSIT VEHICLE EXPANSION (2) 45' OTR BUS - SR 141 CROSSTOWN FY18	PRO	UPDATED 7/2/14	735,600
13-11017	356,480	M400	TRANSIT VEHICLE EXPANSION (1) 30' LOW FLOOR TRANSIT ROUTE 203 FY15		UPDATED 7/2/14	
		Q220	TRANSPORTATION ENHANCEMENTS - FHWA			28,949
		H220	TRANSPORTATION ENHANCEMENTS - FHWA TOLL CREDITS			8,877
	3,400,000	M300	TRANSPORTATION ENHANCEMENTS - FHWA			164,285
	750,000	M300	TRANSPORTATION ENHANCEMENTS - FHWA TOLL CREDITS			56,441
		L22R	TRANSPORTATION ENHANCEMENTS - FHWA			63,720
		L22R	TRANSPORTATION ENHANCEMENTS - FHWA TOLL CREDITS			133,084
	4,240,000	M400	TRANSPORTATION MANAGEMENT IMPROVEMENTS			3,000,000
		M240	TRANSPORTATION MANAGEMENT IMPROVEMENTS TOLL CREDITS			1,870,000
		disc	TRANSPORTATION MANAGEMENT IMPROVEMENTS			2,000,000
		M240	TRANSPORTATION MANAGEMENT IMPROVEMENTS			1,600,000
	7,000,000	L230	US 13, PHILADELPHIA PIKE, CLAYMONT TRANSPORTATION PLAN IMPLEMENTATION	CONS		
T201011303		M001	US 301, GARVEE DEBT SERVICE	DEBT		10,986,513
	3,600,000	L230	WASHINGTON STREET NEW CASTLE	UNAC		1,200,000
T200201104		L23E	WASHINGTON STREET NEW CASTLE	STIP MOD	ADDED 1/16	409,480
T200201104		L23E	WASHINGTON STREET NEW CASTLE	STIP MOD	ADDED 1/30	215,056
T200201104		M230	WASHINGTON STREET NEW CASTLE	STIP MOD	ADDED 8/6/14	732,149
	(5,000,000)		RELEASES			(249,274)
			RELEASES			(331,587)
		L24E	SR 9, DELAWARE AVENUE	ROW		600,000
	-	L24E	SR 9, NEW CASTLE AVE., 3RD STREET TO HEALD STREET	PE		800,000
	400,000	L230	SR 2 ELKTON ROAD - CASHO MILL ROAD TO DELAWARE AVENUE	UNAC		5,000,000
	19,000,000	L230	SR 2 ELKTON ROAD - MD LINE TO CASHO MILL RD	UNAC		
	2 600 000	14220	SR 2, SOUTH UNION STREET FROM RAILROAD BRIDGE TO SYCAMORE STREET,	CONVERT		2 1 4 1 7 7 9
T200401102	3,600,000	M230	WILMINGTON	CONVERT		2,141,778

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			WILMINGTON TOLL CREDITS			
		L23E	SR141 AND COMMONS BOULEVARD INTERSECTION IMPROVEMENTS	PE	2/18 MOD to FY13	440,000
	2,790,000	L010	SR141/I-95 INTERCHANGE	PE		480,000
T200809003		L05E	SR1/I-95 INTERCHANGE	CONVERT	ADDED 10/2 from STIP MOD	1,993,840
T200809003		M001	SR1/I-95 INTERCHANGE	STIP MOD	ADDED 2/26	1,224,335
	6,800,000	L05E	I- 95/US202 INTERCHANGE	CONVERT	Updated 7/10/14	2,620,371
	2,000,000	L230	I- 95/US202 INTERCHANGE	CONVERT		
T200510602		M001	I- 95/US202 INTERCHANGE	STIP MOD	ADDED 2/24	674,908
T201409001		M001	LIGHTING REPLECEMENT, INTERSTATE, OPEN END, FY14-FY17	STIP MOD	ADDED 1/28	125,000
T200411901		M001	US 40, PULASKI HIGHWAY & SR 72, WRANGLE HILL ROAD (INCLUDES DEL LAWS ROAD INTERSECTION)	PE	STIP MOD 9/11/14	158,023
	5,600,000	M230	US 40, PULASKI HIGHWAY & SR 72, WRANGLE HILL ROAD (INCLUDES DEL LAWS ROAD INTERSECTION)	ROW		3,000,000
T200669001		L400	C & D CANAL	STIP MOD	ADDED 11/15	59,283

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T200201104	L23E	WASHINGTON STREET, NEW CASTLE	UTILITY INCREASE	324	11/21	11/25	80,000	80,000
T200201104	L23E	WASHINGTON STREET, NEW CASTLE	CONT INCREASE	STIP MOD	1/15	1/16	409,480	409,480
T200201104	L23E	WASHINGTON STREET, NEW CASTLE	CE INCREASE	STIP MOD	2/4	2/5	215,056	215,056
T200201104	H230	WASHINGTON STREET, NEW CASTLE	CE INCREASE		3/24	3/25	25,080	25,080
T200201104	LS4E	WASHINGTON STREET, NEW CASTLE	RAILROAD	STIP MOD	6/11	6/11	195,018	195,018
T200201104	M230	WASHINGTON STREET, NEW CASTLE	CE/CONT INCREASE	STIP MOD	8/26	8/28	429,960	429,960
T200201104	M240	WASHINGTON STREET, NEW CASTLE	CE/CONT INCREASE	STIP MOD	8/26	8/28	302,190	302,190
T200201501	LY30	POMEROY BRANCH, PEDESTRIAN AND BICYCLE PATH	RELEASE		9/17	9/17	(13,828)	(13,828)
T200201501	L23E	POMEROY BRANCH, PEDESTRIAN AND BICYCLE PATH	RELEASE		9/17	9/17	(217,585)	(217,585)
T200204703	Q400	DELTRAC STATEWIDE INITIATIVES, 2003-2008	RELEASE		10/17	10/17	(28,547)	(28,547)
T200207414	H100	BR 1-137 ON N236A, FOXHILL LANE OVER RED CLAY CREEK AND ROLLING MILL ROAD RETAINING WALL	RELEASE		10/21	10/22	(13,711)	(13,711)

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T200301901	33D0	NEWARK TRANSIT HUB	RELEASE		10/25	10/28	(1,911)	(1,911)
T200301901	Q240	NEWARK TRANSIT HUB	RELEASE		10/25	10/28	(195)	(195)
T200311902	L230	US 40, BEAR-GLASGOW BUS STOP IMPROVEMENTS	RELEASE		2/10	2/10	(13,306)	(13,306)
T200350038	Q050	US 301, WEIGH STATION AND INSPECTION FACILITY	RELEASE		10/17	10/17	(0)	(0)
T200350038	L050	US 301, WEIGH STATION AND INSPECTION FACILITY	RELEASE		10/17	10/17	(70,952)	(70,952)
T200401102	L23E	SR 2, SOUTH UNION STREET FROM RAILROAD BRIDGE TO SYCAMORE STREET, WILMINGTON	TRAFFIC		12/9	12/10	47,243	47,243
T200401102	L230	SR 2, SOUTH UNION STREET FROM RAILROAD BRIDGE TO SYCAMORE STREET, WILMINGTON	CONVERT		3/12	3/13	859,083	859,083
T200401102	L23E	SR 2, SOUTH UNION STREET FROM RAILROAD BRIDGE TO SYCAMORE STREET, WILMINGTON	CONVERT		3/12	3/13	1,796,673	1,796,673
T200410301	L23E	SR4, CHRISTINA PARKWAY FROM SR 2, ELKTON ROAD TO SR 896, SOUTH COLLEGE AVENUE, NEWARK	PE	302	1/6	1/7	185,931	185,931
T200410604	L230	SR 141, KIRKWOOD HIGHWAY TO FAULKLAND ROAD	RELEASE		1/16	1/16	(1,511,489)	(1,511,489)
T200410604	L23E	SR 141, KIRKWOOD HIGHWAY TO FAULKLAND ROAD	RELEASE		1/16	1/16	(3,124)	(3,124)
T200411901	M001	US40/SR72 INTERSECTION IMPROVEMENTS	PE INCRESE	555	9/16	9/17	158,023	158,023
T200501001	Q280	HIGHWAY SAFETY IMPROVEMENT PROGRAM, 2005	RELEASE		11/26	11/27	(8,097)	(8,097)
T200504104	L050	BOYDS CORNER INTERSECTION IMPROVEMENTS	RELEASE		2/26	2/27	(421,363)	(421,363)
T200504104	L050	BOYDS CORNER INTERSECTION IMPROVEMENTS	CONVERT		3/6	3/7	424,945	424,945
T200504104	L050	BOYDS CORNER INTERSECTION IMPROVEMENTS	RELEASE		4/1	4/2	(23,073)	(23,073)
T200504110	M230	HSIP NCC, N54, HOWELL SCHOOL ROAD, SR 896 TO SR 71	UTILITIES	STIP MOD	7/30	8/4	83,161	83,161
T200509007	LY20	I-95 MAINLINE WIDENING (FEDERAL DEMO#4)	RELEASE		10/29	10/29	(70)	(70)
T200510602	M001	I-95 & US 202 INTERCHANGE	CONT INCREASE	STIP MOD	2/24	2/24	674,908	674,908
T200510602	M001	I-95 & US 202 INTERCHANGE	CONVERT		3/12	3/13	5,000,000	5,000,000
T200510602	L050	I-95 & US 202 INTERCHANGE	CE INCREASE		3/25	3/25	43,184	43,184
T200510602	L050	I-95 & US 202 INTERCHANGE	CE ADJUSTMENT		4/11	4/14	(0)	(0)
T200510602	L050	I-95 & US 202 INTERCHANGE	CONT INCREASE	STIP MOD	4/16	4/17	396,897	396,897
T200510602	M001	I-95 & US 202 INTERCHANGE	CE INCREASE	STIP MOD	5/2	5/6	433,963	433,963
T200510602	M001	I-95 & US 202 INTERCHANGE	CE INCREASE	STIP MOD	5/15	5/19	78,036	78,036
T200510602	L050	I-95 & US 202 INTERCHANGE	CONVERT	233	6/10	6/10	179,738	179,738
T200510602	L05E	I-95 & US 202 INTERCHANGE	CONVERT	233	6/10	6/10	10,572	10,572
T200510602	M001	I-95 & US 202 INTERCHANGE	CONVERT	233	6/10	6/10	1,809,690	1,809,690
T200510602	M001	I-95 & US 202 INTERCHANGE	CE INCREASE	233	6/10	6/10	291,710	291,710
T200510602	M001	I-95 & US 202 INTERCHANGE	CONVERT	233	9/25	9/25	146,781	146,781
T200511001	M001	SR 1 WIDENING, SR273 TO THE ROTH BRIDGE	PE	251	8/25	8/25	4,800,000	4,800,000

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T200512102	M230	CHRISTINA RIVER BRIDGE AND APPROACHES	PE INCREASE	340	8/1	8/5	900,000	900,000
T200520012	L220	UNION PARK GARDENS STREETSCAPE IMPROVEMENTS	RELEASE		12/31	12/31	(10,610)	(10,610)
T200520012	H220	UNION PARK GARDENS STREETSCAPE IMPROVEMENTS	RELEASE		12/31	12/31	(1)	(1)
T200520012	Q220	UNION PARK GARDENS STREETSCAPE IMPROVEMENTS	RELEASE		12/31	12/31	(14,564)	(14,564)
T200600501	LS40	BLACKBIRD FOREST ROAD (N471) RAILROAD CROSSING IMPROVEMENT	RELEASE		2/11	2/11	(35,078)	(35,078)
T200600501	H270	BLACKBIRD FOREST ROAD (N471) RAILROAD CROSSING IMPROVEMENT	RELEASE		2/11	2/11	(303)	(303)
T200601102	L230	SR 72, MCCOY ROAD TO SR 71	PE		12/24	12/30	23,200	23,200
T200601102	L230	SR 72, MCCOY ROAD TO SR 71	PE INCRESE		1/28	1/30	160,800	160,800
T200602309	H970	BRANDYWINE VALLEY SCENIC BYWAY	RELEASE		10/17	10/17	(920)	(920)
T200607102	L1C0	BR 1-234 ON SR 2 OVER MILL CREEK, EAST OF NEWARK	RELEASE		5/9	5/9	(8,000)	(8,000)
T200650021	L050	WETLAND MITIGATION COMPLIANCE ACTIVITIES	RELEASE		12/18	12/19	(48,628)	(48,628)
T200650021	L240	WETLAND MITIGATION COMPLIANCE ACTIVITIES	RELEASE		12/18	12/19	(9,600)	(9,600)
T200650021	Q050	WETLAND MITIGATION COMPLIANCE ACTIVITIES	RELEASE		12/18	12/19	(92,307)	(92,307)
T200669001	L400	C & D CANAL RECREATIONAL TRAIL	CE INCREASE	STIP MOD	11/22	11/25	59,283	59,283
T200690106	L050	SIGN STRUCTURE, HIGH MAST LIGHTING & INSPECTIONS STATEWIDE	RELEASE		2/21	2/24	(390,287)	(390,287)
T200700501	LS50	SR 41 (N237) RAILROAD CROSSING IMPROVEMENTS	RELEASE		2/26	2/27	(19,004)	(19,004)
T200707401	HY20	BR 1-651 ON NEWPORT ROAD OVER RAILROAD CROSSING WILMINGTON & MARSHALLTON	RELEASE		5/29	6/2	(41,146)	(41,146)
T200707401	LY20	BR 1-651 ON NEWPORT ROAD OVER RAILROAD CROSSING WILMINGTON & MARSHALLTON	RELEASE		5/29	6/2	(310,058)	(310,058)
T200707401	L1C0	BR 1-651 ON NEWPORT ROAD OVER RAILROAD CROSSING WILMINGTON & MARSHALLTON	RELEASE		5/29	6/2	(563)	(563)
T200707401	L1CE	BR 1-651 ON NEWPORT ROAD OVER RAILROAD CROSSING WILMINGTON & MARSHALLTON	RELEASE		5/29	6/2	(74,814)	(74,814)
T200707401	L1CE	BR 1-651 ON NEWPORT ROAD OVER RAILROAD CROSSING WILMINGTON & MARSHALLTON	RELEASE		6/24	6/25	(61,448)	(61,448)
T200707404	M001	BR 1-488S ON N001 US13 OVER BLACKBIRD CREEK	PE		9/4	9/8	44,700	44,700
T200720005	L220	GREATER BRANDYWINE VILLAGE STREETSCAPE IMPROVEMENTS PHASE IV	RELEASE		2/17	2/18	(32,235)	(32,235)
T200720016	L220	MILLTOWN ROAD SIDEWALK IMPROVEMENTS	RELEASE		2/3	2/3	(93,919)	(93,919)
T200720016	L22E	MILLTOWN ROAD SIDEWALK IMPROVEMENTS	RELEASE		2/3	2/3	(1,604)	(1,604)

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T200751201	L23E	NORTHEAST CORRIDOR IMPROVEMENTS YARD TO RAGAN, CIVIL, STRUCTURAL	CE INCREASE	472	2/19	2/20	45,875	45,875
T200766062	L560	MAROPS PHASE II-POOLEDE FUND STUDY	RELEASE		3/26	3/26	(15,000)	(15,000)
T200769004	LU30	SAFE ROUTES TO SCHOOL, NON-INFRASTRUCTURE ITEMS, STATEWIDE	RELEASE		2/27	2/27	(19,312)	(19,312)
T200769005	LU30	SAFE ROUTES TO SCHOOL, MANAGEMENT SERVICES	RELEASE		2/27	2/27	(69,717)	(69,717)
T200800503	LS50	OLD BALTIMORE PIKE (N026) RAILROAD CROSSING IMPROVEMENT	RELEASE		2/27	2/27	(6,676)	(6,676)
T200800504	LS50	WRANGLE HILL ROAD (N356) RAILROAD CROSSING IMPROVEMENT	RELEASE		2/17	2/18	(17,865)	(17,865)
T200800707	LS30	HSIP NCC, SILVERSIDE ROAD AND MARSH ROAD	RELEASE		4/1	4/2	(102,447)	(102,447)
T200800707	LS3E	HSIP NCC, SILVERSIDE ROAD AND MARSH ROAD	RELEASE		4/1	4/2	(24,896)	(24,896)
T200800710	LS30	HSIP NCC, SR 7 AND VALLEY ROAD INTERSECTION IMPROVEMENTS	RELEASE		10/25	10/28	(6,468)	(6,468)
T200800712	LS30	HSIP NCC, SR 2 AND UPPER PIKE CREEK ROAD INTERSECTION IMPROVEMENTS	RELEASE		5/15	5/15	(146,324)	(146,324)
T200800714	MS30	HSIP NCC, SR 896 AND OLD CHESTNUT HILL ROAD INTERSECTION IMPROVEMENTS	UTILITIES		12/31	12/31	90,000	90,000
T200800714	MS30	HSIP NCC, SR 896 AND OLD CHESTNUT HILL ROAD INTERSECTION IMPROVEMENTS	ADVERTISE	STIP MOD	2/17	2/19	645,613	645,613
T200800714	LS30	HSIP NCC, SR 896 AND OLD CHESTNUT HILL ROAD INTERSECTION IMPROVEMENTS	ADVETISE	STIP MOD	2/17	2/19	534,641	534,641
T200800714	MS30	HSIP NCC, SR 896 AND OLD CHESTNUT HILL ROAD INTERSECTION IMPROVEMENTS	MAINTENANCE	STIP MOD	2/20	2/21	3,523	3,523
T200800714	MS30	HSIP NCC, SR 896 AND OLD CHESTNUT HILL ROAD INTERSECTION IMPROVEMENTS	AWARD		4/24	5/6	206,375	206,375
T200801001	LS30	HIGHWAY SAFETY IMPROVEMENT PROGRAM (HSIP) 2008, 2009, 2010	TRAFFIC		3/7	3/10	12,986	12,986
T200806109	L010	PAVEMENT & REHABILITATION, NORTH - IX, 2008	RELEASE		5/6	5/9	(7,213)	(7,213)
T200806111	L050	PAVEMENT & REHABILITATION, NORTH-XI, 2008	RELEASE		5/21	5/22	(8,325)	(8,325)
T200809001	LS30	HSIP NCC, I-95, N213 CARR ROAD & N3, MARSH ROAD INTERCHANGE IMPROVEMENTS	PE INCREASE		6/2	6/3	36,000	36,000
T200809003	M001	SR 1/I-95 INTERCHANGE	CONT INCREASE	STIP MOD	2/26	2/26	1,224,335	1,224,335
T200809003	L050	SR 1/I-95 INTERCHANGE	CONVERT		4/9	4/10	84,184	84,184
T200809003	H050	SR 1/I-95 INTERCHANGE	CONVERT		4/24	4/25	82,745	82,745

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T200809003	L050	SR 1/I-95 INTERCHANGE	CONVERT		4/24	4/25	506,032	506,032
T200809003	L05E	SR 1/I-95 INTERCHANGE	CONVERT		4/24	4/25	306,273	306,273
T200809003	M001	SR 1/I-95 INTERCHANGE	CONVERT		4/24	4/25	1,098,789	1,098,789
T200809003	M001	SR 1/I-95 INTERCHANGE	CONT INCREASE	STIP MOD	7/15	7/16	1,589,922	1,589,922
T200809002	H010	SR141/I95 INTERCHANGE (PLANNING STUDY)	RELEASE		10/25	10/28	(13,736)	(13,736)
T200820004	L220	BAYNARD BOULEVARD STREETSCAPE IMPROVEMENTS	RELEASE		1/8	1/9	(1,523)	(1,523)
T200820004	L22E	BAYNARD BOULEVARD STREETSCAPE IMPROVEMENTS	RELEASE		1/8	1/9	(173,134)	(173,134)
T200820005	L22E	MEETING HOUSE ROAD PEDESTRIAN IMPROVEMENTS	RELEASE		1/7	1/8	(62,478)	(62,478)
T200820005	L220	MEETING HOUSE ROAD PEDESTRIAN IMPROVEMENTS	RELEASE		1/7	1/8	(20,831)	(20,831)
T200866002	L560	STATEWIDE, RESEARCH FY2008	RELEASE		2/3	2/3	(207,774)	(207,774)
T200900701	LS30	HSIP NCC, SR 273 AT PRANGS LANE	RELEASE		1/31	1/31	(96,433)	(96,433)
T200900703	Q280	HSIP NCC, GREENBANK RD & ALBERTSON BLVD INTERSECTION IMPROVEMENTS	RELEASE		2/25	2/26	(77,153)	(77,153)
T200900703	L28R	HSIP NCC, GREENBANK RD & ALBERTSON BLVD INTERSECTION IMPROVEMENTS	RELEASE		2/25	2/26	(11,746)	(11,746)
T200900703	LS30	HSIP NCC, GREENBANK RD & ALBERTSON BLVD INTERSECTION IMPROVEMENTS	RELEASE		2/25	2/26	(26,336)	(26,336)
T200900704	H280	HSIP NCC, SR273, APPLEBY ROAD AND AIRPORT ROAD INTERSECTION IMPROVEMENTS	PE INCREASE	290	12/13	12/19	78,443	78,443
T200900704	L28R	HSIP NCC, SR273, APPLEBY ROAD AND AIRPORT ROAD INTERSECTION IMPROVEMENTS	PE INCREASE	290	12/13	12/19	11,557	11,557
T200906102	L050	PAVEMENT & REHABILITATION, NORTH II, 2009	RELEASE		5/13	5/14	(180)	(180)
T200906502	L050	SR1 JOINT SEALING, PHASE II, 2009	RELEASE		5/14	5/14	(171,232)	(171,232)
T200907401	L1C0	BR 1-026 AND 1-033, SCOUR COUNTERMEASURES	RELEASE		10/17	10/17	(48,425)	(48,425)
T200907401	L1CE	BR 1-026 AND 1-033, SCOUR COUNTERMEASURES	RELEASE		10/17	10/17	(26,714)	(26,714)
T200907403	L1C0	BR 1-501, 1-501A & 1-501B SR 141 VIADUCT OVER SR4	CE INCREASE	STIP MOD	12/16	12/17	150,064	150,064
T200907403	L1C0	BR 1-501, 1-501A & 1-501B SR 141 VIADUCT OVER SR4	CE INCREASE	STIP MOD	2/3	2/3	16,080	16,080
T200907403	L230	BR 1-501, 1-501A & 1-501B SR 141 VIADUCT OVER SR4	CONT INCREASE	STIP MOD	3/4	3/10	591,615	591,615
T200907406	LO1R	INTERSTATE BRIDGE MAINTENANCE, NORTH	RELEASE		10/21	10/22	(70,882)	(70,882)
T200907406	L01E	INTERSTATE BRIDGE MAINTENANCE, NORTH	RELEASE		10/21	10/22	(128,712)	(128,712)
T200907408	C242	INTERSTATE BRIDGE MAINTENANCE, SOUTH (DESIGN)	RELEASE		10/17	10/17	(11)	(11)
T200907408	H010	INTERSTATE BRIDGE MAINTENANCE, SOUTH (DESIGN)	RELEASE		10/17	10/17	(10)	(10)
T200907410	L1C0	BR 1-501A, 1-501B ON SR 141, FIELD TESTING AND STRUCTURE ANALYSIS	RELEASE		5/15	5/15	(19,670)	(19,670)

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T200908302	L050	EPOXY PAVEMENT MARKINGS DISTRIC II 2009, 2010, 2011	RELEASE		12/20	12/23	(822)	(822)
T200920001	M300	CITY OF WILMINGTON 9TH STREET STREETSCAPE IMPROVEMENTS	ADVERTISE		12/2	12/3	296,540	296,540
T200920001	M301	CITY OF WILMINGTON 9TH STREET STREETSCAPE IMPROVEMENTS	ADVERTISE		12/2	12/3	42,550	42,550
T200920001	M300	CITY OF WILMINGTON 9TH STREET STREETSCAPE IMPROVEMENTS	AWARD		2/11	2/12	(14,324)	(14,324)
T200920002	L22E	PAPER MILL ROAD SIDEWALK IMPROVEMENTS	RELEASE	76	11/12	11/13	6,560	6,560
T200920002	L22E	PAPER MILL ROAD SIDEWALK IMPROVEMENTS	TRANSFER	76	11/20	11/20	11,841	11,841
T200920002	L22E	PAPER MILL ROAD SIDEWALK IMPROVEMENTS	CE INCREASE	76	12/13	12/17	22,000	22,000
T200920002	L220	PAPER MILL ROAD SIDEWALK IMPROVEMENTS	UTILITY INCREASE	76	4/28	5/6	26,000	26,000
T200920002	L220	PAPER MILL ROAD SIDEWALK IMPROVEMENTS	CE INCREASE	81	6/24	6/25	13,234	13,234
T200920002	L22E	PAPER MILL ROAD SIDEWALK IMPROVEMENTS	CE INCREASE	81	6/24	6/25	1,566	1,566
T200920002	Q220	PAPER MILL ROAD SIDEWALK IMPROVEMENTS	CE INCREASE	81	8/12	8/13	6,560	6,560
T200920007	L220	ST GEORGES STREETSCAPE IMPROVEMENTS	RELEASE		1/8	1/9	(3,297)	(3,297)
T200920007	L22E	ST GEORGES STREETSCAPE IMPROVEMENTS	RELEASE		1/8	1/9	(105,607)	(105,607)
T200920017	C240	NCC GREENWAY, INDUSTRIAL TRACK-PHASE I	RELEASE		12/4	12/4	(2,684)	(2,684)
T200950019	4L10	LITHIUM SUPPLY	RELEASE		12/27	12/30	(420)	(420)
T201000701	MS30	HSIP NCC, SR 71, OLD PORTER ROAD TO SR 7	PE INCREASE	296	12/2	12/3	45,000	45,000
T201000701	LS30	HSIP NCC, SR 71, OLD PORTER ROAD TO SR 7	PE INCREASE	296	3/24	3/25	22,500	22,500
T201000701	M240	HSIP NCC, SR 71, OLD PORTER ROAD TO SR 7	ROW	STIP MOD	9/15	9/22	396,900	396,900
T201000701	H240	HSIP NCC, SR 71, OLD PORTER ROAD TO SR 7	ROW	STIP MOD	9/15	9/22	353,100	353,100
T201001001	LS30	2010 HIGHWAY SAFETY IMPROVEMENT PROGRAMS	RELEASE		1/9	1/10	(231)	(231)
T201001001	LS30	2010 HIGHWAY SAFETY IMPROVEMENT PROGRAMS	RELEASE		2/18	2/18	(0)	(0)
T201001002	LS20	2010 HIGH RISK RURAL ROADS PROGRAM	RELEASE		2/27	2/27	(838)	(838)
T201004202	C200	WYOMING MILL ROAD REALIGNMENT, CONSTRUCTION	RELEASE		10/23	10/23	(217,646)	(217,646)
T201004202	LY20	WYOMING MILL ROAD REALIGNMENT, CONSTRUCTION	RELEASE		10/23	10/23	(309,848)	(309,848)
T201004801	L40E	RIDESHARE FY10-12	RELEASE		1/13	1/13	(339,302)	(339,302)
T201006104	C243	PAVEMENT & REHABILITATION, NORTH IV, 2010	RELEASE		10/17	10/17	(6)	(6)
T201006104	L24E	PAVEMENT & REHABILITATION, NORTH IV, 2010	RELEASE		10/17	10/17	(129,980)	(129,980)
T201006104	L24E	PAVEMENT & REHABILITATION, NORTH IV, 2010	RELEASE		10/24	10/28	(39,462)	(39,462)
T201006108	C240	PAVEMENT & REHABILITATION, NORTH VIII, 2010	RELEASE		10/23	10/23	(93,058)	(93,058)
T201006108	L00E	PAVEMENT & REHABILITATION, NORTH VIII, 2010	RELEASE		10/23	10/23	(23,579)	(23,579)
T201006109	L24E	PAVEMENT & REHABILITATION, NORTH IX, 2010	RELEASE		2/4	2/4	(8,000)	(8,000)

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T201006109	L00E	PAVEMENT & REHABILITATION, NORTH IX, 2010	RELEASE		2/4	2/4	(313,268)	(313,268)
T201006301	L24E	PAVEMENT & REHABILITATION, SOPUTH II-I, 2010	CONT INCREASE		6/12	6/12	83,548	83,548
T201006302	L24E	PAVEMENT & REHABILITATION, SOUTH II-II, 2010	RELEASE		2/24	2/24	(254,566)	(254,566)
T201006302	L24E	PAVEMENT & REHABILITATION, SOUTH II-II, 2010	RELEASE		3/20	3/20	(997)	(997)
T201006306	C240	PAVEMENT & REHABILITATION, SOUTH II-VI, 2010	RELEASE		10/22	10/23	(82,090)	(82,090)
T201006306	L00E	PAVEMENT & REHABILITATION, SOUTH II-VI, 2010	RELEASE		10/22	10/23	(386,992)	(386,992)
T201007203	L110	PIPE REPLACEMENTS, KENT COUNTY	RELEASE		3/24	3/25	(165,425)	(165,425)
T201007405	L1CE	BR 1-687, 1-688, 1-693, SOUTH WALNUT ST, SOUTH MARKET ST AND FORTH ST OVER CHRISTINA RIVER	CE INCREASE		3/24	3/25	18,800	18,800
T201007405	L1CE	BR 1-687, 1-688, 1-693, SOUTH WALNUT ST, SOUTH MARKET ST AND FORTH ST OVER CHRISTINA RIVER	CE INCREASE	419	6/2	6/2	20,400	20,400
T201007406	L1CE	BRIDGE PAINTING, NORTH DISTRICT, 2012	RELEASE		2/17	2/18	(289,617)	(289,617)
T201007406	L1CE	BRIDGE PAINTING, NORTH DISTRICT, 2012	RELEASE		4/1	4/2	(602)	(602)
T201007407	M001	INTERSTATE STRUCTURE MAINTENANCE, OPEN-END, FY12-FY13	CONT INCREASE	STIP MOD	3/20	3/20	220,627	220,627
T201007407	M001	INTERSTATE STRUCTURE MAINTENANCE, OPEN-END, FY12-FY13	CONT INCREASE	STIP MOD	3/27	3/27	450,000	450,000
T201007407	M001	INTERSTATE STRUCTURE MAINTENANCE, OPEN-END, FY12-FY13	CONT INCREASE	STIP MOD	8/11	8/13	679,500	679,500
T201009002	M001	ROAD A/SR7 IMPROVEMENTS	PE		12/3	12/3	1,500,000	1,500,000
T201009004	L00E	SR 1/ I-95 INTERCHANGE-CHRISTIANA MALL ROAD BRIDGE	TRANSFER	249	12/16	12/17	(674,908)	(674,908)
T201009004	L23E	SR 1/ I-95 INTERCHANGE-CHRISTIANA MALL ROAD BRIDGE	TRANSFER	249	12/18	12/19	(46,400)	(46,400)
T201011303	M001	US301 GARVEE DEBT SERVICE	CONVERSION	255	10/16	10/16	10,986,513	10,986,513
T201020001	L22E	6TH STREET ENHANCEMENTS, CITY OF WILMINGTON	CONT INCREASE	81	1/24	1/27	3,585	3,585
T201020001	L22E	6TH STREET ENHANCEMENTS, CITY OF WILMINGTON	CONT INCREASE	81	7/15	7/16	3,946	3,946
T201020003	L22E	SHIPLEY STREET STREETSCAPE IMPROVEMENTS, CITY OF WILMINGTON	RELEASE	76	10/21	10/23	(103,763)	(103,763)
T201020003	L220	SHIPLEY STREET STREETSCAPE IMPROVEMENTS, CITY OF WILMINGTON	RELEASE	76	10/21	10/23	(665)	(665)
T201020004	L22E	GREENHILL AVENUE LANDSCAPE IMPROVEMENTS, CITY OF WILMINGTON	CONT INCREASE	76	10/22	10/23	1,280	1,280
T201020005	L22E	SOUTH PARK DRIVE LIGHTING IMPROVEMENTS, CITY OF WILMINGTON	RELEASE	76	10/21	10/23	(159,736)	(159,736)
T201020006	Q220	BAYARD SQUARE ENHAHCEMENTS, CITY OF WILMINGTON	CONT INCREASE	81	12/17	12/17	18,000	18,000

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T201056001	L240	MOTOR FUEL TAX COMPLIANCE AND ANTI-TAX EVASION ACTIVITIES 2010	RELEASE		2/5	2/5	(294)	(294)
T201063002	L24E	SITE VISITS FOR AUDITS	RELEASE		2/26	2/27	(10)	(10)
T201066001	L550	SPR PLANNING AND TRAFFIC PROGRAM 2010	RELEASE		5/20	5/21	(391,005)	(391,005)
T201066001	L550	SPR PLANNING AND TRAFFIC PROGRAM 2010	RELEASE		5/23	5/23	(17,490)	(17,490)
T201100101	LS3E	US 13, US 40 TO SR 273 LIGHTING INSTALLATION	RELEASE		2/27	2/27	(13,666)	(13,666)
T201100202	LS30	CRASH ANALYSIS REPORTING SYSTEM	RELEASE		2/25	2/26	(18,216)	(18,216)
T201100501	LS30	2011 HIGHWAY-RAIL GRADE CROSSING SAFETY PROGRAM-STUDIES	RELEASE		2/26	2/27	(16,263)	(16,263)
T201100502	LS5E	SR 100 MONTCHANIN RD (N225) RAILROAD CROSSING IMPROVEMENTS	RELEASE		6/19	6/20	(165,949)	(165,949)
T201100506	LS5E	STATEWIDE RAILROAD CROSSING REPAIR II, 2011	AWARD	93	1/24	1/27	45	45
T201100506	LS50	STATEWIDE RAILROAD CROSSING REPAIR II, 2011	RR INCREASE	93	2/20	2/21	60,869	60,869
T201100506	LS50	STATEWIDE RAILROAD CROSSING REPAIR II, 2011	CE INCREASE	93	4/16	4/17	25,039	25,039
T201100506	LS5E	STATEWIDE RAILROAD CROSSING REPAIR II, 2011	RR INCREASE	93	7/17	7/17	100,000	100,000
T201104701	L24R	FY11 DELTRAC PROJECTS STATE-WIDE SUPPORT	RELEASE		6/23	6/25	(48,702)	(48,702)
T201106102	L23E	PAVEMENT & REHABILITATION, NORTH II, 2011	RELEASE		2/19	2/20	(171,250)	(171,250)
T201106103	LS5E	PAVEMENT & REHABILITATION, NORTH III, 2011	RELEASE		2/17	2/18	(247,500)	(247,500)
T201106103	L24E	PAVEMENT & REHABILITATION, NORTH III, 2011	RELEASE		2/17	2/18	(91,783)	(91,783)
T201107401	M001	BR 1-665N AND BR 1-665S CARRYING US 13 OVER BAYLOR BLVD	CE INCREASE	STIP MOD	5/14	5/14	561,636	561,636
T201120003	L22E	TOWN OF ELSMERE PEDESTRAIN AND BICYCLE IMPROVEMENTS	PE INCREASE	76	10/22	10/23	20,720	20,720
T201120003	L22R	TOWN OF ELSMERE PEDESTRAIN AND BICYCLE IMPROVEMENTS	ADVERTISE	81	9/19	9/22	426,629	426,629
T201120003	Q220	TOWN OF ELSMERE PEDESTRAIN AND BICYCLE IMPROVEMENTS	ADVERTISE	81	9/19	9/22	27,429	27,429
T201120004	L22E	DELAWARE AVENUE STREETSCAPE IMPROVEMENTS	PE INCREASE	81	1/15	1/16	5,160	5,160
T201120006	M301	GREENHILL AVENUE STREETSCAPE IMPROVEMENTS	AWARD	76	11/14	11/15	(10,861)	(10,861)
T201120006	M301	GREENHILL AVENUE STREETSCAPE IMPROVEMENTS	CE INCREASE	81	1/15	1/16	10,000	10,000
T201120006	M300	GREENHILL AVENUE STREETSCAPE IMPROVEMENTS	CE INCREASE	81	6/24	6/25	112,300	112,300
T201120006	M300	GREENHILL AVENUE STREETSCAPE IMPROVEMENTS	CONT INCREASE	81	9/17	9/17	63,000	63,000
T201120012	L22E	MILLER ROAD STREETSCAPE IMPROVEMENTS	PE	81	1/23	1/23	19,576	19,576
T201120015	M301	VALLEY ROAD PEDESTRIAN IMPROVEMENTS	ADVERTISE	81	1/13	1/16	636,133	636,133
T201120015	M300	VALLEY ROAD PEDESTRIAN IMPROVEMENTS	AWARD	81	4/2	4/4	5,128	5,128

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T201120015	M301	VALLEY ROAD PEDESTRIAN IMPROVEMENTS	AWARD	81	4/2	4/4	95,446	95,446
T201120015	M300	VALLEY ROAD PEDESTRIAN IMPROVEMENTS	CE INCREASE	81	4/29	5/1	95,000	95,000
T201150301	L40R	PARATRANSIT REPLACEMENT BUSES FY12 (65)	RELEASE		12/23	12/24	(278,522)	(278,522)
T201150301	L40R	PARATRANSIT REPLACEMENT BUSES FY12 (65)	RELEASE		2/18	2/18	(0)	-
T201160001	H480	DBE/SS WORKSHOPS & TRAINING	RELEASE		3/26	3/26	(147,935)	(147,935)
T201160002	L48E	DBE SUPPORTIVE SERVICES ACTIVITIES-FED FISCAL YR 2010	RELEASE		3/25	3/25	(160,248)	(160,248)
T201200102	M001	HEP, SR 7 AT SKYLINE DRIVE/MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	ADVERTISE	304	11/22	11/25	859,502	859,502
T201200102	Q050	HEP, SR 7 AT SKYLINE DRIVE/MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	AWARD	STIP MOD	2/10	2/10	92,307	92,307
T201200102	H050	HEP, SR 7 AT SKYLINE DRIVE/MERMAID STONEY BATTER ROAD INTERSECTION IMPROVEMENTS	AWARD	STIP MOD	2/10	2/10	15,532	15,532
T201200104	M001	US 40 AND SR7 INTERSECTION IMPROVEMENTS	PE	318	1/6	1/7	50,000	50,000
T201200106	MS30	HSIP NCC, SALEM CHURCH ROAD AT CHRISTIANA HIGH SCHOOL	ROW	284	12/10	12/12	9,000	9,000
T201200106	M240	HSIP NCC, SALEM CHURCH ROAD AT CHRISTIANA HIGH SCHOOL	ADVERTISE	284	2/17	2/19	258,164	258,164
T201200106	M240	HSIP NCC, SALEM CHURCH ROAD AT CHRISTIANA HIGH SCHOOL	AWARD	28/4	4/21	4/24	31,713	31,713
T201200107	MS30	HEP NCC, SR 896 AND PORTER ROAD INTERSECTION IMPROVEMENTS	ADVERTISE	STIP MOD	12/13	12/17	956,628	956,628
T201200107	MS30	HEP NCC, SR 896 AND PORTER ROAD INTERSECTION IMPROVEMENTS	AWARD	306	2/20	2/21	(1,085)	(1,085)
T201201001	LS3E	FY2012 HIGHWAY SAFETY IMPROVEMENT PROGRAM- STUDIES	RELEASE		2/27	2/27	(8,707)	(8,707)
T201201002	LS20	2010 HIGH RISK RURAL ROADS PROGRAM-TRAFFIC CONTROL DEVICE IMPROVEMENTS FY12	RELEASE		2/27	2/27	(878)	(878)
T201201003	LS20	FY2012 HIGH RISK RURAL ROADS PROGRAM-STUDIES	RELEASE		3/25	3/25	(12)	(12)
T201204702	L24E	FY12 DELTRAC PROJECTS STATE-WIDE SUPPORT	RELEASE		4/8	4/8	(98,983)	(98,983)
T201206101	M230	PAVEMENT & REHABILITATION, NORTH I, 2012	AWARD	84	12/20	12/30	(1,188,633)	(1,188,633)
T201206104	L23E	PAVEMENT & REHABILITATION, NORTH IV, 2012	CE INCREASE	84	12/18	12/19	44,500	44,500
T201206105	M230	PAVEMENT & REHABILITATION, NORTH V, 2012	ADVERTISE	84	8/6	8/11	3,000,000	3,000,000
T201206106	Q240	PAVEMENT & REHABILITATION, NORTH VI, 2012	ADVERTISE	84	4/21	4/28	27,569	27,569
T201206106	M230	PAVEMENT & REHABILITATION, NORTH VI, 2012	ADVERTISE	84	4/21	4/28	3,108,673	3,108,673

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T201206106	M240	PAVEMENT & REHABILITATION, NORTH VI, 2012	ADVERTISE	84	4/21	4/28	2,699,382	2,699,382
T201206106	LOOE	PAVEMENT & REHABILITATION, NORTH VI, 2012	ADVERTISE	84	4/21	4/28	1,398,747	1,398,747
T201206106	L23E	PAVEMENT & REHABILITATION, NORTH VI, 2012	ADVERTISE	84	4/21	4/28	691,327	691,327
T201206106	L240	PAVEMENT & REHABILITATION, NORTH VI, 2012	ADVERTISE	84	4/21	4/28	418,495	418,495
T201206106	L24E	PAVEMENT & REHABILITATION, NORTH VI, 2012	ADVERTISE	84	4/21	4/28	669,184	669,184
T201206106	M240	PAVEMENT & REHABILITATION, NORTH VI, 2012	AWARD	84	6/24	6/25	(87,252)	(87,252)
T201206106	M230	PAVEMENT & REHABILITATION, NORTH VI, 2012	AWARD	84	6/24	6/25	(453,944)	(453,944)
T201006107	L010	PAVEMENT & REHABILITATION, NORTH VII, 2010	RELEASE		5/28	5/28	(173,787)	(173,787)
T201206109	M001	PAVEMENT & REHABILITATION, NORTH IX, 2012	AWARD	79	10/17	10/17	(111,760)	(111,760)
T201206109	M001	PAVEMENT & REHABILITATION, NORTH IX, 2012	TRAFFIC INCREASE	84	7/10	7/10	371,187	371,187
T201206110	M001	PAVEMENT & REHABILITATION, NORTH X, 2012	ADVERTISE	85	4/1	4/2	6,371,640	6,371,640
T201206110	M001	PAVEMENT & REHABILITATION, NORTH X, 2012	AWARD	85	6/4	6/5	(234,618)	(234,618)
T201206111	L23E	PAVEMENT & REHABILITATION, NORTH XI, 2012	CE INCREASE	79	10/24	10/29	10,000	10,000
T201206111	H230	PAVEMENT & REHABILITATION, NORTH XI, 2012	CE INCREASE	84	4/15	4/15	38,284	38,284
T201206111	L23E	PAVEMENT & REHABILITATION, NORTH XI, 2012	CE INCREASE	84	4/15	4/15	156,716	156,716
T201206112	M001	PAVEMENT & REHABILITATION, NORTH XII, 2012	AWARD	79	10/17	10/17	(12,849)	(12,849)
T201206115	M230	PAVEMENT & REHABILITATION, NORTH XV 2012	ADVERTISE	84	12/18	12/19	3,050,971	3,050,971
T201206115	M230	PAVEMENT & REHABILITATION, NORTH XV 2012	AWARD	84	3/12	3/13	(130,216)	(130,216)
T201206116	L050	SR1 JOINT SEALING, NEW CASTLE COUNTY, FY2012	CE INCREASE	84	2/6	2/6	80,000	80,000
T201207002	M240	INSPECTION OF OVERHEAD STRUCTURES, FY12-16	PE INCREASE	74	11/20	11/20	720,000	720,000
T201207002	M240	INSPECTION OF OVERHEAD STRUCTURES, FY12-16	PE INCREASE	72	1/24	1/27	53,589	53,589
T201207101	M233	BR 1-159 ON JAMES STREET OVER CHRISTINA RIVER	ROW	STIP MOD	10/24	10/28	184,000	184,000
T201207101	L11E	BR 1-159 ON JAMES STREET OVER CHRISTINA RIVER	PE INCREASE	373	11/12	11/13	76,000	76,000
T201207101	L110	BR 1-159 ON JAMES STREET OVER CHRISTINA RIVER	PE INCREASE	373	5/2	5/6	280,000	280,000
T201207102	M240	BR 1-274 ON N312 WEDGEWOOD ROAD OVER EAST BRANCH CHRISTINA CREEK	ADVERTISE	385	12/23	12/30	1,017,306	1,017,306
T201207102	M240	BR 1-274 ON N312 WEDGEWOOD ROAD OVER EAST BRANCH CHRISTINA CREEK	AWARD	385	2/27	2/27	13,743	13,743
T201207102	M240	BR 1-274 ON N312 WEDGEWOOD ROAD OVER EAST BRANCH CHRISTINA CREEK	AWARD	385	3/6	3/7	(199,999)	(199,999)
T201207102	L1CE	BR 1-274 ON N312 WEDGEWOOD ROAD OVER EAST BRANCH CHRISTINA CREEK	ROW	577	8/15	8/21	3,825	3,825
T201207103	L1CE	BR 1-543 ON N213 CARR ROAD OVER SHELLPOT CREEK	PE	401	12/2	12/2	37,000	37,000
T201207201	L11E	BR 2-114C ON K114 TODDS CHAPEL ROAD OVER TOMAHAWK BRANCH	CE INCREASE	577	5/15	5/19	2,610	2,610

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T201207401	L11E	BR 1-032 ON N203 FOULK ROAD OVER SOUTH BRANCH NAAMANS CREEK	PE INCREASE	367	11/22	11/25	1,862	1,862
T201207401	L1CE	BR 1-032 ON N203 FOULK ROAD OVER SOUTH BRANCH NAAMANS CREEK	ROW	367	7/24	7/30	30,000	30,000
T201207402	M001	INTERSTATE BRIDGE MAINTENANCE, SOUTH (ADVERTISEMENT & CONSTRUCTION)	CONT INCREASE	STIP MOD	6/4	6/10	1,543,100	1,543,100
T201207402	M001	INTERSTATE BRIDGE MAINTENANCE, SOUTH (ADVERTISEMENT & CONSTRUCTION)	CE INCREASE	423	8/19	8/22	104,000	104,000
T201208301	M001	EPOXY PAVEMENT MARKINGS (DISTRICT I) NCC 2012, 2013, 2014	CONT INCREASE	87	7/10	7/11	912,000	912,000
T201220007	L220	RODNEY SQUARE BEAUTIFICATION PHASE II	PE	81	2/10	2/11	130,000	130,000
T201220008	L220	ST. GEORGES STREETSCAPE IMPROVEMENTS PHASE II	PE	81	2/3	2/3	95,000	95,000
T201230005	L40E	NORTHERN DELAWARE GREENWAY-TALLEY ROAD SECTION	CONT INCREASE	330	12/10	12/10	225,741	225,741
T201230005	L40E	NORTHERN DELAWARE GREENWAY-TALLEY ROAD SECTION	CE INCREASE	330	1/6	1/7	163,679	163,679
T201230005	L40E	NORTHERN DELAWARE GREENWAY-TALLEY ROAD SECTION	UTILITIES	330	6/2	6/2	27,080	27,080
T201230005	M400	NORTHERN DELAWARE GREENWAY-TALLEY ROAD SECTION	CONT INCREASE	330	8/4	8/5	280,744	280,744
T201230007	L40E	OPEN END CONSTRUCTION SERVICES, STATEWIDE TRAILS, NCC	TRAFFIC	114	11/12	11/13	112,000	112,000
T201247101	L24E	BR 1-212 ON N322 UPPER PIKE CREEK ROAD, EMERGENCY SCOUR REPAIRS	RELEASE		3/13	3/18	(45,403)	(45,403)
T201260001	L48E	DBE/SS PROGRAM ACTIVITIES FFY 2012	RELEASE		3/26	3/27	(145,112)	(145,112)
T201263702	H940	OJT/SS PROGRAM ACTIVITIES FFY 2012	RELEASE		3/31	3/31	(29,147)	(29,147)
T201263702	L94E	OJT/SS PROGRAM ACTIVITIES FFY 2012	RELEASE		3/31	3/31	(128,379)	(128,379)
T201230007	L400	OPEN END CONSTRUCTION SERVICES, STATEWIDE TRAILS, NCC	CE		5/1	5/2	28,000	28,000
T201300101	M240	HEP NCC, US40 AT GLASGOW AVENUE	ROW	270	2/20	2/25	100,000	100,000
T201301005	LS20	DE RUMBLE STRIPS BROCHURE	RELEASE		3/19	3/20	(3,598)	(3,598)
T201302301	H970	BRANDYWINE HOME TOWN OVERLAY PLAN	PLANNING	106	10/21	10/23	920	920
T201302401	L97E	BYWAY SAFETY/WAYFINDING STUDIES	PLANNING	111	6/3	6/5	89,250	89,250
T201302401	L97E	BYWAY SAFETY/WAYFINDING STUDIES	PLANNING	STIP AMEND	9/18	9/18	182,150	182,150
T201302502	L97E	ROUTE 9 SCENIC OVERLOOKS	RELEASE		3/31	3/31	(320,000)	(320,000)
T201304601	M232	PARK AVENUE RELOCATION	PE INCREASE	STIP MOD	11/22	11/25	200,000	200,000
T201304601	M232	PARK AVENUE RELOCATION	PE INCREASE	STIP MOD	12/5	12/5	800	800

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T201304801	L40E	RIDESHARE FY13-15	PD	160	10/23	10/23	320,000	320,000
T201304801	L40E	RIDESHARE FY13-15	PD INCREASE	176	12/24	12/24	40,000	40,000
T201306701	M230	MICROSURFACING B, NORTH DISTRICT, FY 13-FY14	CONT INCREASE	84	6/5	6/10	300,000	300,000
T201307002	L1CE	BRIDGE DESIGN TRAINING PROGRAM	PE INCREASE	76	12/4	12/5	110,000	110,000
T201307103	L11R	BR 1-229B ON SR2 KIRKWOOD HIGHWAY OVER WHITE CLAY CREEK	RELEASE		3/19	3/19	(280,000)	(280,000)
T201307401	L1CE	BR 1-393 ON SR299 MAIN STREET OVER APPOQUINIMINK RIVER	PE INCREASE	391	11/20	11/20	12,000	12,000
T201309002	M001	CAVALIERS MITIGATION	PE	225	4/30	5/1	28,000	28,000
T201309003	M001	ROAD A/SR7/CENTER BLVD INTERSECTION IMPROVEMENTS	AWARD	243	12/13	12/17	92,625	92,625
T201309003	M001	ROAD A/SR7/CENTER BLVD INTERSECTION IMPROVEMENTS	CONT INCREASE	STIP MOD	9/22	9/22	331,412	331,412
T201330009	L40E	INDUSTRIAL TRACK GREENWAY PHASE III	PLANNING	114	10/24	10/28	7,200	7,200
T201330009	L400	INDUSTRIAL TRACK GREENWAY PHASE III	PLANNING	119	5/9	5/13	156,257	156,257
T201330009	L40E	INDUSTRIAL TRACK GREENWAY PHASE III	PLANNING	119	5/9	5/13	3,743	3,743
T201350302	Q400	TRANSIT VEHICLE REPLACEMENT (31,32) 40' HEAVY DUTY LOW FLOOR BUSES NCC FY14-15	CONVERT	514	6/3	6/4	28,547	28,547
T201350302	L40R	TRANSIT VEHICLE REPLACEMENT (31,32) 40' HEAVY DUTY LOW FLOOR BUSES NCC FY14-15	CONVERT	514	6/3	6/4	278,522	278,522
T201350302	L40E	TRANSIT VEHICLE REPLACEMENT (31,32) 40' HEAVY DUTY LOW FLOOR BUSES NCC FY14-15	CONVERT	514	6/3	6/4	2,283,701	2,283,701
T201350302	M400	TRANSIT VEHICLE REPLACEMENT (31,32) 40' HEAVY DUTY LOW FLOOR BUSES NCC FY14-15	CONVERT	514	6/3	6/4	9,717,131	9,717,131
T201360001	L48E	DBE/SS PROGRAM ACTIVITIES FFY 2013	RELEASE		3/26	3/27	(44,816)	(44,816)
T201363601	M490	SUMMER TRANSPORTATION INSTITUTE 2013	RELEASE		3/31	3/31	(290)	(290)
T201363601	M490	SUMMER TRANSPORTATION INSTITUTE 2013	PROGRAM	163	7/22	7/22	290	290
T201363701	L948E	OJT/SS PROGRAM ACTIVITIES FFY 2013	RELEASE		3/31	3/31	(27,578)	(27,578)
T201367001	L450	WILMAPCO, 2013 UPWP	RELEASE	132	11/22	11/25	(136,860)	(136,860)
T201367001	L45E	WILMAPCO, 2013 UPWP	RELEASE	132	11/22	11/25	(198,329)	(198,329)
T201367001	L45E	WILMAPCO, 2013 UPWP	RELEASE	132	11/26	11/27	(217,748)	(217,748)
T201367002	L45E	DOVER/KENT CO MPO, 2013 UPWP	RELEASE	132	11/22	11/25	(16,743)	(16,743)
T201369001	HU20	SAFE ROUTES TO SCHOOL, CLAYMONT MR PLEASANT, AND EDISON SCHOOLS	CONT INCREASE	109	1/24	1/27	54,839	54,839

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T201369001	HU20	SAFE ROUTES TO SCHOOL, CLAYMONT MR PLEASANT, AND EDISON SCHOOLS	CE INCREASE	109	3/24	3/25	10,500	10,500
T201400401	MS30	2013 HAZARD ELIMINATION PROGRAM-TRAFFIC CONTROL DEVICE IMPROVEMENTS	TRAFFIC	98	5/15	5/15	454,859	454,859
T201400502	LS40	RAILROAD DESIGN SERVICES	PLANNING	89	11/18	11/20	725,199	725,199
T201400502	LS4E	RAILROAD DESIGN SERVICES	PLANNING	89	11/18	11/20	260,446	260,446
T201400502	LS4R	RAILROAD DESIGN SERVICES	PLANNING	89	11/18	11/20	14,354	14,354
T201400503	LS50	SR 4 MARYLAND AVENUE (N-336) RAILROAD CROSSING SAFETY IMPROVEMENTS	RAILROAD	93	5/15	5/21	149,705	149,705
T201400503	LS5E	SR 4 MARYLAND AVENUE (N-336) RAILROAD CROSSING SAFETY IMPROVEMENTS	RAILROAD	93	5/15	5/21	226,966	226,966
T201400504	LS40	SR9 RIVER ROAD (N378) RAILROAD CROSSING SAFETY IMPROVEMENTS	RAILROAD	93	5/27	5/27	35,078	35,078
T201400504	LS4E	SR9 RIVER ROAD (N378) RAILROAD CROSSING SAFETY IMPROVEMENTS	RAILROAD	93	5/27	5/27	14,923	14,923
T201400504	LS50	SR9 RIVER ROAD (N378) RAILROAD CROSSING SAFETY IMPROVEMENTS	RAILROAD	93	5/27	5/27	50,000	50,000
T201401001	MS31	SR 1 HIGH TENSION CABLE BARRIER, ROTH BRIDGE TO US 13	AWARD	98	1/13	1/13	(414,133)	(414,133)
T201401003	MS30	RUMBLE STRIP INSTALLATION, STATEWIDE, OPEN-END	AWARD	98	1/13	1/13	(64,985)	(64,985)
T201401004	LS20	HIGH FRICTION SURFACE TREATMENT, STATEWIDE, OPEN-END	СО	100	9/8	9/10	277,778	277,778
T201404003	M240	FY15 TRAFFIC INTERSECTION IMPROVEMENTS PROGRAM	TRAFFIC	106	6/24	6/25	1,000,000	1,000,000
T201406101	M230	PAVEMENT & REHABILITATION, NORTH I, 2014	ADVERTISE	84	12/17	12/17	3,820,141	3,820,141
T201406101	M230	PAVEMENT & REHABILITATION, NORTH I, 2014	AWARD	84	3/12	3/13	443,210	443,210
T201406101	M230	PAVEMENT & REHABILITATION, NORTH I, 2014	CONT INCREASE	84	5/28	6/2	159,480	159,480
T201406101	M230	PAVEMENT & REHABILITATION, NORTH I, 2014	TRAFFIC INCREASE	84	7/10	7/10	995	995
T201406102	M230	PAVEMENT & REHABILITATION, NORTH II, 2014	ADVETISE	84	12/17	12/17	1,705,470	1,705,470
T201406102	M230	PAVEMENT & REHABILITATION, NORTH II, 2014	AWARD	84	3/12	3/13	(11,428)	(11,428)
T201406102	M230	PAVEMENT & REHABILITATION, NORTH II, 2014	CE INCREASE	84	5/7	5/9	90,000	90,000
T201406102	M230	PAVEMENT & REHABILITATION, NORTH II, 2014	CE INCREASE	84	6/17	6/18	53,000	53,000
T201407004	M001	CRITICAL CANTILEVER SIGN STRUCTURES, FY15	PE	76	3/24	3/27	120,000	120,000
T201407004	M001	CRITICAL CANTILEVER SIGN STRUCTURES, FY15	PE	76	4/7	4/8	8,645	8,645
T201407004	M001	CRITICAL CANTILEVER SIGN STRUCTURES, FY15	PE	76	6/6	6/6	7,355	7,355
T201407005	M001	OVERHEAD SIGN STRUCTURES, I-495	PE	76	3/24	3/27	400,000	400,000

T201407101 L24E BR 1-238 ON ELIZABETH COURT AND BR 1-239 ON N352 PE 381 6/3 6/5 30,000 T201407102 M240 BR 1-227 ON N013 PAPER MILL ROAD OVER MIDDLE RUN TRIBUTARY WHITE CLAY CREEK PE 377 11/22 11/25 28,000 T201407103 L110 BR 1-291 ON SONGSMITH DRIVER OVER TRIBUTARY TO SMALLEY'S POND PE 387 3/19 3/19 29,040 T201407104 M233 BR 1-438 ON N463 BLACKBIRD STATION ROAD AND BLACKBIRD CREEK PE 393 5/16 5/23 47,300 T201407105 L1CE BR 1-680 ON SR141 BASIN ROAD OVER US 13 PE 411 11/20 11/20 924,000 T201407105 M001 BR 1-680 ON SR141 BASIN ROAD OVER US 13 PE INCREASE 411 9/12 9/12 436,000 T201407107 ER90 BR 1-813 ON 1-495 OVER CHRISTINA RIVER, EMERGENCY PE/ROW/CE/T/PD LETTER 6/10 6/10 2,000,000 T201407107 ER90 BR 1-813 ON 1-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/13 8/14 24,520,000 T201407107 ER90 BR 1-813 ON 1-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/26 8/28 1,500,000	FUNDS BLIGATED TO DATE
T201407102 M240 TRIBUTARY TRIBUTARY T201407103 L110 BR 1-291 ON SONGSMITH DRIVER OVER TRIBUTARY TO SMALLEY'S POND T201407104 M233 BR 1-438 ON N463 BLACKBIRD STATION ROAD AND BLACKBIRD CREEK T201407105 L1CE BR 1-680 ON SR141 BASIN ROAD OVER US 13 T201407105 M001 BR 1-680 ON SR141 BASIN ROAD OVER US 13 PE M11 11/20 11/20 924,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY REPAIRS T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY REPAIRS T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY REPAIRS T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT T201407107 ER90 CONVERT T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT T201407107 ER90 CONVERT T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT T201407107 ER90 CONVERT T201407107 ER90 CONVERT T201407107 ER90 CONVERT T201407107 ER90 T201407107	30,000
T201407103 L110 SMALLEY'S POND PE 387 3/19 3/19 29,040 T201407104 M233 BR 1-438 ON N463 BLACKBIRD STATION ROAD AND BLACKBIRD CREEK T201407105 L1CE BR 1-680 ON SR141 BASIN ROAD OVER US 13 PE 11/20 11/20 924,000 T201407105 M001 BR 1-680 ON SR141 BASIN ROAD OVER US 13 PE INCREASE 411 9/12 9/12 436,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY REPAIRS T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY REPAIRS T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY REPAIRS T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/26 8/28 1 500 000	28,000
T201407104 M233 BLACKBIRD CREEK PE 393 5/16 5/23 47,300 T201407105 L1CE BR 1-680 ON SR141 BASIN ROAD OVER US 13 PE 411 11/20 11/20 924,000 T201407105 M001 BR 1-680 ON SR141 BASIN ROAD OVER US 13 PE INCREASE 411 9/12 9/12 436,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY REPAIRS PE/ROW/CE/T/PD LETTER 6/6/14 6/10 6/10 2,000,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY REPAIRS CONVERT 8/13 8/14 24,520,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/26 8/28 1,500,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/26 8/28 1,500,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/26 8/28 1,500,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/26 8/28 1,500,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/26 8/28 1,500,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/26 8/28 1,500,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/26 8/28 1,500,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/26 8/28 1,500,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/26 8/28 1,500,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/26 8/28 1,500,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/26 8/28 1,500,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/26 8/28 1,500,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/26 8/28 1,500,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVE	29,040
T201407105 M001 BR 1-680 ON SR141 BASIN ROAD OVER US 13 PE INCREASE 411 9/12 9/12 436,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY REPAIRS T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/13 8/14 24,520,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/26 8/28 1 500,000	47,300
T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY REPAIRS PE/ROW/CE/T/PD LETTER 6/10 6/10 2,000,000 T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY REPAIRS CONVERT 8/26 8/28 1,500,000	924,000
T201407107 ER90 REPAIRS T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY REPAIRS T201407107 FR90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT T201407107 FR90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT T201407107 FR90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/26 8/28 1 500 000	436,000
1201407107 ER90 REPAIRS CONVERT 8/13 8/14 24,520,000 T201407107 FR90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY CONVERT 8/26 8/28 1 500 000	2,000,000
1/0140/10/ FR90	24,520,000
REFAIRS	1,500,000
T201407107 ER90 BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY REPAIRS TRAFFIC 8/27 8/28 172,158	172,158
T201407402 M233 BR 1-191 ON N318 MILLTOWN ROAD OVER MILL CREEK PE 375 12/24 12/30 12,600	12,600
T201407402 M233 BR 1-191 ON N318 MILLTOWN ROAD OVER MILL CREEK PE INCREASE 375 4/15 4/15 1,400	1,400
T201407403 H100 BR 1-577 ON N050 NORTHEAST BLVD OVER BRANDYWINE RIVER PE 405 6/10 6/10 510,000	510,000
T201407701 M001 STRUCTURE MAINTENANCE, NORTH DISTRICT, OPEN END, ADVERTISE STIP MOD 4/1 4/2 900,000 FY15-FY17	900,000
T201407701 M001 STRUCTURE MAINTENANCE, NORTH DISTRICT, OPEN END, AWARD 427 6/5 6/5 (81,000)	(81,000)
T201409001 M001 LIGHTING REPLACEMENT, INTERSTATE, OPEN END, FY14- FY17 PE STIP MOD 1/28 1/30 125,000	125,000
T201409001 M001 LIGHTING REPLACEMENT, INTERSTATE, OPEN END, FY14- FY17 ADVERTISE 239 6/24 6/24 1,875,000	1,875,000
T201450301 M400 PARATRANSIT REPLACEMENT BUSES FY14 (69) PRO 780 11/22 11/25 761,000	761,000
T201460002 H480 DBE/SS PROGRAM ACTIVITIES FFY2014 (2) TRAINING STIP MOD 4/30 5/1 147,935	147,935
T201460002 L48E DBE/SS PROGRAM ACTIVITIES FFY2014 (2) TRAINING STIP MOD 4/30 5/1 37,065	37,065
T201460002 L48E DBE/SS PROGRAM ACTIVITIES FFY2014 (2) TRAINING STIP AMEN 8/21 8/21 267,313	267,313
T201463601 M49S SUMMER TRANSPORTATION INSTITUTE 2014 TRAINING 163 5/27 5/28 55,000	55,000

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T201463701	L490	OJT/SS PROGRAM ACTIVITIES FFY2014	TRAINING	161	9/18	9/18	(4,582)	(4,582)
T201463701	L49E	OJT/SS PROGRAM ACTIVITIES FFY2014	TRAINING	161	9/18	9/18	(4,999)	(4,999)
T201463701	M490	OJT/SS PROGRAM ACTIVITIES FFY2014	TRAINING	161	9/18	9/18	(26,319)	(26,319)
T201463701	H490	OJT/SS PROGRAM ACTIVITIES FFY2014	TRAINING	161	9/18	9/18	(141)	(141)
T201463701	Q490	OJT/SS PROGRAM ACTIVITIES FFY2014	TRAINING	161	9/18	9/18	(366)	(366)
T201463702	H490	OJT/SS PROGRAM ACTIVITIES FFY2014 (2)	TRAINING	STIP MOD	4/30	5/1	29,147	29,147
T201463702	H49E	OJT/SS PROGRAM ACTIVITIES FFY2014 (2)	TRAINING	STIP MOD	4/30	5/1	118,853	118,853
T201463702	L49E	OJT/SS PROGRAM ACTIVITIES FFY2014 (2)	TRAINING	STIP AMEN	8/21	8/21	37,104	37,104
T201463702	M490	OJT/SS PROGRAM ACTIVITIES FFY2014 (2)	TRAINING	STIP AMEN	8/21	8/21	36,407	36,407
T201466001	L550	SPR PLANNING PROGRAM 2014	PLANNING	STIP MOD	12/31	1/3	39,965	39,965
T201466001	L550	SPR PLANNING PROGRAM 2014	PLANNING	144	1/10	1/13	(39,965)	(39,965)
T201466001	77FE	SPR PLANNING PROGRAM 2014	PLANNING	144	1/10	1/13	39,965	39,965
T201466001	L550	SPR PLANNING PROGRAM 2014	PLANNING	STIP MOD	3/20	3/20	776,000	776,000
T201466001	L550	SPR PLANNING PROGRAM 2014	PLANNING	STIP MOD	5/12	5/13	16,000	16,000
T201466001	L550	SPR PLANNING PROGRAM 2014	RELEASE	144	6/23	6/24	(8,000)	(8,000)
T201466002	L550	SPR RESEARCH PROGRAM 2014	PLANNING	144	6/25	6/26	8,000	8,000
T201467001	L450	WILMAPCO UPWP 2014	PLANNING	132	1/31	1/31	136,860	136,860
T201467001	L45E	WILMAPCO UPWP 2014	PLANNING	132	1/31	1/31	300,516	300,516
T201469001	LU20	SAFE ROUTES TO SCHOOL, MAPLE LANE, ELBERT-PALMER, AND ST MARY MAGDALEN SCHOOLS	PE INCREASE	104	11/4	11/6	51	51
T201469001	LU20	SAFE ROUTES TO SCHOOL, MAPLE LANE, ELBERT-PALMER, AND ST MARY MAGDALEN SCHOOLS	ADVERTISE	109	7/22	7/25	372,744	372,744
T201469001	HU20	SAFE ROUTES TO SCHOOL, MAPLE LANE, ELBERT-PALMER, AND ST MARY MAGDALEN SCHOOLS	ADVERTISE	109	7/22	7/25	39,824	39,824
T201469009	LU3E	SAFE ROUTES TO SCHOOL LANCASHIRE ELEMENTARY SCHOOL, PLANNING ONLY	PLANNING	109	12/31	12/31	25,000	25,000
T201487702	MS31	TURNED DOWN GUARDRAIL REMOVAL, NORTH, OPEN END, FY15-17	PE	STIP AMEND	8/26	8/28	75,000	75,000
T201487702	MS31	TURNED DOWN GUARDRAIL REMOVAL, NORTH, OPEN END, FY15-17	ADVERTISE	STIP AMEND	9/17	9/18	625,000	625,000
T201487703	MS31	TURNED DOWN GUARDRAIL REMOVAL, CANAL, OPEN END, FY15-17	PE	STIP AMEND	8/26	8/28	75,000	75,000
T201487703	MS31	TURNED DOWN GUARDRAIL REMOVAL, CANAL, OPEN END, FY15-17	ADVERTISE	STIP AMEND	9/19	9/22	723,474	723,474
T201500101	LZ1E	FY2015 HIGHWAY SAFETY IMPROVEMENT PROGRAM	TRAFFIC	97	6/23	6/24	1,069,104	1,069,104

STATE PROJECT <u>NUMBER</u>	APPORT CODE	PROJECT <u>TITLE</u>	REASON	<u>STIP</u>	SUBMIT <u>DATE</u>	AUTH <u>DATE</u>	FED \$ <u>AUTH</u>	FUNDS OBLIGATED <u>TO DATE</u>
T201500102	LS4E	FY2015 HIGHWAY-RAIL GRADE CROSSING PROGRAM- STUDIES	TRAFFIC	93	6/19	6/23	101,613	101,613
T201501001	MS31	FY2014 SECTION 154 PENALTY TRANSFER (SANCTION) PROGRAM	TRAFFIC	STIP MOD	9/2	9/16	1,180,874	1,180,874
T201500508	MS50	PIGEON POINT ROAD (N-377) RAILROAD CROSSING SAFETY IMPROVEMENTS	PE/RR	STIP MOD	9/22	9/23	109,254	109,254
T201500508	LS5E	PIGEON POINT ROAD (N-377) RAILROAD CROSSING SAFETY IMPROVEMENTS	PE/RR	STIP MOD	9/22	9/23	161,746	161,746
T201500513	LS4E	RAILROAD PRELIMINARY ENGINEERING SERVICES	PE	STIP MOD	9/22	9/23	50,000	50,000
T201500513	LS5E	RAILROAD PRELIMINARY ENGINEERING SERVICES	PE	STIP MOD	9/22	9/23	50,000	50,000
T201502501	L97E	ROUTE 9 SCENIC OVERLOOKS	PLANNING	STIP AMEND	9/19	9/22	840,500	840,500
T201504701	M400	FY 15 DELTRAC STATEWIDE PROJECTS	TRAFFIC	180	8/20	9/2	3,000,000	3,000,000
T201504702	L24E	FY 15 DELTRAC SIGNAL INITIATIVES	TRAFFIC	180	8/27	9/2	130,000	130,000
T201504703	L24E	FY 15 DELTRAC PROJECTS STATE-WIDE SUPPORT	TR	180	9/8	9/10	410,935	410,935
T201504703	M240	FY 15 DELTRAC PROJECTS STATE-WIDE SUPPORT	TR	180	9/8	9/10	230,061	230,061
T201504703	L24R	FY 15 DELTRAC PROJECTS STATE-WIDE SUPPORT	TR	180	9/8	9/10	48,702	48,702
T201504703	L240	FY 15 DELTRAC PROJECTS STATE-WIDE SUPPORT	TR	180	9/8	9/10	1,180,301	1,180,301
T201507001	M001	BRIDGE INSPECTION FY15	PE	72	6/24	6/24	1,723,850	1,723,850
T201507001	Q100	BRIDGE INSPECTION FY15	PE	72	6/24	6/24	243,075	243,075
T201507101	ER90	BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY REPAIRS, PHASE 2	CONVERT		8/13	8/14	3,150,000	3,150,000
T201530001	L94E	RECREATIONAL TRAILS FY15 WORK PLAN	OTHER	67	9/25	9/25	845,513	845,513
T201560001	L48E	DBE/SS PROGRAM ACTIVITIES FFY 2015	TRAINING	153	9/15	9/16	56,732	56,732
T201560001	M480	DBE/SS PROGRAM ACTIVITIES FFY 2015	TRAINING	153	9/15	9/16	566	566
T201560001	M480	DBE/SS PROGRAM ACTIVITIES FFY2015	TRAINING	153	9/19	9/19	45,797	45,797
T201561002	LZ2E	FHWA FMIS UPGRADE	OTHER	ADMIN	9/12	9/16	200,000	200,000
T201563701	H490	OJT/SS PROGRAM ACTIVITIES FFY2015	TRAINING	161	9/19	9/19	141	141
T201563701	L490	OJT/SS PROGRAM ACTIVITIES FFY2015	TRAINING	161	9/19	9/19	4,582	4,582
T201563701	L49E	OJT/SS PROGRAM ACTIVITIES FFY2015	TRAINING	161	9/19	9/19	4,999	4,999
T201563701	M490	OJT/SS PROGRAM ACTIVITIES FFY2015	TRAINING	161	9/19	9/19	27,425	27,425
T201563701	Q490	OJT/SS PROGRAM ACTIVITIES FFY2015	TRAINING	161	9/19	9/19	366	366
T201566001	L55E	SPR PLANNING PROGRAM FY2015	PLANNING	144	7/18	7/18	3,744	3,744
T201566001	M550	SPR PLANNING PROGRAM FY2015	PLANNING	144	7/18	7/18	1,488,589	1,488,589
T201566002	M560	SPR RESEARCH PROGRAM FY2015	PLANNING	144	9/19	9/22	310,644	310,644
T201567001	77FE	WILMAPCO UPWP FY2015	PROGRAM	132	7/17	7/18	292,188	292,188

STATE PROJECT <u>NUMBER</u>	APPORT CODE	PROJECT <u>TITLE</u>	<u>REASON</u>	<u>STIP</u>	SUBMIT <u>DATE</u>	AUTH DATE	FED \$ <u>AUTH</u>	FUNDS OBLIGATED <u>TO DATE</u>
T201567001	L45E	WILMAPCO UPWP FY2015	PROGRAM	132	7/17	7/18	157,024	157,024
T201567001	L45R	WILMAPCO UPWP FY2015	PROGRAM	132	7/17	7/18	12,990	12,990
T201567001	M450	WILMAPCO UPWP FY2015	PROGRAM	132	7/17	7/18	1,148,878	1,148,878
T201568002	L560	LTAP FY2015	PLANNING	130	9/19	9/22	142,030	142,030
T201568002	M560	LTAP FY2015	PLANNING	130	9/19	9/22	52,960	52,960
T201568002	M438	LTAP FY2015	PLANNING	130	9/19	9/22	140,000	140,000
T201569001	LU20	SAFE ROUTES TO SCHOOL, HARLAN, HANBY AND LANCASHIRE SCHOOL	PE	109	7/21	7/21	125,000	125,000

167,611,552.41	FY2014 OBLIGATIONAL AUTHORITY
0.00	FY2014 SPECIAL LIMITATION EARMARK OBLIGATIONAL AUTHORITY
331,649,503.00	FY2014 ORIGINAL PLANNED OBLIGATIONS
0.00	FY2014 BALANCE OF PLANNED OBLIGATIONS
167,611,552.42	FY2014 OBLIGATIONS TO DATE
(0.01)	FY2014 BALANCE OF OBLIGATIONAL AUTHORITY

ADVANCED CONSTRUCTION PROJECTS REMAINING					Red = issue	
					Tan = New AC	
T20140710 7	M001	BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY REPAIRS	AC BALANCE		8,153,066.00	
T20150710 1	M001	BR 1-813 ON I-495 OVER CHRISTINA RIVER, EMERGENCY REPAIRS, PHASE 2	AC BALANCE	_	4,365,000.00	
T20110930 1	L240	STATEWIDE TRAFFIC SIGNAL RELAMPING	AC BALANCE		1,000,000.00	START
T20130340 1	M001	INTERSTATE MAINTENANCE DRAINAGE REPAIR, FY14-FY16, OPEN-END	AC BALANCE		820,321.81	START
T20130340 1	M001	INTERSTATE MAINTENANCE DRAINAGE REPAIR, FY14-FY16, OPEN-END	CONVERT	_	-	
T20140900 1	M001	INTERSTATE OPEN END LIGHTING	AC BALANCE		1,000,000.00	
	M001	INTERSTATE ROADWAY OPEN END DRAINAGE	AC BALANCE		1,000,000.00	
	L23E	SR 2, SOUTH UNION STREET FROM RAILROAD BRIDGE TO SYCAMORE STREET, WILMINGTON	AC BALANCE		-	START
	L23E	SR 2, SOUTH UNION STREET FROM RAILROAD BRIDGE TO SYCAMORE STREET, WILMINGTON	CONVERT		2,677,221.94	
	M230	CHRISTINA RIVER BRIDGE AND APPROACHES	AC BALANCE		19,520,000.00	NEW
	M230	CHRISTINA RIVER BRIDGE AND APPROACHES	CONVERT		-	
T20051060 2	L05E	I- 95/US202 INTERCHANGE	AC BALANCE		9,620,371.39	START
T20051060 2	L05E	I- 95/US202 INTERCHANGE	CONVERT		2,473,590.35	
	M001	I-95 AND SR141 RAMPS G & F IMPROVEMENTS	AC BALANCE	ADD 2/16/14	23,589,226.07	
	L05E	I-95 AND SR141 RAMPS G & F IMPROVEMENTS	CONVERT		-	
	L010	NORTH DISTRICT STRUCTURAL MAINTENANCE	AC BALANCE		-	
	L010	NORTH DISTRICT STRUCTURAL MAINTENANCE	CONVERT			
T20076900 1	LU20	SAFE ROUTES TO SCHOOL INFRASTRUCTURE, NEW CASTLE COUNTY	AC BALANCE		10,000.00	START
T20076900 3	LU20	SAFE ROUTES TO SCHOOL INFRASTRUCTURE, SUSSEX COUNTY	AC BALANCE		15,000.00	START

T20106900 2		LU10	SAFE ROUTES TO SCHOOL, EDUCATION AND ENFORCEMENT 2010, STATEWIDE	AC BALANCE		22,186.00	START	
T20106900 3		LU30	SAFE ROUTES TO SCHOOL, PLANNING AND PROGRAM MANAGEMENT 2010, STATEWIDE	AC BALANCE		44,372.00	START	
T20100470 1		L240	FY10 DELTRAC PROJECTS STATE-WIDE SUPPORT	AC BALANCE		400,000.00	START	
T20096600 1		L550	2009 STATEWIDE PLANNING AND TRAFFIC PROGRAM	AC BALANCE		430,000.00	START	
T20126600 2		L56E	SPR RESEARCH PROGRAM 2012	AC BALANCE		37,403.50	START	
T20110100 1		LS30	2011 HIGHWAY SAFETY IMPROVEMENT PROGRAM- STUDIES	AC BALANCE		202,500.00	START	
T20103000 1		L94E	RECREATIONAL TRAILS FY10-11 WORK PLAN	AC BALANCE		420,400.00	START	
T20135030 2		Q400	TRANSIT VEHICLE REPLECEMENT 40' HEAVY DUTY LOW BUSES NCC FY14-15	AC BALANCE		_	START	
T20135030 2		Q400	TRANSIT VEHICLE REPLECEMENT 40' HEAVY DUTY LOW BUSES NCC FY14-15	CONVERT		1,042,488.58		
T20135030 2		L400	TRANSIT VEHICLE REPLECEMENT 40' HEAVY DUTY LOW BUSES NCC FY14-15	AC BALANCE		_	START	
T20135030 2		L400	TRANSIT VEHICLE REPLECEMENT 40' HEAVY DUTY LOW BUSES NCC FY14-15	CONVERT		1,107,931.91		
T20135030 2		L40E	TRANSIT VEHICLE REPLECEMENT 40' HEAVY DUTY LOW BUSES NCC FY14-15	AC BALANCE		-	START	
T20135030 2		L40E	TRANSIT VEHICLE REPLECEMENT 40' HEAVY DUTY LOW BUSES NCC FY14-15	CONVERT		3,880,546.26		
T20135030 2		M400	TRANSIT VEHICLE REPLECEMENT 40' HEAVY DUTY LOW BUSES NCC FY14-15	AC BALANCE		-	START	
T20135030 2		M400	TRANSIT VEHICLE REPLECEMENT 40' HEAVY DUTY LOW BUSES NCC FY14-15	CONVERT		6,276,933.25		
T20065030 4	A999105	L240	(58) 40' AND (10) 30' BUSES FY08/FY09 SPEND	AC BALANCE		4,612,600.00	START	
T20050410 4		L05E	BOYDS CORNER INTERSECTION IMPROVEMENTS	AC BALANCE		0.00	START	
T20101130 3		L05E	US 301, GARVEE DEBT SERVICE	AC BALANCE		115,328,837.50	START	
T20101130 3		M001	US 301, GARVEE DEBT SERVICE	CONVERT		_		
		L05E	SR1/I-95 INTERCHANGE	AC BALANCE	ADDED 10/2/13	-	START	
		L05E	SR1/I-95 INTERCHANGE	CONVERT		1,993,839.62		

T20080090 1	MS30	US 9 (HSIP) CONS	AC BALANCE		START
T20080090 1	MS30	US 9 (HSIP) CONS	CONVERT	_	
T20126800 1	L56E	LOCAL TRANSPORTATION ASSISTANCE PROGRAM 2012	AC BALANCE	202,684.00	START
T20146800 1	M560	LOCAL TRANSPORTATION ASSISTANCE PROGRAM 2014	AC BALANCE	45,777.19	START
T20120610 5	M230	PAVEMENT & REHABILITATION, NORTH V, 2012	AC BALANCE	1,371,892.44	
	M439	EDUCATION AND TRAINING	AC BALANCE	200,000.00	
T20140770 1	M001	STRUCTURE MAINTENANCE, NORTH DISTRICT, OPEN END, FY15-FY17	AC BALANCE	1,636,228.13	
T20140900 1	M001	LIGHTING REPLACEMENT, INTERSTATE, OPEN END, FY14-FY17	AC BALANCE	822,850.00	
T20140400 3	M240	FY15 TRAFFIC INTERSECTION IMPROVEMENTS PROGRAM	AC BALANCE	1,000,000.00	
			CURRENT AC BALANCE	212,786,851	
			PLAN END OF YEAR AC BALANCE	193,334,300	.08

DelDOT Federal Funding Codes

CODE	FUND NAME
33E0	AREAS <5000
0100	CONSOLIDATED PRIMARY
0420	INTERSTATE 56
800	PLANNING & RESEARCH 1 1/2% HPR
810	METRO PLAN/RD&TT
860	METRO PLAN/RD&TT
1140	BRIDGE R/R ON/OFF
1170	BRIDGE R/R OFF
1180	BRIDGE R/R ON
1390	RAIL HIGHWAY CROSS
1410	HAZARD ELIMINATION
2120	MOTOR CARRIER SAFETY GRANT
2160	FMCSA_CDL IMPROV GRANTS
3150	NATIONAL HIGHWAY
3170	RESTORATION
3200	CONGEST MITIGATION
3260	ITS
3730	NITTEC RESEARCH & TECH
3840 NATIONAL REC TRAILS	
3900	IVHS
3910	IVHS ACTIVITIES
4380	LOCAL TECH ASSIST PGRM
04M0	INTERSTATE MAINT
04M0	RURAL SECONDARY
09J0	ER 2004 HURRICANES ADDL FUND
0980	ER 2004 HURRICANES INFRA
09V0	EMERGENCY FED AIDE
09X0	EMERGENCY FED AIDE
12C0	MINORITY BUSINESS
21C0	CDL
2A20	FMCSA SAFETY GRANTS
33A0	OPT SAFETY
33B0	TRANS ENHANCEMENTS
33C0	URBAN 200,000+
33D0	STATE FLEXIBILITY
33M0	PROTECT DEVICES
33N0	ELIM OF HAZARDS
33P0	HAZARD ELIMINATION

CODE	FUND NAME
37A0	LTAP
37P0	LTAP
38B0	NATIONAL REC TRAILS - ADMIN
3AA0	URBAN - 200,000
438E	LTAP S-LU EXT
56C0	SURFACE TRANS PRIORITIES
5G20	BRIDGE RESEARCH & DEPLOY
5G20	FMCSA BEPO-DL & SSN VERIFY
77FE	FTA CONSOLID PLAN TRF TO FHWA
92C0	TRANS/COM SYS PILOT PRG
9BA0	COVERED BRIDGES (100%)
C200	ARRA AREA WITH POP<200K
C220	ARRA TRANSPORTATION ENHANCEMENTS
C230	ARRA URBANIZED AREAS >200K
C240	ARRA AVAIL FOR ALL AREA (FLEX
C242	ARRA UPWARD ADJUSTMENT
C243 ARRA AVAIL FOR ALL AREA (FLEX	
C250	ARRA RURAL POP <5K
D010	DELAWARE MEMORIAL
F13E	PUBLIC LANDS HWY S-LU EXT
H010 INTERSTATE MAINT	
H020 INTERSTATE MAINT DISC	
H030	REDISTRIBE OF AUTH
H050	NATIONAL HIGHWAY
H060	BRIDGE DISCRETIONARY
H070	BRIDGE DISCRETIONARY
H080	OP MOT VEH/INTOX
H100	BRIDGE R/R ON
H110	BRIDGE R/R OFF
H120	BRIDGE R/R ON/OFF
H170	SEC 115 UNOBL. BALANCE
H1C0	HWY BR PROG 85% ON/OFF
H200	URBAN - 200,000
H210	OPT SAFETY
H220	TRANS ENHANCEMENTS
H230	URBAN 200,000+
H240	STATE FLEXIBILITY
H250	AREAS <5000

CODE	FUND NAME
H260	PROTECT DEVICES
H270	ELIM OF HAZARDS
H280	HAZARD ELIMINATION
H400	CONGEST MITIGATION
H450	PLANNING
H490	SUPPORTIVE SERVICES
H550	SPR - PLANNING
H560	SPR - RESEARCH
H660	GRANTS SUP PLAN HWY STP SEC 117
H760	MINIMUM GUAR - SPEC
H770	MINIMUM GUAR - EXEMPT
H780	MINIMUM GUAR - LIMIT
H890	LTAP
H940	NATIONAL REC TRAILS
H960	HIGHWAY USE TX EVASION
H970	SCENIC BYWAYS
HT80	ITS DEPLOYMENT - METL *
HU10	SAFE RTS TO SCHOOL PROG
HU20	SAFE RTS TO SCHOOL INFR
HU30	SAFE RTS TO SCHOOL EITHER
HX20	TECH DEPLOY PRG-INNOV BR
HX80	SURF TRAN RSCH-STRUCTURES
HY10	HIGH PRIORITY - SEC 1702
HY20	HIGH PRIORITY - SEC 117
L00E	EXT ALLOC PGM
L010	INTERSTATE MAINT
L01E	INTERSTATE MAINT S-LU EXT
L01R	INTERSTATE MAINT RE
L020	IM DISCRETIONARY
L030	REDISTIB CERTAIN AUTHOR
L03E	REDISTIB CERTAIN AUTHOR
L050	NATIONAL HIGHWAY
L05E	NHS NATIONAL HIGHWAY S-LU EXT
L05R	NATIONAL HIGHWAY RE
L10R	BRIDGE 65% ON
L110	BRIDGE 15% OFF
L11E	BRIDGE PROG 15% OFF S-LU EXT
L11R	BRIDGE 15% OFF RE

CODE	FUND NAME			
L12R	BRIDGE R/R 20% ON/OFF RE			
L1C0	HWY BR PROG 85% ON/OFF			
L1CE	BRIDGE 85% ON/OFF S-LU EXT			
L1CR	BRIDGE 85% ON/OFF S-LU RE			
L200	URBAN - 200,000			
L20E	STP <200,000 S-LU EXT			
L20R	URBAN - 200,000 RE			
L21R	OPT SAFETY RE			
L220	TRANS ENHANCEMENTS			
L22E	STP ENHANCEMENT S-LU EXT			
L22R	TRANS ENHANCEMENTS RE			
L230	URBAN 200,000+			
L23E	STP URBANIZED AREAS S-LU EXT			
L23R	URBAN 200,000+ RE			
L240	STATE FLEXIBILITY			
L24E	SURFACE TRANS FLEX S-LU EXT			
L24R	STATE FLEXIBILITY RE			
L250	AREAS <5000			
L25E	STP <5K POPULATION S-LU EXT			
L25R AREAS <5000 RE				
L26R	RAIL/HWY PROTECT DEVICES RE			
L27R	RAIL/HWY CROSS HAZA ELIM RE			
L28R	HAZARD ELIMINATION RE			
L400	CONGEST MITIGATION			
L40E	CONGESTION MITIGATION S-LU EXT			
L40R	CONGEST MITIGATION RE			
L450	METRO PLANNING			
L45E	1.25% S-LU EXT			
L45R	METRO PLANNING 1.25% RE			
L48E	MIN BUSINESS ENTERPRISE			
L490	SUPPORTIVE SERVICES			
L49E	SUPPORTIVE SERVICES			
L550	SPR - PLANNING			
L55E	2% S-LU EXT			
L560	SPR - RESEARCH			
L56E	25% PL S-LU EXT			
L680	TRAN COMM SYS PRES			
L940	NATIONAL REC TRAILS			
L94E	RECREATIONAL TRAILS S-LU EXT			
L94R	NATIONAL REC TRAILS RE			
L970	NATIONAL SCENIC BYWAYS			
L97E	NATIONAL SCENIC BYWAYS			

CODE	FUND NAME	
LHIP	HIGWAY INFRASTRUCTURE	
LS20	HSIP HIGH RISK RURAL ROAD	
LS2E	HSIP HIGH RISK RU RD S-LU EXT	
LS2R	HSIP HIGH RISK RURAL ROAD RE	
LS30	HSIP	
LS3E	HIGHWAY SFE S-LU EXT	
LS40	RAIL/HWY CROSS HAZA ELIM	
LS4E	RL HWY CROSS HAZ ELIM S-LU EXT	
LS4R	RAIL/HWY CROSS HAZA ELIM RE	
LS50	RAIL/HWY PROTECT DEVICES	
LS5E	RL HWY PROTECT DEV S-LU EXT	
LU10	SAFE RTS TO SCHOOL PROG	
LU1E	SAFE ROUTES TO SCHOOL S-LU EXT	
LU1R	SAFE RTS TO SCHOOL RE	
LU20	SAFE RTS TO SCHOOL INFR	
LU2E	SAFE ROUTES TO SCHOOL S-LU EXT	
LU2R	SAFE RTS TO SCHOOL RE	
LU30	SAFE RTS TO SCHOOL EITHER	
LU3E	SAFE ROUTES TO SCHOOL S-LU EXT	
LU3R	SAFE RTS TO SCHOOL EITHER RE	
LY10	HIGH PRIORITY - SEC 1702	
LY20	HIGH PRIORITY - SEC 117	
LY30	TRANSPORTATION IMP PROJ	
LY60	2006 SURFACE TRANS. PROJ	
LY90	XXXXX	
LZ10	EQUITY BONUS EXEMPT LIM	
LZ1E	EQ BONUS EXEMPT LIM S-LU EXT	
LZ1R	EQUITY BONUS RESTORED	
LZ20	EQUITY BONUS LIMITATION	
LZ2E	EB S-LU EXT	
M001	NATIONAL HIGHWAY PERF PROGRAM	
M002	NATIONAL HIGHWAY PERF EXEMPT	
M003	PROJECTS TO REDUCE PM 2.5 EMI	
M030	REDISTIB CERTAIN AUTHOR	
M230	STP-URBANIZED >200K MAP-21	
M231	STP-AREAS WITH POP OVER 5K to 200K	
M232	STP <5K POPULATION -MAP-21	
M233	STP OFF - SYSTEM BRIDGE	
M240	SURFACE TRANS FLEX- MAP-21	
M300	TRANSP ALTERNATIVES PROG FLEX	
M301	TAP - URBANIZED AREAS POP > 200K	
M302	TAP - AREAS POP 5K - 200K	

CODE	FUND MANAE
CODE	FUND NAME
M303	TAP - AREAS POP 5K AND UNDER
M400	CONGEST MITIGATION MAP-21
M438	TRAINING AND EDUCATION
M439	TRAINING AND EDUCATION
M450	METROPOLITAN PLANNING MAP-21
M490	LONG TERM PAVEMENT PERFORMANCE
M49S	SAFE RTS TO SCHOOL PROG
M550	STATEWIDE PLANNING MAP-21
M560	RESEARCH DEVT AND TECH TRANS
M940	RECREATIONAL TRAILS MAP-21
M941	RETURN 1% RTP ADMIN MAP-21
MS30	HWY SAFETY PROG
MS31	SEC 154 PENALTIES-FOR HSIP
MS40	RAIL HWY CROSSING HAZARD ELIM
MS50	RAIL HWY PROTECT DEV MAP-21
NEO0	NEW ENTRANTS SAFETY AUDITS
Q010	INTERSTATE MAINT
Q020	IM DISCRETIONARY
Q030	REDISTRIBE OF AUTH
Q040	SEAT BELT SAFETY
Q050	NATIONAL HIGHWAY
Q060	BRIDGE DISCRETIONARY
Q100	BRIDGE R/R ON
Q110	BRIDGE R/R OFF
Q120	BRIDGE R/R ON/OFF
Q200	URBAN - 200,000
Q210	OPT SAFETY
Q220	TRANS ENHANCEMENTS
Q230	URBAN 200,000+
Q240	STATE FLEXIBILITY
Q250	AREAS <5000
Q260	PROTECT DEVICES
Q270	ELIM OF HAZARDS
Q280	HAZARD ELIMINATION
Q400	CONGEST MITIGATION
Q450	PLANNING
Q480	MIN BUSINESS ENTERPRISE
Q490	SUPPORTIVE SERVICES
Q490	SUPPORTIVE SERVICES
Q550	SPR - PLANNING
Q560	SPR - RESEARCH
Q670	TRANS RESEARCH PLAN

CODE	FUND NAME
Q680	TRAN COMM SYS PRES ST TEA21
Q760	MINIMUM GUAR - SPEC
Q770	MINIMUM GUAR - EXEMPT
Q780	MINIMUM GUAR - LIMIT
Q890	LTAP
Q920	HIGH PRIORITY PROJECTS
Q940	NATIONAL REC TRAILS
Q960	MOTOR FUEL TAX COMPL
Q970	SCENIC BYWAYS
QR60	SFC TRANS RESEARCH
QT20	ITS STDS RESCH OP TEST
QT30	STP-1/4 OF 1% HWY USE TAX EVAS
QT80	ITS DEPLOYMENT - METL *
QT90	INNOVATIVE BRIDGE
QX20	TECH DEPLOY PRG-INNOV BR
QX50	LITHIUM FIELD TREATMENT
W360	URBAN SYSTEMS

APPENDIX E

TIP Development and Amendment Process

E-1

WILMAPCO TIP Development Process FY 2017-2020 TIP

(Italic font refers to current FY2016-19 TIP)

2015

- January V Request for FY 2017-20 TIP submissions sent out (including submission for the FY 2016 UPWP)
- \bigvee Meet with local government to get project submissions
- February V Joint WILMAPCO/DelDOT public meeting to get feedback on submissions (2/23)
- March V Deadline for project submissions, including DelDOT Pipeline (3/12)
- April V NMTWG reviews bicycle and pedestrian submissions and technical scores for FY 2017-20 TIP
- CMS reviews submissions and congestion criteria technical scores for FY 2017-20 TIP
- AQ reviews submissions and air quality technical scores for FY 2017-20 TIP (4/9)
- TAC reviews submissions and technical scores for FY 2017-20 TIP (4/16)
- May V Council approves prioritized project list for inclusion in DelDOT FY 2017-22 CTP (5/14)
- July DelDOT provides proposed amendments to FY 2016-19 TIP based on state funding in the Delaware FY 2016 Bond Bill
- and regionally significant amendments must reflect WILMAPCO priorities. (7/9) Council releases amendments to FY 2016-19 TIP for public comment period. Federally-funded
- August amendments as needed Joint WILMAPCO/DelDOT public meeting to seek comments on proposed FY 2016-19 TIF
- PAC (8/17) /TAC (8/20) take action on amendments to FY 2016-19 TIP as needed
- September V Council amends FY 2016-19 TIP as needed (9/10)
- October 0 V incorporating WILMAPCO priorities, for discussion with TAC/AQS/Council DelDOT provides WILMAPCO with its submission to the FY 2017 Delaware Budget Office,
- **December** V DelDOT supplies WILMAPCO with revised project funding and descriptions 1st week for the FY 2017-20 TIP
- VV PAC (12/14)/TAC (12/17)/AQ (12/17) review draft FY 2017-20 TIP
- Air Quality Conformity Determination completed

2016

- January V FY 2017-20 TIP released for 30-day public comment (including outreach) local government/public
- February VVV Joint WILMAPCO/DelDOT workshop on draft FY 2017-20 TIP (2/24)
 - Revise FY 2017-20 TIP based on public comments
- PAC (2/22)/TAC (2/18) adoption of FY 2017-20 TIP
- March V Council adoption of FY 2017-20 TIP (3/10)



TRANSPORTATION IMPROVEMENT PROGRAM SUBMISSION/AMENDMENT FORM

This form must be completed and all questions must be answered in order to process this request

This form mast or completed and an daestrons mast or answered in order to process this reducst:	e compre	יכט שווט שוו לונ	Testions illust	De alloweten in	n order to broc	css uns reque	Jt.
Date of Submission/Amendment:	ion/Ame	ndment:					
Sponsoring Agency:	ıcy:						
Project Name:							
Project Category:	:						
Project Description:	ion:						
c							
Funding: Federal	eral	State	Local		Total		
Funding Phase	ě	Current	FY 20	FY 20	FY 20	FY 20	Total
Total							

All \$s x 1,000



Transportation Improvement Program Submission/Amendment Description of Public Participation

Project Name:
Which techniques were used to seek public comment (please use additional pages if needed). Public workshops/meetings
Number of public workshops/meetings:
Location(s):
Number of attendees:
Main issue raised:
Consensus of meeting: Overall, the public support for the project was (check one):
Strong support, few concernsSome opposition, many concerns
support, but some concerns
raisedStrong opposition, major problems
opposition
Unresolved issues identified:
Citizen Advisory/Steering Committee
Survey
Number surveyed: Results:
Elected officials briefings
Project web site
Other
ic notified about the project?
Web pagePublications Distribution:
Legal noticeNewsletter/brochure
VideosFlyers
Radio/television
Other
How has the project changed as a result of public comments?
Someont further on the guaratity and guality of the public participation.
Confinent in the off the quality and quality of the public participation.

Transportation Improvement Program Submission

Description: Please describe the transportation problem you would like to have fixed (continue on the back, if necessary).

Thank you for your submission. Send this form to: WILMAPCO 850 Library Ave. Fa Suite 100 Newark, DE 19711	Phone Number	Name Organization (if applicable) Mailing Address	Contact Information: In case we require more information to help identify or solve the problem, we ask that you please provide us with contact information.	Location: Identify the town, community or area(s) where the problem occurs. Then provide the exact streets or other landmarks or attach a map.	What would your solution improve? Congestion Safety Convenience Appe	Solution: Do you have a suggestion on how to resolve the problem?	Frequency of Occurrence: Please identify how often the problem occurs.
Phone (302) 737-6205 (Cecil County- 888-808-7088) Fax (302) 737-9584 Email WILMAPCO@WILMAPCO.org Website www.wilmapco.org			ormation to help identify or solve the problem, we ask that you	ne problem occurs. Then provide the exact location using cross	Appearance Other O	problem?	often the problem occurs.

E-5



APPENDIX F

WILMAPCO Prioritization and Project Submissions



PROJECT PRIORITIZATION PROCESS

using measurable criteria based on the goals of our long-range plan. quantitative method to compare projects proposed for our Transportation Improvement Program (TIP) and Regional Transportation Plan (RTP). WILMAPCO has created a Prioritization process to evaluate transportation projects It provides a

STEP 1: Apply screening criteria

land use plans? Is project consistent with the Regional Transportation Plan and local, county and state transportation plans and

If not, project should not be ranked or plan amendments should be made prior to ranking

STEP 2: Staff calculates technical score

- the goals and objectives of the Regional Transportation Plan. Using available technical data, WILMAPCO Staff calculates a technical score for each project based on
- Each goal has a similar point value, with the maximum for each project of 33 points

STEP 3: WILMAPCO's Technical Advisory Committee (TAC) reviews technical

scoring for accuracy and proposes ranking considering:

proposes ranking considering: WILMAPCO's Technical Advisory Committee (TAC) reviews technical scoring for accuracy and

- Technical score developed by staff
- Urgency of project
- Cost effectiveness/ life cycle costs
- Private/local funding match provided
- Project recommended in adopted transportation plan
- lower local priorities Submitting agency rankings by ensuring that top local priorities receive higher WILMAPCO ranking than
- Other issues not included in ranking
- Additional "special considerations" to break ties and serve as a reality check

STEP 4: WILMAPCO Council ranks submissions

Council ranks submissions considering

- Technical score developed by staff and reviewed by TAC
- TAC proposed ranking
- Urgency of project
- Cost effectiveness/ life cycle costs
- Private/local funding match provided
- Project recommended in adopted transportation plan
- Submitting agency rankings by ensuring that top local priorities receive higher WILMAPCO ranking than
- Other issues not included in ranking
- Additional "special considerations" to break ties and serve as a reality check

1: Improve Quality of

(Max. 10 points)

- Protect the public health, safety and welfare
- Preserve our natural, historic and cultural resources
- Support existing municipalities and communities
- Provide transportation opportunity and choice

Criteria:

- Air Quality Project expected to improve air quality by:
- reducing emissions
- reducing VMT (Vehicle Miles Traveled)
- not adding capacity
- increasing access to non-auto modes
- Project expected to substantially improve air quality (all four bullets apply)
- Project expected to slightly improve air quality (2-3 bullets)
- 0 No expected air quality impact (does not add capacity)
- Negative air quality impact expected
- **Environmental Justice** Project enhances environment in locations with a high percentage of low-income and/or minority residents. Supportive projects reduce risk of accidents, and/or enhance neighborhoods. Negative impacts and/or increased traffic through neighborhoods. include increased accident risk for vehicular and/or non-motorized traffic, displacement of homes or businesses,
- ے ω Project supports environmental justice in area with high low-income or minority population Project supports environmental justice in area with above average low-income or minority population
- 0 Project does not impact environmental justice
- Project negatively impacts area with above average low-income or minority population Project negatively impacts area with high low-income or minority population

F-2

- ယ်
- priority and zero being the lowest. Points are assigned based on the following: **Safety** – An "aggregate" scoring system combines the absolute number of accidents and the rate at which accidents occur per 1 million miles of VMT to be used. Scoring is based on a 4-point maximum scale with 4 being the highest

Crash rate per 1 million miles VMT (past 5 years)

- Greater than 3 times the County average
- 2 to 3 times County average At or below the County average
- 0

Total number of crashes (past 5 years)

- 200+ accidents s
- 100-200 accidents
- Less than 100 accidents

0

Efficiently Transport People

(Max. 12 points)

- Improve transportation system performance
- Promote accessibility, mobility and transportation alternatives

Criteria:

Congestion Management System – Corridor improvement recommended in CMS or location with Level of Service (LOS) E or F

If recommended in CMS or LOS E/F*:

- N Project within a CMS corridor identified by the CMS Subcommittee
- Road segment with LOS E or F but outside of identified CMS corridors
- * If project meets the above CMS criteria, then the following two criteria will be calculated in addition to the points awarded above.
- + Average Annual Daily Traffic (AADT)
- Greater than 60,000 AADT
- 40,000 60,000 AADT
- 4 & 40 20,000 - 40,000 AADT
- Less than 20,000 AADT

+ Transit Usage

Transit Load Factor by segment based on the average # of riders vs. # of available seats

- Greater than 35% capacity
- $\rightarrow N \omega$ 25 – 35% capacity

F-3

- 15 25% capacity
- Less than 15% capacity

0

- <u>Transportation Justice</u> Use percentage of zero-car households, elderly & persons with disabilities instead of low-income/minority (thresholds as determined by EJ report, Phase II), identify projects that support nonmotorized or transit alternatives
- $0 \rightarrow \omega$ Supportive project within an area of high concentrations of mobility-constrained populations
 - Supportive project within an area of moderate concentrations of mobility-constrained populations
- Does not improve mobility or ease access to transportation choices

Support Economic Activity and Growth Max 11 pts.)

- Ensure a predictable public investment program to guide private sector investment decisions Plan and invest to promote the attractiveness of the region

Criteria:

- time delays which hamper the efficient movement of truck traffic which can effect economic growth and Freight - Scores using the three-tiered scoring defined in the WILMAPCO Freight & Goods Movement Analysis.

 Bottlenecks are identified using high truck trip generating traffic zones, areas of high truck crash frequencies and travel competitiveness.
- 4 "Significant Bottleneck" – Refers to segments with multiple failing criteria, and generally includes roadways which carry the highest traffic volumes and experience heaviest congestion. "Moderate Bottleneck" – Refers to segments that are experiencing some failing, or nearly failing, criteria.
- ω at more modest levels. There is more variation in scoring across the criteria, with some criteria demonstrating failure and others
- N Minor Bottleneck" Minor Bottleneck" – Refers to segments that experience one or more criteria that are near failing. most have only a few criteria showing near failure, others are at acceptable levels. While
- 0 All other road segments

•

- **Support of Economic Development Initiatives** Projects that support economic development initiatives. Those include adding or improving access to brownfield locations; an existing or planned site used for employment, tourism, manufacturing, commercial or industrial purposes; or addresses an issue identified through regional economic development planning.
- For New Castle County, use DE Office of State Planning Policies and Spending map. Areas are defined as follows:

 <u>Investment Level 1:</u> Dense areas within municipalities, urban places, high density areas and areas with
- infrastructure and services (i.e. sewer, water, transit, etc...).
- Investment Level 2: Less developed municipal areas or fast-growing areas. Also identifies areas in which full services are expected or planned.
- For Cecil County, use the State Priority Funding Areas and County Certified Areas

F-4

- Project located in Delaware Investment Level 1 area or Maryland Priority Funding Area Project located in Delaware Investment Level 2 area or Cecil County Certified Area
- 0 Project not located in either of the above areas
- Private or local funding contribution -Local and/or private commitment demonstrated by funding contribution
- Greater than 80% through private/local funds
- 4 2 1 0 60-80% funded through private/local funds
 - 40-60% funded through private/local funds
- Less than 20% through private/local fund 20-40% funded through private/local funds

Wilmington Area Planning Council

850 Library Avenue, Suite 100
Newark, Delaware 19711
302-737-6205; Fax 302-737-9584
From Cecil County: 888-808-7088
e-mail: wilmapco@wilmapco.org
web site: www.wilmapco.org

WILMAPCO Council:

Connie C. Holland, Acting Chair Delaware Office of State Planning Coordination, Director

Jennifer L. Cohan
Delaware Dept. of Transportation
Secretary

Thomas P. Gordon
New Castle County
County Executive

Donald A. Halligan
Maryland Dept. of Transportation
Director, Office of Planning
and Capital Programming

Bill Miners Chesapeake City Councilman

Tari Moore
Cecil County Executive

John Sisson
Delaware Transii Corporation
Chief Executive Officer
Michael Spencer
Mayor of Town of Newport

Dennis P. Williams Mayor of Wilmington

WILMAPCO Executive Director Tigist Zegeye

May 15, 2015

Hon. Jennifer L. Cohen, Secretary Delaware Department of Transportation 800 Bay Road

P.O. Box 778

Dover, DE 19903

RE: Prioritization for the FY 2017-2020 Transportation Improvement Program

Dear Ms. Cohen:

May 14 meeting, through the process described in the MOA between WILMAPCO and DelDOT. I am writing to submit priority projects as voted on by WILMAPCO Council at their

For the FY 2017-2020 Transportation Improvement Program (TIP) and the New Castle County element of the Delaware CTP, the priority is to:

- Adequately fund preservation and safety projects.
- priority based upon technical scores. A prioritized project list is enclosed deferred, use project priority to guide which projects would be delayed, setting Complete projects in the approved FY 2016-2019 TIP. If projects must be
- service dates, setting priority based upon technical scores. The prioritized list of projects not in the TIP list is enclosed. Complete projects in constrained RTP project list according to the identified in-
- funding levels allow for additional projects, setting priority based upon technical Use prioritized list of projects not in the TIP to identify other regional priorities if

of CMAQ eligible projects identified by the WILMAPCO Air Quality In selecting CMAQ-funded projects, we recommend drawing from the enclosed list Nonmotorized Transportation Working Group Subcommittee. Also enclosed are project recommendations from the WILMAPCO



Once DelDOT has prioritized projects statewide, we look forward to hearing the status of our submissions. If you have any questions, please call 302-737-6205 to speak to me (ext. 114) or Heather Dunigan (ext. 118).

Sincerely,

Tigist Zegeye

Executive Director

Enclosures (3)

Cc: Drew Boyce, DelDOT Bill Geronimo, DelDOT Bruce Allen, DelDOT Heather Dunigan, WILMAPCO Mark Tudor, DelDOT Earle Timpson, DelDOT WILMAPCO Council

	Adopted May 14, 2015				Tecl	nnical Sc	ore Crit	eria ¹					
		0.	uality of	Lifo		Franspoi				ort Eco ity & Gr		FY17	FY17
			ality of l	Life						T		Score	
		Air Quality	Environmenta Justice	Safety	CMS Corridor	CMS ADT	CMS Transit	Transportation Justice (2014)	Freight	Economic Development	Funding Match	Technical Score	COUNCIL RANK
	PROJECT	Ą	EnJ	Saf	∑ S	S	S	Tra	Fre	Ecc De	Fur Ma	Тес	S ₹
1	PROJECTS IN FY 2016-2019 TIP												
2	Arterial												
3	US 40: US 40/SR 896 Grade Separated Intersection	0	0	4	2	2	1	0	3	3	0	15	1
4	Wilmington Sweep Removal	0	3	0	2	2	2	0	2	3	0	14	2
5	Wilmington Traffic Calming: Walnut: MLK Blvd. to 16th	0	3	0	2	2	2	0	2	3	0	14	2
6	SR 2, Kirkwood Highway and Red Mill Rd. Intersection	0	0	1	1	2	3	0	2	3	0	12	3
7	SR 2 Elkton Rd: Maryland State Line - Casho Mill Rd.	1	0	0	2	2	1	0	3	3	0	12	3
8	SR299: SR 1 - Catherine Street	0	0	2	1	0	2	0	2	3	0	10	4
9	SR 4, Christina Parkway: SR 2 - SR 896	0	0	0	2	2	0	0	2	3	0	9	5
10	US 40: US 40/SR 72 Intersection, including Del Laws Rd.	1	0	0	1	2	1	0	1	3	0	9	5
11	US 13, Philadelphia Pike, Claymont Renaissance Plan Implementation	1	0	1	0	0	0	1	0	3	0	6	6
12	SR 72: SR 71 - McCoy Rd	0	0	0	1	0	0	0	2	1	1	5	7
13	Collectors												
14	Wilmington Riverfront: Christina River Bridge	0	1	1	1	4	2	0	2	3	0	14	1
15	Garasches Lane	1	1	0	0	0	0	0	0	3	0	5	2
16	Expressways												
17	I-295 Westbound: US 13 - I-95	0	0	2	2	4	0	0	4	3	0	15	1
18	SR SR 1/SR72 Diverging Diamond Interchange	0	0	1	1	4	3	0	2	3	0	14	2
19	I-95 & SR 141 Interchange - Commons Blvd	0	0	2	1	2	1	0	4	3	0	13	3
20	SR 1 NB: US 40 to SR 273 - Auxiliary lane	-3	0	1	2	4	3	0	2	3	0	12	4
21	I-95 & SR 141 Interchange - Ramps	0	0	2	0	0	0	0	4	3	0	9	5
22	Road A /SR 7	-3	0	1	2	2	2	0	0	3	0	7	6
23	US 301: MD Line - SR 1	-3	0	1	1	2	0	0	3	1	0	5	7
24	US 301: Spur	-3	0	1	1	2	0	0	3	0	0	4	8
25	Local												
26	Southern New Castle County: Jamison Corner Rd. Relocated at Boyd's Corner	1	0	2	0	0	0	0	0	1	3	7	1
27	Westown: Wiggins Mill Rd: Green Giant Rd St Annes Church Rd.	0	0	0	0	0	0	0	0	1	4	5	2
28	Southern New Castle County: Boyd's Corner Rd.: Cedar Ln - US 13	-7	0	0	0	0	0	0	0	1	3	4	3

	Adopted May 14, 2015				Tecl	nnical Sc	ore Crit	eria ¹					
		Oı	iality of I	ifo	-	Franspo	rt Paonl	Q		ort Ecor ity & Gr		FY17	FY17
	PROJECT	Air Quality	Environmental	Safety	CMS Corridor	CMS ADT	CMS Transit	Transportation Justice (2014)	Freight 3	Economic Bound Development		Technical Score	COUNCIL
29	Pedestrian/Bicycle												
30	Wilmington Bike Facility Improvements (8th&9th Sts., West&Market Sts.)	1	3	2	2	2	3	3	0	3	0	19	1
31	Bicycle, pedestrian and other improvements, statewide	1	3	1	0	0	0	3	0	3	0	11	2
32	New Castle Industrial Track: s. of Christina River - Riverwalk	3	0	1	0	0	0	0	3	3	0	10	3
33	Myrtle Avenue Sidewalk Improvements	1	0	1	0	0	0	0	0	3	0	5	4
34	Manor Avenue Sidewalk Improvements	0	0	1	0	0	0	0	0	3	0	4	5
35	Transit												
36	Transit Vehicle Replacement and Refurbishment, New Castle County	1	3	1	2	2	3	3	0	3	0	18	1
37	Christiana Mall Park and Ride	1	0	0	0	0	0	0	0	3	0	4	2
38	Claymont Train Station	1	0	0	0	0	0	3	2	3	0	9	3
39	Rail: Newark Regional Transit Center (Newark Train Station)	1	0	0	1	2	2	3	3	3	0	15	4
40	Transit Vehicle Expansion, NCC	3	1	1	1	2	1	3	0	3	0	15	5
41	Rideshare Program, statewide	1	0	0	0	0	0	0	0	3	0	4	6
42	Rail Improvements: Fairplay Station Parking	0	0	2	2	2	3	0	0	3	0	12	7
43	Transit Vehicle Expansion: SR 141	3	1	1	1	2	0	3	2	3	0	16	8
44	Transit Vehicle Expansion: Paratransit	0	0	0	0	0	0	3	0	3	0	6	9
45	NOT IN FY 2016-2019 TIP												
46	Arterial												
47	US 13: SR 71, Tybouts Corner - US 40	0	0	2	2	4	2	0	2	3	0	15	1
48	Churchmans: SR4/Harmony Rd.	0	0	2	2	2	3	0	3	3	0	15	1
49	Churchmans: SR4/SR7 JP Morgan	0	0	2	2	3	2	0	2	3	0	14	2
50	Churchmans: Churchmans Rd. Extension	0	0	2	2	2	2	0	2	3	0	13	3
51	Churchmans: SR2/Harmony Rd.	0	0	1	2	2	3	0	2	3	0	13	3
52	US 40: SR 1 - SR 72, Widening	0	-1	2	1	3	2	0	2	3	0	12	4
53	SR 2: S. Union Street Streetscape	0	0	0	2	2	3	1	0	3	0	11	5
54	Wilmington Initiatives: Market St: 11th St 16th St.	1	3	0	2	2	0	0	0	3	0	11	5
55	Churchmans: SR 273/Chapman Rd.	0	0	0	2	2	2	0	2	3	0	11	5
56	SR 141: US 13 - Burnside Blvd.	0	0	2	0	0	0	1	2	3	0	8	6

	Adopted May 14, 2015				Tech	nnical Sc	ore Crit	eria ¹					
		Quality of Life				Franspo	rt Doonl	0	Support Economic Activity & Growth			FY17	FY17
	PROJECT	Air Quality	Environmental	Safety	CMS Corridor	CMS ADT	CMS Transit	Transportation Justice (2014)	Freight	Economic Bovelopment	Funding Match	Technical Score	COUNCIL
57	Tyler McConnell Bridge, SR141: Montchanin Rd Alapocas Rd.	0	0	0	1	2	0	0	2	3	0	8	
58	City of New Castle: SR 9	0	0	0	1	0	2	0	0	3	0	6	7
59	SR 9, River Rd. Area, Dobbinsville	0	0	0	0	0	0	3	0	3	0	6	7
60	US 40: Eden Square Connector	0	0	2	0	0	0	0	0	3	0	5	8
61	US 13, Odessa Transportation Plan Implementation	1	0	0	0	0	0	0	0	3	0	4	9
62	City of New Castle Intersections	0	0	0	0	0	0	0	0	3	0	3	10
63	Newtown Road: SR896 - SR 72	0	0	0	0	0	0	0	0	3	0	3	10
64	US 13: Duck Creek - SR 1	1	0	0	0	0	0	1	0	1	0	3	10
65	Collectors												
66	Wilmington Traffic Calming: 4th St: Walnut - I-95	1	3	4	2	0	2	0	2	3	0	17	1
67	Wilmington Traffic Calming: King/Orange: MLK Blvd. to 13th	1	3	0	2	0	2	0	2	3	0	13	2
68	Wilmington Traffic Calming: 12th St. Connector	0	3	0	0	0	0	0	0	3	0	6	3
69	Brackenville Road Slope Stabilization	0	0	2	0	0	0	0	0	1	0	3	4
70	Possum Park Rd. at Old Possum Park Rd.	0	0	0	0	0	0	0	0	1	0	1	5
71	Expressways												
72	I-95: SR 896 Interchange	0	0	2	2	4	2	0	3	3	0	16	1
73	I:95: Riverfront Interchange	0	-3	2	1	4	3	0	3	3	0	13	2
74	Local												
75	Wilmington Initiatives: Shipley Street	1	3	0	2	0	0	0	0	3	0	9	1
76	Wilmington Initiatives: Tatnall St. Connector	0	0	0	2	0	0	0	0	3	0	5	2
77	Wilmington Riverfront: West St. Connector Extension	0	0	0	2	0	0	0	0	3	0	5	2
78	Southern New Castle County: Cedar Lane Rd.: Marl Pit - Boyd's Corner	1	0	0	0	0	0	0	0	1	3	5	2
79	Reybold Road Extended: SR 72 - Salem Church Rd.	0	0	0	1	0	0	0	0	3	0	4	3
80	Southern New Castle County: Lorewood Grove Rd.: N412A - SR 1	1	0	0	0	0	0	0	0	1	2	4	3
81	Mill Creek Rd. and McKennan's Church Rd. Intersection	0	0	0	0	0	0	1	0	3	0	4	3
82	Other												
83	Aeronautics, New Castle County Airport Terminal Improvements	0	0	2	0	0	0	0	0	1	0	3	1
84	Pedestrian/Bicycle												

	Adopted May 14, 2015	Technical Score Criteria ¹											
		Quality of Life			7	ranspo	rt Peopl	e	Support Economic Activity & Growth			FY17	FY17
	PROJECT	Air Quality	Environmental Justice	Safety	CMS Corridor	CMS ADT	CMS Transit	Transportation Justice (2014)	Freight	Economic Development	Funding Match	Technical Score	COUNCIL RANK
85	US 13: Memorial Drive - US 40 Pedestrian Safety Improvements	3	1	2	2	3	3	0	4	3	0	21	1
86	Wilmington Initiatives: Bicycle Improvements	1	3	2	2	2	3	3	0	3	0	19	2
87	US 40 Plan: US 40 Sidepaths (SR 72-SR 1, SR 896-SR 72)	3	1	2	1	3	2	0	2	3	0	17	3
88	US 40: Salem Church Rd - SR 1 Sidepath	1	1	2	1	3	3	0	3	3	0	17	3
89	SR 48: N. DuPont Rd - SR 141 Pedestrian Safety Improvements	1	3	1	1	2	1	1	2	3	0	15	4
90	US 40: SR 72 - Salem Church Sidepath	1	1	2	1	2	1	0	2	3	0	13	5
91	Delaware Avenue Cycletrack	1	0	2	2	2	1	0	2	3	0	13	5
92	DuPont Road Pedestrian Facilities	3	3	0	0	0	0	0	0	3	0	9	6
93	US 40: Newtown Trail & Pedestrian Improvements	1	0	0	0	0	0	0	3	3	0	7	7
94	Churchmans: Red Mill Rd. Sidewalks	1	0	0	1	2	0	0	0	3	0	7	7
95	Wilmington Initiatives: Water Street Walkway	1	0	0	2	0	0	0	0	3	0	6	8
96	Bicycle, Pedestrian: Foulk Rd.	1	0	1	0	0	0	0	0	3	0	5	9
97	Grubb Road Pedestrian Improvements: Foulk Rd Naamans Rd.	1	0	0	0	0	0	1	0	3	0	5	9
98	Bicycle, Pedestrian: Marsh Rd.	1	0	0	0	0	0	0	0	3	0	4	10
99	SR 3, Marsh Rd/Washington Street Ext. and SR 3 Pedestrian Improvements	1	0	0	0	0	0	0	0	3	0	4	10
100	Transit												
101	Wilmington DART Bus Hub	1	3	2	2	2	2	0	2	3	2	19	1
102	Transit bus stop improvements - NCC	3	3	1	0	0	0	3	2	3	0	15	2
103	Statewide CAD/AVL - Real time transit info via smart phone	3	3	0	0	0	0	3	0	3	0	12	3
104	US 40: Transit improvements	1	3	0	1	2	2	0	0	3	0	12	3
105	Boyds Corner Park and Ride Expansion	1	0	0	1	2	0	0	0	1	0	5	4
106	Rail preservation: NCC Historic Red Clay	0	0	0	0	0	0	0	0	1	0	1	5

1. Technical Score Sources:

Air Quality: review by Air Quality Subcommittee

Environmental Justice: 2013 Environmental Justice & Title VI Plan

Safety: DelDOT crash data, 2004-8

CMS: 2012 Congestion Management System Summary

Transportation Justice: 2014 Accessibility and Mobility Report

Freight: 2007 WILMAPCO Regional Freight and Goods Movement Analysis

Economic Development: Delaware Office of State Planning Policies and Spending Map

Funding Match: DelDOT finance

APPENDIX G

Public Comments

Comment	Response
Regarding the proposed MARC Maintenance Facility in Perryville, MD, would like to see provisions for a loop rail turnaround ocated around the perimeter of the maintenance facility, to be included in the NEPA evaluation to permit a direct connection between the NS Port Road rail line to the NB CSX freight rail, via the turnaround. Through reciprocal switching (and minor track clearance projects in Chambersburg, PA), CSX would then be able to move doublestack freight to points west of Hagerstown, MD to the DE/PA state line without going through the Baltimore Tunnel while only adding approx 10 linehaul miles to the journey. Also through reciprocal switching, NS could then use the CSX rail through Cecil, New Castle, and Delaware counties to bypass the NEC during the hours of 6am to 10pm, enhancing access to the Port of Philadelphia and northern Delaware. This connection could remove passenger/freight rail conflicts on the NEC through Cecil, New Castle, and Delaware counties.	The proposed MARC Maintenance Facility site abuts the NEC only. It does not abut either the NS Port Road or the CSX main line. Establishing rail links from the proposed MARC Maintenance Facility to the NS Port Road and the CSX main line could happen only at monumental economic, environmental, and social cost. Even if the MARC Maintenance Facility site did provide access to both the NEC and the NS Port Road, our understanding is that the Port Road, itself, is not double-stack capable. What's more, there's already a connection between the NEC and the NS Port Road, in Perryville. We still do not have Amtrak's final plan for the NEC, which could, ultimately, free up capacity for freight movements – though not alleviate the double-stack limitations. In the past, CSX has leased time on its main line in our region to Conrail, CP Rail, and NS. Ergo, physical linkages (such as the line through Canby Park connecting the CSX Wilsmere yard to the Amtrak West yard) already exist. It is unclear if the "Boxwood Road facility" references the defunct Fisker/GM assembly plant or the CSX Wilsmere yard facility. Shifting traffic to the CSX main
conflicts on the NEC through Cecil, New Castle, and Delaware counties. This could also permit doublestack operations between the Boxwood Road facility and points west of Chicago for two Class I railroads from enhancing overall intermodal freight access to the area. The TIP info session at the Newark Library was quite informative, substantially because the visual aids provided quick summary info and the nearby staff folks from both (Wilmapco and DelDOT) enabled questioners to get either on-the-spot knowledgable responses of referrals to further info sources. Well-conceived and	assembly plant or the CSX Wilsmere yard facility. Shifting traffic to the CSX main line could possibly necessiate that facility's being converted to a double-track facility – again at significant economic, environmental, and social cost (the Deer Park – DE 2/273/896 – intersection would need to be re-evaluated, for example). Thank you for your feedback
well-executed approach All of us are aware that we have long been in a tight money situation and that no changes are on the horizon. That SHOULD be accompanied by a POSITIVE effort to get the biggest possible bang for each buck spent, particularly government bucks. Yet there is a conspicuous absence of anything resembling cost/benefit analysis in any of the proposed project displays. This is despite the inclusion of a related consideration cost effectiveness/life cycle costs in Step 4 of Wilmapco's "Project Prioritization Process" brochure (as amended 7/10/2008). A case-in-point demonstrating the importance of cost/benefit analysis came up at the Wilmapco PAC seance on 2/29/2016, in Dan Blevins' SR 141 presentation.	Conducting a full cost/benefit analysis for the TIP is beyond the scope of what WILMAPCO can do with our available staff resources. We do use available resources to collect and analyze data in efficient ways, such as the Bluetooth data collection mentioned.

Comment	Response
The presentation offered before-and-after trip duration data that enabled a showing by simple arithmetic that merely by dynamic adjustment of signal timing, trip durations were reduced by ROM 15%. By questions aimed a extracting info about how much this improvement cost evidently insufficiently important to have included in the presentation itself I found that the capital cost of equipment permanently installed along 141 was only ROM \$3000/mile. Out of a desire to avoid taking more time on a point already demonstrated, I didn't pursue operating costs. That \$3000/mile capital cost needs to be compared with a representation of the public cost and the government cost which are obviously separate of NOT achieving the ROM 15% reduction in travel time that results from NOT installing	·
the needed electronics. Indeed that should have been the highlight of the presentation. That's especially important since numerous developers would quite likely pounce on funding such installations on the premise that comparable improvements on comparable roads throughout the county would enable additional development not now possible at anywhere close to the trivial cost of the electronics.	
Two bridges were mentioned at the PAC meeting, at least one of which was highlighted at the TIP gathering last week. One was the two lane bridge across the river to the Wilmington Riverfront. The other was a separate pedestrian/bicycle bridge elsewhere. I have no idea how far apart these two bridges are. On the premise that they may well be not far apart, I wonder what a cost/benefit evaluation would show about one alternative with two separate bridges and a second alternative with one bridge serving pedestrians, bicycles and motor vehicles. After all, we accommodate bicycles and motor vehicles on many major road segments. Even though bicyclists might prefer life in their own universe, some of the rest of us might find the cost to be onerous.	The two projects are a vehicle, pedestrian and bike bridge and the Christina River pedestrian and bicycle bridge. The pedestrian and bicycle project will complete the final mile in a 9-mile facility connecting New Castle to Wilmington off road. The Feasibility Study for the project explored several alignments, including use of the Christina River roadway bridge. The two bridges are approximately 1.26 miles apart. http://www.deldot.gov/information/projects/trails/newcastleindustrialtrack/pdf/IndustrialTrackPhas%203-feasibilityStudy.pdf . While less expensive to build, we did not favor this alternative because of safety and usability concerns. After crossing using the roadway bridge, the route would then need to connect south along US 13, crossing numerous commercial and industrial driveways. We felt that this poor user experience would likely significantly reduce the future use of the route and result in pedestrian crashes.

Comments thru 8/29/2016

Name Carl Marsini

Email carlmarsini@yahoo.com

Address 120 St. Moritz Dr., Wilmington, DE. 19807

Comment Two major roads that I drive on daily basis that are awful: 141 N/S between the Tyler McConnell Bridge and Ferris; and

Rt. 7 between Stanton Middle School and Border Cafe.

Name Robert Krajeski Email rkrajeski@live.com Address 121 Victoria Falls Lane

Comment There is no plans to provide a traffic light synchronization program. California and Texas have active programs to

provide light synchronization. Delaware does not have a plan. I would like Wilmapco a plan to provide traffic light synchronization. The benefits to the community are extensive -- reduce driving time, cost saving, and reduce the

requirement for red light cameras.

Name Tom Keene

Email tckeene@gmail.com

Address 2508 Redstart Ct, Wilm DE 19805

Comment Chambers Rock Rd bridge is terrible. It is one lane and there is a blind spot on both sides so it creates a deadlock

because people don't stop back far enough to see the other side. If you can't replace the bridge with dual lane and bike

path, at least straighten out the S curve that creates the problem. It gets lots of traffic and needs attention.

From: West Side Grows < westsidegrows@gmail.com>

Sent: Tuesday, September 6, 2016 10:02 PM

To: Daniel Blevins **Cc:** Sarah Lester

Subject: Public Comment on TIP Funding from West Side Grows Together Coalition

To Whom It May Concern:

<u>West Side Grows Together</u>, a coalition of 27 civic associations, community organizations, churches, and businesses in Wilmington's West Side would like to urge WILMAPCO to prioritize projects on N. Union St. and Fourth St. in future TIP funding, as well as other important commercial corridors in Wilmington's neighborhoods, because it is critical that transportation dollars be invested in the City of Wilmington, Wilmington's largest city and densest community.

The West Side Revitalization Plan, developed in 2012 with the involvement of more than 650 residents and other stakeholders, identified infrastructure improvements to Fourth St. and Union St. as a critical step to make these important commercial corridors and gateways to Wilmington's downtown more pedestrian friendly and attractive to support multi-modal transportation in a community where many people do not have cars, promote neighborhood vitality and support business growth.

Since then, the West Side Community has actively worked with WILMAPCO and the City of Wilmington to advance investment in improvements to these streets, including holding Walkable Communities Workshops for both N. Union St. and W. Fourth St. In addition, for the past three years, the West Side community has collaborated with the City of Wilmington and DELDOT to showcase the potential to transform N. Union St. into a walkable, vibrant neighborhood commercial district through a Better Block event held each August.

Just last month, over 1,000 community members visited the 500 & 600 blocks of Union Street during Better Block on August 1st – 3rd. Volunteers, business owners, and generous sponsors worked together to fill one lane of the three lane state highway with: a temporary bike lane, outdoor dining, a crosswalk, games, live artists, a parklet, street yoga, live music, and more!

The event received attention from <u>The News Journal</u>, <u>ABC6 News</u>, and <u>Town Square Delaware</u>. <u>4youth Productions</u> photographed the event and sold their signature artwork to passersby. <u>Starfish Casters</u> coordinated a community mural and video that is coming soon. To view more photos from the event, visit our storify page and the Facebook event page.

Feedback from the event has been positive and there is a desire to sustain these improvements beyond the three day event in August. After surveying the participating businesses, one business owner reported a doubling of sales for those three days in comparison to the previous week; another noticed that new customers took menus and purchased their food; an additional business loved networking with the community about her new business; and lastly one business owner expressed how happy they were to see children playing outside their store.

West Side Grows Together is eager to work with the City of Wilmington, WILMAPCO, and DELDOT to make many of these transportation and streetscape enhancements permanent. Almost 500 people have signed an online petition to make these changes permanent. These improvements are part of the larger <u>Union Street</u> and <u>4th Street</u> strategies to attract new businesses and customers, strengthen existing businesses, ensure safe and clean corridors, and support vibrant, accessible destinations on the West Side.

We'd like to urge WILMPACO to work with DELDOT, the City of Wilmington, West Side Grows, and other partners to add improvements to Fourth St. and N. Union St. to the TIP priority list to support major infrastructure improvements to Union St. and Fourth St. to make these corridors safe, attractive and pedestrian friendly places that will support small business development and contribute to the vitality of our community.

Sincerely, Christian Willauer Director, Cornerstone West CDC (302) 658-4171 ext. 179

From: Sarah Lester < westsidegrows.business@gmail.com >

Sent: Tuesday, September 6, 2016 6:27 PM

To: Daniel Blevins

Subject: TIP public comment

Hello there,

As someone who works in the field of community economic development in Wilmington and is an aspiring resident of the West Side, I would love to see more transportation improvements in the city as part of the TIP. Wilmington has the largest population of any city in the state and would benefit significantly from the economic impact that transportation and streetscape improvements can bring.

Our Better Block Union Street project demonstrated how a bike lane and the elimination of one lane on Union Street calmed traffic and increased the walkability, bikeability, and economic activity in the area. Better Block was inspired by WILMAPCO's Walkable Community Workshops on 4th Street and Union Street and led to our submission of TAP applications for both streets. I believe these projects and many others like it need additional funding and prioritization through the larger TIP funding pool.

I hope that there will be more projects in Wilmington, and specifically on the West Side of Wilmington, in future iterations of the TIP. Thank you for all of your efforts to improve transportation throughout the state!

Sincerely,
Sarah Lester
Economic Development, Cornerstone West CDC
(302) 658-4171 ext. 184

For Presentation at the Hearing held by the Council on August, 2016 at the Newark Public Library. Transportation and the Department of Transportation-31

Transportation: the Council on Transportation and the Department of Good Afternoon and Good Evening to the members present of

Delaware practice for over forty six years. I'm Charlie Weymouth, Architect and Planner, living in Delaware for over sixty five years, and with an independent

of specific fiscal responsibility, have received no earlier Transportation needs with given prioritization and assignment following must occur: response from the various governing bodies. Very clearly, the Architect since 1992 in regard to overall and specific parochial, politically controlled, self interest. Pleas from this Proposed Del Dot projects clearly are to attend local

- "open shop", sponsors.) multiple Port location opportunities as offered by private water borne trade and commerce (for this latter, i.e. the Del Dot and the State must concentrate beyond just the local and private road systems, and focus on rail, air, and
- correcting the present interstate road system. \$400mil. underwriting for Port expansion transferred to interstate roads must be denied with the offered County Directly adjacent retail/commercial access to our
- optimize a viable economy, thence an accommodating sprawling, residential growth, and such at a substantially growth must be substantially carried by the developer. residential increase. Infrastructure costs to the new higher density. A first priority must be to establish and accommodate the apparent future inevitability of Require of local governance to provide funds necessary to
- some manner having drifted from Regional Planning (of Abandon Del Dot's discretionary grants to non essential Planning entities such as WILMAPCO, the latter, in

only two adjacent Counties) into localized street scapes,

the Department of Transportation, major re adjustment of priorities must now occur or brace for Court intercession. Ladies and Gentlemen of The Council on Transportation and

Thank You.

CHARLIE WEYMOUTH, AIA

Te: 302-658-8760

Bob McGurk
bobmcgurk@gmail.com
357 Marldale Drive, Middletown, DE 19709

Regarding the proposed MARC Maintenance Facility in Perryville, MD:

We would like to see provisions for a loop rail turnaround facility (approx 7,200 LF), located around the perimeter of the maintenance facility, to be included in the NEPA evaluation to permit a direct connection between the NS Port Road rail line to the NB CSX freight rail, via the turnaround.

Through reciprocal switching (and minor track clearance projects in Chambersburg, PA), CSX would then be able to move doublestack freight to points west of Hagerstown, MD to the DE/PA state line without going through the Baltimore Tunnel while only adding approx 10 line haul miles to the journey.

Also through reciprocal switching, NS could then use the CSX rail through Cecil, New Castle, and Delaware counties to bypass the NEC during the hours of 6am to 10pm, enhancing access to the Port of Philadelphia and northern Delaware.

This connection could remove passenger/freight rail conflicts on the NEC through Cecil, New Castle, and Delaware counties.

This could also permit doublestack operations between the Boxwood Road facility and points west of Chicago for two Class I railroads from enhancing overall intermodal freight access to the area.

Regards,

Bob McGurk, P.E

From: Heather Dunigan

Sent: Friday, January 29, 2016 2:31 PM

To: 'yale45w@yahoo.com'
Cc: Dave Gula; Daniel Blevins
Subject: RE: Christina River Bridge

Dear Mr. Thoms,

Thank you for your feedback about the Christina River Bridge project. Unfortunately, the bridge only clears about 12-16 feet above high tide, so the Kalmar Nyckel will not pass it. In designing the bridge, planners did consider the needs of the Kalmar Nyckel but opted for the lower clearance because just upstream there is a Norfolk Southern freight train swingbridge that has been locked in position for train crossings for many years, and it cannot possibly allow more than 10 feet, if even that. The Kalmar has not passed that bridge ever, so the new bridge will not create a new obstacle. An analysis of navigational impacts may be found at https://www.deldot.gov/information/projects/crb/pdf/ea/10 appendix a.pdf. This project has been presented at several public workshops, dating back to 2011. The approved FY 2016-19 Transportation Improvement Program includes construction funding beginning in FY 2016.

We will share your comment with DelDOT and the entire WILMAPCO Council for their consideration at their March 10 meeting. Please let me know if you have additional questions or comments.

Thanks, Heather Dunigan

-----Original Message-----

From: Lloyd Thoms [mailto:yale45w@yahoo.com]

Sent: Friday, January 29, 2016 9:24 AM

To: Daniel Blevins

Subject: Christina River Bridge

The proposed bridge should allow access for the Kalmar Nyckel. Lloyd Thoms Wilmington, Delaware From: VSinger01@aol.com [mailto:VSinger01@aol.com]

Sent: Tuesday, March 01, 2016 2:21 PM

To: Daniel Blevins
Cc: vsinger01@aol.com
Subject: TIP comments

Comment Sheet

Transportation Improvement Program

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- 1. Which proposed project(s) do you like the best?
- 2. Do you have comments or suggestions about any proposed projects?
- 3. What other projects should we consider in the future?
- 4. Other comments:

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ITEM ONE: The TIP info session at the Newark Library was quite informative, substantially because the visual aids provided quick summary info and the nearby staff folks from both (Wilmapco and DelDOT) enabled questioners to get either on-the-spot knowledgeable responses of referrals to further info sources. Well-conceived and well-executed approach.

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ITEM TWO: All of us are aware that we have long been in a tight money situation and that no changes are on the horizon. That SHOULD be accompanied by a POSITIVE effort to get the biggest possible bang for each buck spent, particularly government bucks. Yet there is a conspicuous absence of anything resembling cost/benefit analysis in any of the proposed project displays. This is despite the inclusion of a related consideration -- cost effectiveness/life cycle costs -- in Step 4 of Wilmapco's "Project Prioritization Process" brochure (as amended 7/10/2008)

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ITEM THREE: A case-in-point demonstrating the importance of cost/benefit analysis came up at the Wilmapco PAC seance on 2/29/2016, in Dan Blevins' SR 141 presentation. The presentation offered before-and-after trip duration data that enabled a showing by simple arithmetic that merely by dynamic adjustment of signal timing, trip durations were reduced by ROM 15%. By questions aimed at extracting info about how much this improvement cost -- evidently insufficiently important to have included in the presentation itself -- I found that the capital cost of equipment permanently installed along 141 was only ROM \$3000/mile. Out of a desire to avoid taking more time on a point already demonstrated, I didn't pursue operating costs.

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That \$3000/mile capital cost needs to be compared with a representation of the public cost and the government cost -- which are obviously separate -- of NOT achieving the ROM 15% reduction in travel time that results from NOT installing the needed electronics. Indeed that should have been the highlight of the presentation. That's especially important since numerous developers would quite likely pounce on funding such installations on the premise that comparable improvements on comparable roads throughout the county would enable additional development not now possible at anywhere close to the trivial cost of the electronics.

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ITEM FOUR: Two bridges were mentioned at the PAC meeting, at least one of which was highlighted at the TIP gathering last week. One was the two lane bridge across the river to the Wilmington Riverfront. The other was a separate pedestrian/bicycle bridge elsewhere. I have no idea how far apart these two bridges are. On the premise that they may well be not far apart, I wonder what a cost/benefit evaluation would show about one alternative with two separate

bridges and a second alternative with one bridge serving pedestrians, bicycles and motor vehicles. After all, we accommodate bicycles and motor vehicles on many major road segments. Even though bicyclists might prefer life in their own universe, some of the rest of us might find the cost to be onerous.

Vic Singer 1219 Stinsford Rd. Newark DE 19713-3360

302 366 8768 <u>vsinger01@aol.com</u> .

Transportation **Improvement** Pro gram

Welcome to the Wilmington Area Planning Council's public meeting on the Transportation Improvement Program. Your comments will be an important source of information for WILMAPCO to consider when identifying priority projects.

City: Official Street Address: 27 Kings City State:	What other projects should we consider in the future? Delawage despeashed we consider in the future?	2. Do you have comments or suggestions about any proposed projects? Please explain. THE "Industrial Trock Greenway" is an excellent in the and more of these project thould be implemented.	1. Which proposed project(s) do you like the best? Tike the project(s) do you like the best? Tike the project(s) do you like the best? Bicycle intrustructure. Delaware Hus a think rute of pedestrium and that the few actions wells to the Hunge Similarly will major in provenients there are realized significant of the authority of the strains
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Also shoulders how designated as Bicycle publis are often not deane used of the product of the p		What other projects should we consider in the future? Delawage desperation reposition improvements in Biggle in Frankauch Calcular, projects that establish safe and separate Bingle patthways are implemented in the Edware. The Edward in Frankauch Bingle infras huchare stloubly shift to adequate infrashruchare	Do you have comments or suggestions about any proposed projects? Please explain. THE "Industrial Track Ore Environ" is an excellent in the future? What other projects should we consider in the future? Delawage desperately we exclish safe and separate intrashout pathlough are impressed in the father and separate intrashout pathlough are impressed shift to adequate intrashouther.

Comment Sheet

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ransportatio Š **Improvement** Program

Welcome to the Wilmington Area Planning Council's public meeting on the Transportation Improvement Program. Your comments will be an important source of information for WILMAPCO to consider when identifying priority projects. 5.2

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(2) NEW CASTLE COUNTY INDUSTION TRACK GREENWAY
OSRI
PUSIS: US 40-MENERIAL DRIVE PEDESTRIAN IMPROVEMENTS
2. Do you have comments or suggestions about any proposed projects? Please explain
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citizenc. If you build it, they will riche.
3. What other projects should we consider in the future? Research how the character of Cropingon in the Netherlands was able to
pletely care-free and has quality of life there.
4. Other comments (Please continue on back if needed): Privative modes of the anspectation that help reduce the emissions that
I show things was flood zones. The Instact of fixing things i
thought broken (Howard), work to prevent these types of issues since Delgien
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Lt. Gav's off
Name: LAURA ADARNE Street Address: 22A KINGS CIR.
Phone Number: 305 283 9063 E-mail: LADARVE C UDEL EDU

ransportation **Improvement** Program

source of information for WILMAPCO to consider when identifying priority projects. Welcome to the Wilmington Area Planning Council's public meeting on the Transportation Improvement Program. Your comments will be an important

1. Which proposed project(s) do you like the best?	1
Do you have comments or suggestions about any proposed projects? Please explain. Wickening of Fraze Rd (Bear Area) to handle Increase of traffic due to new neighborhoods along This corridor.	
What other projects should we consider in the future?	ا مام
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i. How did you hear about this meeting? (check all that apply) □ Workshop flyer □ Read in newspaper □ Read in WILMAPCO enews/newsletter □ Heard on radio □ WILMAPCO website □ Facebook □ Other ፲ two k at the Noras	-
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TRANSPORTATION PUBLIC WORKSHOP









Share your ideas for transportation

Learn how billions of your tax dollars are proposed to be spent to improve walking, bicycling, driving, and riding public transit.

WILMAPCO and DelDOT invite you to review the Transportation Improvement Program (TIP), listing the road, bus, rail, bicycle and pedestrian projects proposed for funding in New Castle County, DE and Cecil County, MD. Call 302-737-6205 or email wilmapco@wilmapco.org with comments or questions. Information may also be viewed and commented on at WWW.WILMAPCO.ORG/TIP from January 19 to March 2, 2016.

Wednesday, February 24, 2016

Stop by anytime between 4 - 7 pm

Newark Free Library

750 Library Ave, Newark, DE 19711



WILMAPCO TIP QUICK GUIDE

The TIP is prepared by WILMAPCO in cooperation with the public and local transportation and land use agencies. Broad input is crucial because the TIP identifies regional priorities for how our federal, state and local transportation funding is spent.

How is the TIP Funded?

All federally funded projects must be included in the TIP and most federal funds require matching funds. Much of this revenue is from user fees such as the gas tax. State and local matches are also supplemented by borrowing, state and local taxes, and private funding.

\$866 million
Delaware/Maryland

40%

\$1,125 million federal

51%

\$201 million other

Delaware/Maryland funds from fuel taxes, tolls, motor vehicle and other fees, & bonds

Federal Highway Administration (FHWA) and Federal Transit Administration (FTA)

Other funding comes from local funds, developer contributions, toll bonds, and grants

Where are the projects?

While projects are located throughout the region, Transportation Investment Areas define appropriate projects based on location, and direct the greatest resources toward serving the most population. WILMAPCO uses a prioritization process to identify benefits by location.

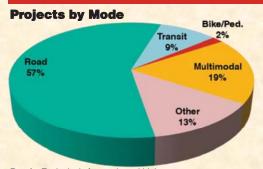
Cecil County 5%

New Castle County
48%

Delaware Statewide

The TIP document is grouped by Cecil County, New Castle County, and Delaware Statewide. Delaware Statewide contains funding for all counties in Delaware and projects do not specify amounts for New Castle County, for example Engineering and Contingency

What Types of Projects are in the TIP?



Road—Exclusively for roads and highways

Transit—Bus, passenger rail or paratransit

Bicycle/pedestrian—Walking and cycling transportation

Multimodal—Serves cars, transit, freight, walking and bicycles in a balanced way

Other—Includes aeronautics, port, contingency funds, environmental, equipment, planning, etc.





Preservation-Maintain an existing facility or service

Management—Enhance existing facility or service to sustain an acceptable level of service

Expansion—New/expanded services and infrastructure

Other-Engineering & contingency, education & training,

HAVE A SAY IN HOW YOUR TRANSPORTATION DOLLAR\$ ARE SPENT

WILMAPCO's Transportation Improvement Program (TIP) funds the region's transportation projects.

The TIP represents the first 4 years of your region's long-range plan, and prioritizes and documents planned projects including roads, buses, rail, bicycle and pedestrian improvements.

How can you participate?

- Stay informed—sign up for our monthly e-news and quarterly newsletter by visiting www.wilmapco.org or calling 302.737.6205
- Attend public meetings or invite us to speak to your group. Two TIP workshops are held each year.
 In addition, WILMAPCO, DelDOT and MDOT host many public events on individual plans and projects
- Call us or E-mail comments to wilmapco@wilmapco.org

WHAT'S NEW: Draft TIP is available for comment from January 19—March 2, 2016

NEXT PUBLIC WORKSHOP: FEBRUARY 24, 2016

Visit between 4—7 p.m., Newark Free Library, 750 Library Ave, Newark, DE 19711

- Contains \$2.18 billion in road, transit, rail, multimodal & bicycle/pedestrian projects
- Contains 3 percent more funding than the TIP approved in September 2015, with no new projects
- Projects removed due to no funding or changed scope:
 - Boyds Corner Park and Ride
 - Bridges on Pyles Ford Road, Oak Ridge Road, and Old Corbitt Road
 - SR 896 and Bethel Church Rd Interchange
 - Transit (Paratransit) Vehicle Expansion, NCC
 - Westown, Wiggins Mill Road

- The following projects are now complete:
 - Bridges on Wedgewood Road, Chesapeake City Road, Augustine Cutoff, and I-495 and Wilmington drawbridges

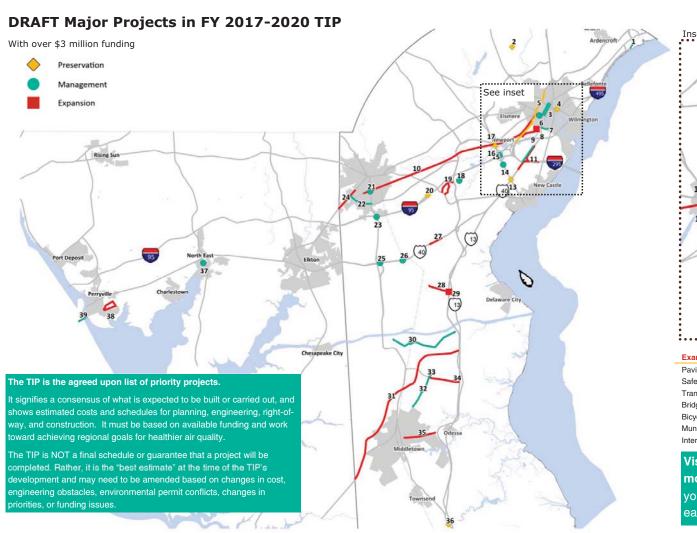
Castle

- US 13 over the New Castle-Wilmington Industrial Track Greenway, including pedestrian/bike route
- Cavaliers Mitigation
- C&D Canal Trail-branch canal to Chesapeake City
- Elkton Road: Casho Mill Rd to Delaware Ave
- Glenville Wetland Bank & Subdivision Improvements
- Mid County Department of Motor Vehicles
- N412A: Hyetts Corner Rd to Lorewood Grove Rd
- Pomerov Trail
- Road A and Centre Blvd: Fashion Center Entrance
- S Union Street: Railroad Bridge to Sycamore St
- Talley Rd: East Coast Greenway/Northern DE Greenway
- Washington Street, New Castle

WILMAPSO WILMINGTON AREA PLANNING COUNCIL 850 Library Avenue, Newark, DE 302-737-6205 O wilmapco@wilmapco.org WWW.WILMAPCO.ORG/TIP







Inset

S 3 4

Wilmington

7 Newport

16 15 12 13

Example Projects (areawide projects, not mapped)

Paving, Rehabilitation, Signage, and Pavement Markings Safety

Transit Operating and Capital Funds

Bridge Preservation

Bicycle and Pedestrian Improvements and Recreational Trails Program

Municipal Street Aid and Community Transportation Funds

Intersection Improvements

Visit www.wilmapco.org/tip or call 302-737-6205 to learn more about these and other projects. In the TIP document, you can read a full description for each project and funding for each year and phase.

ID Project

- 1 Claymont Train Station
- 2 BR 634 on SR 100 over Delaware Valley Railroad
- 3 King & Orange Streets, MLK Blvd. to 13th St.
- 4 BR 577 on Northeast Blvd over Brandywine River
- 5 I-95 Rehab from I-495 to N of Brandywine River
- 6 Wilmington Transit7 Garasches Lane
- 8 Christina River Bridge

ID Project

9 NCC Industrial Track Greenway, Phase III

- 10 Third Rail Track Expansion, Newark to Wilmington
- 11 I-295 Improvements, Westbound: I-295 to US 13
- 12 US 13, US 40 to Memorial Drive, Pedestrian Improvements
- 13 BR 680 on SR 141 over US 13
- 14 SR 141 and Commons Blvd Intersection
- 15 SR 141/I-95 Interchange
- 16 BR 159 on James Street over Christina River

ID Project

- 17 BR 501 on SR 141 over SR 4
- 18 Christiana Mall Park and Ride
- 19 Road A/SR 7
- s 20 BR 714 on Chapman Road over I-95
 - 21 Newark Train Station
- 22 SR 4 from SR 2 to SR 896
- 23 I-95 & SR 896 Interchange Improvements
- 24 SR 2. Elkton Road: MD Line to Casho Mill Rd

ID Project

- 25 US 40 / SR 896 Interchange
- 26 US 40 / SR 72 Interchange
- 27 US 40: Salem Church Rd to Walther Rd
- 28 SR 72: McCov Road to SR 71
- 29 SR 72/SR 1 Diverging Diamond Interchange
- 30 N412, Lorewood Grove Road, Rd 412A to SR 1
- 31 US 301: Maryland Line to SR 1
- 32 Cedar Lane, Roadway Improvements

ID Project

- 33 Jamison Corner Rd: Relocated to Boyds Corner Rd
- 34 Boyds Corner Rd: Cedar Lane to US 13
- 35 SR 299: SR 1 to Catherine Street
- 36 BR 488 on US 13SB. South of Odessa
- 36 BH 488 on US 135B, South of Odess 37 MD 272 Bridge over Amtrak
- 38 MARC Maintenance Facility
- 39 Susquehanna River Rail Bridge Replacement

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