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RESOLUTION

BY THE WILMINGTON AREA PLANNING COUNCIL (WILMAPCO) **ENDORSING THE CITY OF NEW CASTLE TRANSPORTATION PLAN UPDATE**

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

WHEREAS, the WILMAPCO Council recognizes that comprehensive planning for future land use, transportation, sustainable economic development, environmental protection and enhancement, and community health and livability are necessary actions to implement the goals and objectives in the 2050 Regional Transportation Plan (RTP); and

WHEREAS, the City of New Castle submitted a Unified Planning Work Program (UPWP) request for WILMAPCO to assist the City in an update to the 2009 City of New Castle Transportation Plan; and

WHEREAS, the Plan assessed roadway, transit, bicycle, pedestrian, parking, and other surface transportation; and

WHEREAS, the Plan employed continuous and thorough public engagement with the community and stakeholders throughout the planning process, including four public workshops; and

WHEREAS, the Plan evaluates a variety of concepts and makes recommendations based on technical analysis and stakeholder feedback; and

WHEREAS, the City of New Castle supports the planning process and final report to move forward to additional analysis with community discussion;

NOW, THEREFORE, BE IT RESOLVED that the Wilmington Area Planning Council does hereby endorse the final report and recommendations of the City of New Castle Transportation Plan Update.

9/8/2022

Jobn Sisson, Chairperson Wilmington Area Planning Council



Partners with you in transportation planning

Appendix A: City of New Castle Transportation Plan Task 1: Identify Issues, Opportunities and Constraints





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Introduction

Project Purpose

The Wilmington Area Planning Council (WILMAPCO), City of New Castle, Delaware, and the Delaware Department of Transportation (DelDOT) are developing the City of New Castle Transportation Plan Update to update the 1999 City of New Castle Transportation Plan and will further analyze issues raised in the City of New Castle Comprehensive Development Plan. The study area includes the entire municipality, and will also consider transportation transitions to surrounding areas within New Castle County as appropriate.

The purposes of this Plan are to:

- Improve the multimodal transportation network, provide connectivity to communities and trails, enhance health and livability, reduce illegal truck traffic, and improve safety.
- Address flooding and sea-level rise impacts on land use and access to major transportation corridors.
- Improve gateways to the historic city.
- Develop a shared-parking analysis.

In addition, this Plan will develop recommendations to address transportation goals identified in the City of New Castle Comprehensive Plan, which include:

- Enhance bike and pedestrian connections and facilities throughout the City.
- Clarify regional and local traffic patterns throughout the City.
- Redesign streets and intersections to reduce speeding and cut-through traffic, while improving pedestrian safety in all City neighborhoods.
- Formalize and optimize the existing parking supply.

Additional relevant goals address land use and redevelopment, urban design standards, gateways, pedestrian-oriented commercial district design, and drainage and stormwater. While the 2009 Comprehensive Plan is currently being updated, public comments indicate that these goals are still largely relevant.

This project will include a Planning and Environmental Linkages (PEL) Study. PEL Studies are a collaborative and integrated approach to transportation decision-making that considers environmental, community, and economic issues early in the planning process. This information and analyses can then be utilized to inform the National Environmental Policy Act (NEPA) review process. PEL Studies are an Federal Highway Administration (FHWA) initiative used to help make better-informed project-level decisions and to shorten project delivery time, and they follow provisions set forth in 23 U.S.C. 168(b)(1)(A) and associated regulations under 23 CFR 450.212(d) and 450.313(e).

This report details the findings of Task 1: Identify Issues, Opportunities and Constraints. Task 1 included a comprehensive review of existing and planned conditions. The review contained in this report includes analysis and mapping of existing conditions data including:

- Land Use including existing zoning regulations, existing land use, currently planned land use, and other state and county land use policies.
- Demographics including current and projected population, employment and households.
- Transportation circulation maps and data including roads, sidewalks, bicycle, bus, rail. Transportation data includes traffic and congestion, safety and planned projects.
- Environmental and cultural features maps and data including historic resources, parks, wetlands, floodplain, sea-level rise.

Task 1 has been completed to inform future planning phases of existing conditions within the study area. Future tasks will merge this initial analysis with extensive community and stakeholder outreach, and technical assessment.

Planning Partners

The Plan will evaluate and make recommendations about a broad range of issues. Thus, the study is a collaborative effort between:

- Wilmington Area Planning Council (WILMAPCO)—WILMAPCO is the regional transportation planning agency for New Castle County, Delaware and Cecil County, Maryland. As the federally designated Metropolitan Planning Organization (MPO), WILMAPCO is charged with planning and coordinating transportation investments for the region based on federal policy, local input, technical analysis, and best practices. WILMAPCO will provide overall coordination for this project including public outreach, providing demographics information, producing maps, and developing the final report.
- **City of New Castle--** Founded in 1640, the historic City of New Castle is situated along the Delaware River in New Castle County, Delaware with a current population of approximately 5,392. The City of New Castle provides transportation services such as local roads, parking, pathways, and sidewalks. In addition, the City is responsible for regulating land use and providing public works, police, and recreational services.
- **Delaware Department of Transportation (DelDOT)**—DelDOT is responsible for planning, designing, building and managing Delaware's statewide transportation system. DelDOT provides transportation and freight data, and will assist with development of transportation recommendations.
- Delaware Transit Corporation (DTC)—DTC, an operating division of DelDOT, seeks to design and provide the highest quality public transportation services that satisfy the needs of the customer and the community. Bus service in the area is provided by DART First State. DTC will provide input on existing transit conditions and potential improvements.

An Advisory Committee of civic and business stakeholders will provide input on issues, opportunities and constraints, and draft scenarios. Membership on the Advisory Committee might include:

- Land owners, businesses, civic entities and elected officials
- Trustees of The New Castle Common

- New Castle County
- Delaware Department of Natural Resources and Environmental Control
- Delaware Office of State Planning Coordination

Other Advisory Committee member may be identified as part of early outreach to the community, and all Advisory Committee meetings are open to all interested stakeholders and members of the public.

Project Area



City of New Castle Transportation Plan - Task 1

Land Use

Existing Land Use

The City of New Castle contains a mix of land uses, dominated by open space, residential, and industrial. Approximately 46 percent of the City's land cover, open space includes wetlands, forest, agriculture and parks, contributing to its character as a green, waterfront community. With approximately 23 percent of the land cover, residential uses range from modern apartments, historic row homes, and single family homes which account for the largest share of 43 percent. The remaining 31 percent of the City is a mix of mixed use, industrial, commercial, institutional, and utility uses.





Existing Land Use for City of New Castle and the Surrounding Area

Existing Zoning

The official City Zoning Code can be found at: <u>https://ecode360.com/8875539</u> which includes a detailed map and descriptions of each district. Zoning districts by category are summarized below.

- Agriculture and Open Space
 - o Open Space and Recreation District (OS&R) -provides for and protects permanent open spaces.
 - o Agricultural Horticultural District (AH) provides for agricultural and horticultural activities, while protecting agricultural lands.
- Commercial
 - Historic Commerce District (HC) preserves, promotes and protects the historic commercial heart of the City. Allows for mixed-use including small shops, bakeries, banks, restaurants, club and lodges, tourist homes, and a diversity of housing.
 - Retail Commercial District (RC) –provides areas in which the daily shopping and business requirements of nearby residents can be met. These areas are to be exclusively commercial.
 - Service Commercial District (SC) -provides for a wide range of commercial and service needs, usually with access to a main roadway.
 - General Commercial District (GC) –provides for local and regional shopping, office and business needs along a main roadway. Permitted uses include a variety of more intense commercial uses, offices, and institutional uses.
 - Downtown Gateway District (DG) –seeks to create a pedestrian-oriented neighborhood commercial district providing primarily local goods and services and presenting an attractive gateway worthy with the built form, character and scale of the historic district. Uses include a variety of commercial uses and residential dwelling unit types.
- Residential
 - Residential District (R-1) provides and protects areas for single-family detached residential development for a pleasant, quiet, hazard-free residential environment.
 - Residential District (R-2) –permitted uses include single-family semidetached dwelling, two-family dwelling units and corner stores are allowed.
 - Residential District (R-3) –permitted uses include two-family semidetached dwellings, single-family attached dwellings, two-family attached dwellings and multiple dwellings.
 - Historic Residence District (HR) –preserves, promotes and protects the historic area, now predominantly residential.
 Development is subject to architectural review. Permitted uses include single family (detached, semidetached and attached), two-family dwellings (detached, semidetached and attached), tourist homes, and parks and playgrounds.
- Industrial
 - o Light Industrial Office District (LIO) -uses include offices, laboratories, and industrial research or testing facilities.
 - Industrial Office Park (IOP) –uses include offices, manufacturing, warehouse and distribution facilities, laboratories, retail and personal services, restaurants, and a variety of commercial uses.
 - o Industrial District (I) -uses include offices, manufacturing, printing, truck terminals, and laboratories.
 - o Telecommunications District (TD) –uses include telecommunication facilities.



Potential Use

Strategies for State Policies and Spending

Required by Delaware code, the Strategies for State Policies and Spending purpose is to coordinate land-use decision-making with the provision of infrastructure and services in a manner that makes the best use of natural and fiscal resources. The study area is mostly designated as Investment Levels 1 where state policies will support growth and economic development activities. Level 1 areas are municipalities, towns, or urban/urbanizing places with higher density, transportation choices and mixed land uses.

Level 2 areas provide a border between Level 1 and Out of Play land, and has diverse characteristics and can be composed of less developed areas within municipalities, rapidly growing areas in the counties that have or will have public water and wastewater services and utilities, and areas that are generally adjacent to or near Level 1 areas; they serve as transition areas between Level 1 and the state's more open, less populated areas.

Other areas of the City are Level 4, or Out of Play. Out of Plan Areas are agricultural or opens space areas not well suited for significant redevelopment. These areas include natural habitats that are important for providing "ecosystem services" such as improving water quality and reducing flood risk.



2020 Comprehensive Development Plan (Draft)

The Draft 2020 Comprehensive Plan is currently out for public review and is expected to be adopted in 2020. The Comprehensive Plan documents the City's municipal development strategy including future population and housing growth within the jurisdiction, expansion of its boundaries, development of adjacent areas, redevelopment potential, community character, and the general uses of land within the community, and critical community development and infrastructure issues. The document is reviewed at least every five years and updated every ten years. The future Suggested Land Use map serves as the basis for future changes to land use and zoning.





Demographics

Population

According to American Community Survey data from the U.S. Census, the City of New Castle has a total population of 5,359 and 7,650 jobs. Compared with New Castle County overall, the City has a smaller share of youth population and a larger share of people aged 60 or older. Moderately dense suburban subdivisions surround the City.

WILMAPCO population projections show a small change is expected between 2020 and 2050 (1.8% increase) for the City and its surrounding area. WILMAPCO's employment projections for this period show a slight decrease in the greater City of New Castle area's number of jobs (-3.6% decrease).

Demographic Makeup - ACS 2014-2018

Walked

Bicycle Other

Worked at home

Population	
Total population	5,359
Total housing units	2,740
Race	
White alone	62.7%
Black or African American alone	24.8%
Hispanic or Latino (of any race)	8.5%
Asian alone	1.8%
American Indian and Alaska Native alone	0.4%
Two or more races	1.5%
Age	
19 years and younger	12.1%
20 to 59 years	60.7%
60 years and older	27.2%
<u>Income</u>	
Below 100 percent of the poverty level	4.1%
100 to 149 percent of the poverty level	5.7%
At or above 150 percent of the poverty level	90.2%
<u>Commute</u>	
Drove alone	83.80%
Carpooled	9.40%
Public transportation	4.10%

1.60% 0%

0.40% 0.70%



Population and Employment Projections



Transportation Justice

The WILMAPCO 2019 Transportation Justice Analysis identified areas with concentrations of population which benefit from enhanced planning for and provision of transportation to promote equity.

Enviornmental Justice areas have concentrations of Blacks, Hispanics, Asians, Whites and people living in poverty. EJ neighborhoods also include affordable housing developments, as well as school feeder zones with high concentrations of low income or minority students. The City of New Casle has two Census Block Groups which have moderate concentrations of EJ populations. The southwestern EJ area is also identified as a food desert with weak transit access to grocery stores.

Mobility Challenged neighborhoods represent concentrations of seniors, people with disabilities, and households without vehicles. The City has one Census Block Group with moderate concentrations of MC populations.

For more information, visit www.wilmapco.org/tj.



Transportation

Transit

DART Route 15 and 51 travel through the City of New Castle--both connecting to the City of Wilmington and Christiana Mall. Route 14 connects areas in northern New Castle with Wilmington. Routes 13, 14, 25, and 47 travel along US 13. The City's busiest bus stop is at the Farmer's market. Other busy stops are along DE 273 in western New Castle, DE 9 in northern New Castle, and along US 13 outside of the City.

The Portable Transit Score assesses the current and future appropriateness of various intensities of transit service throughout the region based on population density, jobs, and zero-car households. Most of the City of New Castle is expected to support moderate levels of transit service. Areas immediately northwest of the City have higher scores in the medium-high range.

Short-term route changes have been proposed to help with transit operations during the upcoming I-95 construction project.





Roads

Roadway Volume and Intersection Level of Service.



Freight

The City of New Castle area has several major freight routes, many of which experience reoccurring traffic congestion. US 13 from I-495 to DE 273 and DE 273 from Airport Road to DE 141 have been identified as high priority Truck Bottlenecks. Summer travel experiences additional delays as truck mix with beach traffic.



Crashes



Bicycle and Pedestrian



Local streets and pathways provide for comfortable bicycling for most people. Routes DE 273, DE 141, DE 9, and especially US 13 are more challenging for people walking and bicycling.





Planned Transportation







Environmental and Cultural Resources

Assets

The City is home to the First State National Historic Park and a national historic district, including numerous historic and natural sites of national and regional significance. The Park's headquarters is located at the New Castle Court House Museum. Two Delaware Byways, the Delaware Bayshore Byway and Harriet Tubman Underground Railroad Byway, pass through the City. Battery Park is enjoyed by local and regional visitors, one of the few recreational destinations along the Delaware River in New Castle County.

Community destinations in the heart of the City include a library, senior center, pharmacy, City Hall, post office, banks, places of worship, schools, and small shops and restaurants. The New Castle Farmers Market, a supermarket, Penn Farm and a variety of dining and larger shops are located on the western area of the City near DE 273/US 13. Just outside the City, the New Castle Airport is located in this area as well. Other commercial goods and services are located along DE 9 and DE 141, mostly outside City limits.

Community Destinations





Constraints

Environmental constraints are present throughout much of the study area. Wetlands comprise much of the City, including the 41-acre Gambacorta Marsh and 210-acre Broad Dyke Marsh, which form a natural barrier between the City's historic center and newer development. These have been improved through DNREC rehabilitation programs.

As a low lying, riverfront community, many roads and neighborhoods experience storm-related flooding and have projected Sea Level Rise impacts. The <u>2018 Vulnerability Assessment and Adaptation Plan</u> is a community-based plan to adapt the City to minimize the risks associated with flooding. Conservative projections suggest that an increase in sea level and flood elevations of 2 feet or more, with the neighborhoods of Buttonwood, Van Dyke Village, New Castle Manor, Bull Hill, the Strand, and the 7th and Washington The intersections of Delaware Street and Ferry Cut-Off, 6th Street (Route 9) and Ferry Cut-Off/Chestnut Street, and 7th Street (Route 9) and Washington Street are at risk of flooding and Sea Level Rise impacts, blocking access to emergency evacuation routes.


Next Steps

Future tasks include:

Task 2: Identify Transportation Issues and Opportunities

Work with stakeholders to identify issues and opportunities including traffic operations/system management, freight, transit, parking, and bicycle/pedestrian transportation.

- Kick-off Advisory Committee will present the Task 1 report and seek feedback regarding stakeholder outreach process.
- Committees will compile contacts for key community stakeholders and assist with outreach including civic associations and community Public Workshop.
- Work with Management Committee and Advisory Committee to prepare for and hold Public Workshop.
- Public Workshop will use an interactive approach to assess community preferences.

Task 3: Identify and Analyze Potential Multimodal Transportation Solutions

Identify and analyze potential strategies to address traffic operations/system management, freight, transit, parking, and bicycle/pedestrian transportation issues and opportunities.

- Potential strategies for analysis will be developed based on stakeholder and public outreach, identified economic, land use, transportation issues, environmental issues including flooding and sea-level rise, opportunities and constraints, and existing plans.
- Analysis should address roadway capacity needs, parking, pedestrian and bicycle infrastructure, freight, bus transit, green stormwater infrastructure, flooding and sea level rise, and interconnections with the surrounding transportation network.
- A Community meeting will be held to present and discuss potential strategies and the analysis, and get feedback on the preferred recommendations.

Task 4: Identify, Prioritize, and Document Preferred Recommendations

Work with stakeholders to reach an agreement on a transportation plan for the City of New Castle that includes the best set of multimodal solutions and a prioritized implementation plan.

- Based on stakeholder feedback, community outreach and technical analysis, preferred recommendations will be selected by the Management Committee.
- The preferred concept(s) will be compared to existing conditions, using measures of effectiveness such as level of service, bicycle level of stress, traffic diversion, and others as appropriate for the proposed design(s).
- Assessment will evaluate anticipated land use, demographic, environmental and transportation impacts of the proposed design(s).
- For high priority recommendations as appropriate, planning level cost estimates, potential funding sources, and next steps for implementation will be identified, especially regarding infrastructure needs, costs, and phasing that include compliance with National Environmental Policy Act (NEPA) standards to enable eligibility for future Federal funding, and will be documented in a final report.
- Draft report will be presented to the Management Committee, Advisory Committee and public.

Appendix B: PEL Checklist



	Federal Highway Administration - Planning and Environmental Linkages Questionnaire https://www.environment.fhwa.dot.gov/env_initiatives/pel/pel_quest.aspx			
	Topic	Section Reference	Comments	
1.	Background:			
a.	Who is the sponsor of the PEL study? (state DOT, Local Agency, Other)	Project Description and Purpose & Need	City of New Castle, WILMAPCO, and DelDOT	
b.	What is the name of the PEL study document and other identifying project information (e.g. sub-account or STIP numbers, long-range plan, or transportation improvement program years)?		City of New Castle Transportation Plan Update	
C.	Who was included on the study team (Name and title of agency representatives, consultants, etc.)?	Project Description and Purpose & Need	City of New Castle, WILMAPCO, DelDOT, Advisory Committee, and Steering Committee	
d.	Provide a description of the existing transportation facility within the corridor, including project limits, modes, functional classification, number of lanes, shoulder width, access control and type of surrounding environment (urban vs. rural, residential vs. commercial, etc.)	Project Description and Purpose & Need, and Existing Conditions	The study area includes the entire City of New Castle, but some of the transportation solutions address, and/or are affected by, traffic conditions beyond the corporate boundaries as improvements transition to adjacent areas within New Castle County. The City of New Castle is situated between I-295 to the north, SR 9 to the south, the Delaware River to the east, US 13 to the west.	
e.	Provide a brief chronology of the planning activities (PEL study) including the year(s) the studies were completed.	Project Description and Purpose & Need, Existing Conditions, Public Involvement, and Improvement Options – Evaluated, Recommended & Prioritized	A PEL Study was completed which included identifying the Project Needs and the goals of the City of New Castle to address those Needs. Existing conditions were identified, improvement alternatives were developed, and recommendations were provided. All alternatives and ultimately recommendations were developed in conjunction with the Advisory Committee, Steering Committee and with input from the community through several public workshops. The Study was completed between August 2020 and June 2022.	
f.	Are there recent, current, or near future planning studies or projects in the vicinity? What is the relationship of this project to those studies/projects?	Improvement Options –	The US 13/SR 273 intersection has been identified in DelDOT's Safety Program prompting DelDOT to conduct	

	https://www.environment.fhwa.dot.gov/env_initiatives/ Topic	bel/pel_quest.aspx Section Reference	Comments
	Topic	Section Reference	Commonts
			comments
		Evaluated, Recommended & Prioritized	a feasibility study for a grade separated intersection at this location. Since traffic congestion at this intersection is the cause of much of the congestion along the SR 273 corridor it can be safely assumed that improving this intersection, particularly grade separating it, would reduce volumes and improve congestion along the SR 273, Frenchtown Road, Delaware Street and Ferry Cut Off Street Corridor. The Delaware Street/Ferry Cut Off Street Intersection, under a separate contract, DelDOT is working on the SR 9 Delaware Street (N-055) Railroad Crossing Safety Improvements Project (T201500506 SR9 DELAWARE STREET (N-055) RAILROAD CROSSING SAFETY IMPROVEMENTS). The project will replace, in-kind, the existing hot mix at-grade crossing surface on SR 9/Delaware Street, perform drainage improvements at the crossing, close W. 8 th Street at Delaware Street and improve both the railroad and roadway signals to improve safety, visibility and meet current standards. The SR 9/River Road area, to the west/southwest of Dobbinsville is a highly prone to flooding. DelDOT has
			programmed the SR 9, River Road Area Improvements, Flood Remediation to address this issue.
2.	Methodology used:		
a.	What was the scope of the PEL study and the reason for completing it?	Project Description and Purpose & Need	The purpose of this study is to update and develop the City of New Castle's Transportation Plan. The new Plan builds upon the 1999 <i>City of New Castle Transportation</i> <i>Plan</i> , provides additional analyses, and expands on

	Federal Highway Administration - Planning and Environmental Linkages Questionnaire https://www.environment.fhwa.dot.gov/env_initiatives/pel/pel_quest.aspx			
	Topic	Section Reference	Comments	
			 many of the issues identified in the 2009 <i>City of New Castle Comprehensive Development Plan</i>. Improvements will be evaluated to address: An improved multimodal transportation network which provides connectivity to communities and trails, enhances health and livability, reduces illegal truck traffic within the City, and improves overall safety for pedestrians, bicyclists and vehicles. Understand and address the impacts flooding and sea-level rise have on land use and access to major transportation corridors. Improve gateways, with specific attention to the historic elements of the City. Develop a shared parking analysis. Enhance bicycle and pedestrian connections and facilities. Clarify regional and local traffic patterns. Redesign streets and intersections to reduce speeding and cut-through traffic while improving pedestrian safety in all neighborhoods. 	
b.	Did you use NEPA-like language? Why or why not?	Existing Conditions	Yes, because there are state and federally regulated environmental and cultural resources present in the study area.	
C.	What were the actual terms used and how did you define them? (Provide examples or list)	Existing Conditions	Purpose and Need, NEPA, FHWA, Section 4(f), Section 6(f), DNREC, USACE, Section106, SHPO, wetlands, RTE Species, floodplains	

	Federal Highway Administration - Planning and Environme https://www.environment.fhwa.dot.gov/env_initiatives	· · · · · · · · · · · · · · · · · · ·	onnaire
	Topic	Section Reference	Comments
d.	How do you see these terms being used in NEPA documents?	Existing Conditions	These analyses are described in the report for reference in a future NEPA study
e.	What were the key steps and coordination points in the PEL decision-making process? Who were the decision-makers and who else participated in those key steps? For example, for the corridor vision, the decision was made by state DOT and the local agency, with buy-in from FHWA, the USACE, and USFWS and other resource/regulatory agencies.	Public Involvement	 Public involvement and community outreach were important components of the New Castle Transportation Plan Update Study. Residents, the business community, as well as state and local stakeholders were engaged throughout the Study. Community Workshops were held on: February 10, 2021 July 28, 2021 September 13, 2021 November 9, 2021 Advisory Committee meetings were held on: October 21, 2020 December 9, 2020 October 26, 2021 Meeting with Fire and Police Chiefs – November 18, 2021
f.	How should the PEL information be presented in NEPA?		The PEL Study may be attached
3.	Agency coordination:		
a.	Provide a synopsis of coordination with Federal, tribal, state and local environmental, regulatory and resource agencies. Describe their level of participation and how you coordinated with them.	Existing Conditions	Agency coordination was recommended based on study area resiurces.
b.	What transportation agencies (e.g. for adjacent jurisdictions) did you coordinate with or were involved during the PEL study?	Project Need	WILMAPCO, DelDOT, DTC, and New Castle County
С.	What steps will need to be taken with each agency during NEPA scoping?	Improvement Options – Evaluated, Recommended & Prioritized	Each recommendation that moves forward for design will continue with the NEPA process where this report leaves off. Each agency will be prepared to have a scoping meeting for the recommendation and begin the in-depth investigation into the permitting and coordination necessary for design.

	Federal Highway Administration - Planning and Environmental Linkages Questionnaire https://www.environment.fhwa.dot.gov/env_initiatives/pel/pel_quest.aspx				
	Topic	Section Reference	Comments		
4.	Public coordination:	·	•		
1.	Provide a synopsis of your coordination efforts with the public and stakeholders.	Public Involvement	 Public involvement and community outreach were important components of the New Castle Transportation Plan Update Study. Residents, the business community, as well as state and local stakeholders were engaged throughout the Study. Community Workshops were held on: February 10, 2021 July 28, 2021 September 13, 2021 November 9, 2021 Advisory Committee meetings were held on: October 21, 2020 December 9, 2020 October 26, 2021 Meeting with Fire and Police Chiefs – November 18, 2021 		
5.	Range of alternatives:				
а.	What types of alternatives were looked at?	Improvement Options – Evaluated, Recommended & Prioritized	The transportation and mobility goals of the City of New Castle are varied and multifaceted and, as such, require a variety of solutions to address those goals. As part of the development of improvements, a holistic approach was used to ensure all modes of transportation and all types of users of transportation were accounted for. Recommendations are categorized as low, moderate, and high cost. Low Cost/Short-Term Improvements are lower cost, (under \$250,000) easily implementable recommendations that can be performed within three years.		

	Federal Highway Administration - Planning and Environmental Linkages Questionnaire					
	https://www.environment.fhwa.dot.gov/env_initiatives/pel/pel_quest.aspx					
	Торіс	Section Reference	Comments			
			Moderate Cost/Mid-Term Improvements are between the lower cost and higher cost improvements (\$250,000 - \$1,000,000). These improvement projects usually occur three to eight years out from the planning study. High Cost/Long-Term projects generally occur beyond year eight from the completion of a planning study and require the high expenditures (over \$1,000,000).			
b.	How did you select the screening criteria and screening process?	Project Description and Purpose & Need	The new Plan builds upon the 1999 <i>City of New Castle Transportation Plan</i> , provides additional analyses, and expands on many of the issues identified in the 2009 <i>City of New Castle Comprehensive Development Plan</i> . Improvements were developed mindful of the study's purpose and need, and the desired goals and objectives the City of New Castle strives to achieve.			
С.	For alternative(s) that were screened out, briefly summarize the reasons for eliminating the alternative(s). (During the initial screenings, this generally will focus on fatal flaws.)	Improvement Options – Evaluated, Recommended & Prioritized	Alternatives that did not adequately meet project needs, had significant impacts, and/or were strongly opposed by the community were not recommended to move forward for further study.			
d.	Which alternatives should be brought forward into NEPA and why?	Improvement Options – Evaluated, Recommended & Prioritized	Alternatives that sufficiently meet project need, so not have significant impacts , and are supported by the community were recommended to move forward for further study.			
е.	Did the public, stakeholders, and agencies have an opportunity to comment during this process?	Public Involvement	Public involvement and community outreach were important components of the New Castle Transportation Plan Update Study. Residents, the business community, as well as state and local stakeholders were engaged throughout the Study.			

	Federal Highway Administration - Planning and Environmental Linkages Questionnaire https://www.environment.fhwa.dot.gov/env_initiatives/pel/pel_quest.aspx				
	Topic	Section Reference	Comments		
			Community Workshops were held on: • February 10, 2021 • July 28, 2021 • September 13, 2021 • November 9, 2021 Advisory Committee meetings were held on: • October 21, 2020 • December 9, 2020 • October 26, 2021 Meeting with Fire and Police Chiefs – November 18, 2021		
f.	Were there unresolved issues with the public, stakeholders, and/or agencies?		No		
7.	Planning assumptions and analytical methods:				
a.	What is the forecast year used in the PEL study?	N/A	N/A		
b.	What method was used for forecasting traffic volumes?	N/A	N/A		
С.	Are the planning assumptions and the corridor vision/purpose and need statement consistent with each other and with the long-range transportation plan? Are the assumptions still valid?	Project Description and Purpose & Need	The new Plan builds upon the 1999 <i>City of New Castle Transportation Plan</i> , provides additional analyses, and expands on many of the issues identified in the 2009 <i>City of New Castle Comprehensive Development Plan</i> . Improvements were developed mindful of the study's purpose and need, and the desired goals and objectives the City of New Castle strives to achieve.		
d.	What were the future year policy and/or data assumptions used in the transportation planning process related to land use, economic development, transportation costs, and network expansion?	Appendix H Cost Estimates	Costs were estimated using 2022-unit prices.		
8.	Environmental resources (wetlands, cultural, etc.) reviewed.		·		
a.	In the PEL study, at what level of detail was the resource reviewed and what was the method of review?	Existing Conditions	Desktop review and field verification		
b.	Is this resource present in the area and what is the existing environmental condition for this resource?	Existing Conditions	It appears from our desktop review there are environmental, cultural and Section 4(f) resources present in the project study area.		

	Federal Highway Administration - Planning and Environmental Linkages Questionnaire https://www.environment.fhwa.dot.gov/env_initiatives/pel/pel_quest.aspx				
	Topic	Section Reference	Comments		
C.	What are the issues that need to be considered during NEPA, including potential resource impacts and potential mitigation requirements (if known)?	Existing Conditions	It appears there could be impacts to the resources with many of the recommendations presented in this report.		
d.	How will the planning data provided need to be supplemented during NEPA?	Existing Conditions	Coordination with appropriate State and Federal resource agencies will be imperative at the start of the next phase of design for each individual project.		
9.	List environmental resources you are aware of that were not reviewed in the PEL study and why. Indicate whether they will need to be reviewed in NEPA and explain why.		 25 historic markers 13 parks/public open spaces NWI Wetlands Waters of the US These resources will need to be reviewed in NEPA and further coordination with the appropriate State and Federal resource agencies will be required. 		
10.	Were cumulative impacts considered in the PEL study? If yes, provide the information or reference where the analysis can be found.	N/A	N/A		
11.	Describe any mitigation strategies discussed at the planning level that should be analyzed during NEPA.	N/A	N/A		
12.	What needs to be done during NEPA to make information from the PEL study available to the agencies and the public? Are there PEL study products which can be used or provided to agencies or the public during the NEPA scoping process?		The PEL Study will be available to agencies involved in the planning and design processes.		
13.	Are there any other issues a future project team should be aware of?	N/A	N/A		

Appendix C: Public Workshop 1 Summary Report





City of New Castle Transportation Plan Update Public Workshop February 10, 2021

The first Public Workshop for the City of New Castle Transportation Plan Update was held on February 10, 2021 via Zoom. The Workshop was held in a meeting format which allowed for a presentation, as well as live public participation in three separate topic-specific, Breakout Sessions.

The following provides a summary of the Workshop and corresponding feedback.

The Workshop hosted 56 attendees. A presentation of the existing conditions and the data collected to date was provided to the public.

Two polling questions were used at the beginning of the presentation to gather information and to encourage participation from the attendees. The following information was gathered through the polls:

City of New Castle Transportation Plan Update			
Public Workshop 1 February 10, 2021 Poll Results			
Question 1: Do you live, work, or play in New Castle?			
	Answer	Tally	<u>%</u>
	Live, Work and Play	11	14
	Live and Work	11	14
	Work and Play	2	3
	Live	5	7
	Work	2	3
	Play	8	10
Question 2: How many people are attending this Workshop in your household?			
	One	34	44
	Two	4	5

Additionally, there were three topic-specific Breakout Sessions that allowed members of the public to discuss specific topics with project moderators. The topics of the Breakout Sessions were as follows:

- Breakout Session 1 Bicycle/Pedestrian & Transit
- Breakout Session 2 Traffic/Freight & Parking
- Breakout Session 3 Environmental/Flooding/Streetscape & Electric Car Charging Stations



Participants of the Breakout Sessions were able to voice their thoughts, concerns, and potential improvements for each of the topics, as well as electronically "mark-up" an aerial base map of the study area with their thoughts. Moderators recorded the Sessions and took handwritten notes of the comments received. At the end of each Breakout Session, the groups came together as one large group and the moderators provided a summary of the information gathered during each group Session. All of the recordings, mark-ups and notes were posted on WILMAPCO's website and are part of the official record of the study.

The following are the comments received during the Breakout Sessions:

would be
oedestrian
y add way
are bicycle gned to be

9. Intersection of 273/9 where Pizza History is - larger signs to instruct of oncoming traffic - people will stop when they don't have to - very difficult for pedestrians to cross this intersection







10. Shopping Center Light (Ferry Cut Off St/Delaware St) - people not crossing at crosswalk along street - crossing at corner of shopping center - crossing along entire street

11. Intersection of 9/W 6th St - making a right off 6th St many bikers get off their bike to cross

12. Improved connection from end of JAM

Trail to Battery Park

13. Connection from end of Battery Park to Rt 9 - currently ends at a fence

14. Bike and ped parking between Carrie Downy School and New Castle Elementary School - Yellow flashing lights are not enough - When people are approaching on bike or foot, not certain traffic is getting a good enough notice that they need to slow down or stop at crosswalk - Lots of people run the light when you've pushed the crossing button - Someone was rear-ended when they stopped at that crossing for a pedestrian

15. Walking and biking at Ferry Cutoff with 6th St/rt 9 – intersection is a nightmare for anyone on foot or bike – not even automobile friendly

16. Took #15 bus when first moved to NC to commute to Wilmington but service was too unreliable and bought car – need more limited stop lines - Same for Newark – too long when you have to go to Wilmington first

17. Traveling southward on SR 9 from Wilmington area into Town of New Castle is very stressful and unsafe

18. The Markell Trail crossing of SR 273 to South St and jog from 7th to 6th Street crossing is difficult - Needs a safely signed direct connection to the riverfront - Consider direct bike/ped connection between South St and Battery Park Trail

19. Continue the Battery Park Trail farther north along the riverfront

20. Markell Trail to Battery Park Trail

21. Better connection to the high school







22. Consider extending Road Dieting along SR 9

23. There is good transit mobility within the Town CBD, but better accessibility and stops are needed between the Town and US 13

Breakout Group 2 - Traffic/Freight & Parking

1. Large trucks on 2nd St going south (trucks are possibly following GPS routing) should be on Route 9

2. Market St traffic could flow in either direction - A study should be conducted to determine the best direction of traffic flow on Market St to serve drivers looking for parking

3. Potential traffic calming location at Delaware St/Ferry Cut Off St intersection - Bend in roadway conflicts with parallel parking spaces - Recommends traffic calming on Delaware St near 7th St

4. Area trucks currently being routed around the city - What is the existing signing directing truck traffic - Is there enforcement - Is truck traffic in the City still a problem

5. Trucks coming from near Carroll Dr and Printpack Industrial area are using a short cut route through River Rd - Dobbinsville left on Washington St to 141 or 273 to 13

6. Dobbinsville residents have complained about truck traffic safety and speeding

7. Rt 9 to Washington St reroute truck traffic away from this route

8. Parking in New Castle still needs to be improved - Need more input from DelDOT and WILMAPCO - More parking planning and advice needed

9. Traffic jams, especially on the weekend in the summertime - Light at Hares Corner backs up to 295 - Light at Farmers Market entrance - Light at 273/141 - Possible issue with light timing

10. Tractor trailers have issues in the city, often can't get out - Especially at night - GPS problem (Google)







11. Route 9 through Dobbinsville - Lot of truck traffic - Usually turning left on Washington Street

12. Army Creek Bridge constantly flooded - Trucks go through and get stopped/stop traffic

13. New parking lot behind Delaware Street close to Battery Park - People struggling, circling around oneway streets looking for parking

14. Multiple places of interest that do not have parking, so people compete with residents for on street parking

15. Chestnut & 9 is also problem with traffic, especially rush hour -This intersection holds water, too, which impacts traffic - I-95 work will make this worse during that construction

16. Heavy truck traffic in Dobbinsville

17. Traffic filters through downtown area with people trying to bypass 6th St - High speed traffic 3rd St to South St to head to Rt 9 - Wilmington Rd into 3rd St - High speeds, especial during rush hour

18. Ferry Cut Off St near Walgreens has high speeds when it's not congested - intersection in front of courthouse, sometimes people make u-turns there -

19. Drivers disregarding one-way streets, Harmony 5th-3rd, Cherry St near 6th

20. Cherry St close to Ferry Cut Off St has no parking and people park on sidewalk

21. Speeding on residential streets especially smaller trucks

22. 3rd & Delaware with that little jog seems dangerous – cars miss that there's a ped crossing

23. Traffic is regularly problematic at - US 13 during PM peaks and summer traffic - Dangerous yield sign at SR 273 and Delaware St - SR 9 and Delaware St. congestion - SR 9 backs up to Moore's Ave. at peaks







24. trucks regularly cause traffic congestion and backups at - Amazon facility along SR 273 has mix of all types of trucks - Dobbinsville truck traffic along SR 9

25. Norfolk Southern Train at 4am causes vibrations and noise for residents

26. The new parking garage on 3rd street is ineffective, as 100 spaces were trimmed to only 32 spaces

27. Request – Please provide better crash statistics regarding number of fatal crashes and crash-type distribution

28. Don't just rehash old studies - Need new creative ideas to be implemented

29. Evaluate complete bypass around City for trucks and other through traffic (in area of Basin Rd)

30. 3rd St is major cut through corridor especially when US 13 & I 95 are backed up

31. Rt 9 south of town floods even when rain isn't heavy – causes backups and trucks to use other roads they're not supposed to use like 6th St

32. Development South of town generating more traffic particularly along Rt 9

33. Evaluate the income levels of developments along US 13 and what that means for New Castle

Breakout Group 3 - Environment, Flooding, Streetscape & Electric Vehicles

1. More trees is better - More tree lined streets

2. Ferry Cut Off St area needs more street scaping and landscaping improvements -This area is not very attractive

3. Flooding at 7th St. going south - Past state studies of the area have recommend discouraging development near wetland but the area is still developing near wetlands - Need more accountability from the state on following study recommendations







4. The historic layout and sense of space in the city should be preserved - Projects should preserve the built environment, (size of open area and street widths) open space and the character of the historic layout of the city - Stay true to the historic layout of the city

5. Flooding on Route 9 south of Dobbinsville - Potential that tide gate may be malfunctioning - Water coming in the tide gate to Army Creek could be contributing to the roadway flooding

6. Army Corps Bridge flooding

7. 273 meets 9 -South side floods out to the road - Left side floods business' parking lot - Minimal light at this intersection - illuminated/flashing high water sign to warn people about the flooding/frozen over water -Trucks get stuck

8. Route 9 - South of town, on the other side of Dobbinsville - Barriers put up, but people go around or move them out of the way then get stuck - Possible citation/fine for people ignore the signs/barriers

9. Better signage for historic district/local parking

10. Flooding on Rt 9 – getting worse over last several months

11. Need to look at flooding near Dobbinsville and southwest from there

12. Rt 9 floods near refinery, and then Dobbinsville is only exit

13. Electric Vehicle charging stations make a lot of sense - Maybe on South St where ASPCA is leaving - 3rd St parking lot

14. Gateway at Frenchtown Rd is really ugly – needs some love

15. Patch of grass near the pier where the house used to be – end of Delaware St

16. Gateway off 9 to Wilmington Rd not inviting either - Also intersection difficult for cyclists, especially trying to turn left into town

17. Entrance to Van Dyck Village – just hidden







18. Town Gateway opportunity and/or beautification needed at 6th St. and Ferry Cut Off St/Chestnut St - Need better Town 'gateway' entrance from points south of Town

19. Dobbinsville area and points south of Town prone to flooding

20. Focus improvements with electric vehicles in mind, including amenities -This is the future of transportation

21. Some consider paths nuisances

22. Designate areas to preserve

23. City already working on wayfinding and gateway study – need to identify funding sources

24. City tree program started along Delaware St – correct species and maintenance important factors

The following are the Post-Breakout Session Summaries:

Bicycles

Markell trail down to Battery Park area has connections missing Need wayfinding signs between trails Location of bike parks and where we need them

Pedestrians

Maintain brick sidewalks - When in poor repair, people walk in street Good mobility in CBD

Transit

Need better accessibility to High School and west of Town Route Changes for 15 to Airport and 13 to Train Station Often slow and unreliable to Wilmington or Newark

Traffic

Bypass traffic from US 13 3rd to South to Rt 9 Congestion at Rt 9 & Delaware Development south of town - how will that traffic affect the City Speeding traffic One-way streets - people going the wrong way & speeding





U-turns near courthouse 6th St backs up Rt 9 south of town an issue for flooding, then traffic Norfolk southern train at 4am - noise and vibrations Large trucks on 2nd going south

Freight

Signing for routing trucks around City - enforcement River Rd, 7th St - cut-throughs Vibrations in Dobbinsville area 3rd St heavy cut-through

Parking

Issues with new parking on 3rd St Need more planning for parking in general Which way should Market St flow People parking on sidewalks on one-way streets

Flooding

Flooding through Dobbinsville 9 corridor Army Creek Bridge Rts 273 & 9 - maybe flashing light earlier on Rt 9 Rt 9 south of town, people move the barriers and then get stuck in flooded areas

Streetscape

Frenchtown Rd & Ferry Cut Off St Wilmington/3rd St Van Dyke Village EV on South & 3rd St Careful that EV stations don't create problems Wayfinding sign system and plan for gateway signs but need funding City trees - maintenance Support for tree-lined streets Streetscaping in Ferry Cut Off St area Ferry Cut Off, 6th St - needs enhancement Better gateway entrance from south Spatial layout and history of town important







Other Issues

Some rivalry between commercial and residential interests Additional traffic from attractions like Kalmar Nickel? Do not just re-hash studies from years ago

Intersections with issues

Rts 273 & 9 Needs better signage - some people stop when they don't have to near shopping center light Button for crosswalk not ADA accessible Rt 9 north of town very difficult Ferry Cut Off St and turn to Delaware St Intersection 7th St over to Delaware St Rt 273 & 7th St Hares Corner Rts 273-141

Q&A

Increased flooding on Rt 9 south of NC - now floods even with light rain or low wind improvements scheduled for 2030-35 but needs action sooner Bypass road for the City of New Castle - is considering this part of the study There were environmental challenges with route identified but will look at it Very large pothole on ferry cut off near Walgreens that has been there for 5 years Answer from City Councilperson: not supposed to block public streets unless you get permission for specific purpose City should consider policy re: placement of cones in front of house to hold a parking space Sign for Van Dyke Village #1 problem is EVs for areas with townhouses and others that don't have assigned parking spaces There are some DNREC grants available for EV charging stations in shared parking areas Streetscape improvements for both gateways needed Increased downed trees in Van Dyke Village at end of 14th St - in wetlands section, not on private property Crossing Rt 13 is not safe for bikes Stop train horns going off - designated quiet zone Long trains + Rt 9 flooding sometimes strands parts of the City Dark section on Rt 9 between Cherry St and Landsford - are you looking at lighting Pedestrian improvements at entrance to River plaza Hares Corner bad intersection for cycling

Sign at South St headed into town reminding cyclists about laws and who has right of way

Places for kiosks for maps and explanations for bikes/peds



Bike Delaware had conceptual designs for several intersections Yes! bringing those outside consultants to team More maps for visitors and stalls for bike parking Speed limit on Rt 9 south of Dobbinsville could be raised to 35 Intersection of South & 7th - people are not stopping at stop sign

Post Workshop Comments:

See Attached

Appendix D: Pop Up Workshop Comments



The City of New Castle and the Wilmington Area Planning Council are working together to update the 1999 *City of New Castle Transportation Plan* and analyze issues raised in the 2009 *City of New Castle Comprehensive Development Plan*.

The study area for the plan includes the entire City of New Castle and will also consider transportation transitions to surrounding areas.

City of New Castle Transportation Plan Goals and Objectives

- ✓ Improve the multimodal transportation network
 - Provide connectivity to communities and trails
 - Enhance health and livability
 - Reduce illegal truck traffic
 - Improve safety
- ✓ Address flooding and sea-level rise impacts on land use and access to major transportation corridors
- ✓ Improve gateways to the historic city
- ✓ Analyze shared parking options



Next Public Workshop September 13 Details TBA

Find out more here: http://www.wilmapco.org/cityofnewcastle/



HURLEY

ASSOCIATES



Public Comments

Pop-Workshop Battery Park July 28, 2021

- Too Much Traffic / Truck Traffic on 6th Street GPS Directs You This Way
- Trucks Should Use Washington Street
- Beach Traffic on 6th Street Fridays SB, Sundays NB
- No One Stops at 6th & Harmony Streets
- Do Not Do RR Crossing Work Until I 95 Work is Finished
- SR 273 should be Four Lanes Whole Way
- In Front of Farmer's Market at SR 273 Light Make Turn Lane Longer – There is Room
- Speeding on 6th Street
- Uneven Sidewalks
- Battery Park Trail Just Ends
- JAM Trail Ends at Road
- More Parking by Delaware Street Section of SW Crossing at 3rd & Harmony Streets

GINEERING MOBYCO

HURLI

FRANKS

ASSOCIATES

HFA

- Add Street Lighting
- Truck Speeding on Washington Street
- Not Enough Signage
- Cars & Truck Speeding
- Rental Bikes & Bike Racks
- Need Parking on 4th Street

Tell us your 3 top priorities for transportation **Priorities for Improvements** improvements in New Castle – put a 🗸 by each Improve on-road bike Improve off-road **Reduce traffic Reduce cut-through** facilities bike/pedestrian traffic congestion paths & trails 1 15 1 P1 +1 13 Lg 1-25 mph an Ferry Cut-Off Add parking Improve sidewalks Slow traffic speeds Add street trees and crosswalks 11 or lighting 1 Fix sidewalks 35054 TO E. 9TH ST Running stop signs Improve signs and Improve bus service Add electric vehicle Other? You tell us! gateway elements charging stations Flooding 12/11 5 Imposve Ferry Ct OF Improve Ferry Ct. Of New Castle ILMAPCC HURLEY HFA FRANKS DelDOT FRANKS ASSOCIATES



Appendix E: Public Workshop 2 Summary Report



City of New Castle Transportation Plan Update Study Community Workshop #2 September 13, 2021 Workshop Summary Report

The second Public Workshop for the City of New Castle Transportation Plan Update Study was held on September 13, 2021, via Zoom. The Workshop included a live presentation and was followed by a Question-and-Answer period.

The following provides a summary of the Workshop and corresponding feedback.

The Workshop hosted 37 attendees. The Workshop presentation included a review of the Study Area, Goals and Objectives, Public Comments, Study Approach, Improvement Options Developed, and Next Steps of the study.

Specific topics covered during the Workshop encompassed Speed Limit Reductions, Strategic Projects, Improvements to Make Intuitive Travel Decisions (Cut-Through Traffic, Trucks, Bicycle Boulevards/Focus on Bicycle Movements, and Gateways), Bicycle/Pedestrian Improvements (Focused/Improved Bicycle Network and Primary & Recreational Bicycle Routes), and Parking/Roadway Modifications for Greater Circulation.

Sixteen polling questions were asked throughout the presentation to gather information and to encourage participation from the attendees. The following information was gathered through the polls:

City of New Castle Transportation Plan Update Study			
Community Workshop #2			
13-Sep-21			
Poll Results			
Workshop Summary Report			
	Answer	Tally	Percentage
Did You Attend the First Public Workshop on February 10, 2021?			
	Yes	14	56%
	No	11	44%
	Total:	25	100%
Did You Attend the Pop-Up Workshop on July 28, 2021?			
	Yes	7	28%
	No	18	72%
	Total:	25	100%
Do You Support Speed Reductions Throughout the City?			
	Yes	18	67%
	No	7	26%
	Unsure	2	7%
	Total:	27	100%
Which Concept at the SR 273 / SR 141 Intersection Do You Support?			
	Concept 1: Free Right Turn	9	33%
	Concept 2: Signal Controlled		
	Right Turn	9	33%
	Both	2	7%
	Neither	6	22%
	Unsure	1	4%
	Total:	27	100%

	Answer	Tally	Percentage
Which Concept at the Delaware Street / Ferry Cut			
Off Street Intersection Do You Support?			
on street intersection bo rou support:			
	Concept 1: Existing Condition		
	with Multi Use Path	3	10%
	Concept 2: Gateway Addition	16	
	Both	7	24%
	Neither	3	
	Unsure	0	0%
	Total:	29	100%
		25	100/0
Which Concept at the Ferry Cut Off Street / E. 6th			
Street / Chestnut Street Intersection Do You Support?			
Support:	Concept 1: Separated Roads	7	25%
	Concept 2: Dutch Left	15	54%
	Both	4	14%
	Neither	1	4%
	Unsure	1	4%
	Total:	28	
Which Concept at the W. 7th Street / Washington Street Intersection Do You Support?			
	Concept 1: Signing	4	14%
	Concept 2: Washington Street	•	11/1
	Sweep	13	46%
	Both	8	29%
	Neither	1	4%
	Unsure	2	
	Total:	28	
		20	10070
Do You Support a Revised Bicycle Network Which Identifies On-Road and Off-Road Paths?			
	Yes	28	93%
	No	1	3%
	Unsure	1	
	Total:	30	

	Answer	Tally	Percentage
Do You Support a Continuous Multi Use Path from			
the SR 273 / SR 141 Intersection to Landers Lane			
and Along Basin Road?			
	Yes	24	89%
	No	2	7%
	Unsure	1	4%
	Total:	27	100%
Do You Support a Separated Bicycle Path Along			
Washington Street?	Yes	25	86%
	No	4	14%
	Unsure	0	0%
	Total:	29	100%
Do You Support the Dobbinsville Multi Use Path Connector?			
	Yes	17	94%
	No	1	6%
	Unsure	0	0%
	Total:	18	100%
Do You Support the Proposed Improvements Along South Street?			
	Yes	18	72%
	No	3	12%
	Unsure	4	16%
	Total:	25	100%
Do You Support the Proposed Improvements Along Cherry Street?			
	Yes	11	61%
	No	3	17%
	Unsure	4	22%
	Total:	18	100%
Do You Support the Proposed Expansion of the Chestnut Street Parking Lot?			
כוובאווען אובער מואווא נטו:	Yes	7	39%
	No	7	39%
	Unsure	4	22%
	Total:	18	100%

	Answer	Tally	Percentage
Do You Support the Proposed Locations for			
Gateway and Other Aesthetic Enhancements?			
	Yes	19	90%
	No	1	5%
	Unsure	1	5%
	Total:	21	100%
Do You Support the Proposed Flood Improvements?			
improvements:	Yes	14	82%
	No	0	0%
	Unsure	3	18%
	Total:	17	100%

Following the presentation, which included the sixteen poll questions summarized above, a Question-and-Answer session was held. The following questions were asked:

1. Will the slides be able to be emailed out after the presentation?

Yes, the PowerPoint presentation is posted at http://www.wilmapco.org/cityofnewcastle/. We'll have the recording available there later this week.

2. What is a "bicycle boulevard" and how does it differ from a bike path?

Bicycle boulevards are shared streets with low traffic volumes and slow speeds to give bicycle travel priority. They use signs, pavement markings, and speed and volume management measures to discourage through trips by motor vehicles and create safe, convenient bicycle crossings of busy arterial streets.

3. I would suggest in the next poll when it comes to limiting the speed that it read: "Yes, No, Unsure, or Some Streets."

Thanks, great point. We'd love to hear where/where not speed reductions are supported.

- 4. Speed limits must consider that residents need to come and go, too. 15 MPH is "Sunday driver" speed, not useful getting around speed.
- 5. I own and have just revamped the property at the corner of Frenchtown Road (604 Frenchtown Road). A business cannot survive there if there is no access due to a cul-de-sac. Please do not do this!!
- 6. Free turns should all be allowed at SR 141 and SR 273. It will back up!

- 7. Crossing SR 141 is the worst part of the Penn Farm Trail. A design solution is needed for that.
- 8. This would be a big, missed opportunity to improve the Penn Family Trail crossing of SR 141, which is the worst part of the trail.
- 9. Why was a roundabout not looked at for the SR 273 / SR 141 intersection?
- 10. I would love to get the slides so that I could mark up the where and where not speeds should be changed.
- 11. Do they plan on putting flashing lights at the intersection in front of the shopping center (Ferry Cut Off Street / Delaware Street intersection)? People fly through there when the light is green and there's no traffic.
- 12. With Concept 2 at the Ferry Cut Off Street / Delaware Street intersection, is there a proposed sidewalk behind the grassy area where an existing sidewalk is currently?
- The area at the Ferry Cut Off Street / Delaware Street intersection just before the curve to SR 273 floods. This will cause major issues if the road is flooded.
- 14. Will there be stop signs or lights for those accessing the turn into the city (Ferry Cut Off Street / E. 6th Street / Chestnut Street Intersection)?
- 15. Has adding a light been considered at the existing Ferry Cut Off Street / E. 6th Street / Chestnut St. location?
- 16. Will the Dutch Left circle be small enough to reduce 18 wheelers? Hopefully so.
- 17. FYI Once people figure it out, they will most likely make a left off of SR 9 onto Wilmington Rd. to Chestnut and then go through the city.
- 18. As Ted stated, I wanted to make sure that any changes made to roads would include improved drainage for that area. Is this correct?
- 19. Speed should be reduced on W. 7th Street. This is a residential street now, and there is potential for additional residential use in the future. Large trucks should be routed on to US 13 and SR 273. With growth at the Port, not reducing truck traffic now would be a great mistake.
- 20. So, drivers won't be able to make a left onto W. 7th Street from Washington Street anymore?
- 21. I support low stress routes for people using bicycles (whether "on" or "off" road).
- 22. The proposed improvements along Wilmington Road probably aren't needed.
- 23. No one calls the "Markell Trail" the "New Castle Industrial Track Trail."
- 24. FYI DelDOT has plans to install a traffic light at the W. 9th Street and Delaware Street intersection.
- 25. It would be good to show proposed pathways extending across driveways.
- 26. The side paths seem to end abruptly. How do you propose to transition bicycle traffic into mixed traffic when these paths end?
- 27. Would the city or the state foot the bill for each of these improvements?
- 28. For a separated bike path on Washington Street, would it connect down to SR 9?
- 29. Was making South Street a one-way between 6th Street and 7th Street evaluated? (This was funded by the Delaware Bicycle Council and requested by the city).
- 30. There is almost no use of the parking lane on South Street between 4th Street and 5th Street.
- 31. I strongly support the pathway extension of the Markell Trail, but there are some design details that should be looked at more carefully.
- 32. The side paths on Washington Street and South Street seem to have many street crossings and some driveway crossings. How will you mitigate these conflicts?
- 33. Is this parcel on Chestnut Street buildable (for housing)?
- 34. The residents by the proposed Chestnut Street parking lot will not agree to this.
- 35. It is not obvious how to get to the main part of town. Some design is needed for pedestrians/bicycles to get to Delaware St, Battery Park.
- 36. Yes, I support proposed flooding repair work. A few areas that are now flooding where I never noticed a year ago are by the train tracks, Municipal Drive by the police station, and the industrial park. This is important to take notice of.
- 37. Maybe turn the area where the old city garage used to be into a parking lot, instead of the area near the river. Chestnut and 4th (across the road).
- 38. You already have a sign by W. 7th Street and Wilmington Road.
- 39. We already have plans in hand for the Gateway Locations.
- 40. In terms of aesthetic enhancements, I support better signage with lighting.
- 41. There are big plans for a dense apartment unit on the triangle at Ferry Cut Off Street and E. 6th Street. Please factor in this project with your road improvement plans/projects in that area.
- 42. Does DART bus service have any role in these improvements?

- 43. Are there any plans at the intersection of Wilmington Road and Moore as far as bicycle/pedestrian improvements?
- 44. We've recently seen more stop signs pop up in an attempt to slow and control traffic flow through town. Wouldn't speed bumps/humps accomplish this without the all the signs, starts, stops, revving, etc.?
- 45. Will this study interface with the SR 9 Corridor Master Plan, which ended at Buttonwood Avenue? Will the recommendations and priorities (road diet, streetscape, etc.) be extended into the City of New Castle portion of SR 9?
- 46. I don't like the idea of the tobacco shop being at the dead end. It would bring more traffic through Washington Park and promote on-street parking in that area. (SR 141, SR 273, and 14th Street).
- 47. The Dutch left can't work with the triangle apartment project at E. 6th Street and Ferry Cut Off Street.
- 48. Anything that reduces through traffic in this entire area is ideal. Traffic has been horrible lately, more so than previous years.
- 49. The Washington Street Sweep is a very clever design.
- 50. Pathways should be continuous across driveways.
- 51. FYI For the South Street improvements, cyclists will most like stay on the road and not use the sidewalks.
- 52. Does your plan include the land, installing streets and vacant building lots off Buttonwood Avenue and New Castle Avenue?

The Q&A Session, as well as the entire presentation, was recorded and the responses to the questions above can be found on that recording which is posted on the Dover/Kent County MPO Website at doverkentmpo.delaware.gov.

At the completion of the Workshop and Q&A Session, attendees were asked to complete a Post Workshop Survey. The results of that survey are as follows:

1. Do you support the proposed vision for transportation improvements developed as part of this study?

Scale: 1 Strongly Disagree – 10 Strongly Agree

 Reply:
 10 (3)

 Reply:
 9 (2)

 Reply:
 8 (3)

 Reply:
 7

 Reply:
 5

2. How well do you feel that tonight's Workshop provided you the opportunity to share your ideas, thoughts, and concerns related to transportation and traffic circulation in the study area?

 Scale:
 1 Strongly Disagree – 10 Strongly Agree

 Reply:
 10 (3)

 Reply:
 9

 Reply:
 8 (3)

 Reply:
 7

 Reply:
 5

 Reply:
 2

3. Are there other improvements you would like evaluated as part of this study?

Reply: More consideration for the residents, please! Many of us don't want prominent "gateways" and endless signs. Managing traffic around the perimeter of town is necessary but remember that people live here and don't necessarily want to move around in our own city in order to accommodate visiting cyclists and tourists. It's nice being a little hidden gem. Please remember that this is, for many of us, our home first, not a destination.

Reply: The crossing of SR 141 is by far the worst part of the Penn Farm Trail. Failing to improve this crossing would be a big, missed opportunity.

Reply: No, I believe all the traffic congestion was touched. Specifically, traffic through the city (north on 7th Street), down Washington Street and Delaware Street. As a resident of W. 12th Street, it lately has been hard getting on/off my street onto Washington Street specifically around rush hour and weekends. Also closing off 14th Street at Washington Street may bring more through traffic into Washington Park, especially since the incoming tobacco shop (which many of us residents are not happy about) only has 3 parking spaces and opens onto 14th Street.

Reply: The study must interrelate to intended access into the Port of Wilmington--SR 9 to continue as a relief for coastal traffic; there is a need of a major loop at Chestnut Street and a Gateway entrance to Old New Castle and overpass at US 13. Deny any intrusion upon private properties at the waterfront --- New Castle Commons does have prerogative over the East side of US 13 (and a major (overpass) will be required over US 13 to SR 273 to alternate tie-in to I-95). Optimum use for bike and pedestrian traffic is being denied at the New Castle Industrial Track Trail. Do not permit bikes along major routing such as US 9. The Waterfront Path system exists adjacent sailboat landings - maximize such. Elevating roads creates major flooding elsewhere.

Reply: Quality of existing sidewalks. Bike parking locations.

Reply: Increased DART bus service.

4. Are there any other thoughts, or topics regarding the content or format of tonight's Workshop you would like addressed?

Reply: Great job. A little more upfront explanation of exactly what your assignment is and from whom would help. Not everyone has been with you all along the way, so it'd help to contextualize the project.

Reply: I would like to understand the evaluation of making South Street between 6th Street and 7th Street a one-way in order to make room for the extension of the Markell Trail. I am also confused by the retention of parking lanes in the rest of the corridor.

Reply: Not sure at this time.

Reply: The side paths had few design details when compared to the other proposed improvements. The street and driveway crossings where there are the most conflicts are left blank. The Washington Street and Ferry Cut Off Street paths need to be flushed out better to address this. If the speed limit on South Street is reduced to 15 MPH, it should function as a shared street.

Reply: No.

5. How was the video quality of the workshop?

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Scale:1 Strongly Disagree – 10 Strongly AgreeReply:10 (4)Reply:8 (5)Reply:3
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6. How was the audio quality of the workshop?

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Scale:1 Strongly Disagree – 10 Strongly AgreeReply:10 (5)Reply:9Reply:8 (3)Reply:2
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Following the Workshop, attendees were provided with contact information where they could reach out to the presenters, should they have any further comments or questions at a later date. The following messages were received by attendees:

1. First off, many thanks again for tracing down, as best you were able, my continued engagements with WILMAPCO, the County, etc., particularly with regard to Land Use — extending over forty years.

Several evenings back, attending the Zoom meeting with subject New Castle regard (and unable to click properly the Chat button), I wish to reinforce earlier comment and that, subsequently, herein, added:

As earlier stated, Old New Castle is a National Icon and any even attempt at further commercialization should find rebuke. (Yes, "Jessups", etc. must be preserved—The Tea House & Arsenal, sadly, long gone. The Kalmar-Nyckel cruise landing at the Army Pier is lovely in concept.) Of a minority of such small jurisdictions within Delaware able to be self-supporting (separate but contributing New Castle Commons being income generating) --- the Commons, apparently, in recent make up is now prejudiced toward commercial growth and such endeavor should draw strong criticism. New Castle's jurisdiction included what became the Army Air Corps airfield, the farmlands bordering Rt. 273/Rt. 13 de facto commercialized by Bellanca, thence a generation later, Amazon, etc., etc. --- continues handsome incomes to the Town. Maximizing trans-shipment between rail, air, the I-95, Rt.141/273 and the expanded Port of Wilmington and required inter connections, must bear upon the State/WILMAPCO with a priority to be so set. Further, Residential accommodation for expanded demographics-" connectivity to communities", opportunities for varied mobility, availability of the Town as a tourist attraction should be left vacant. Such interests have earlier been addressed and excessively. The experience of Collins Park is but one example of "accommodation." Old New Castle MUST remain as is. Not to leave out needed discussion with regard to Bike ways. Preserving individual mobility, mini cars might become an option.

For the above trans-shipment priorities, WILMAPCO/Century Engineering should be commended for the current effort-Rt. 9 recommended improvements for such Town bi pass. Herein, is recommended a full round-about/prime announced "gateway" at Rt. 9/ Delaware Street and, yet denial of separate "Dutch Loop" --- this latter plainly dangerous. That intersection of Rt. 273/Rt.13, the earlier notorious Bear Intersection, may, alas, require a fly- over if the widened 273 becomes a prime access to I-95 at Churchman's. Rt. 273 tie backed into Rt. 9 South is not evident. Think the big picture.

Back to the old Town: Kalmar-Nyckel's permanent dockage, probably, should stay in Wilmington but New Castle would be ideal during the cruising season-- moored along the Army dock/ice break. And the crew/guests coming aboard require minimal parking. But the parking today is a mess. Should a new locale be at the former location of the Wilson Ferry landing? ---- separate access from the present Rt. 9 access? Such entities, inevitably, bring the cry for commercial hucksters ---- a plea constantly heard at most Parks.

Back to the Pedestrians/Bikes: Stay clear of even mention of running a pedestrian way in back of the Strand private properties----such would be an insurmountable attractive nuisance (green vaguely indicated on Century/WILMAPCO map --- albeit at the Zoom not mentioned.) Historic pavements should remain as is. Continuous "French well"-typar wrapped stone ballast set under the same material/re configuration could give some relief. And with regard to flooding (thank the Dutch for the Dyke), retain/even expand all marsh areas and proper enlarged "weeps" under elevated streets (Rt. 9). Indicated pedestrian walks are excessive in scope/number. Is there an

insider on concrete sidewalk paving? Those newly placed apartments should have each required open green space. Further, bulk heading simply diverts flooding onto adjacent properties. (There is more than a little head scratching occurring at the Army Corps of Engineers.)

Bike ways: Such bicyclists are currently on their way ELSEWHERE and don't need the enticement of a flattened pavement to get there. Sounding out, but again, the dysfunction of Land Use and Transportation, little in the presentation dealt with the criticality in separating the bike from high speed thru vehicular traffic (The Netherlands employs smaller cars/viable bike commerce) nor the required safe interconnection of the multiple bike paths at the continuum of the Markel bikeway. Let the biker simply bike off the round a bout to visit our heritage.

Noting the encouragement of residential Growth to be around existent residential cores, such a New Castle, the probable derailment of County Government Land Use with the County's intended 2050 Comprehensive menage ----- the latter being absent any indicated infrastructure, particularly with regard to future road alignment, begs such as WILMAPCO, if accorded a Governor, to overview and coordinate. New Castle, financially independent, should retain its own mandate ---- particularly, of Honoring its Past.

Many thanks for Reading this --- Charlie Weymouth, AIA

2. My name is George Velitskakis, and I am on the Transportation Advisory Board for the city of New Castle. I have been a business and property owner, investor, and resident of the city of New Castle for over 37 years. I wanted to reach out to you to voice my concern about a proposal that was made at the transportation meeting on Monday Sept. 13th, 2021. A property that I own at 604 Frenchtown Road would be directly impacted in a negative manner. Over the past two years, I have spent a great amount of time, energy, and resources on turning around what was once the worst looking property in New Castle, to one of the best. A new business has recently signed a lease there and has spent a lot of money to get it off the ground. A proposal was made to close off access to the property from that intersection by closing off 14th street with cul-de-sac. This would be severely detrimental to the survival of ANY business there. I understand that they are looking for ways to help traffic flow better at that intersection, but there isn't an issue with the way that corner is setup right now. Some years ago, they had installed a "NO TURN ON RED" sign at the light and it has been working as intended. Closing 14th street is absolutely unnecessary. If this were to happen, there would be no visible access in plain sight for the passersby and many would continue driving on and not patronize the business. There needs to be easy, visible, access to all commercial buildings in town to help their tenants survive because the community depends on them. Please reconsider this proposal. Thank you for your time and consideration and I look forward to working with you.

Best Regards, George Velitskakis

3. Randi,

Thanks to the project team for coming up with some very creative ideas to address transportation problems in New Castle.

I think the combination of the Dutch left at Ferry Cut-Off/6th Street/ Chestnut and the Washington Street Sweep combined with enhanced gateways/better pedestrian and bicycle multimodal amenities/streetscaping—at all locations--plus lowered speed limits can greatly improve traffic calming and reduce cut-through and errant truck traffic throughout the city. I think most residents would get behind these concepts. Reduced traffic also provides an opportunity to make the South Street area more amenable to pedestrians and bicyclers by preventing the problem instead of trying to fix it. Start with these intersection changes and any related small changes and then decide what else needs to be done—if anything—before redesigning South Street.

We have been studying these issues for years. Your designs are real game changers to enhance quality of life. Right now, travel through the center of New Castle is an appealing traffic shortcut— make it less obvious and more inconvenient for the "Waz" crowd and more appealing for the residents and visitors.

Street level views would be helpful for all the gateways. Delaware Street/Ferry Cut-off area has a lot of foot traffic and better views of 2 options would facilitate making choices between two similar options.

The Fort Casimir area is Trustee property and already has some preliminary outdoor space/historic recreation designs. I don't think we need a parking lot there.

Regards, Linda Ratchford

4. Ms. Heather Dunigan, I agree with you as far as public involvement is essential for change. I direct Green Drinks Delaware, which is a group to bring together people that have strong commonality to recycling, repurposing, pushing for legislation on environmental issues and helped with the banning of plastic bags. I have a commitment to community and realize the need for a more responsible transportation plan especially for the City of New Castle area as we have LONG past the ability to handle the traffic load that we're experiencing.

I am asking you if you would bring me on board the community work group that has been established. I think that I would bring a unique and fresh perspective to this group. I would welcome hearing from you and discussing this matter further. I can be reached any time that's convenient for you at, 302-562-7636.

Thank you for your consideration and have a great weekend, Phil Gross

5. Thanks for letting me share my suggestions! The top priority should be to address the road flooding issues on Route 9 south of Dobbinsville between Aster Boulevard and Carroll Drive. Additionally, the flooding issue in front of 202 East 6th Street continues to get worse and should be corrected. This is just north of the intersection of 6th and Chestnut and effects the southbound lane and shoulder.

Sidewalks should be added on Wilmington Road from Chestnut Street to Glebe Lane and continue down Glebe Lane. The old city garage area on Chestnut Street should have minor enhancements like striping/curbing and have vehicle charging stations installed. Install streetscaping and traffic calming measure on Ferry Cutoff. Connect Penn Acres/Stockton/Wilmington Manor Gardens to the JAM trail. Sidewalks should be installed on East 6th Street and a cross walk should be provided at 6th and Chestnut, so it is safe to walk/bike out to Three Country's restaurant.

Provide a sidewalk on Chestnut Street between Fourth and Sixth Streets. Install electric vehicle charging stations at the new 3rd Street parking lot and at the 5th Street parking lot behind the Post Office. Improve Penn Street. Install sidewalks on the northbound side of 7th Street from Dobbinsville to Washington Street. Install a walking/bike path from Washington Park to the New Castle Little League fields. Provide traffic calming features on Washington Street. Install bike racks in the area of 3rd And South Streets. Provide a safe bike path that connects New Castle to Delaware City.

- 6. Rt. 273 from Basin Rd to Rt 13 needs more lanes. Traffic backs up constantly. The flooding on Rt. 9 south of Dobbinsville needs to be addressed. Bicycle safety needs to be a priority will the increased bicycle traffic into New Castle. Increased bicycle activity needs to be encouraged. Traffic needs to be diverted from going through town on 6th St. It can't handle the volume and is dangerous.
- 7. Heavy truck traffic has increased noticeably and dramatically on Route 9 since the opening of Twin Spans Industrial Park. As I have suggested previously, why not build a bridge and road connecting Lukens and Twin Span industrial parks, and require truck traffic to enter both industrial parks using Cherry Lane into Lukens? This would remove most of the large truck traffic from Route 9 (Wilmington Road). These trucks literally vibrate my house on Wilmington Road.
- 8. All of the new bicycle trails are wonderful, however, it would be nice to see a bicycle rental shop somewhere along the trail.
- 9. Generally, pedestrian and bicycle traffic should be privileged over cars. There are increasing numbers of innovative ways to accomplish this, and I hope the City of New Castle will seek them out. There are also well-established ways (e.g., metered parking, residential parking permits or seasonal residential parking permits, and tickets for parking and traffic infractions) which the City has not yet utilized and should.
- 10. Status on building streets/roads for vacant lots off Buttonwood Avenue and New Castle Avenue.
- 11. I am adamantly opposed to a 68-car parking lot at the end of Chestnut Street/The Strand. The destruction and paving of this green space are a detriment to wildlife, residents, and visitors alike who seek peace and quiet in the greenspace this area provides. Not to mention the paving of an historic area, negating the preservation, celebration, and studying of this town's history!
- 12. Paul Moser suggested reaching out to Mike DuRoss to ask if he would be willing to do a quick (travel demand) analysis of the impact of the proposed Washington Street Sweep and Dutch Left intersection redesigns in New Castle. Do you have any thoughts, pro or con, on that?

I cc'd Scott Hoffman above because of the Delaware Bicycle Council's grant for South Street (Markell Trail extension). We are wondering whether the two 'gateway' intersection redesigns - if they actually happen - might suggest different approaches to South Street than we have all been talking about for the last 8 years.

We are wondering whether the Washington Street Sweep and the Dutch Left, together, might actually mean that vehicle traffic volumes on South Street become low enough that there is no longer a need to tie ourselves into knots trying to squeeze in separate infrastructure in the right-of-way? And perhaps we could pursue a "bicycle boulevard" strategy instead?

The most extensive system of bicycle boulevards in the U.S. is in Portland. The city's website:

https://www.portlandoregon.gov/transportation/article/554110

identifies 1,000 cars per day as the upper limit for a bicycle boulevard. (Although the program manager has told me personally that < 500 cars a day is a better number.)

13. During the presentations, Southbridge Neighborhood plan included charging stations but City of New Castle didn't. Since New Castle is a tourist destination and a recreation area for walking and different activities, is there any plan to include charging stations around the City of New Castle?

Thank you.

14. I'm not even sure what this is all about, but I have some thoughts on the congestion in Historic New Castle. Forgive me if this is complete already and I am late to the party. However, I noticed and have been stuck in the back up of traffic going through Historic New Castle and around the Ferry Cut Off where both areas turn into one lane. I believe the only solution is an overpass to hook up from the Twin Spans Business Park area of Route 9. This overpass should include an exit to Route 9 after Dobbinsville and at least an exit to hook up to Route 13 above and after the Quigley Boulevard complexes. It should pass over the Historical New Castle area and avoid destroying any wetlands and migration areas as we already have enough destruction of these areas.

Any Route 9 exit via this overpass should exit onto a two-lane highway up to at least Hamburg Road and have a light at that intersection for those vehicles that want to get to Route 13 via that way. Hamburg Road needs to expand and have two turning lanes also at the end to enter onto Route 13. These are my thoughts of the congestion that has struck the Historical New Castle district.

Thank you for allowing input. Have a great day.

15. I thought there were some exciting ideas in the workshop.

Heather, do you know if a traffic analysis of making South Street one way for vehicle traffic between 6th and 7th Streets is on Century's radar? (That work is being funded separately by the Delaware Bicycle Council.) I had been hoping that might have gotten a mention (if not a poll question) in Monday's presentation.

16. The bone-headed idea of putting a 68-space parking lot on the last along the river is the most egregious example of their failures. If they had done any research at all, they would have found that City doesn't own the land. If they had talked to us, we could have told them that residents would be up in arms if they thought City Council supported such a proposal. This has caused us problems already.

Who told them we were desperate for a parking lot? We have repeatedly told them that we recently went through a very painful process getting that 40-car lot that the Trustees built for us, and that parking is a very sensitive issue.

17. After some discussion w/ Councilman Smith and the President of Council Michael Platt, who viewed the presentation you sent, we wanted to pass on some observations we have concerning the project.

In general, it was surprising that there was not more awareness of the issue concerning overall traffic volume and congestion. As I mentioned at the meeting, we had asked DelDOT years ago about widening Route 273 to help with traffic, we received a new sidewalk and were told not to expect the road to be widened, and since then the issue has only gotten worse.

As I also pointed out, I was surprised that they suggested a new configuration at Washington St. and 273, considering that what is there is a relatively new configuration. Not saying what they are suggesting may not result in a positive change, but you would think they would look at why the change was made to begin with and if that change has been a positive one.

In general, we're not sure that narrowing anything with a bike path is going to reduce traffic congestion, and on Delaware St. we are concerned that the recommendation they made could create a safety problem.

We think the reduction is speed limits is a good idea, but defer back to the congestion issues.

This is not meant to be critical of the efforts and ideas presented, but to voice the concerns we have that at the end of the day, we will have the same issues we have now regarding truck traffic and over all congestion; we are just moving the proverbial chairs on the deck of the Titanic, if you will.

It would be great if we could actually consider road widening as part of this project, a true solution at 273 and 13 – I know DelDOT has said that "something" is in the works, but what and when? A way to re-direct truck traffic to 13 and around the City, and a way to do all of this in the time frame DelDOT has indicated they are considering for addressing the Dobbinsville issues.

Thanks for your time and hard work, we truly appreciate it, and thanks for listening.

Appendix F: Public Workshop 3 Summary Report



City of New Castle Transportation Plan Update Study Community Workshop #3 And New Castle County Council Presentation November 9, 2021 Workshop Summary Report

The third Public Workshop for the City of New Castle Transportation Plan Update Study was held on November 9, 2021, prior to the City of New Castle Council Meeting. The Workshop included a live presentation and was followed by a Question-and-Answer period.

The following provides a summary of the Workshop and corresponding feedback.

The Workshop hosted over 70 attendees (43 attendees sign-in). The Workshop presentation included a review of the status of the study to date including public involvement opinion on Improvement Options Developed, as well as new surveys and poll questions regarding improvements and the study in general.

Specific topics covered during the Workshop encompassed Speed Limit Reductions, Strategic Projects, Improvements to Make Intuitive Travel Decisions (Cut-Through Traffic, Trucks, Bicycle Boulevards/Focus on Bicycle Movements, and Gateways), Bicycle/Pedestrian Improvements (Focused/Improved Bicycle Network and Primary & Recreational Bicycle Routes), and Parking/Roadway Modifications for Greater Circulation.

Sixteen polling questions were asked throughout the presentation to gather information and to encourage participation from the attendees. The following information was gathered through the polls:

City of New Castle Transportation Plan Update Study			
Community Workshop #3			
9-Nov-21			
Poll Results			
Workshop Summary Report			
On a scale from 1 to 5, how would you rate the draft concepts with 1 being most disliked and 5 being most favored?			
	Answer	Tally	Percentage
A Deduce Second Limite			
A. Reduce Speed Limits	1 (Strongly Oppose)	2	6%
	2	0	0%
	3	0	0%
	4	8	24%
	5 (Strongly Support)	23	70%
	Total:	33	100%
B. US 13 / SR 273 DelDOT Feasibility Study			
	1 (Strongly Oppose)	2	7%
	2	0	0%
	3	4	15%
	4	6	22%
	5 (Strongly Support)	15	56%
	Total:	27	100%
C. SR 141 / SR 273 - Concept 1 - Free Right Turn			
c. Sk 141 / Sk 275 - concept 1 - Hee kight fulli	1 (Strongly Oppose)	2	10%
	2	2	10%
	3	8	38%
	4	6	29%
	5 (Strongly Support)	3	14%
	Total:	21	100%
D. SR 141 / SR 273 - Concept 2 - Signal Controlled Right Turns			
Turns	1 (Strongly Oppose)	4	17%
	2	4	17%
	3	7	30%
	4	6	26%
	5 (Strongly Support)	2	9%
	Total:	23	100%

	Answer	Tally	Percentage
E. SR 141 / SR 273 - Concept 3 - Protected Intersection			
	1 (Strongly Oppose)	3	14%
	2	0	0%
	3	10	48%
	4	2	10%
	5 (Strongly Support)	6	29%
	Total:	21	100%
F. Ferry Cutoff / Delaware - Concept 1 - Existing Condition w/ Path			
	1 (Strongly Oppose)	0	0%
	2	7	37%
	3	6	32%
	4	4	21%
	5 (Strongly Support)	2	11%
	Total:	19	100%
G. Ferry Cutoff / Delaware - Concept 2 - Gateway			
	1 (Strongly Oppose)	0	0%
	2	0	0%
	3	6	26%
	4	7	30%
	5 (Strongly Support)	10	43%
	Total:	23	100%
H. Ferry Cutoff / E. 6th - Concept 1 - Separated Roads			
	1 (Strongly Oppose)	7	28%
	2	2	8%
	3	4	16%
	4	4	16%
	5 (Strongly Support)	8	32%
	Total:	25	100%
I. Ferry Cutoff / E. 6th - Concept 2 - Dutch Left			
	1 (Strongly Oppose)	2	7%
	2	2	7%
	3	10	33%
	4	2	7%
	5 (Strongly Support)	14	47%
	Total:	30	100%

	Answer	Tally	Percentage
J. W. 7th / Washington - Concept 1 - Signing			
	1 (Strongly Oppose)	3	12%
	2	10	40%
	3	6	24%
	4	4	16%
	5 (Strongly Support)	2	89
	Total:	25	1009
K. W. 7th / Washington - Concept 2 - Sweep			
	1 (Strongly Oppose)	0	0%
	2	3	12%
	3	2	8%
	4	8	31%
	5 (Strongly Support)	13	50%
	Total:	26	100%
L. Expand Nonmotorized Network			
	1 (Strongly Oppose)	0	0%
	2	2	79
	3	6	219
	4	8	299
	5 (Strongly Support)	12	439
	Total:	28	100%
M. Parking Expansion near 2nd and Chestnut			
	1 (Strongly Oppose)	14	45%
	2	4	13%
	3	4	139
	4	4	139
	5 (Strongly Support)	5	16%
	Total:	31	1009
N. Parking Expansion near 3rd and Chestnut			
	1 (Strongly Oppose)	6	19%
	2	4	139
	3	4	13%
	4	6	19%
	5 (Strongly Support)	12	38%
	Total:	32	100%

	Answer	Tally	Percentage
O Flood Mitigation			
O. Flood Mitigation			
	1 (Strongly Oppose)	0	0%
	2	0	0%
	3	4	12%
	4	4	12%
	5 (Strongly Support)	25	76%
	Total:	33	100%
P. Gateway Improvements			
	1 (Strongly Oppose)	0	0%
	2	2	6%
	3	0	0%
	4	10	32%
	5 (Strongly Support)	19	61%
	Total:	31	100%

Following the sixteen poll questions summarized above, attendees were asked to answer the following questions:

1. Which of the draft concepts do you like the best and why?

Number of times each option was selected:

- A. Reduce speed limits: 1
- B. US 13 / SR 273 DelDOT Feasibility Study: 1
- E. SR 141 / SR 273 Concept 3 Protected Intersection: 1
- F. Ferry Cutoff / Delaware Concept 1 Existing Condition w/ Path: 2
- G. Ferry Cutoff / Delaware Concept 2 Gateway: 3
- H. Ferry Cutoff / E. 6th Concept 1 Separated Roads: 2
- I. Ferry Cutoff / E. 6th Concept 2 Dutch Left: 4
- K. W. 7th / Washington Concept 2 Sweep: 3
- L. Expand Nonmotorized Network: 1
- N. Parking Expansion near 3rd and Chestnut: 1
- O. Flood Mitigation: 1
- P. Gateway Improvements: 1

Comments:

- Dutch left can still access other sides of roads
- K. Sweep help with flow of traffic
- Ferry Cutoff: on the fence about concepts presented. Most likely cheaper project will get done faster, can't be soon enough.
- Ferry Cutoff Gateway = beautiful.
- Ferry Cutoff and E. 6th Dutch Left Changing the bus route would be a great help as several cars have suffered damage from the bus dodging trucks, parked and moving.
- I and K are the most important ideas in this draft plan.

- Ferry Cutoff / E. 6th Street (Both concepts). One note either of these concepts can't be done unless the triangle area just north of this intersection is incorporated into it.
- Gateway more welcoming
- A reduce speed limits
- N the ideal place for parking and for an attractive entrance to New Castle.
- O Vital for the town. It has been woefully ignored for the past decades.
- Anything that stops traffic from coming through town unless they are trying to get into town.
- H. Separated Roads
- Nonmotorized network concept this concept combined with Battery Park concepts will make New Castle an ideal biking and walking community.
- E, I, and K are all Dutch designs, and their cities are the best designed in the world (in my opinion). Also E. Especially when I bike to the farmers market, that intersection is scary to get across with all the tuning lanes.
- B. needs to be completed during peak beach and Christmas.
- Ferry Cutoff concept 2: Gateway addition. I feel this will help with traffic and give people better direction of where they want to go.
- 2. Which of the draft concepts do you like the least and why?

Number of times each option was selected:

- B. US 13 / SR 273 DelDOT Feasibility Study: 2
- H. Ferry Cutoff / E. 6th Concept 1 Separated Roads: 1
- I. Ferry Cutoff / E. 6th Concept 2 Dutch Left: 2
- M. Parking Expansion near 2nd and Chestnut: 4
- N. Parking Expansion near 3rd and Chestnut: 2

Comments:

- H. Separated Road Don't like cutting areas off and forcing traffic further down
- B. DelDOT needs to do a count of cars going west on 273 when Route 9 marsh is flooded. The flooding isn't to be fixed until 2028.
- Parking at 2nd and Chestnut over historical site.
- US/13 Study is questionable a lot of traffic! And if this is corrected it will solve many of the issues
- The huge, proposed lot at 3rd and Chestnut too big, out of place just maximize existing lot.
- I haven't commented on a number because unfortunately I was unable to attend the earlier meetings and so am not sufficiently knowledgeable about them.
- I am opposed to M parking at 2nd and Chestnut.
- There is nothing to stop people from coming in from Wilmington Road
- All good ideas so don't have any least favorite.
- M, N might mean more people coming in and parking. What will this do?
- Dutch left at Ferry Cutoff/E. 6th does not address the traffic coming from opposite direction. Crossing over Ferry Cutoff is difficult due to oncoming traffic.

- I do not like the Dutch left. My concern is the heavy traffic going away from the city and people not able to turn. I also believe people will utilize the Chestnut St. and 3rd option.
- 3. What is the City of New Castle's single greatest transportation need?
 - Traffic flow through 273
 - Traffic congestion.
 - Less traffic on the narrow one-way streets and better speed enforcement.
 - The cut-through traffic is really destructive to the city's quality of life.
 - Cut through traffic. Truck traffic.
 - No one thing. Most proposed ideas are good.
 - A bypass road around New Castle. Some years ago, I served on the Planning Commission. At that time the city was told that because Council gave up a possible bypass road when River Bend was first proposed that we had lost any chance of a bypass road for the town. I hope that is not true.
 - Cut through for mc on E. 3rd Street
 - Reduce speeding.
 - Stop cut-through traffic in New Castle.
 - Traffic monitoring speed, etc.
 - Keeping cars and people separate.
 - Removing cut through traffic and large truck traffic. This is exacerbated by beach traffic and Amazon vehicles seasonally. Amazon gets worse during holidays, December-time.
 - 273 needs to be fixed.
- 4. Please provide us with any comments that will assist us in developing the City of New Castle Transportation Plan.
 - Consider realignment of Rt 9 from the intersection of Rt 9 and Heron Cir. North-North West over the railroad to connect with 273 near the little league fields. This would help divert traffic/trucks around as opposed to through town.
 - Consider extending the green light timing on 273 at Centerpoint Blvd.
 - Can't please everyone.
 - For the most part, the plans look good especially the 6th/Ferry Cutoff and the Del St. entrance.
 - You address reducing speed limit, how are you going to enforce it?
 - Look at changing direction of E. 3rd, once we do this it would stop people from coming in Wilmington Rd to cut through.
 - E. 6th St. is too narrow for tractor trailers. They drive in the middle of the road. 2 tractor trailers cannot pass going opposite directions with one coming to a complete stop. This is not efficient.
 - I think any residential roads that are 2-way should be converted into one-way streets with car-protected bike paths.

- Speed limit reductions are not effective without enforcement. Adding a parking lot near 3rd and Chestnut will increase traffic on 3rd Street.
- 273 is a nightmare between school traffic, beach traffic, holiday traffic and Amazon.
- I also think DelDOT's feasibility studies are not an accurate representation of traffic or city needs during peak seasons.
- 5. Which of the following bests describes you? (Check all that apply):

Number of times each option was selected:

- I LIVE in the City of New Castle: 17
- I WORK in the City of New Castle: 4
- I SHOP in the City of New Castle: 12
- I SPEND LEISURE TIME in the City of New Castle (visit parks, events, places of worship, etc.): 14

The presentation was recorded and the responses to the questions above can be found on that recording which is posted on the Dover/Kent County MPO Website at doverkentmpo.delaware.gov.

Following the Workshop, attendees were provided with contact information where they could reach out to the presenters, should they have any further comments or questions at a later date. The following messages were received:

1. My name is David Majewski, Jr. and I am the Fire Chief of Good Will Fire Company in the City of New Castle. I was in attendance yesterday evening for your presentation of WILMAPCO's Transportation Plan for New Castle. Overall, I think that the plan has a lot of merit. Parking, multiuse trails, and overall traffic flows are all topics that will help define the lifestyle of the residents in New Castle as well as what will make it a desirable destination for tourism and outdoor life. In full transparency, I have CC'ed Council President Michael Platt and Good Will Fire Company Captain Tim Moore, who was in attendance at last night's meeting as well, so that everyone is on the same page.

As I reviewed some of the proposed changes, I do have a few clarification questions as well as one major concern. The question I have is in reference to the "Washington Street Sweep: Concept 2." In this design, would traffic be able to turn left from Washington Street onto West Seventh Street and head towards South Street? If not, that is an area of concern to me. Reason being is that we have several members of our department whom live in the Washington Park Community, including myself. When those members are trying to get to the fire station, they will now be forced to travel down 9th Street and through Shawtown, an area that is much more residentially populated than West 7th Street. During this trip, they would encounter an additional stop sign as well as a narrow roadway on 9th Street between Gray Street and Young Street. Finally, they would be put on the wrong side of the intersection at 7th and South Streets where their passage onto South Street is not favored strictly due to the traffic flow. As a disclaimer, we are not a huge

"respond from home" department anymore. We rely heavily on in station staffing. However, we still do rely on "home response" for additional emergencies and additional apparatus responses.

My major concern, however, lies with the 6th Street and Ferry Cut Off intersection. I am happy to see that "Concept 1: Separated Roads" was not well received. In "Concept 2: Dutch Left", I foresee multiple issues with this. While I understand that the intention is to reduce the amount of "cut through" traffic, this design cripples both traffic flow of residents and emergency vehicles into and out of the City on this essentially arterial road. Additionally, this design, coupled with the 7th and Washington Street designs, significantly constrict any ability to allow vehicles to exit the City with any ease. Add on any of the numerous major events (Separation Day, Day in Old New Castle, Art on the Green, Christmas in New Castle, etc.) and getting traffic to exit the City, or "flush" from the event will take a long time. For the Fire Company, 6th Street is our primary and truly only means of egress from Downtown New Castle to the rest of our service area to the North. In 2020 alone, 34% of our fire call volume and almost all of our in district working fires occurred in the communities North of the City. Medical incidents in the service area North of the City accounted for 47%, or over 800 responses. Additionally, 6th Street through Ferry Cut Off is the route needed to respond to, at minimum, approximately 25% of our mutual aid incidents. In summary, the Fire Company uses this route to respond to over 1,000 incidents annually.

While I heard and understood your comment last night that the roadway would be built to accommodate large vehicles, does this include emergency vehicles acting in an emergency fashion? Would the turn and merge areas truly be designed to allow our engine that is 30' in length or our new tower ladder which is 42' in length to navigate through this traffic pattern? The hard left off of East 6th Street and immediate hard right hand turn around stopped or yielding traffic will be difficult for apparatus and cause increased wear and tear on the suspensions of the vehicles. I know a huge goal of this project is to make it difficult for truck traffic to enter into the city itself. With this idea in mind, it will also hamper the emergency vehicle access and egress, ultimately causing a delayed response to emergencies.

Moving forward, a recommendation I would like to see explored is recreating "Concept 2: Dutch Left" with a merge from Northbound East 6th Street onto Northbound Ferry Cut Off. This would still allow for egress to the North while still calming traffic and diverting around the City. I would like to continue this conversation as needed and would be available to talk on the phone, Zoom, or meet in person to further discuss and work together towards a plan in which everyone wins.

2. Thanks for leading a well-paced presentation last night at the Senior Center. Rather than fill out the survey at the meeting, I opted for this route. I figured that would be ok since everything folks wrote down last night has to be digitized, anyway. I went over all the material with my wife afterward. 5 = Strongly Agree, as noted.

A. Reduce speed limits: 5

Note: Speeders like to speed no matter how little room they have to do so. My wife and I live at 416 Delaware Street. Although there are stop signs at the intersections of 5th and 4th, many folks step on it when traversing this one-block stretch that runs past our home. A lot of people live here, including many renters, and more than a few little kids. I fear a future tragedy. It's an issue in many parts of the city, most notably on E. 6th Street. I'd be more than happy to drive 10 mph here and on other city streets where a slower speed might be posted in the future. We do strongly support the use of moveable traffic cameras to catch speeders - and not just on Delaware Street and E. 6th Street. The City of New Castle Police Department could probably fund another officer or two with the proceeds. There is no excuse for any non-emergency vehicle to drive fast in this town.

B. US 13/SR 273 Feasibility: 5

C. 5. With a caveat: This would work better with a widened 273.

D. 3. Would support keeping the No Turn on Red sign at eastbound 173 at the turn for Washington Street rather than turning the end of 14th St. into a cul-de-sac. The new business there would be negatively affected. Don't see where No Turn on Red is a necessity at the other points.

E. 1.

Note: We're lived here about 10 years and have not had issues with the SR 141/SR273 intersection. Doubling the number of lanes from Ferry Cut-Off to near US 13 as well as, of course, this intersection, would certainly ease the backup issue and make for smoother traffic flow. We think this intersection is the least of our Areas of Concern/traffic problems.

F. 2 The path would be nice but pedestrian crossing remains an issue. Since there's no crossing on the west side of the RR tracks, that's a long way around for folks who live on 8th and 9th Streets, etc., to safely get to the single crossing leading from Delaware Street to the shopping center. The current crossing light buttons aren't very user-friendly. They'd be quite difficult for someone in a wheelchair to access.

G. 4 This would somewhat alleviate the issue for the folks mentioned in F. The Wilmington Road Multi- Modal Concept: 5.

H. 1

I. 5

Note: This intersection is a fatal head-on or "T-bone" collision waiting to happen. We like the Dutch Left. I do agree with the lady's concern expressed last night regarding emergency vehicle access. That is critical. Semi-tractor trailers should not be allowed to even attempt this turn - there should be signs that tell truckers that vehicles over a certain number of axles are prohibited (and would get stuck, if that's the plan). The through lanes are also prime locations for speed cameras, because folks will learn to fly through there even faster once the turns for E.

6th and Chestnut are regulated. We are also STRONGLY in favor of blocking left-hand turns southbound on Rt. 9 onto Wilmington Road. It would be much less convenient for 3rd Street residents, but I think the trade-off for blocking most through traffic would be worth having to come into town from the north via the Dutch Left. They do not deserve this sort of through-traffic abuse. Less drastically, signage saying TRUCKS PROHIBITED - although this would probably be abused once a Dutch Left was built. If the turn was eliminated, the current Wilmington Road access to Rt. 9 northbound should be maintained.

J. 1 Signing is pretty much useless in the face of human nature.

K. 2 How are NC residents supposed to keep going south on Rt. 9? It doesn't look as though we'd be able to do so. If that's the case, it just increases congestion on 273.

L. 5

M. 5

N. 5

O. 5 The flooding problem south of Dobbinsville will obviously continue to worsen.

P. 5

New Castle's greatest transportation need? The need to widen 273/Frenchtown Road from Delaware Street to just west of Traders Lane. Traffic counts don't take surges from I-95 backups into account. Whether due to volume, weather or traffic mishaps, they are a GIVEN - a way of life. Yes, all secondary roads become clogged when drivers try to find shortcuts. New Castle, however, is uniquely situated to suffer the consequences more than most, sitting between the Wilmington Road access to the Delaware Memorial Bridge and the 273 access to 95. I agree with the gentleman who spoke on this last night. Put aside the lockstep adherence to numbers and requirements, as well as the expectation that some sort of improvements to the US 13/273 intersection will alleviate these backups. Hope is not a strategy. Common sense says that you can't squeeze traffic on four lanes (on 273 coming east from 13, and Wilmington Road coming south into New Castle) into two without expecting backups. It's ridiculous, really. This is an obvious and urgent need.

You didn't ask, but the No. 2 issue is fixing the Ferry Cut-Off/6th intersection and ending semitrailer truck through town. Appendix G: Fire and Police Chiefs Meeting Report





New Castle Transportation Study Fire and Police Chiefs Meeting November 18, 2021

Attendees

David Majewski Rick McCabe Bill Barthel Michael Platt Cooper Bowers Tigist Zegeye Heather Dunigan Ted Foglietta City of New Castle Fire Chief City of New Castle Police Chief City of New Castle City Administrator City of New Castle City Councilperson DelDOT Planning WILMAPCO Director WILMAPCO Senior Planner Century Engineering Project Manager

Items of Discussion

- The primary topic of discussion focused on the Dutch Left concept at the Ferry Cut Off Street/E.
 6th Street/Chestnut Street intersection.
- 2. Fire Chief Majewski had the following concerns at this intersection:
 - Turning radii on the internal "roundabout" of the Dutch Left looks tight. Concerned it will be difficult for fire trucks and other large emergency vehicles.
 - Will all accesses be operational under normal circumstances?
 - Fear having to wait in traffic at internal "roundabout."
 - Concerned about wear and tear of fire vehicles, access at intersection, and time delays.
 - Over 50% of EMS calls are north of that intersection about 3 -5 times per day (1,000 times per year).
 - Northbound egress is their primary issue Into town is a secondary issue.
 - Would like to see a simulation with fire trucks using Dutch left.
 - Would like adjustment with signal timing longer cycle and coordinated with Quigley Road signal.
- 3. Police Chief Rick McCabe had the following thoughts about the overall transportation plan:
 - Likes the Dutch Left concept.
 - Signal timing along entire corridor (SR 273, Delaware Street, Ferry Cut Off Street) needs to be adjusted.
 - Wants to ensure to keep southbound traffic moving (a no-stop condition) at the W. 7th Street/Washington Street intersection.
 - Volume is more of an issue on 3rd Street than speeding.
- 4. It was noted that these issues and concerns will be identified, and to the extent possible, addressed in the Final Recommendations Report.



5. One potential solution at the Dutch Left intersection that was brought forth by the study team was to provide service roads for emergency access through the infield of the intersection. however, the feasibility of this solution would need to be further evaluated as part of the design phase at this location.

Reported by:

Ted Foglietta, AICP Century Engineering Appendix H: Cost Estimates



Cost Estimate Summary

Contract No.

TBD

SR 273/SR 141 Concept 3 - Protected Intersection

	Funded Amount (CT	P):	Current Estimate	% Difference
Preliminary Engineering	· · ·	_	\$858,240.00	
Right-of-Way			\$125,000.00	
Total Construction			\$2,998,585.53	
Contractor Items*	\$1,827,933.80		* From TrnsPort	
Const. Contingency	\$182,793.38	@	10.00%	
CE**	\$546,483.45	@	29.90%	
Traffic	\$300,000.00			
Utilities	\$50,000.00			
Planting	\$15,000.00			
Env. Performance	\$0.00			
QA/QC for HMA	\$3,286.50			
Asphalt Cost Adj	\$73,088.40			
	¢2 000 595 52			
Total Need:	\$2,998,585.53			
** CE costs consist of the	following:			
Advertisement			\$1,000.00	
Construction ins	pection services		\$274,190.07	
Construction engineering services			\$182,793.38	
E&S Inspection services			\$73,500.00	
Pipe Video Inspection Services			\$0.00	
Materials and R	Materials and Research Insp. Services		\$15,000.00	
Misc. Constructi	on Items		\$0.00	

Primavera Estimate Data

Preliminary Engineering	\$858,240.00
Right-of-Way	\$125,000.00
Construction	\$1,842,933.80
Contingency	\$259,168.28
CE	\$546,483.45
Traffic	\$300,000.00
Utilities	\$50,000.00

	SR 273/SR 141 Concept 3 - Protecte	ed Intersectio	n		
	TBD				
	Conceptual Cost Estimate 4/1	3/2022			
ITEM #	TITLE	UNIT	ESTIMATE COST	UNIT QUANTITY	TOTAL
<u>201000</u>	CLEARING AND GRUBBING	LS	\$10,000.00	1.00	\$10,000.00
<u>202000</u>	EXCAVATION AND EMBANKMENT	CY	\$35.00	310.00	\$10,850.00
	BORROW, TYPE F	CY	\$20.00	4.00	\$80.00
<u>211001</u>	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	SY	\$38.00	475.00	\$18,050.00
<u>301001</u>	GABC	CY	\$50.00	329.00	\$16,450.00
<u>301002</u>	GABC, PATCHING	CY	\$75.00	14.00	\$1,050.00
<u>401005</u>	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	TON	\$150.00	9354.00	\$1,403,100.00
<u>401029</u>	SUPERPAVE TYPE C, PG 64-22, PATCHING	TON	\$175.00	7.00	\$1,225.00
<u>401030</u>	SUPERPAVE TYPE B, PG 64-22, PATCHING	TON	\$105.00	11.00	\$1,155.00
<u>401031</u>	SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	TON	\$100.00	18.00	\$1,800.00
701022	I.PCC CURB AND GUTTER, TYPE 3-6	LF	\$36.00	272.00	\$9,792.00
760010	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	SYIN	\$1.25	17837.00	\$22,296.25
762000	SAW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	884.00	\$2,210.00
762001	SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$5.00	168.00	\$840.00
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	2771.00	\$41,565.00
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$1.10	1064.00	\$1,170.40
817015	PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	EACH	\$475.00	10.00	\$4,750.00
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	6.00	\$900.00
908004	TOPSOIL, 6" DEPTH	SY	\$8.50	1430.00	\$12,155.00
908014	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	1430.00	\$1,430.00
	Subtotal				\$1,560,868.65
763000	Initial Expense (5%)	L.S.	\$78,043.43	1	\$78,043.4
763501	Construction Engineering (2.5%)	L.S.	\$39,021.72	1	\$39,021.7
	MOT	L.S.	\$150,000.00	1	\$150,000.0
	TOTAL BASE FOR PROJECT				\$1,827,933.80
	CONSTRUCTION CONTINGENCY	10%	\$182,793.38	1	\$182,793.3
	TRAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$300,000.00	1	\$300,000.0
	UTILITY	L.S.	\$50,000.00	1	\$50,000.0
	PLANTING	L.S.	\$15,000.00	1	\$15,000.0
	QA/QC for HMA	L.S.	\$3,286.50	1	\$3,286.5
	Asphalt Cost Adj	L.S.	\$73.088.40	1	\$73,088.4
		L.U.	\$10,000.40	· · · · · · · · · · · · · · · · · · ·	ψι 0,000.4
	TOTAL CONSTRUCTION COST				\$2,452,102.08
	PROJECT DEVELOPMENT	L.S.	\$367,820.00	1	\$367,820.00
	PRELIMINARY ENGINEERING (DESIGN)	L.S.	\$490,420.00	1	\$490,420.00
	CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$546,483.45	1	\$546,483.4
	ROW COSTS	L.S.	\$125,000.00	1	\$125,000.00
	TOTAL BASE CONSTRUCTION COST	<u>Lo.</u>	ψ120,000.00	<u> </u>	\$3,981,825.53
	TOTAL BASE CONSTRUCTION COST				\$3,301,025.

Cost Estimate Summary

Contract No.

TBD

SR 9 (Delaware Street/Ferry Cut Off Street) Intersection Concept 2 - Gateway Addition

	Funded Amount (CTF	P):	Current Estimate	% Difference
Preliminary Engineering		ŕ	\$312,040.00	
Right-of-Way			\$30,000.00	
Total Construction			\$1,068,462.76	
Contractor Items*	\$475,624.19		* From TrnsPort	
Const. Contingency	\$47,562.42	@	10.00%	
CE**	\$176,906.05	@	37.19%	
Traffic	\$300,000.00			
Utilities	\$50,000.00			
Planting	\$15,000.00			
Env. Performance	\$0.00			
QA/QC for HMA	\$242.90			
Asphalt Cost Adj	\$3,127.20			
Total Need:	\$1,068,462.76			
Total Need.	φ1,000,402.70			
** CE costs consist of the	following:			
Advertisement			\$1,000.00	
Construction ins	pection services		\$71,343.63	
Construction engineering services			\$47,562.42	
E&S Inspection services			\$42,000.00	
Pipe Video Inspection Services			\$0.00	
Materials and R	Materials and Research Insp. Services		\$15,000.00	
Misc. Constructi	ion Items		\$0.00	

Primavera Estimate Data

Preliminary Engineering	\$312,040.00
Right-of-Way	\$30,000.00
Construction	\$490,624.19
Contingency	\$50,932.52
CE	\$176,906.05
Traffic	\$300,000.00
Utilities	\$50,000.00

	TBD				
	Conceptual Cost Estimate 4/1	3/2022			
EM #	TITLE	UNIT	ESTIMATE COST	UNIT QUANTITY	TOTAL
01000	CLEARING AND GRUBBING	LS	\$10,000.00	1.00	\$10,000
02000	EXCAVATION AND EMBANKMENT	CY	\$35.00	916.00	\$32,060
09006	BORROW, TYPE F	CY	\$20.00	130.00	\$2,600
<u>11001</u>	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	SY	\$38.00	420.00	\$15,960
01001	GABC	CY	\$50.00	223.00	\$11,150
	GABC, PATCHING	CY	\$75.00	278.00	\$20,850
1005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	TON	\$150.00	103.00	\$15,450
<u>1029</u>	SUPERPAVE TYPE C, PG 64-22, PATCHING	TON	\$175.00	160.00	\$28,00
	SUPERPAVE TYPE B, PG 64-22, PATCHING	TON	\$105.00	163.00	\$17,11
<u>1031</u>	SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	TON	\$100.00	268.00	\$26,80
1033	REINFORCED CONCRETE PIPE, 18", CLASS IV	LF	\$85.00	32.00	\$2,72
2003	DRAINAGE INLET, 34" X 24"	EACH	\$4,000.00	2.00	\$8,00
<u>2010</u>	DRAINAGE INLET, 72" X 48"	EACH	\$7,000.00	1.00	\$7,00
2060	JUNCTION BOX, 48" X 30"	EACH	\$4,000.00	2.00	\$8,00
1022	I.PCC CURB AND GUTTER, TYPE 3-6	LF	\$36.00	1191.00	\$42,87
<u>5001</u>	PCC SIDEWALK, 4"	SF	\$12.00	336.00	\$4,03
<u>5002</u>	PCC SIDEWALK, 6"	SF	\$12.00	2006.00	\$24,07
<u>5010</u>	PEDESTRIAN CONNECTION, TYPE 5	SF	\$30.00	445.00	\$13,35
2000	SAW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	2460.00	\$6,15
2001	SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$5.00	193.00	\$96
7002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	1315.00	\$19,72
7013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$1.10	2702.00	\$2,97
7015	PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	EACH	\$475.00	9.00	\$4,27
5004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	8.00	\$1,20
8004	TOPSOIL, 6" DEPTH	SY	\$8.50	578.00	\$4,91
8014	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	578.00	\$57
N/A	SHARED-USE PATH AT RAILROAD CROSSING	LS		1.00	\$
N/A					\$
	Subtotal				\$330,81
			.		* 10 5
	Initial Expense (5%)	L.S.	\$16,540.66	1	\$16,54
63501	Construction Engineering (2.5%)	L.S.	\$8,270.33	1	\$8,27
	MOT	L.S.	\$120,000.00	1	\$120,00
	TOTAL BASE FOR PROJECT				\$475,62
	CONSTRUCTION CONTINGENCY	10%	\$47,562.42	1	\$47,56
	TRAFFIC (FROM TRAFFIC STATEMENT) UTILITY	L.S.	\$300,000.00	1	\$300,00
	PLANTING	L.S.	\$50,000.00	1	\$50,00
		L.S.	\$15,000.00	1	\$15,00
	QA/QC for HMA	L.S.	\$242.90	1	\$24
	Asphalt Cost Adj	L.S.	\$3,127.20	1	\$3,12
	TOTAL CONSTRUCTION COST				\$891,55
	PROJECT DEVELOPMENT	L.S.	\$133,730.00	1	\$133,73
	PRELIMINARY ENGINEERING (DESIGN)	L.S.	\$178,310.00	1	\$178,31
	CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$176,906.05	1	\$176,90
	ROW COSTS	L.S.	\$30,000.00	1	\$30,00
	TOTAL BASE CONSTRUCTION COST		+ + + + + + + + + + + + + + + + + + + +	· · · · · · · · · · · · · · · · · · ·	\$1,410,50

SR 9 (Delaware Street/Ferry Cut Off Street) Intersection Concept 2 - Gateway Addition

Cost Estimate Summary

Contract No.

TBD

SR 9 (Ferry Cut Off Street/6th Street)/Chestnut Street Intersection Concept 2 - Dutch Left

	Funded Amount (CTF	-):	Current Estimate	% Difference
Preliminary Engineering	, , , , , , , , , , , , , , , , , , ,		\$645,490.00	
Right-of-Way			\$250,000.00	
Total Construction			\$2,310,250.53	
Contractor Items*	\$1,568,045.72		* From TrnsPort	
Const. Contingency	\$156,804.57	@	10.00%	
CE**	\$466,011.43	@	29.72%	
Traffic	\$30,000.00			
Utilities	\$60,000.00			
Planting	\$20,000.00			
Env. Performance	\$0.00			
QA/QC for HMA	\$403.20			
Asphalt Cost Adj	\$8,985.60			
Total Need:	\$2,310,250.53			
	Ŧ))			
** CE costs consist of the	following:			
Advertisement			\$1,000.00	
Construction inspection services			\$235,206.86	
Construction engineering services			\$156,804.57	
E&S Inspection services			\$63,000.00	
Pipe Video Inspection Services			\$0.00	
Materials and Research Insp. Services		S	\$10,000.00	
Misc. Constructi	on Items		\$0.00	

Primavera Estimate Data

Preliminary Engineering	\$645,490.00
Right-of-Way	\$250,000.00
Construction	\$1,588,045.72
Contingency	\$166,193.37
CE	\$466,011.43
Traffic	\$30,000.00
Utilities	\$60,000.00

TBD						
	Conceptual Cost Estimate 4/1	8/2022				
TEM #	TITLE	UNIT	ESTIMATE COST	UNIT QUANTITY	TOTAL	
01000	CLEARING AND GRUBBING	LS	\$10,000.00	1.00	\$10,000	
02000	EXCAVATION AND EMBANKMENT	CY	\$35.00	6495.00	\$227,325	
	UNDERCUT EXCAVATION	CY	\$30.00	1309.00	\$39,270	
09001	BORROW, TYPE A	CY	\$25.00	1309.00	\$32,725	
	BORROW, TYPE B	CY	\$35.00	241.00	\$8,435	
	BORROW, TYPE F	CY	\$20.00	723.00	\$14,460	
	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	SY	\$38.00	427.00	\$16,22	
01001	GABC	CY	\$50.00	2401.00	\$120,05	
01005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	TON	\$150.00	1152.00	\$172,80	
01014	SUPERPAVE TYPE B, PG 64-22	TON	\$95.00	1567.00	\$148,86	
1021	SUPERPAVE TYPE BCBC, PG 64-22	TON	\$90.00	2577.00	\$231,93	
1033	REINFORCED CONCRETE PIPE, 18", CLASS IV	LF	\$85.00	32.00	\$2,72	
2003	DRAINAGE INLET, 34" X 24"	EACH	\$4,000.00	2.00	\$8,00	
2060	JUNCTION BOX, 48" X 30"	EACH	\$4,000.00	2.00	\$8,00	
1022	I.PCC CURB AND GUTTER, TYPE 3-6	LF	\$36.00	5623.00	\$202,42	
2000	SAW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	1815.00	\$4,53	
2001	SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$5.00	25.00	\$12	
7002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	1091.00	\$16,36	
7013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$1.10	7823.00	\$8,60	
7015	PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	EACH	\$475.00	9.00	\$4,27	
5004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	5.00	\$75	
8004	TOPSOIL, 6" DEPTH	SY	\$8.50	4339.00	\$36,88	
8014	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	4339.00	\$4,33	
N/A	STORMWATER PONDS	LS		2.00	\$	
	Subtotal				\$1,319,11	
763000	Initial Expense (5%)	L.S.	\$65,955.62	1	\$65,95	
	Construction Engineering (2.5%)	L.S.	\$32,977.81	1	\$32,9	
	MOT	L.S.	\$150,000.00	1	\$150,00	
	TOTAL BASE FOR PROJECT		\$100,000.00		\$1,568,04	
	CONSTRUCTION CONTINGENCY	10%	\$156,804.57	1	\$156,80	
	TRAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$30,000.00	1	\$30,00	
		L.S.	\$60,000.00	1	\$60,00	
	PLANTING	L.S.	\$20,000.00	1	\$20,00	
	QA/QC for HMA	L.S.	\$403.20	1	\$40	
	Asphalt Cost Adj	L.S.	\$8,985.60	1	\$8,98	
	TOTAL CONSTRUCTION COST				\$1,844,23	
	PROJECT DEVELOPMENT	L.S.	\$276,640.00	1	\$276,64	
	PRELIMINARY ENGINEERING (DESIGN)	L.S.	\$368,850.00	1	\$368,85	
	CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$466,011.43	1	\$466,0	
	ROW COSTS	L.S.	\$250,000.00	1	\$250,00	
	TOTAL BASE CONSTRUCTION COST		\$200,000.00	· · ·	\$3,205,74	

SR 9 (Ferry Cut Off Street/6th Street)/Chestnut Street Intersection Concept 2 - Dutch Left

Cost Estimate Summary

Contract No.

TBD

7th Street and Washington Street Concept 1 - Signing

	Funded Amount (CTI	P):	Current Estimate	% Difference
Preliminary Engineering			\$564.60	
Right-of-Way			\$0.00	
Total Construction			\$5,516.80	
Contractor Items*	\$3,764.00		* From TrnsPort	
Const. Contingency	\$376.40	@	10.00%	
CE**	\$1,376.40	@	36.57%	
Traffic	\$0.00			
Utilities	\$0.00			
Planting	\$0.00			
Env. Performance	\$0.00			
QA/QC for HMA	\$0.00			
Asphalt Cost Adj	\$0.00			
Total Need:	\$5,516.80	•		
** OF agets appoint of the	following			
** CE costs consist of the Advertisement	ioliowing.		¢1 000 00	
	nation convision		\$1,000.00 \$376.40	
Construction inspection services				
Construction engineering services			\$0.00 \$0.00	
E&S Inspection services			•	
Pipe Video Inspection Services			\$0.00 \$0.00	
Materials and Research Insp. Services Misc. Construction Items			\$0.00 \$0.00	
			\$0.00	

Primavera Estimate Data

Preliminary Engineering	\$564.60
Right-of-Way	\$0.00
Construction	\$5,516.80
Contingency	\$376.40
CE	\$1,376.40
Traffic	\$0.00
Utilities	\$0.00

	7th Street and Washington Street Concept 1 - Signing					
	TBD					
	Conceptual Cost Estimate 4/28/2	022				
ITEM #	TITLE	UNIT	ESTIMATE COST	UNIT QUANTITY	TOTAL	
	SUPPLY OF FLAT SHEET ALUMINUM SIGN PANEL, TYPE IV, RETROREFLECTIVE SHEETING	SF	\$20.00	18.00	\$360.00	
	GALVANIZED TELESCOPING STEEL SIGN POSTS, 12' X 2", COMPLETE W/ BASEPOSTS AND HARDWARE	EACH	\$200.00	3.00	\$600.00	
<u>819018</u>	INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	EACH	\$85.00	6.00	\$510.00	
	Subtotal				\$1,470.00	
762000	Initial Expense (5%)	L.S.	\$147.00	1	\$147.00	
	Construction Engineering (2.5%)	L.S.	\$147.00		\$147.00	
	MOT	L.S.	\$2.000.00	1	\$2,000.00	
	TOTAL BASE FOR PROJECT	2.0.	\$2,000.00		\$3,764.00	
		10%	\$376.40		\$376.40	
	TRAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$0.00	1	\$0.00	
		L.S.	\$0.00	1	\$0.00	
	PLANTING QA/QC for HMA	L.S.	\$0.00 \$0.00	1	\$0.00	
	Asphalt Cost Adj	L.S.	\$0.00	1	\$0.00	
	Asphalt Cost Adj	L.S.	\$0.00	1	\$0.00	
	TOTAL CONSTRUCTION COST				\$4,140.40	
	PROJECT DEVELOPMENT	L.S.	\$0.00	1	\$0.00	
	PRELIMINARY ENGINEERING (DESIGN)	L.S.	\$1,240.00	1	\$1,240.00	
	CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$1,376.40	1	\$1,376.40	
	ROW COSTS	L.S.	\$0.00	1	\$0.00	
	TOTAL BASE CONSTRUCTION COST				\$6,756.80	

Cost Estimate Summary

Contract No.

TBD

7th Street & Washington Street Concept 2 - Street Sweep

	Funded Amount (CTI	>):	Current Estimate	% Difference	
Preliminary Engineering	· · · · · · · · · · · · · · · · · · ·		\$204,410.00		
Right-of-Way			\$10,000.00		
Total Construction			\$599,437.81		
Contractor Items*	\$411,101.21		* From TrnsPort		
Const. Contingency	\$41,110.12	@	10.00%		
CE**	\$88,415.18	@	21.51%		
Traffic	\$20,000.00				
Utilities	\$30,000.00				
Planting	\$5,000.00				
Env. Performance	\$0.00				
QA/QC for HMA	\$307.30				
Asphalt Cost Adj	\$3,504.00				
Total Need:	\$599,437.81				
	· ,				
** CE costs consist of the	following:				
Advertisement			\$1,000.00		
Construction inspection services			\$41,110.12		
Construction eng	gineering services		\$20,555.06		
E&S Inspection services			\$15,750.00		
Pipe Video Inspection Services			\$0.00		
	esearch Insp. Services	\$10,000.00			
Misc. Construction Items			\$0.00		

Primavera Estimate Data

Preliminary Engineering	\$204,410.00
Right-of-Way	\$10,000.00
Construction	\$599,437.81
Contingency	\$44,921.42
CE	\$88,415.18
Traffic	\$20,000.00
Utilities	\$30,000.00

			-				
TBD							
	Conceptual Cost Estimate 5/1	0/2022					
ITEM #	TITLE	UNIT	ESTIMATE COST	UNIT QUANTITY	TOTAL		
	CLEARING AND GRUBBING	LS	\$10,000.00	1.00	\$10,000.00		
	EXCAVATION AND EMBANKMENT	CY	\$35.00	1318.00	\$46,130.00		
	BORROW, TYPE F	CY	\$20.00	279.00	\$5,580.00		
<u>211001</u>	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	SY	\$38.00	121.00	\$4,598.00		
<u>301001</u>	GABC	CY	\$50.00	228.00	\$11,400.00		
<u>301002</u>	GABC, PATCHING	CY	\$75.00	307.00	\$23,025.00		
<u>401005</u>	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	TON	\$150.00	90.00	\$13,500.00		
<u>401029</u>	SUPERPAVE TYPE C, PG 64-22, PATCHING	TON	\$175.00	157.00	\$27,475.00		
<u>401030</u>	SUPERPAVE TYPE B, PG 64-22, PATCHING	TON	\$105.00	239.00	\$25,095.00		
<u>401031</u>	SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	TON	\$100.00	392.00	\$39,200.00		
<u>601033</u>	REINFORCED CONCRETE PIPE, 18", CLASS IV	LF	\$85.00	32.00	\$2,720.00		
<u>602003</u>	DRAINAGE INLET, 34" X 24"	EACH	\$4,000.00	2.00	\$8,000.00		
602060	JUNCTION BOX, 48" X 30"	EACH	\$4,000.00	2.00	\$8,000.00		
701022	I.PCC CURB AND GUTTER, TYPE 3-6	LF	\$36.00	2329.00	\$83,844.00		
705002	PCC SIDEWALK, 6"	SF	\$12.00	964.00	\$11,568.00		
762000	SAW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	153.00	\$382.50		
762001	SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$5.00	10.00	\$50.00		
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	271.00	\$4,065.00		
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$1.10	1786.00	\$1,964.60		
817015	PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	EACH	\$475.00	8.00	\$3,800.00		
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	9.00	\$1,350.00		
908004	TOPSOIL, 6" DEPTH	SY	\$8.50	438.00	\$3,723.00		
908014	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	438.00	\$438.00		
	Subtotal	0.	¢1.00	100.00	\$335,908.10		
					<i>‡1111111111111</i>		
763000	Initial Expense (5%)	L.S.	\$16,795.41	1	\$16,795.41		
	Construction Engineering (2.5%)	L.S.	\$8,397.70	1	\$8,397.70		
703301	MOT	L.S.	\$50,000.00	1	\$50,000.00		
		L.3.	\$30,000.00				
	TOTAL BASE FOR PROJECT				\$411,101.21		
-	CONSTRUCTION CONTINGENCY	10%	\$41,110.12	1	\$41,110.12		
	TRAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$20,000.00	1	\$20,000.00		
	UTILITY	L.S.	\$30,000.00	1	\$30,000.00		
	PLANTING	L.S.	\$5,000.00	1	\$5,000.00		
	QA/QC for HMA	L.S.	\$307.30	1	\$307.30		
	Asphalt Cost Adj	L.S.	\$3,504.00	1	\$3,504.00		
					1 - 7		
	TOTAL CONSTRUCTION COST				\$511,022.63		
	PROJECT DEVELOPMENT	L.S.	\$76.650.00	1	\$76.650.00		
	PRELIMINARY ENGINEERING (DESIGN)	L.S.	\$127,760.00	1	\$127,760.00		
	CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$88,415.18	1	\$88,415.18		
	ROW COSTS	L.S.	\$10,000.00	1	\$10.000.00		
		L.J.	ψ10,000.00	'	ψ10,000.00		
Contract No.

TBD

East Basin Road Multimodal Concept

	Funded Amount (CTF	P):	Current Estimate	% Difference
Preliminary Engineering	· · · · ·		\$191,730.00	
Right-of-Way			\$40,000.00	
Total Construction			\$648,933.43	
Contractor Items*	\$317,610.50		* From TrnsPort	
Const. Contingency	\$31,761.05	@	10.00%	
CE**	\$101,152.63	@	31.85%	
Traffic	\$10,000.00			
Utilities	\$180,000.00		9 Poles @ \$20,000	
Planting	\$5,000.00			
Env. Performance	\$0.00			
QA/QC for HMA	\$183.05			
Asphalt Cost Adj	\$3,226.20			
Total Need:	\$648,933.43			
	ψ0+0,000.+0			
** CE costs consist of the	following:			
Advertisement			\$1,000.00	
Construction ins	pection services		\$47,641.58	
Construction en	gineering services		\$31,761.05	
E&S Inspection	services		\$15,750.00	
Pipe Video Insp	ection Services		\$0.00	
Materials and R	esearch Insp. Services	5	\$5,000.00	
Misc. Constructi	on Items		\$0.00	

Preliminary Engineering	\$191,730.00
Right-of-Way	\$40,000.00
Construction	\$322,610.50
Contingency	\$35,170.30
CE	\$101,152.63
Traffic	\$10,000.00
Utilities	\$180,000.00

East Basin Road Multimodal Concept

Conceptual Cost Estimate 4/13/2022						
	Conceptual Cost Estimate 4/1	3/2022				
ITEM #	TITLE	UNIT	ESTIMATE COST	UNIT QUANTITY	TOTAL	
201000	CLEARING AND GRUBBING	LS	\$10,000.00	1.00	\$10,000.0	
202000	EXCAVATION AND EMBANKMENT	CY	\$35.00	452.00	\$15,820.0	
20900 <u>6</u>	BORROW, TYPE F	CY	\$20.00	2.00	\$40.0	
<u>211001</u>	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	SY	\$38.00	1047.00	\$39,786.	
<u>301001</u>	GABC	CY	\$50.00	449.00	\$22,450.	
301002	GABC, PATCHING	CY	\$75.00	113.00	\$8,475.	
101005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	TON	\$150.00	296.00	\$44,400.	
01029	SUPERPAVE TYPE C, PG 64-22, PATCHING	TON	\$175.00	66.00	\$11,550.	
<u>401030</u>	SUPERPAVE TYPE B, PG 64-22, PATCHING	TON	\$105.00	61.00	\$6,405.	
<u> 101031</u>	SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	TON	\$100.00	100.00	\$10,000.	
701022	I.PCC CURB AND GUTTER, TYPE 3-6	LF	\$36.00	1578.00	\$56,808.	
762000	SAW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	3592.00	\$8,980.	
762001	SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$5.00	66.00	\$330.	
317015	PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	EACH	\$475.00	10.00	\$4,750.	
005004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	6.00	\$900.	
008004	TOPSOIL, 6" DEPTH	SY	\$8.50	868.00	\$7,378.	
908014	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	868.00	\$868.	
	Subtotal				\$248,940.	
763000	Initial Expense (5%)	L.S.	\$12,447.00	1	\$12,447	
	Construction Engineering (2.5%)	L.S.	\$6,223.50	1	\$6,223	
	MOT	L.S.	\$50,000.00	1	\$50.000	
	TOTAL BASE FOR PROJECT		\$00,000.00		\$317,610.	
					<i>Q</i> (17,010.	
	CONSTRUCTION CONTINGENCY	10%	\$31,761.05	1	\$31,761	
	TRAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$10,000.00	1	\$10,000	
		L.S.	\$180,000.00	1	\$180,000	
	PLANTING	L.S.	\$5,000.00	1	\$5,000	
	QA/QC for HMA	L.S.	\$183.05	1	\$183	
	Asphalt Cost Adj	L.S.	\$3,226.20	1	\$3,226	
	TOTAL CONSTRUCTION COST				\$547,780.	
	PROJECT DEVELOPMENT	L.S.	\$82,170.00	1	\$82.170.	
	PRELIMINARY ENGINEERING (DESIGN)	L.S.	\$109,560.00	1	\$109,560.	
	CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$101,152.63	1	\$103,500.	
	ROW COSTS	L.S.	\$40,000.00	1	\$40,000.	
	TOTAL BASE CONSTRUCTION COST	L.U.	φ+0,000.00		\$880,663.4	

Contract No.

TBD

SR 9 (Delaware Street/Ferry Cut Off Street) Multimodal Concept - Segment 1

	Funded Amount (CT	P):	Current Estimate	% Difference
Preliminary Engineering			\$161,870.00	
Right-of-Way			\$15,000.00	
Total Construction			\$583,697.57	
			· · · · · · · · · · · · · · · · · · ·	
Contractor Items*	\$397,846.35		* From TrnsPort	
Const. Contingency	\$39,784.64	@	10.00%	
CE**	\$121,211.59	@	30.47%	
Traffic	\$15,000.00			
Utilities	\$0.00			
Planting	\$5,000.00			
Env. Performance	\$0.00			
QA/QC for HMA	\$242.20			
Asphalt Cost Adj	\$4,612.80			
Total Need:	\$583,697.57	•		
	\$000,001101			
** CE costs consist of the	following:			
Advertisement	C C		\$1,000.00	
Construction ins	pection services		\$59,676.95	
	gineering services		\$39,784.64	
E&S Inspection	• •		\$15,750.00	
Pipe Video Insp			\$0.00	
	esearch Insp. Service	s	\$5,000.00	
Misc. Constructi	•	-	\$0.00	
			÷ 0100	

Preliminary Engineering	\$161,870.00
Right-of-Way	\$15,000.00
Construction	\$402,846.35
Contingency	\$44,639.64
CE	\$121,211.59
Traffic	\$15,000.00
Utilities	\$0.00

TBD Conceptual Cost Estimate 4/13/2022						
201000	CLEARING AND GRUBBING	LS	\$10,000.00	1.00	\$10,000.	
202000	EXCAVATION AND EMBANKMENT	CY	\$35.00	878.00	\$30,730.	
<u>209006</u>	BORROW, TYPE F	CY	\$20.00	5.00	\$100.	
<u>211001</u>	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	SY	\$38.00	771.00	\$29,298.	
<u>301001</u>	GABC	CY	\$50.00	585.00	\$29,250.	
301002	GABC, PATCHING	CY	\$75.00	214.00	\$16,050.	
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	TON	\$150.00	398.00	\$59,700.	
4010 <u>29</u>	SUPERPAVE TYPE C, PG 64-22, PATCHING	TON	\$175.00	146.00	\$25,550.	
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	TON	\$105.00	56.00	\$5,880.	
401031	SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	TON	\$100.00	92.00	\$9,200.	
701022	I.PCC CURB AND GUTTER, TYPE 3-6	LF	\$36.00	1440.00	\$51,840.	
705002	PCC SIDEWALK, 6"	SF	\$12.00	382.00	\$4,584.	
762000	SAW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	3926.00	\$9,815.	
762001	SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$5.00	108.00	\$540.	
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	1140.00	\$17,100.	
817015	PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	EACH	\$475.00	14.00	\$6,650.	
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	9.00	\$1,350.	
908004	TOPSOIL, 6" DEPTH	SY	\$8.50	1678.00	\$14,263.	
908014	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	1678.00	\$1,678.	
	Subtotal				\$323,578.	
	Initial Expense (5%)	L.S.	\$16,178.90	1	\$16,178	
763501	Construction Engineering (2.5%)	L.S.	\$8,089.45	1	\$8,089	
	МОТ	L.S.	\$50,000.00	1	\$50,000	
	TOTAL BASE FOR PROJECT				\$397,846.	
	CONSTRUCTION CONTINGENCY	10%	\$39,784.64	1	\$39,784	
	TRAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$15,000.00	1	\$15,000	
		L.S.	\$0.00	1	\$0 \$0	
	PLANTING	L.S.	\$5,000.00	1	\$5,000	
	QA/QC for HMA	L.S.	\$242.20	1	\$242	
	Asphalt Cost Adj	L.S.	\$4,612.80	1	\$4,612	
	TOTAL CONSTRUCTION COST				\$462,485	
	PROJECT DEVELOPMENT	L.S.	\$69,370.00	1	\$69,370	
	PRELIMINARY ENGINEERING (DESIGN)	L.S.	\$92,500.00	1	\$92,500	
		L.S. L.S.				
	CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)		\$121,211.59	1	\$121,211	
	ROW COSTS TOTAL BASE CONSTRUCTION COST	L.S.	\$15,000.00	1	\$15,000 \$760,567.	

SR 9 (Delaware Street/Ferry Cut Off Street) Multimodal Concept - Segment 1

Contract No.

TBD

SR 9 (Delaware Street/Ferry Cut Off Street) Multimodal Concept - Segments 2 & 3

Funded Amount (CT	<u>-</u>	Current Estimate	% Difference
	<u> </u>		
		\$426,078.09	
_			
\$256,692.51		* From TrnsPort	
\$25,669.25	@	10.00%	
\$85,923.13	@	33.47%	
\$15,000.00			
\$30,000.00			
\$10,000.00			
\$0.00			
\$2,623.80			
\$426.078.00			
ψ+20,070.03			
following:			
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	\$256,692.51 \$25,669.25 \$85,923.13 \$15,000.00 \$30,000.00 \$10,000.00	\$25,669.25 @ \$85,923.13 @ \$15,000.00 \$30,000.00 \$10,000 \$10,0000 \$10,000 \$10,00	\$119,050.00 \$150,000.00 \$426,078.09 \$256,692.51 * From TrnsPort \$25,669.25 10.00% \$85,923.13 33.47% \$15,000.00 33,000.00 \$30,000.00 \$10,000.00 \$10,000.00 \$0.00 \$169.40 \$2,623.80 \$426,078.09 \$1,000.00 \$426,078.09 \$1,000.00 \$169.40 \$2,623.80 \$25,669.25 \$15,000.00 \$15,000.00 \$169.40 \$2,623.80 \$15,000.00 \$169.40 \$2,623.80 \$169.40 \$2,623.80 \$25,669.25 \$1,000.00 \$2,623.80 \$1,000.00 \$2,623.80 \$1,000.00 \$2,623.80 \$1,000.00 \$2,623.80 \$1,000.00 \$169.40 \$2,623.80 \$25,669.25 \$1,000.00 \$25,669.25 \$15,750.00 ection Services \$0.00 esearch Insp. Services \$5,000.00

Preliminary Engineering	\$119,050.00
Right-of-Way	\$150,000.00
Construction	\$426,078.09
Contingency	\$28,462.45
CE	\$85,923.13
Traffic	\$15,000.00
Utilities	\$30,000.00

TBD							
Conceptual Cost Estimate 4/13/2022							
TEM #	TITLE	UNIT	ESTIMATE COST	UNIT QUANTITY	TOTAL		
201000	CLEARING AND GRUBBING	LS	\$10,000.00	1.00	\$10,000		
202000	EXCAVATION AND EMBANKMENT	CY	\$35.00	610.00	\$21,350		
<u>301001</u>	GABC	CY	\$50.00	274.00	\$13,700		
801002	GABC, PATCHING	CY	\$75.00	150.00	\$11,250		
01005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	TON	\$150.00	179.00	\$26,850		
01029	SUPERPAVE TYPE C, PG 64-22, PATCHING	TON	\$175.00	88.00	\$15,400		
01030	SUPERPAVE TYPE B, PG 64-22, PATCHING	TON	\$105.00	82.00	\$8,610		
01031	SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	TON	\$100.00	135.00	\$13,500		
02004	DRAINAGE INLET, 48" X 30"	EACH	\$4,500.00	1.00	\$4,500		
01022	I.PCC CURB AND GUTTER, TYPE 3-6	LF	\$36.00	1007.00	\$36,252		
<u>′62000</u>	SAW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	2397.00	\$5,992		
17002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	537.00	\$8,055		
17013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$1.10	1321.00	\$1,453		
17015	PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	EACH	\$475.00	11.00	\$5,225		
05004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	1.00	\$150		
08004	TOPSOIL, 6" DEPTH	SY	\$8.50	1051.00	\$8,933		
08014	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	1051.00	\$1,051		
	Subtotal				\$192,272		
763000	Initial Expense (5%)	L.S.	\$9,613.61	1	\$9,61		
	Construction Engineering (2.5%)	L.S.	\$4,806.80	1	\$4,80		
	MOT	L.S.	\$50,000.00	1	\$50,00		
	TOTAL BASE FOR PROJECT		\$00,000.00		\$256,692		
		10%	\$25,669.25	1	\$25,66		
	TRAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$15,000.00	1	\$15,00		
	UTILITY	L.S.	\$30,000.00	1	\$30,00		
	PLANTING	L.S.	\$10,000.00	1	\$10,00		
	QA/QC for HMA	L.S.	\$169.40	1	\$16		
	Asphalt Cost Adj	L.S.	\$2,623.80	1	\$2,62		
	TOTAL CONSTRUCTION COST				\$340,154		
	PROJECT DEVELOPMENT	L.S.	\$51,020.00	1	\$51,020		
	PRELIMINARY ENGINEERING (DESIGN)	L.S.	\$68,030.00	1	\$68,030		
	CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$85,923.13	1	\$85,92		
	ROW COSTS	L.S.	\$150,000.00	1	\$150,000		

SR 9 (Delaware Street/Ferry Cut Off Street) Multimodal Concept - Segments 2 & 3

Contract No.

TBD

SR 9 (Delaware Street/Ferry Cut Off Street) Multimodal Concept - Segment 4

	Funded Amount (CTF	⊃)∙	Current Estimate	% Difference
Preliminary Engineering			\$129,750.00	
Right-of-Way			\$90,000.00	
Total Construction			\$469,206.66	
Contractor Items*	\$307,000.90		* From TrnsPort	
Const. Contingency	\$30,700.09	@	10.00%	
CE**	\$98,500.22	@	32.08%	
Traffic	\$15,000.00			
Utilities	\$10,000.00			
Planting	\$5,000.00			
Env. Performance	\$0.00			
QA/QC for HMA	\$162.05			
Asphalt Cost Adj	\$2,843.40			
T (1 N) - 1	<u> </u>			
Total Need:	\$469,206.66			
** CE costs consist of the	followina:			
Advertisement			\$1,000.00	
Construction ins	pection services		\$46,050.13	
	gineering services		\$30,700.09	
E&S Inspection			\$15,750.00	
Pipe Video Insp			\$0.00	
	esearch Insp. Services	5	\$5,000.00	
Misc. Constructi	•		\$0.00	

Preliminary Engineering	\$129,750.00
Right-of-Way	\$90,000.00
Construction	\$312,000.90
Contingency	\$33,705.54
CE	\$98,500.22
Traffic	\$15,000.00
Utilities	\$10,000.00

TBD Conceptual Cost Estimate 4/20/2022						
201000	CLEARING AND GRUBBING	LS	\$10,000.00	1.00	\$10,000	
202000	EXCAVATION AND EMBANKMENT	CY	\$35.00	374.00	\$13,090	
209006	BORROW, TYPE F	CY	\$20.00	2.00	\$40	
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	SY	\$38.00	918.00	\$34,884	
<u>801001</u>	GABC	CY	\$50.00	401.00	\$20,050	
301002	GABC, PATCHING	CY	\$75.00	102.00	\$7,650	
01005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	TON	\$150.00	258.00	\$38,700	
10102 <u>9</u>	SUPERPAVE TYPE C, PG 64-22, PATCHING	TON	\$175.00	60.00	\$10,500	
1010 <u>30</u>	SUPERPAVE TYPE B, PG 64-22, PATCHING	TON	\$105.00	55.00	\$5,775	
01031	SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	TON	\$100.00	90.00	\$9,000	
701022	I.PCC CURB AND GUTTER, TYPE 3-6	LF	\$36.00	1431.00	\$51,516	
705002	PCC SIDEWALK, 6"	SF	\$12.00	377.00	\$4,524	
762000	SAW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	1786.00	\$4,465	
762001	SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$5.00	1477.00	\$7,385	
317002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	607.00	\$9,105	
317013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$1.10	1601.00	\$1.761	
	PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	EACH	\$475.00	8.00	\$3,800	
05004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	12.00	\$1,800	
08004	TOPSOIL, 6" DEPTH	SY	\$8.50	529.00	\$4,496	
	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	529.00	\$529	
	Subtotal		¢ 1.00	020.00	\$239,070	
763000	Initial Expense (5%)	L.S.	\$11,953.53	1	\$11,95	
	Construction Engineering (2.5%)	L.S.	\$5,976.77	1	\$5,97	
	MOT	L.S.	\$50,000.00	1	\$50,00	
	TOTAL BASE FOR PROJECT		+++++++++++++++++++++++++++++++++++++++	· · · · ·	\$307.000	
	CONSTRUCTION CONTINGENCY	10%	\$30,700.09	1	\$30,70	
	TRAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$15,000.00	1	\$15,00	
		L.S.	\$10.000.00	1	\$10,00	
	PLANTING	L.S.	\$5.000.00	1	\$5,00	
	QA/QC for HMA	L.S.	\$162.05	1	\$16	
	Asphalt Cost Adj	L.S.	\$2,843.40	1	\$2,84	
		L.O.	ψ2,0+3.40	· · ·	ψ2,04	
	TOTAL CONSTRUCTION COST				\$370,706	
	PROJECT DEVELOPMENT	L.S.	\$55,610.00	1	\$55,610	
	PRELIMINARY ENGINEERING (DESIGN)	L.S.	\$74,140.00	1	\$74,140	
	CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$98,500.22	1	\$98,50	
	ROW COSTS	L.S.	\$90,000.00	1	\$90.000	
	TOTAL BASE CONSTRUCTION COST	<u> </u>	ψ30,000.00		\$688,956	

SR 9 (Delaware Street/Ferry Cut Off Street) Multimodal Concept - Segment 4

Contract No.

TBD

Wilmington Road Multimodal Concept - Segment 1

	Funded Amount (CTF	P):	Current Estimate	% Difference
Preliminary Engineering			\$172,170.00	
Right-of-Way			\$40,000.00	
Total Construction			\$632,992.12	
Contractor Items*	\$414,327.98		* From TrnsPort	
Const. Contingency	\$41,432.80	@	10.00%	
CE**	\$141,082.00	@	34.05%	
Traffic	\$15,000.00			
Utilities	\$10,000.00			
Planting	\$5,000.00			
Env. Performance	\$0.00			
QA/QC for HMA	\$283.15			
Asphalt Cost Adj	\$5,866.20			
Total Need:	\$632,992.12			
** CE costs consist of the	following:			
Advertisement	Ū		\$1,000.00	
Construction ins	pection services		\$62,149.20	
	gineering services		\$41,432.80	
E&S Inspection	• •		\$31,500.00	
Pipe Video Insp			\$0.00	
	esearch Insp. Services	;	\$5,000.00	
Misc. Constructi	•		\$0.00	

Preliminary Engineering	\$172,170.00
Right-of-Way	\$40,000.00
Construction	\$419,327.98
Contingency	\$47,582.15
CE	\$141,082.00
Traffic	\$15,000.00
Utilities	\$10,000.00

	TBD					
Conceptual Cost Estimate 4/21/2022						
ITEM #	TITLE	UNIT	ESTIMATE COST	UNIT QUANTITY	TOTAL	
<u>201000</u>	CLEARING AND GRUBBING	LS	\$10,000.00	1.00	\$10,000.00	
202000	EXCAVATION AND EMBANKMENT	CY	\$35.00	830.00	\$29,050.00	
202003	UNDERCUT EXCAVATION	CY	\$30.00	543.00	\$16,290.00	
<u>209002</u>	BORROW, TYPE B	CY	\$35.00	543.00	\$19,005.00	
<u>209006</u>	BORROW, TYPE F	CY	\$20.00	50.00	\$1,000.00	
<u>211001</u>	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	SY	\$38.00	178.00	\$6,764.00	
<u>301001</u>	GABC	CY	\$50.00	536.00	\$26,800.00	
<u>301002</u>	GABC, PATCHING	CY	\$75.00	66.00	\$4,950.00	
<u>401005</u>	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	TON	\$150.00	684.00	\$102,600.00	
<u>401029</u>	SUPERPAVE TYPE C, PG 64-22, PATCHING	TON	\$175.00	41.00	\$7,175.00	
<u>401030</u>	SUPERPAVE TYPE B, PG 64-22, PATCHING	TON	\$105.00	32.00	\$3,360.00	
<u>401031</u>	SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	TON	\$100.00	52.00	\$5,200.00	
<u>701022</u>	I.PCC CURB AND GUTTER, TYPE 3-6	LF	\$36.00	1877.00	\$67,572.00	
<u>760010</u>	PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	SYIN	\$1.25	5835.00	\$7,293.75	
<u>762000</u>	SAW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	1944.00	\$4,860.00	
<u>762001</u>	SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$5.00	2.00	\$10.00	
<u>817002</u>	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	343.00	\$5,145.00	
<u>817013</u>	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$1.10	6020.00	\$6,622.00	
<u>817015</u>	PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	EACH	\$475.00	12.00	\$5,700.00	
<u>905004</u>	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	3.00	\$450.00	
<u>908004</u>	TOPSOIL, 6" DEPTH	SY	\$8.50	954.00	\$8,109.00	
<u>908014</u>	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	954.00	\$954.00	
	Subtotal				\$338,909.75	
700000	1-22-1 Family (F0/)		* 40.045.40			
	Initial Expense (5%)	L.S.	\$16,945.49	1	\$16,945.49 \$8,472.74	
	Construction Engineering (2.5%)	L.S.	\$8,472.74	1		
	MOT	L.S.	\$50,000.00	1	\$50,000.00	
	TOTAL BASE FOR PROJECT				\$414,327.98	
	CONSTRUCTION CONTINGENCY	10%	\$41,432.80	1	\$41,432.80	
	TRAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$15,000.00	1	\$15,000.00	
	UTILITY	L.S.	\$10,000.00	1	\$10,000.00	
	PLANTING	L.S.	\$5,000.00	1	\$5,000.0	
	QA/QC for HMA	L.S.	\$283.15	1	\$283.1	
	Asphalt Cost Adj	L.S.	\$5,866.20	1	\$5,866.20	
	· ·					
	TOTAL CONSTRUCTION COST				\$491,910.13	

\$73,790.00

\$98,380.00

\$141,082.00

\$40,000.00

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L.S.

L.S. L.S. L.S.

\$73,790.00

\$98,380.00 \$141,082.00

\$40,000.00

\$845,162.12

PROJECT DEVELOPMENT

TOTAL BASE CONSTRUCTION COST

ROW COSTS

PRELIMINARY ENGINEERING (DESIGN) CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)

Contract No.

TBD

Wilmington Road Multimodal Concept - Segment 2

[Funded Amount (CT	P):	Current Estimate	% Difference
Preliminary Engineering	· · · · · · · · · · · · · · · · · · ·		\$295,050.00	
Right-of-Way			\$100,000.00	
Total Construction			\$1,010,037.71	
Contractor Items*	\$521,101.67		* From TrnsPort	
Const. Contingency	\$52,110.17	@	10.00%	
CE**	\$167,025.42	@	32.05%	
Traffic	\$250,000.00			
Utilities	\$120.00			
Planting	\$15,000.00			
Env. Performance	\$0.00			
QA/QC for HMA	\$253.05			
Asphalt Cost Adj	\$4,427.40			
Total Need:	\$1,010,037.71			
** CE costs consist of the	following:			
Advertisement	lollowing.		\$1,000.00	
	pection services		\$78,165.25	
			\$52,110.17	
	gineering services		\$15,750.00	
E&S Inspection Pipe Video Insp			\$15,750.00	
		<u>_</u>	\$0.00	
Misc. Constructi	esearch Insp. Service	5		
			\$0.00	

\$295,050.00
\$100,000.00
\$536,101.67
\$56,790.62
\$167,025.42
\$250,000.00
\$120.00

	Wilmington Road Multimodal Concept - Segment 2						
	TBD						
	Conceptual Cost Estimate 4/25/20	22					
ITEM #	TITLE	UNIT	ESTIMATE COST	UNIT QUANTITY	TOTAL		
	CLEARING AND GRUBBING	LS	\$10,000.00	1.00	\$10,000.00		
	EXCAVATION AND EMBANKMENT	CY	\$35.00	845.00	\$29,575.00		
	BORROW, TYPE F	CY	\$20.00	37.00	\$740.00		
	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	SY	\$38.00	1232.00	\$46,816.00		
	GABC	CY	\$50.00	681.00	\$34,050.00		
	GABC, PATCHING	CY	\$75.00	135.00	\$10,125.00		
	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	TON	\$150.00	419.00	\$62,850.00		
	SUPERPAVE TYPE C, PG 64-22, PATCHING	TON	\$175.00	75.00	\$13,125.00		
	SUPERPAVE TYPE B, PG 64-22, PATCHING	TON	\$105.00	87.00	\$9,135.00		
	SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	TON	\$100.00	142.00	\$14,200.00		
	I.PCC CURB AND GUTTER, TYPE 3-6	LF	\$36.00	2434.00	\$87,624.00		
	PCC SIDEWALK, 6"	SF	\$12.00	2015.00	\$24,180.00		
	PEDESTRIAN CONNECTION, TYPE 5	SF	\$30.00	291.00	\$8,730.00		
	SAW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	3655.00	\$9,137.50		
	SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$5.00	1807.00	\$9,035.00		
	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	1532.00	\$22,980.00		
	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$1.10	698.00	\$767.80		
	PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	EACH	\$475.00	16.00	\$7,600.00		
	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	9.00	\$1,350.00		
	TOPSOIL, 6" DEPTH	SY	\$8.50	1364.00	\$11,594.00		
	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	1364.00	\$1,364.00		
<u>N/A</u>	SHARED-USE PATH AT RAILROAD CROSSING	LS		1.00	\$0.00		
	Subtotal				\$414,978.30		
700000			* 00 7 40 00		* 00 740 00		
	Initial Expense (5%)	L.S.	\$20,748.92	1	\$20,748.92		
	Construction Engineering (2.5%)	L.S.	\$10,374.46	1	\$10,374.46		
	MOT	L.S.	\$75,000.00	1	\$75,000.00		
	TOTAL BASE FOR PROJECT				\$521,101.67		
	CONSTRUCTION CONTINGENCY	10%	\$52,110.17	1	\$52,110.17		
	TRAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$250,000.00	1	\$250,000.00		
	UTILITY	L.S.	\$230,000.00	1	\$230,000.00		
	PLANTING	L.S.	\$15,000.00	1	\$15,000.00		
	QA/QC for HMA	L.S.	\$253.05	1	\$13,000.00		
	Asphalt Cost Adj	L.S.	\$4,427.40	1	\$4,427.40		
		<u> </u>	ψ 1 ,121. 1 0		ψτ,τ27.40		
	TOTAL CONSTRUCTION COST				\$843,012.29		
	PROJECT DEVELOPMENT	L.S.	\$126,450.00	1	\$126,450.00		
	PRELIMINARY ENGINEERING (DESIGN)	L.S.	\$168,600.00	1	\$168,600.00		
	CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$167,025.42	1	\$167,025.42		
	ROW COSTS	L.S.	\$100,000.00	1	\$100,000.00		
	TOTAL BASE CONSTRUCTION COST	· ·			\$1,405,087.71		

Contract No.

TBD

Wilmington Road Multimodal Concept - Segments 3, 4, & 5

	Funded Amount (CTI	<u>);</u> [Current Estimate	% Difference
Preliminary Engineering			\$467,670.00	
Right-of-Way			\$180,000.00	
Total Construction			\$1,681,532.09	
Contractor Items*	\$1,085,251.48		* From TrnsPort	
Const. Contingency	\$108,525.15	@	10.00%	
CE**	\$345,312.87	@	31.82%	
Traffic	\$50,000.00			
Utilities	\$50,000.00			
Planting	\$30,000.00			
Env. Performance	\$0.00			
QA/QC for HMA	\$670.60			
Asphalt Cost Adj	\$11,772.00			
Total Need:	\$1,681,532.09	:		
** CE costs consist of the	followina:			
Advertisement	5		\$1,000.00	
Construction ins	pection services		\$162,787.72	
	gineering services		\$108,525.15	
E&S Inspection	services		\$63,000.00	
Pipe Video Insp	ection Services		\$0.00	
Materials and R	esearch Insp. Services	S	\$10,000.00	
Misc. Constructi	ion Items		\$0.00	

Preliminary Engineering	\$467,670.00
Right-of-Way	\$180,000.00
Construction	\$1,115,251.48
Contingency	\$120,967.75
CE	\$345,312.87
Traffic	\$50,000.00
Utilities	\$50,000.00

	TBD	`			
	Conceptual Cost Estimate 4/2	7/2022			
ITEM #	TITLE	UNIT	ESTIMATE COST	UNIT QUANTITY	TOTAL
201000	CLEARING AND GRUBBING	LS	\$10,000.00	1.00	\$10,000.0
202000	EXCAVATION AND EMBANKMENT	CY	\$35.00	2463.00	\$86,205.0
209006	BORROW, TYPE F	CY	\$20.00	11.00	\$220.0
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	SY	\$38.00	1651.00	\$62,738.0
	GABC	CY	\$50.00	1566.00	\$78,300.0
	GABC, PATCHING	CY	\$75.00	503.00	\$37,725.0
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	TON	\$150.00	1007.00	\$151,050.0
	SUPERPAVE TYPE C, PG 64-22, PATCHING	TON	\$175.00	311.00	\$54,425.0
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	TON	\$105.00	226.00	\$23,730.0
	SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	TON	\$100.00	372.00	\$37,200.0
	I.PCC CURB AND GUTTER, TYPE 3-6	LF	\$36.00	6019.00	\$216,684.0
<u>705002</u>	PCC SIDEWALK, 6"	SF	\$12.00	493.00	\$5,916.0
	PEDESTRIAN CONNECTION, TYPE 5	SF	\$30.00	488.00	\$14,640.0
	SAW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	14407.00	\$36,017.
	SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$5.00	311.00	\$1,555.
	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	3615.00	\$54,225.
	PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	EACH	\$475.00	36.00	\$17,100.
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	25.00	\$3,750.
	TOPSOIL, 6" DEPTH	SY	\$8.50	2635.00	\$22,397.
908014	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	2635.00	\$2,635.
	Subtotal				\$916,513.
763000	Initial Expense (5%)	L.S.	\$45,825.65	1	\$45,825
	Construction Engineering (2.5%)	L.S.	\$22,912.83	1	\$22,912
	MOT	L.S.	\$100.000.00	1	\$100.000
	TOTAL BASE FOR PROJECT		÷		\$1,085,251.
	CONSTRUCTION CONTINGENCY	10%	\$108,525.15	1	\$108,525
	TRAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$50,000.00	1	\$50,000
	UTILITY	L.S.	\$50,000.00	1	\$50,000
	PLANTING	L.S.	\$30,000.00	1	\$30,000
	QA/QC for HMA	L.S.	\$670.60	1	\$670
	Asphalt Cost Adj	L.S.	\$11,772.00	1	\$11,772
	TOTAL CONSTRUCTION COST				\$1,336,219
	PROJECT DEVELOPMENT	L.S.	\$200,430.00	1	\$200,430
	PRELIMINARY ENGINEERING (DESIGN)	L.S.	\$267,240.00	1	\$267,240
	CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$345,312.87	1	\$345,312
		L.S.	\$180,000.00	· · · · · · · · · · · · · · · · · · ·	\$180,000

Contract No.

TBD

Washington Street Multi-Use Path Concept

	Funded Amount (CTI	-):	Current Estimate	% Difference
Preliminary Engineering			\$258,160.00	
Right-of-Way			\$20,000.00	
Total Construction			\$941,374.73	
Contractor Items*	\$583,188.84		* From TrnsPort	
Const. Contingency	\$58,318.88	@	10.00%	
CE**	\$203,797.21	@	34.95%	
Traffic	\$15,000.00			
Utilities	\$60,000.00			
Planting	\$15,000.00			
Env. Performance	\$0.00			
QA/QC for HMA	\$450.80			
Asphalt Cost Adj	\$5,619.00			
Total Need:	\$941,374.73			
** CE costs consist of the	following:			
Advertisement	ionowing.		\$1,000.00	
	spection services		\$87,478.33	
	gineering services		\$58,318.88	
E&S Inspection			\$42,000.00	
Pipe Video Insp			\$42,000.00 \$0.00	
	esearch Insp. Services	-	\$0.00	
Misc. Constructi	•	5	\$13,000.00	
			φ0.00	

Preliminary Engineering	\$258,160.00
Right-of-Way	\$20,000.00
Construction	\$598,188.84
Contingency	\$64,388.68
CE	\$203,797.21
Traffic	\$15,000.00
Utilities	\$60,000.00

Washington Street Multi-Use Path Concept

	Conceptual Cost Estimate 4/2	Conceptual Cost Estimate 4/29/2022						
ITEM #	TITLE	UNIT	ESTIMATE COST	UNIT QUANTITY	TOTAL			
201000	CLEARING AND GRUBBING	LS	\$10,000.00	1.00	\$10,000.0			
202000	EXCAVATION AND EMBANKMENT	CY	\$35.00	1570.00	\$54,950.0			
209006	BORROW, TYPE F	CY	\$20.00	186.00	\$3,720.0			
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	SY	\$38.00	878.00	\$33,364.0			
<u>301001</u>	GABC	CY	\$50.00	373.00	\$18,650.0			
301002	GABC, PATCHING	CY	\$75.00	406.00	\$30,450.0			
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	TON	\$150.00	245.00	\$36,750.			
<u>401029</u>	SUPERPAVE TYPE C, PG 64-22, PATCHING	TON	\$175.00	208.00	\$36,400.			
<u>401030</u>	SUPERPAVE TYPE B, PG 64-22, PATCHING	TON	\$105.00	316.00	\$33,180.			
<u>401031</u>	SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	TON	\$100.00	519.00	\$51,900.			
<u>501033</u>	REINFORCED CONCRETE PIPE, 18", CLASS IV	LF	\$85.00	128.00	\$10,880.			
<u> 602003</u>	DRAINAGE INLET, 34" X 24"	EACH	\$4,000.00	8.00	\$32,000.			
<u> 602060</u>	JUNCTION BOX, 48" X 30"	EACH	\$4,000.00	8.00	\$32,000.0			
701022	I.PCC CURB AND GUTTER, TYPE 3-6	LF	\$36.00	1329.00	\$47,844.			
762000	SAW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	4406.00	\$11,015.			
762001	SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$5.00	204.00	\$1,020.			
317002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	568.00	\$8,520.			
<u>317013</u>	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$1.10	1093.00	\$1,202.			
<u>317015</u>	PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	EACH	\$475.00	10.00	\$4,750.			
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	13.00	\$1,950.			
908004	TOPSOIL, 6" DEPTH	SY	\$8.50	1283.00	\$10,905.			
908014	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	1283.00	\$1,283.			
	Subtotal				\$472,733.			
	Initial Expense (5%)	L.S.	\$23,636.69	1	\$23,636			
763501	Construction Engineering (2.5%)	L.S.	\$11,818.35	1	\$11,818			
	МОТ	L.S.	\$75,000.00	1	\$75,000			
	TOTAL BASE FOR PROJECT				\$583,188.			
	CONSTRUCTION CONTINGENCY	10%	\$58,318.88	1	\$58,318			
	TRAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$15.000.00	1	\$15.000			
	UTILITY	L.S.	\$60,000.00	1	\$60,000			
	PLANTING	L.S.	\$15,000.00	1	\$15,000			
	QA/QC for HMA	L.S.	\$450.80	1	\$450			
	Asphalt Cost Adj	L.S.	\$5,619.00	1	\$5,619			
	TOTAL CONSTRUCTION COST				\$737,577.			
	PROJECT DEVELOPMENT	L.S.	\$110,640.00	1	\$110,640.			
	PRELIMINARY ENGINEERING (DESIGN)	L.S.	\$147,520.00	1	\$147,520.			
	CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$203,797.21	1	\$203,797			
	ROW COSTS	L.S.	\$20,000.00	1	\$20,000.			

Contract No.

TBD

Dobbinsville Multi-Use Path Concept

	Funded Amount (CTF	P):	Current Estimate	% Difference
Preliminary Engineering	· · · · ·		\$130,110.00	
Right-of-Way			\$135,000.00	
Total Construction			\$463,641.92	
Contractor Items*	\$280,561.16		* From TrnsPort	
Const. Contingency	\$28,056.12	@	10.00%	
CE**	\$91,890.29	@	32.75%	
Traffic	\$10,000.00			
Utilities	\$30,000.00			
Planting	\$20,000.00			
Env. Performance	\$0.00			
QA/QC for HMA	\$169.75			
Asphalt Cost Adj	\$2,964.60			
Total Need:	\$463,641.92			
** CE costs consist of the	following:			
Advertisement	lollowing.		\$1,000.00	
	pection services		\$42,084.17	
	gineering services		\$28,056.12	
E&S Inspection	• •		\$15,750.00	
Pipe Video Insp			\$0.00	
	esearch Insp. Services	2	\$5,000.00	
Misc. Constructi	•	,	\$0.00 \$0.00	
			ψ0.00	

Preliminary Engineering	\$130,110.00
Right-of-Way	\$135,000.00
Construction	\$300,561.16
Contingency	\$31,190.47
CE	\$91,890.29
Traffic	\$10,000.00
Utilities	\$30,000.00

Dobbinsville Multi-Use Path Concept

Conceptual Cost Estimate 5/2/2022						
ITEM #	TITLE		ESTIMATE COST	UNIT QUANTITY	TOTAL	
201000	CLEARING AND GRUBBING	LS	\$10,000.00	1.00	\$10,000.0	
202000	EXCAVATION AND EMBANKMENT	CY	\$35.00	719.00	\$25,165.0	
209006	BORROW, TYPE F	CY	\$20.00	8.00	\$160.0	
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	SY	\$38.00	126.00	\$4,788.0	
<u>301001</u>	GABC	CY	\$50.00	432.00	\$21,600.	
301002	GABC, PATCHING	CY	\$75.00	84.00	\$6,300.	
401005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	TON	\$150.00	285.00	\$42,750.	
401029	SUPERPAVE TYPE C, PG 64-22, PATCHING	TON	\$175.00	46.00	\$8,050.0	
401030	SUPERPAVE TYPE B, PG 64-22, PATCHING	TON	\$105.00	58.00	\$6,090.0	
<u>401031</u>	SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	TON	\$100.00	96.00	\$9,600.0	
701022	I.PCC CURB AND GUTTER, TYPE 3-6	LF	\$36.00	1509.00	\$54,324.0	
762000	SAW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	3498.00	\$8,745.0	
762001	SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$5.00	13.00	\$65.0	
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	221.00	\$3,315.0	
317013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$1.10	290.00	\$319.0	
317015	PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	EACH	\$475.00	12.00	\$5,700.	
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	5.00	\$750.0	
908004	TOPSOIL, 6" DEPTH	SY	\$8.50	711.00	\$6,043.	
908014	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	711.00	\$711.0	
	Subtotal				\$214,475.5	
763000	Initial Expense (5%)	L.S.	\$10,723.78	1	\$10,723	
763501	Construction Engineering (2.5%)	L.S.	\$5,361.89	1	\$5,361	
	МОТ	L.S.	\$50,000.00	1	\$50,000	
	TOTAL BASE FOR PROJECT				\$280,561.	
	CONSTRUCTION CONTINGENCY	10%	\$28,056.12	1	\$00.0F0	
		10%		1	\$28,056	
	TRAFFIC (FROM TRAFFIC STATEMENT) UTILITY	L.S.	\$10,000.00 \$30,000.00	1	\$10,000 \$30,000	
	PLANTING	L.S.	\$20,000.00	1	\$30,000	
	QA/QC for HMA	L.S.	\$20,000.00	1	\$20,000	
	Asphalt Cost Adj	L.S.	\$2,964.60	1	\$2,964	
		E.o.	φ2,004.00		φ2,004	
	TOTAL CONSTRUCTION COST				\$371,751.	
	PROJECT DEVELOPMENT	L.S.	\$55,760.00	1	\$55,760.	
	PRELIMINARY ENGINEERING (DESIGN)	L.S.	\$74,350.00	1	\$74,350.	
	CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$91,890.29	1	\$91,890	
	ROW COSTS	L.S.	\$135,000.00	1	\$135,000.	
	TOTAL BASE CONSTRUCTION COST				\$728,751.9	

Contract No.

TBD

South Street Multi-Use Path Concept

	Funded Amount (CTF	P):	Current Estimate	% Difference
Preliminary Engineering			\$556,980.00	
Right-of-Way			\$30,000.00	
Total Construction			\$1,980,929.72	
Contractor Items*	\$1,346,219.54		* From TrnsPort	
Const. Contingency	\$134,621.95	@	10.00%	
CE**	\$389,554.88	@	28.94%	
Traffic	\$20,000.00			
Utilities	\$60,000.00			
Planting	\$10,000.00			
Env. Performance	\$0.00			
QA/QC for HMA	\$1,578.15			
Asphalt Cost Adj	\$18,955.20			
Total Need:	\$1,980,929.72			
	с. н			
** CE costs consist of the	following:		A 4 000 00	
Advertisement	<i></i> .		\$1,000.00	
	pection services		\$201,932.93	
	gineering services		\$134,621.95	
E&S Inspection			\$42,000.00	
Pipe Video Insp			\$0.00	
	esearch Insp. Services	5	\$10,000.00	
Misc. Constructi	on Items		\$0.00	

Preliminary Engineering	\$556,980.00
Right-of-Way	\$30,000.00
Construction	\$1,356,219.54
Contingency	\$155,155.30
CE	\$389,554.88
Traffic	\$20,000.00
Utilities	\$60,000.00

South Street Multi-Use Path Concept

TTEM # TITLE UNIT ESTIMATE COST UNIT 201000 CLEARING AND GRUBBING LS \$10,000.00 1.00 202000 EXCAVATION AND EMBANKMENT CY \$35.00 4458.00 202000 EXCAVATION AND EMBANKMENT CY \$35.00 4458.00 202001 REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK SY \$38.00 1505.00 211001 REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK SY \$358.00 1505.00 321002 GABC, PATCHING CY \$57.00 1487.00 321021 GABC, PATCHING TON \$1150.00 682.00 401029 SUPERAVE TYPE C, PG 64-22, PATCHING TON \$1160.00 11901.00 401031 SUPERAVE TYPE B, PG 64-22, PATCHING TON \$110.00 11901.00 10031 SUPERAVE TYPE B, PG 64-22, PATCHING TON \$110.00 11901.00 10031 SUPERAVE TYPE B, PG 64-22, PATCHING TON \$100.00 11901.00 10031 SUPERAVE TYPE B, PG 64-22, PATCHING	Conceptual Cost Estimate 5/6/2022							
220200 EXCAVATION AND EMBANKMENT CY \$\$20.00 4458.00 20000 BORROW, TYPE F CY \$\$20.00 218.00 20000 GABC CY \$\$20.00 218.00 201001 REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK SY \$\$38.00 168.00 301001 GABC, PATCHING CY \$\$50.00 1691.00 401005 SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE) TON \$\$175.00 769.00 401020 SUPERPAVE TYPE C, PG 64-22 (PATCHING TON \$\$175.00 769.00 401031 SUPERPAVE TYPE B, PG 64-22, PATCHING TON \$\$100.00 1161.00 401031 SUPERPAVE TYPE B, PG 64-22, PATCHING TON \$\$100.00 1161.00 401031 SUPERPAVE TYPE B, PG 64-22, PATCHING TON \$\$10.00 1901.00 401031 SUPERPAVE TYPE B, PG 64-22, PATCHING TON \$\$10.00 1901.00 401031 SUPERPAVE TYPE B, PG 64-22, PATCHING FE \$\$10.00 \$\$294.00 401031 SUPERPAVE TYPE SCBC, PG 64-22, PATCHING <th>ITEM #</th> <th>· · ·</th> <th></th> <th></th> <th>-</th> <th>TOTAL</th>	ITEM #	· · ·			-	TOTAL		
209006 BORROW, TYPE F CY \$20.00 218.00 21001 REMCVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK SY \$38.00 1660.00 030101 GABC CY \$50.00 1031.00 030102 GABC, PATCHING CY \$57.00 1487.00 030102 GABC, PATCHING TON \$150.00 692.00 030102 GABC, PATCHING TON \$150.00 692.00 030103 SUPERAVE TYPE C, PG 64-32, PATCHING TON \$100.00 1196.00 03013 SUPERAVE TYPE B, PG 64-32, PATCHING TON \$100.00 1196.00 03013 SUPERAVE TYPE B, PG 64-32, PATCHING TON \$100.00 1196.00 03013 SUPERAVE TYPE B, PG 64-32, PATCHING TON \$100.00 1196.00 03013 SUPERAVE TYPE B, PG 64-32, PATCHING SUPENAVE TYPE S-8 \$12.00 2149.00 10031 SUPENAVE TYPE S-8 SUPENAVE TYPE S-8 \$12.00 2149.00 10031 SUPENAVE TYPE S-8 S12.00 2149.00 2149.00<	201000	CLEARING AND GRUBBING	LS	\$10,000.00	1.00	\$10,000.		
211001 REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK SY \$338.00 1560.00 001001 GABC CY \$50.00 1031.00 001002 GABC, PATCHING CY \$50.00 1031.00 001002 GABC, PATCHING CY \$57.00 1487.00 001002 GABC, PATCHING TON \$150.00 692.00 0010203 SUPERPAVE TYPE C, PG 64-22, PATCHING TON \$175.00 760.00 001022 LPCC CURB AND CUTTER, TYPE 3.6 TON \$100.00 1901.00 001022 LPCC CURB AND CUTTER, TYPE 3.6 SF \$12.00 2149.00 001022 LPCC CURB AND CUTTER, TYPE 3.6 SF \$12.00 2149.00 001022 LPCC CURB AND CUTTER, TYPE 3.6 SF \$12.00 2149.00 00102 SPUEC CURB AND CUTTER, STUPE3.6 SF \$12.00 2149.00 00102 PERMANENT PAVEMENT STRIPING, SYMBOLLEGEND, ALKYD-THERMOPLASTIC SF \$15.00 196.00 010102 PERMANENT PAVEMENT STRIPING, SYMBOLLEGEND, ALKYD-THERMOPLASTIC <t< td=""><td>202000</td><td>EXCAVATION AND EMBANKMENT</td><td>CY</td><td>\$35.00</td><td>4548.00</td><td>\$159,180.</td></t<>	202000	EXCAVATION AND EMBANKMENT	CY	\$35.00	4548.00	\$159,180.		
01001 GABC CY \$\$50.00 1031.00 001002 GABC, PATCHING CY \$\$75.00 1487.00 001005 SUPERAVE TYPE C, PG 64-22, PATCHING TON \$\$175.00 760.00 0101030 SUPERAVE TYPE C, PG 64-22, PATCHING TON \$\$175.00 760.00 010130 SUPERAVE TYPE C, PG 64-22, PATCHING TON \$\$100.00 1901.00 010131 SUPERAVE TYPE DEGC, PG 64-22, PATCHING TON \$\$100.00 1901.00 010131 SUPERAVE TYPE BCBC, PG 64-22, PATCHING TON \$\$100.00 1901.00 010131 SUPERAVE TYPE BCBC, PG 64-22, PATCHING TON \$\$100.00 1901.00 010122 LPC CURB AND GUTTER, TYPE 3-6 SF \$\$12.00 \$\$50.00 220.00 010201 PCC SIDEWALK, 6" SF \$\$12.00 \$\$50.00 220.00 05002 PCC SIDEWALK, 6" LF \$\$25.00 220.00 05002 DEWALK, 6" LF \$\$10.00 20.00 05002 PERMANENT AVEMENENT STRIPING, EDVXY RESIN PAINT, WHITE/YELLOW, 5" </td <td>209006</td> <td>BORROW, TYPE F</td> <td>CY</td> <td>\$20.00</td> <td>218.00</td> <td>\$4,360</td>	209006	BORROW, TYPE F	CY	\$20.00	218.00	\$4,360		
901002 GABC, PATCHING CY \$75.00 1487.00 901005 SUPERPAVE TYPE C, PG 64-22, PATCHING TON \$155.00 682.00 901005 SUPERPAVE TYPE C, PG 64-22, PATCHING TON \$157.00 760.00 901005 SUPERPAVE TYPE B, PG 64-22, PATCHING TON \$150.00 1901.00 901022 I.PCC CURB AND GUTTER, TYPE 3-6 TON \$100.00 1901.00 901022 I.PCC CURB AND GUTTER, TYPE 3-6 I.F \$36.00 2249.00 90902 PCC SIDEWALK, 4° SF \$12.00 2149.00 90902 PCC SIDEWALK, 6° SF \$12.00 2149.00 90902 PCC SIDEWALK, 6° SF \$12.00 2149.00 90902 PCC SIDEWALK, 6° SF \$15.00 1963.00 90200 SAW CUTTING, CONCRETE, FULL DEPTH LF \$5.00 122.00 9020 PCC SIDEWALK, 6° SF \$1.10 588.00 90204 INET SEDIMENT TORNEWENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5° LF \$1.10 <t< td=""><td>211001</td><td>REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK</td><td>SY</td><td>\$38.00</td><td>1560.00</td><td>\$59,280</td></t<>	211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	SY	\$38.00	1560.00	\$59,280		
Dispersive Dispersive <thdispersive< th=""> Dispersive Dispersi</thdispersive<>		GABC	CY	\$50.00	1031.00	\$51,550		
101029 SUPERPAVE TYPE C, PG 64-22, PATCHING TON \$175.00 760.00 101030 SUPERPAVE TYPE B, PG 64-22, PATCHING TON \$100.00 1196.00 101031 SUPERPAVE TYPE B, PG 64-22, PATCHING TON \$100.00 1190.10 101031 SUPERPAVE TYPE B, PG 64-22, PATCHING TON \$100.00 1190.10 101031 SUPERPAVE TYPE BCPC, PG 64-22, PATCHING TON \$100.00 1190.00 101031 SUPERPAVE TYPE BCPC, PG 64-22, PATCHING TON \$100.00 1190.00 101031 SUPERPAVE TYPE BCPC, PG 64-22, PATCHING TON \$100.00 1290.00 101031 SUPERPAVE TYPE BCPC, PG 64-22, PATCHING TON \$120.00 3294.00 101031 SUPERPAVE TYPE BCPC, PG 64-22, PATCHING ST \$12.00 3294.00 105001 PC SIDEWALK, 4" SF \$12.00 3294.00 3294.00 10201 SAW CUTTING, BITUMINOUS CONCRETE LF \$12.00 320.00 117012 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5" LF \$11.00 320.00 <td><u>301002</u></td> <td>GABC, PATCHING</td> <td>CY</td> <td>\$75.00</td> <td>1487.00</td> <td>\$111,525</td>	<u>301002</u>	GABC, PATCHING	CY	\$75.00	1487.00	\$111,525		
01030 SUPERPAVE TYPE B, PG 64-22, PATCHING TON \$105.00 1156.00 01031 SUPERPAVE TYPE BCBC, PG 64-22, PATCHING TON \$100.00 1901.00 01032 LIPC CURB AND GUTTER, TYPE 3-6 LF \$\$260.00 \$294.00 010302 LIPC CURB AND GUTTER, TYPE 3-6 SF \$\$12.00 2149.00 010402 LPC COURD AND GUTTER, TYPE 3-6 SF \$\$12.00 2149.00 0105001 PCC SIDEWALK, 4" SF \$\$12.00 2149.00 010002 PCC SIDEWALK, 4" SF \$\$12.00 500.00 010002 PCC SIDEWALK, 4" SF \$\$12.00 220.00 010013 SUPERPAVEENT STRIPING, SYMBOLLEGEND, ALKYD-THERMOPLASTIC SF \$\$11.00 \$\$50.00 1903.00 01013 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5" LF \$\$1.10 \$\$55.00 220.00 01013 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5" LF \$\$1.00 140.00 140.00 140.00 140.00 140.00 140.00 140.00 140.00		SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	TON	\$150.00	692.00	\$103,800		
101031 SUPERPAVE TYPE BCBC, PG 64-22, PATCHING TON \$100.00 1901.00 001022 IPCC CURB AND GUTTER, TYPE 3-6 IF \$38.00 2294.00 005001 PCC SIDEWALK, 4" SF \$12.00 2149.00 005002 PCC SIDEWALK, 4" SF \$12.00 2149.00 062001 SAW CUTTING, BITUMINOUS CONCRETE IF \$2.50 8080.00 062001 SAW CUTTING, CONCRETE, FULL DEPTH IF \$5.00 220.00 317012 PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC SF \$11.00 9630.00 10101 PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL EACH \$475.00 20.00 10101 PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL EACH \$475.00 20.00 10101 PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL EACH \$475.00 20.00 100101 TOPSOIL, 6" OEPTH SY \$8.50 2532.00 14.00 1008014 PERMANENT GRASS SEEDING, DRY GROUND SY \$8.50 2532.00 <		SUPERPAVE TYPE C, PG 64-22, PATCHING	TON	\$175.00	760.00	\$133,000		
01022 I.PCC CURB AND GUTTER, TYPE 3-6 I.F \$36.00 3294.00 05001 PCC SIDEWALK, 4" SF \$12.00 2149.00 05002 PCC SIDEWALK, 6" SF \$12.00 950.00 05002 SC SIDEWALK, 6" SF \$12.00 950.00 05002 SAW CUTTING, CONCRETE, FULL DEPTH I.F \$\$5.00 220.00 17002 PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC SF \$\$15.00 1963.00 17013 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5" I.F \$\$1.10 5858.00 17015 PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL EACH \$\$475.00 20.00 17015 PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL EACH \$\$\$475.00 20.00 105004 INLET SEDIMENT CONTROL, DRAINAGE INLET EACH \$\$\$\$15.00 14.00 05004 INLET SEDIMENT CONTROL, DRAINAGE INLET SY \$\$8.50 2532.00 05004 INERTSEDIMENT GARSS SEEDING, DRY GROUND SY \$\$8.50 2532.00	01030	SUPERPAVE TYPE B, PG 64-22, PATCHING	TON	\$105.00	1156.00	\$121,380		
05001 PCC SIDEWALK, 4° SF \$12.00 2149.00 05002 PCC SIDEWALK, 6° SF \$12.00 9500 05001 SAW CUTTING, BITUMINOUS CONCRETE LF \$25.00 220.00 05002 SAW CUTTING, CONCRETE, FULL DEPTH LF \$5.00 220.00 17003 PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC SF \$15.00 1963.00 17013 PERFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL EACH \$475.00 20.00 17013 PERFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL EACH \$475.00 20.00 05004 INLET SEDIMENT CONTROL, DRAINAGE INLET EACH \$475.00 20.00 05004 TOPSOIL, 6° DEPTH SY \$8.50 2532.00 08004 TOPSOIL, 6° DEPTH SY \$8.10 2532.00 N/A SHARED-USE PATH AT RAILROAD CROSSING LS \$1.00 Subtotal LS \$59,126.49 1 Construction Engineering (2.5%) L.S. \$29,563.25 1 <t< td=""><td></td><td>SUPERPAVE TYPE BCBC, PG 64-22, PATCHING</td><td>-</td><td>\$100.00</td><td>1901.00</td><td>\$190,100</td></t<>		SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	-	\$100.00	1901.00	\$190,100		
05002 PCC SIDEWALK, 6" SF \$12.00 95.00 62000 SAW CUTTING, BITUMINOUS CONCRETE LF \$2.50 8080.00 62001 SAW CUTTING, CONCRETE, FULL DEPTH LF \$5.00 220.00 17002 PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC SF \$15.00 1963.00 17013 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5" LF \$1.10 5888.00 17013 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5" LF \$1.10 5888.00 17015 PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL EACH \$475.00 100.00 05004 INLET SEDIMENT CONTROL, DRAINAGE INLET EACH \$475.00 14.00 06004 TOPSOIL, 6" DEPTH SY \$8.50 2532.00 08004 TOPSOIL, 6" DEPTH SY \$8.50 2532.00 08004 PERMANENT GASS SEEDING, DRY GROUND SY \$8.50 2532.00 N/A SHARED-USE PATH AT RAILROAD CROSSING L.S \$20.00 1.00 Subtotal <td></td> <td>I.PCC CURB AND GUTTER, TYPE 3-6</td> <td></td> <td>\$36.00</td> <td>3294.00</td> <td>\$118,584</td>		I.PCC CURB AND GUTTER, TYPE 3-6		\$36.00	3294.00	\$118,584		
622000 SAW CUTTING, BITUMINOUS CONCRETE LF \$2.50 8080.00 62001 SAW CUTTING, CONCRETE, FULL DEPTH LF \$5.00 220.00 17002 PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC SF \$15.00 1963.00 17013 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5" LF \$1.10 5588.00 17015 PERFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL EACH \$475.00 20.00 05004 INLET SEDIMENT CONTROL, DRAINAGE INLET EACH \$150.00 14.00 05004 INLET SEDIMENT CONTROL, DRAINAGE INLET EACH \$150.00 14.00 05004 INLET SEDIMENT CONTROL, DRAINAGE INLET EACH \$150.00 14.00 05004 INLET SEDIMENT CONTROL, DRAINAGE INLET EACH \$150.00 14.00 05004 INLET SEDIMENT CONTROL, DRAINAGE INLET EACH \$10.00 2532.00 05014 PERMANENT GRASS SEEDING, DRY GROUND SY \$1.00 2532.00 04004 CONSTRUCTION CONTINGENCY L.S. \$59.126.49 1		PCC SIDEWALK, 4"		\$12.00	2149.00	\$25,788		
62001 SAW CUTTING, CONCRETE, FULL DEPTH LF \$5.00 220.00 117002 PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC SF \$15.00 1963.00 117013 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5" LF \$1.10 5858.00 117015 PERFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL EACH \$475.00 20.00 05004 INLET SEDIMENT CONTROL, DRAINAGE INLET EACH \$150.00 14.00 05004 TOPSOIL, 6" DEPTH EACH \$150.00 14.00 05004 TOPSOIL, 6" DEPTH SY \$1.00 2232.00 063014 PERMANENT GRASS SEEDING, DRY GROUND SY \$1.00 2232.00 N/A SHARED-USE PATH AT RAILROAD CROSSING LS 1.00 Subtotal LS 1.00 1.00 Subtotal LS \$29,563.25 1 MOT LS \$29,563.25 1 MOT LS \$29,563.25 1 MOT LS \$20,000.00 1		PCC SIDEWALK, 6"	SF	\$12.00	95.00	\$1,140		
17002 PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC SF \$15.00 1983.00 17013 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5" LF \$11.10 5858.00 17015 PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL EACH \$475.00 20.00 05004 INLET SEDIMENT CONTROL, DRAINAGE INLET EACH \$150.00 14.00 06004 TOPSOL, 6" DEPTH SY \$8.50 2532.00 08004 TOPSOL, 6" DEPTH SY \$1.00 2532.00 N/A SHARED-USE PATH AT RAILROAD CROSSING LS 1.00 Subtotal Image: Stripping (2.5%) L.S. \$59,126.49 1 763000 Initial Expense (5%) L.S. \$29,563.25 1 MOT L.S. \$29,563.25 1 1 TOTAL BASE FOR PROJECT Image: Stripping (2.5%) 1 1 CONSTRUCTION CONTINGENCY 10% \$134,621.95 1 TRAFFIC (RROM TRAFFIC STATEMENT) L.S. \$20,000.00 1 UTILITY		SAW CUTTING, BITUMINOUS CONCRETE		\$2.50	8080.00	\$20,200		
I17013 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5" LF \$1.10 5885.00 117015 PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL EACH \$475.00 20.00 005004 INLET SEDIMENT CONTROL, DRAINAGE INLET EACH \$150.00 14.00 005004 INLET SEDIMENT CONTROL, DRAINAGE INLET SY \$8.50 2532.00 005004 PERMANENT GRASS SEEDING, DRY GROUND SY \$1.00 2532.00 N/A SHARED-USE PATH AT RAILROAD CROSSING LS 1.00 Subtotal 1.00 763000 Initial Expense (5%) L.S. \$59,126.49 1 763000 Initial Expense (5%) L.S. \$29,563.25 1 MOT L.S. \$75,000.00 1 1 TOTAL BASE FOR PROJECT MOT L.S. \$20,000.00 1 UTILITY L.S. \$20,000.00 1 UTILITY L.S. \$10,000.00 1 UTILITY <t< td=""><td></td><td>SAW CUTTING, CONCRETE, FULL DEPTH</td><td></td><td>\$5.00</td><td>220.00</td><td>\$1,100</td></t<>		SAW CUTTING, CONCRETE, FULL DEPTH		\$5.00	220.00	\$1,100		
HT015 PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL EACH \$475.00 20.00 05004 INLET SEDIMENT CONTROL, DRAINAGE INLET EACH \$150.00 14.00 08004 TOPSOIL, 6" DEPTH SY \$8.50 2532.00 08014 PERMANENT GRASS SEEDING, DRY GROUND SY \$1.00 2532.00 N/A SHARED-USE PATH AT RAILROAD CROSSING LS 1.00 Subtotal LS 1.00 6 MOT L.S. \$59,126.49 1 763000 Initial Expense (5%) L.S. \$29,563.25 1 MOT LS. \$75,000.00 1 TOTAL BASE FOR PROJECT LS \$75,000.00 1 CONSTRUCTION CONTINGENCY 10% \$134,621.95 1 TRAFFIC (FROM TRAFIC STATEMENT) L.S. \$60,000.00 1 UTILITY LS. \$60,000.00 1 QA/QC for HMA L.S. \$10,000.00 1 QA/QC for HMA L.S. \$18,955.20 1 Asph		PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC		\$15.00	1963.00	\$29,445		
05004 INET SEDIMENT CONTROL, DRAINAGE INLET EACH \$150.00 14.00 03004 TOPSOIL, 6" DEPTH SY \$8.50 2532.00 03004 PERMANENT GRASS SEEDING, DRY GROUND SY \$1.00 2532.00 N/A SHARED-USE PATH AT RAILROAD CROSSING LS 1.00 Subtotal LS 1.00 763000 Initial Expense (5%) L.S. \$59,126.49 1 763001 Initial Expense (5%) L.S. \$29,563.25 1 MOT L.S. \$75,000.00 1 1 TOTAL BASE FOR PROJECT LS. \$20,000.00 1 CONSTRUCTION CONTINGENCY 10% \$134,621.95 1 TRAFFIC (FROM TRAFFIC STATEMENT) L.S. \$20,000.00 1 UTILITY LS. \$10,000.00 1 1 QAQCC for HMA LS. \$134,621.95 1 Asphalt Cost Adj LS. \$10,000.00 1 QAQC for HMA LS. \$10,000.00 1 QADE TO EVELOP		PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$1.10	5858.00	\$6,443		
08004 TOPSOIL, 6" DEPTH SY \$8.50 253.00 08014 PERMANENT GRASS SEEDING, DRY GROUND SY \$1.00 2532.00 N/A SHARED-USE PATH AT RAILROAD CROSSING LS 1.00 Subtoal LS 1.00 763000 Initial Expense (5%) L.S. \$59,126.49 1 763000 Initial Expense (5%) L.S. \$29,563.25 1 763010 Construction Engineering (2.5%) L.S. \$75,000.00 1 TOTAL BASE FOR PROJECT LS \$75,000.00 1 CONSTRUCTION CONTINGENCY 10% \$134,621.95 1 TRAFFIC (FROM TRAFFIC STATEMENT) L.S. \$20,000.00 1 UTILITY LS. \$10,000.00 1 QA/QC for HMA L.S. \$10,000.00 1 QA/QC for HMA L.S. \$18,955.20 1 Asphalt Cost Adj L.S. \$18,955.20 1 PROJECT DEVELOPMENT LS. \$238,710.00 1 PROJECT DEVELOPMENT LS. </td <td></td> <td>PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL</td> <td>EACH</td> <td>\$475.00</td> <td>20.00</td> <td>\$9,500</td>		PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	EACH	\$475.00	20.00	\$9,500		
OB014 PERMANENT GRASS SEEDING, DRY GROUND SY \$1.00 2532.00 N/A SHARED-USE PATH AT RAILROAD CROSSING L.S 1.00 Subtotal L.S 1.00 763000 Initial Expense (5%) L.S. \$59,126.49 1 763501 Construction Engineering (2.5%) L.S. \$29,563.25 1 MOT L.S. \$75,000.00 1 1 TOTAL BASE FOR PROJECT L.S. \$75,000.00 1 CONSTRUCTION CONTINGENCY 10% \$134,621.95 1 UTILITY L.S. \$20,000.00 1 UTILITY L.S. \$10,000.00 1 QA/QC for HMA L.S. \$11,000.00 1 QA/QC for HMA L.S. \$18,955.20 1 Asphalt Cost Adj L.S. \$28,710.00 1 PROJECT DEVELOPMENT L.S. \$238,710.00 1	05004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	14.00	\$2,100		
N/A SHARED-USE PATH AT RAILROAD CROSSING LS 1.00 Subtotal 1.00 Subtotal 1.00 763000 Initial Expense (5%) L.S. \$59,126.49 1 1 76300 1 1 76300 1 1 76300 1 1 76300 1 1 76300 1 1 1 76300 1 1 1 1 1			SY	\$8.50	2532.00	\$21,522		
Subtotal Image: Subtotal Image: Subtotal 763000 Initial Expense (5%) L.S. \$59,126.49 1 763000 Initial Expense (5%) L.S. \$29,563.25 1 763501 Construction Engineering (2.5%) L.S. \$29,563.25 1 MOT L.S. \$75,000.00 1 TOTAL BASE FOR PROJECT L.S. \$75,000.00 1 CONSTRUCTION CONTINGENCY 10% \$134,621.95 1 TRAFFIC (FROM TRAFFIC STATEMENT) L.S. \$20,000.00 1 UTILITY L.S. \$10,000.00 1 PLANTING L.S. \$11,000.00 1 QA/QC for HMA L.S. \$11,000.00 1 Asphalt Cost Adj L.S. \$18,955.20 1 PROJECT DEVELOPMENT L.S. \$238,710.00 1 PROJECT DEVELOPMENT L.S. \$318,270.00 1				\$1.00	2532.00	\$2,532		
Initial Expense (5%) L.S. \$59,126.49 1 763000 Initial Expense (5%) L.S. \$59,126.49 1 763501 Construction Engineering (2.5%) L.S. \$29,563.25 1 MOT L.S. \$75,000.00 1 TOTAL BASE FOR PROJECT	<u>N/A</u>	SHARED-USE PATH AT RAILROAD CROSSING	LS		1.00	\$0		
763501 Construction Engineering (2.5%) L.S. \$29,563.25 1 MOT L.S. \$75,000.00 1 TOTAL BASE FOR PROJECT L.S. \$75,000.00 1 CONSTRUCTION CONTINGENCY 10% \$134,621.95 1 TRAFFIC (FROM TRAFFIC STATEMENT) L.S. \$20,000.00 1 UTILITY L.S. \$20,000.00 1 QA/QC for HMA L.S. \$10,000.00 1 QA/QC for HMA L.S. \$1,578.15 1 Asphalt Cost Adj L.S. \$1,578.15 1 PROJECT DEVELOPMENT L.S. \$238,710.00 1 PRELIMINARY ENGINEERING (DESIGN) L.S. \$318,270.00 1		Subtotal				\$1,182,529		
763501 Construction Engineering (2.5%) L.S. \$29,563.25 1 MOT L.S. \$75,000.00 1 TOTAL BASE FOR PROJECT L.S. \$75,000.00 1 CONSTRUCTION CONTINGENCY 10% \$134,621.95 1 TRAFFIC (FROM TRAFFIC STATEMENT) L.S. \$20,000.00 1 UTILITY L.S. \$20,000.00 1 QA/QC for HMA L.S. \$10,000.00 1 QA/QC for HMA L.S. \$1,578.15 1 Asphalt Cost Adj L.S. \$1,578.15 1 PROJECT DEVELOPMENT L.S. \$238,710.00 1 PROJECT DEVELOPMENT L.S. \$238,710.00 1								
MOT L.S. \$75,000.00 1 TOTAL BASE FOR PROJECT						\$59,12		
Intelligence Intelligence<						\$29,56		
CONSTRUCTION CONTINGENCY 10% \$134,621.95 1 TRAFFIC (FROM TRAFFIC STATEMENT) L.S. \$20,000.00 1 UTILITY L.S. \$60,000.00 1 PLANTING L.S. \$10,000.00 1 QA/QC for HMA L.S. \$10,000.00 1 QA/QC for HMA L.S. \$11,578.15 1 Asphalt Cost Adj L.S. \$18,955.20 1 TOTAL CONSTRUCTION COST PROJECT DEVELOPMENT L.S. \$238,710.00 1 PRELIMINARY ENGINEERING (DESIGN) L.S. \$318,270.00 1			L.S.	\$75,000.00	1	\$75,00		
TRAFFIC (FROM TRAFFIC STATEMENT) L.S. \$20,000.0 1 UTILITY L.S. \$60,000.0 1 PLANTING L.S. \$10,000.0 1 QA/QC for HMA L.S. \$10,000.0 1 Asphalt Cost Adj L.S. \$1,578.15 1 TOTAL CONSTRUCTION COST L.S. \$238,710.00 1 PROJECT DEVELOPMENT L.S. \$238,710.00 1 PRELIMINARY ENGINEERING (DESIGN) L.S. \$318,270.00 1		TOTAL BASE FOR PROJECT				\$1,346,219		
TRAFFIC (FROM TRAFFIC STATEMENT) L.S. \$20,000.0 1 UTILITY L.S. \$60,000.0 1 PLANTING L.S. \$10,000.0 1 QA/QC for HMA L.S. \$10,000.0 1 Asphalt Cost Adj L.S. \$1,578.15 1 TOTAL CONSTRUCTION COST TOTAL CONSTRUCTION COST 1 PROJECT DEVELOPMENT L.S. \$238,710.00 1 PRELIMINARY ENGINEERING (DESIGN) L.S. \$318,270.00 1			10%	\$134 621 05	1	\$134,62		
UTILITY L.S. \$60,000.00 1 PLANTING L.S. \$10,000.00 1 QA/QC for HMA L.S. \$11,578.15 1 Asphalt Cost Adj L.S. \$1,578.15 1 TOTAL CONSTRUCTION COST Image: Construction Cost Image: Construction Cost Image: Construction Cost PROJECT DEVELOPMENT L.S. \$238,710.00 1 PRELIMINARY ENGINEERING (DESIGN) L.S. \$318,270.00 1						\$20,000		
PLANTING L.S. \$10,000.00 1 QA/QC for HMA L.S. \$1,578.15 1 Asphalt Cost Adj L.S. \$1,578.15 1 TOTAL CONSTRUCTION COST L.S. \$18,955.20 1 PROJECT DEVELOPMENT L.S. \$238,710.00 1 PRELIMINARY ENGINEERING (DESIGN) L.S. \$318,270.00 1						\$60,00		
QA/QC for HMA L.S. \$1,578.15 1 Asphalt Cost Adj L.S. \$18,955.20 1 TOTAL CONSTRUCTION COST 2 2 PROJECT DEVELOPMENT L.S. \$238,710.00 1 PRELIMINARY ENGINEERING (DESIGN) L.S. \$318,270.00 1						\$10,00		
Asphalt Cost Adj L.S. \$18,955.20 1 TOTAL CONSTRUCTION COST Image: Comparison of the system of the s						\$1,57		
PROJECT DEVELOPMENT L.S. \$238,710.00 1 PRELIMINARY ENGINEERING (DESIGN) L.S. \$318,270.00 1						\$18,95		
PROJECT DEVELOPMENT L.S. \$238,710.00 1 PRELIMINARY ENGINEERING (DESIGN) L.S. \$318,270.00 1								
PRELIMINARY ENGINEERING (DESIGN) L.S. \$318,270.00 1						\$1,591,374		
						\$238,710		
						\$318,270		
		CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$389,554.88	1	\$389,55		
ROW COSTS L.S. \$30,000.00 1 TOTAL BASE CONSTRUCTION COST			L.S.	\$30,000.00	1	\$30,000 \$2,567,909		

Contract No.

TBD

Cherry Street Sidewalk

	Funded Amount (CTF	P):	Current Estimate	% Difference
Preliminary Engineering			\$26,210.00	
Right-of-Way			\$0.00	
Total Construction			\$90,334.92	
Contractor Items*	\$49,808.65		* From TrnsPort	
Const. Contingency	\$4,980.86	@	10.00%	
CE**	\$15,452.16	@	31.02%	
Traffic	\$5,000.00			
Utilities	\$15,000.00			
Planting	\$0.00			
Env. Performance	\$0.00			
QA/QC for HMA	\$8.05			
Asphalt Cost Adj	\$85.20			
Total Need:	\$90,334.92			
** CE costs consist of the	following:			
Advertisement			\$1,000.00	
Construction ins	pection services		\$7,471.30	
	gineering services		\$4,980.86	
E&S Inspection			\$0.00	
Pipe Video Inspe			\$0.00	
Materials and Re	esearch Insp. Services		\$2,000.00	
Misc. Constructi	on Items		\$0.00	

Preliminary Engineering	\$26,210.00
Right-of-Way	\$0.00
Construction	\$90,334.92
Contingency	\$5,074.11
CE	\$15,452.16
Traffic	\$5,000.00
Utilities	\$15,000.00

Cherry Street Sidewalk						
TBD						
JNIT ESTIMATE COST	UNIT QUANTITY	TOTAL				
LS \$10,000.00	1.00	\$10,000.00				
CY \$35.00	75.00	\$2,625.00				
CY \$20.00	28.00	\$560.00				
CY \$50.00	18.00	\$900.00				
CY \$75.00	9.00	\$675.00				
TON \$175.00	5.00	\$875.00				
TON \$105.00	7.00	\$735.00				
TON \$100.00	11.00	\$1,100.00				
LF \$36.00	173.00	\$6,228.00				
SF \$12.00	902.00	\$10,824.00				
LF \$2.50	372.00	\$930.00				
LF \$5.00	7.00	\$35.00				
SF \$15.00	50.00	\$750.00				
LF \$1.10	313.00	\$344.30				
ACH \$150.00	3.00	\$450.00				
		\$0.00				
		\$37,031.30				
L.S. \$1,851.57	7 1	\$1,851.57				
L.S. \$925.78	3 1	\$925.78				
L.S. \$10,000.00	0 1	\$10,000.00				
		\$49,808.65				
10% \$4,980.86	6 1	\$4,980.86				
L.S. \$5,000.00	0 1	\$5,000.00				
L.S. \$15,000.00	0 1	\$15,000.00				
L.S. \$0.00	0 1	\$0.00				
L.S. \$8.05	5 1	\$8.05				
L.S. \$85.20		\$85.20				
		\$74,882.76				
L.S. \$11,230.00	1	\$11,230.00				
L.S. \$14,980.00	1	\$14,980.00				
		\$15,452.16				
L.S. \$0.00	D 1	\$0.00				
i		\$116,544.92				
L	S. \$15,452.10	S. \$15,452.16 1				

Contract No.

TBD

Wilmington Road Parking Lot

	Funded Amount (CTF	P):	Current Estimate	% Difference
Preliminary Engineering			\$163,800.00	
Right-of-Way			\$0.00	
Total Construction			\$620,923.35	
Contractor Items*	\$401,700.26		* From TrnsPort	
Const. Contingency	\$40,170.03	@	10.00%	
CE**	\$152,925.07	@	38.07%	
Traffic	\$0.00			
Utilities	\$0.00			
Planting	\$20,000.00			
Env. Performance	\$0.00			
QA/QC for HMA	\$287.00			
Asphalt Cost Adj	\$5,841.00			
- / - - - - - - - - - -	<u> </u>			
Total Need:	\$620,923.35			
** CE costs consist of the	followina:			
Advertisement	5		\$1,000.00	
Construction ins	pection services		\$60,255.04	
	, gineering services		\$40,170.03	
E&S Inspection			\$31,500.00	
Pipe Video Insp			\$0.00	
	esearch Insp. Services	5	\$20,000.00	
Misc. Constructi	•		\$0.00	
			,	

Preliminary Engineering	\$163,800.00
Right-of-Way	\$0.00
Construction	\$421,700.26
Contingency	\$46,298.03
CE	\$152,925.07
Traffic	\$0.00
Utilities	\$0.00

Wilmington Road Parking Lot

TBD						
	Conceptual Cost Estimate 5/4	4/2022				
ITEM #	TITLE	UNIT	ESTIMATE COST	UNIT QUANTITY	TOTAL	
201000	CLEARING AND GRUBBING	LS	\$10,000.00	1.00	\$10,000.0	
202000	EXCAVATION AND EMBANKMENT	CY	\$35.00	1802.00	\$63,070.	
211001	REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	SY	\$38.00	16.00	\$608.	
	GABC	CY	\$50.00	1016.00	\$50,800.	
<u>301002</u>	GABC, PATCHING	CY	\$75.00	51.00	\$3,825	
01005	SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	TON	\$150.00	689.00	\$103,350	
40102 <u>9</u>	SUPERPAVE TYPE C, PG 64-22, PATCHING	TON	\$175.00	26.00	\$4,550	
1010 <u>30</u>	SUPERPAVE TYPE B, PG 64-22, PATCHING	TON	\$105.00	40.00	\$4,200	
401031	SUPERPAVE TYPE BCBC, PG 64-22, PATCHING	TON	\$100.00	65.00	\$6,500	
701021	I.PCC CURB AND GUTTER, TYPE 3-4	LF	\$30.00	1893.00	\$56,790	
701022	I.PCC CURB AND GUTTER, TYPE 3-6	LF	\$36.00	1014.00	\$36,504	
762000	SAW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	2138.00	\$5,345	
	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	125.00	\$1,875	
317013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$1.10	2000.00	\$2,200	
05004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	1.00	\$150	
	TOPSOIL. 6" DEPTH	SY	\$8.50	2027.00	\$17.229	
	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	2027.00	\$2,027	
	Subtotal				\$369,023	
763000	Initial Expense (5%)	L.S.	\$18,451.18	1	\$18,451	
763501	Construction Engineering (2.5%)	L.S.	\$9,225.59	1	\$9,225	
	мот	L.S.	\$5,000.00	1	\$5,000	
	TOTAL BASE FOR PROJECT				\$401,700	
	CONSTRUCTION CONTINGENCY	10%	\$40,170.03	1	\$40,170	
	TRAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$40,170.03	1	 \$	
		L.S.	\$0.00	1	\$(\$(
	PLANTING	L.S.	\$20,000.00	1	\$20,000	
	QA/QC for HMA	L.S.	\$20,000.00	1	\$20,000	
	Asphalt Cost Adj	L.S.	\$287.00	1	\$5,84	
	Asphalt Cost Auj	L.3.	\$5,641.00	1	\$3,64	
	TOTAL CONSTRUCTION COST				\$467,998	
	PROJECT DEVELOPMENT	L.S.	\$70,200.00	1	\$70,200	
	PRELIMINARY ENGINEERING (DESIGN)	L.S.	\$93,600.00	1	\$93,600	
	CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$152,925.07	1	\$152,92	
	ROW COSTS	L.S.	\$0.00	1	\$0	
	TOTAL BASE CONSTRUCTION COST				\$784,723	