



Hampton Roads 2045 Long-Range Transportation Plan: Regional Needs

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REPORT DOCUMENTATION

TITLE

Hampton Roads 2045 Long-Range Transportation Plan: Regional Needs

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ABSTRACT

The Hampton Roads Transportation Planning Organization (HRTPO) is currently updating the regional Long-Range Transportation Plan (LRTP) to the horizon year 2045. As part of this process and in keeping with Federal regulations, the HRTPO must consider multimodal transportation options to effectively address future regional needs based upon projected population and employment growth for the next 20 years.

This document – part of a series of reports that comprise the Hampton Roads 2045 LRTP – summarizes the visioning process as well as the collection and spatial analysis of candidate projects being considered for inclusion in the 2045 LRTP.

ACKNOWLEDGMENT & DISCLAIMERS

Prepared in cooperation with the U.S. Department of Transportation (USDOT), Federal Highway Administration (FHWA), and Virginia Department of Transportation (VDOT). The contents of this report reflect the views of the Hampton Roads Transportation Planning Organization (HRTPO). The HRTPO is responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the FHWA, VDOT, or Hampton Roads Planning District Commission. This report does not constitute a standard, specification, or regulation. FHWA or VDOT acceptance of this report as evidence of the fulfillment of the objectives of this planning study does not constitute endorsement/approval of the need for any recommended improvements, nor does it constitute approval of their location and design or a commitment to fund any such improvements. Additional project-level environmental impact assessments and/or studies of alternatives may be necessary.

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The HRTPO assures that no person shall, on the ground of race, color, national origin, handicap, sex, age, or income status as provided by Title VI of the Civil Rights Act of 1964 and subsequent authorities, be excluded from participation in, be denied the benefits of, or be otherwise subject to discrimination under any program or activity. The HRTPO Title VI Plan provides this assurance, information about HRTPO responsibilities, and a Discrimination Complaint Form.

HAMPTON ROADS 2045 LONG-RANGE TRANSPORTATION PLAN: REGIONAL NEEDS

REPORT DATE: JULY 2020

REPORT #: T20-07

TABLE OF CONTENTS

INTRODUCTION AND BACKGROUND	PAGE 2
VISION AND GOALS	PAGE 4
IDENTIFYING REGIONAL NEEDS	PAGE 11
CANDIDATE PROJECT ANALYSIS	PAGE 22
PUBLIC REVIEW	PAGE 68
NEXT STEPS	PAGE 68
APPENDICES	
APPENDIX A: SUMMARY OF REGIONAL SURVEYS	PAGE 70
APPENDIX B: PUBLIC COMMENTS	PAGE 85
APPENDIX C: LIST OF COMMITTED AND CANDIDATE PROJECTS	PAGE 91





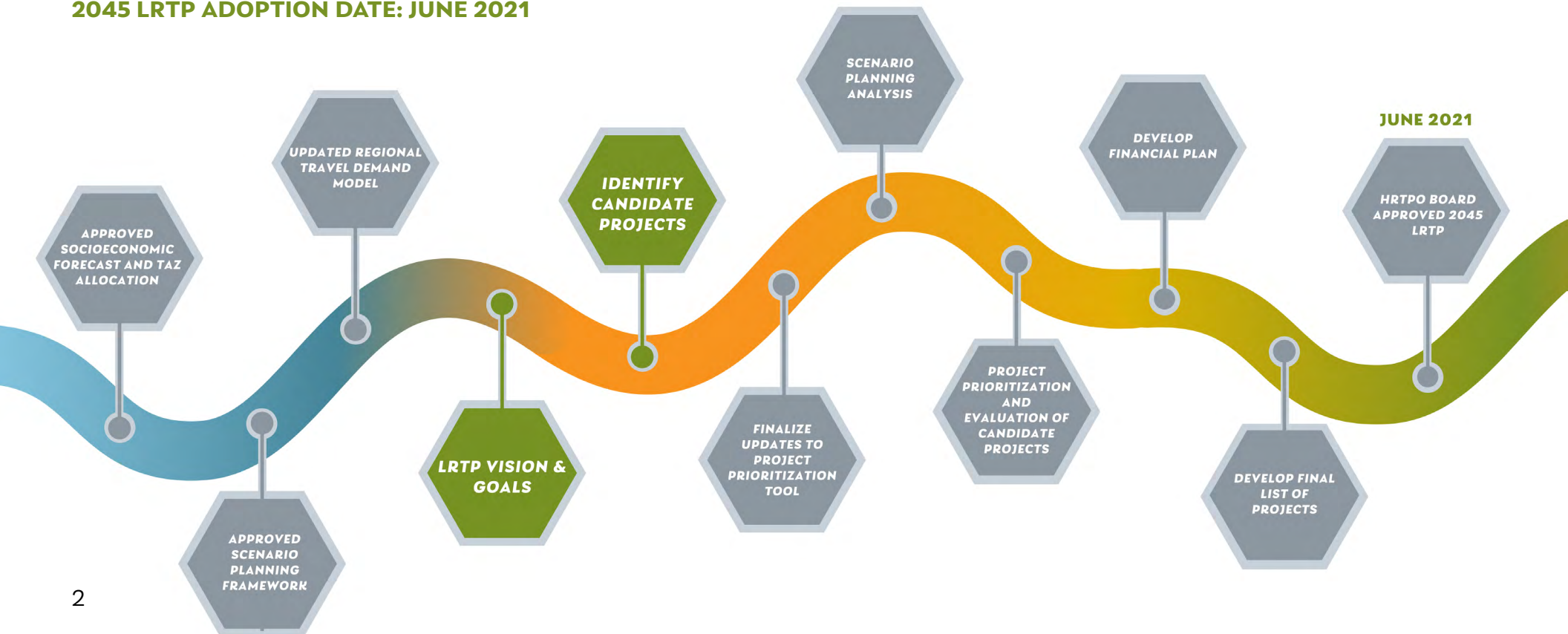
INTRODUCTION AND BACKGROUND

Transportation designed to move people and goods around efficiently and in a reliable manner is essential for thriving communities. When considering transportation investments, it is important to not only take care of short-term demands, but also identify long-term needs. To accomplish this, the Hampton Roads Transportation Planning Organization (HRTPO) develops a long-range regional blueprint, or **Long-Range Transportation Plan (LRTP)** to help guide multimodal transportation investments that promote system efficiency while maximizing the use of scarce transportation funds.

LRTPs have a planning horizon of at least twenty years and are updated regularly in order to reflect changing conditions and priorities. Changes in growth can impact travel demand on the regional transportation system just as changes in the environment and technology can impact how people will travel in the future; therefore, transportation plans must consider alternatives to effectively address these conditions. Once alternatives are determined and prioritized, funds are identified to pay for the projects. This entire process takes approximately five years to complete and requires regional cooperation and public participation.

For the past few years, HRTPO staff has been working on updating the regional LRTP to the horizon year of 2045 which is scheduled to be adopted by the HRTPO Board in June 2021. This report, the second in a series documenting the development of the 2045 LRTP, summarizes regional needs by outlining the transportation visioning process, the identification of goals to help achieve that regional vision, and the development of a list of candidate projects to evaluate for inclusion in the Plan that will also help position the region in achieving its vision of the future.

2045 LRTP ADOPTION DATE: JUNE 2021



L RTP EFFORTS TO DATE

As part of the development of the 2045 LRTP and in collaboration with regional stakeholders and the public, the following efforts have been conducted to date. Please click on the highlighted links to find out more about these efforts.

HAMPTON ROADS 2045 SOCIOECONOMIC FORECAST

Future population and employment estimates for each Hampton Roads locality has been developed, showing where residents are projected to live and work by 2045.

SCENARIO PLANNING FRAMEWORK

In addition to this 2045 baseline scenario, the HRTPO Board approved a **scenario planning framework** designed to test different plausible futures and their potential impact on the transportation system.

UPDATED REGIONAL TRAVEL DEMAND MODEL

Working with the Virginia Department of Transportation, the **regional travel demand model**, one of the main tools used to forecast congestion and other transportation measures, was updated. A new feature of this updated travel demand model is the ability to forecast potential impacts of connected and automated vehicles on travel behavior.

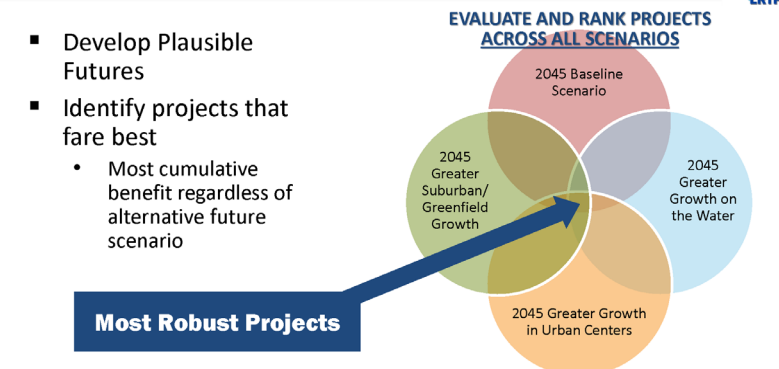
ENHANCED PROJECT PRIORITIZATION TOOL

Finally, the **HRTPO Project Prioritization Tool**, a tool developed to assist regional decision-makers in prioritizing transportation projects based on technical merits and regional benefits, is being updated to incorporate additional measures for evaluating transportation projects.

2045 SOCIOECONOMIC FORECAST



2045 LRTP EXPLORATORY SCENARIO PLANNING



PROJECT PRIORITIZATION COMPONENTS

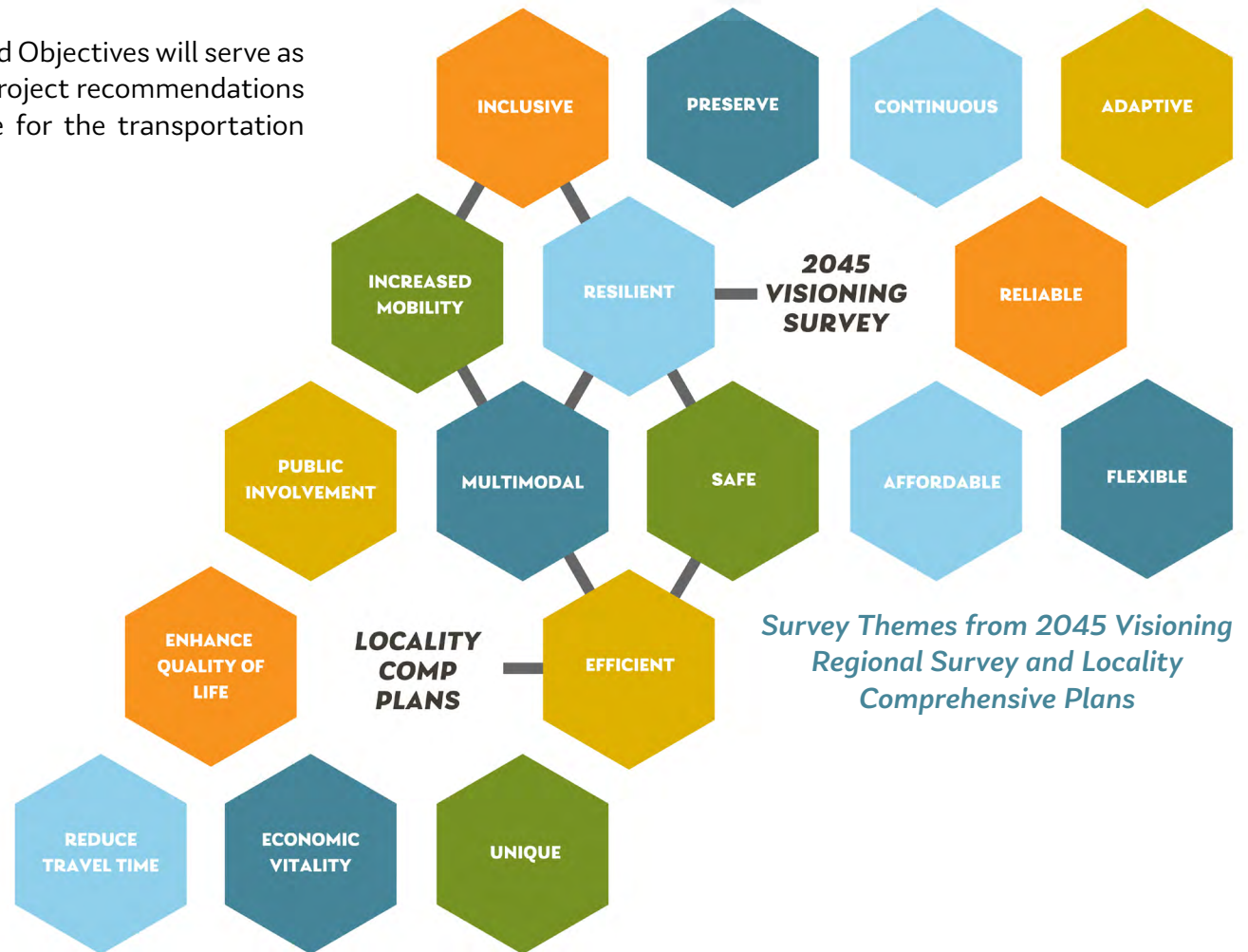
Current Tool Components		Modified Tool Components	
Project Utility 100 points	<ul style="list-style-type: none">• Congestion• System Continuity and Connectivity/Regional Significance• Safety and Security• Cost Effectiveness• Modal Enhancements	Project Utility 100 points	<ul style="list-style-type: none">• Congestion• Travel Time Reliability• System Continuity and Connectivity/Regional Significance• Safety and Security• Modal Enhancements
Economic Vitality 100 points	<ul style="list-style-type: none">• Total Reduction in Travel Time• Address Needs of Basic Sector Industries• Labor Market Access• Increase Opportunity• Impact on Truck Movement	Economic Vitality 100 points	<ul style="list-style-type: none">• Travel Time and Delay Impacts• Labor Market Access• Address Needs of Basic Sector Industries• Increased Opportunity• Impact on Truck Movement• Economic Distress Factors
Project Viability 100 points	<ul style="list-style-type: none">• % Funding Committed• % Design Complete• Prior Planning Commitment• NEPA Documents/Decisions	Project Viability 100 points	<ul style="list-style-type: none">• Project Readiness• Land Use/Future Development Compatibility• Environmental Considerations• Cost Effectiveness

VISION AND GOALS

For the 2045 LRTP visioning process, the public and other key stakeholders were engaged to help identify regional priorities and concerns. Outreach was conducted in conjunction with another regional planning effort, the **Regional Connectors Study (RCS)**, in the form of stakeholder interviews, a statistically-valid regional public survey, a web-based public survey, workshops, and multiple working group and technical committee meetings to solicit refined input on goals, objectives, and performance measures.

Feedback received through these efforts was compiled and refined to ensure consistency with Federal and State guidelines as well as local comprehensive plans. This input was used to develop a draft vision statement, goals, and objectives for the 2045 LRTP, which were made available for public review and comment from January 31, 2020 through February 14, 2020. No additional public comments were received. After extensive stakeholder review, the HRTPO Board at its February 20, 2020 meeting, approved the 2045 Long-Range Transportation Plan Vision Statement, Goals, and Objectives.

The 2045 LRTP Vision Statement, Goals, and Objectives will serve as guiding principles in helping to ensure that project recommendations from the Plan represent the region's desire for the transportation system.



PUBLIC ENGAGEMENT OPPORTUNITIES



3 REGIONAL SURVEYS
1,975 RESPONSES



36 FACE-TO-FACE OPPORTUNITIES
3 WORKSHOPS
8 SCENARIO PLANNING WEBINARS
6 ADVISORY COMMITTEE MEETINGS
19 TECHNICAL COMMITTEE MEETINGS



PUBLIC ENGAGEMENT OPPORTUNITIES

Public engagement with residents, stakeholders, elected officials, and other community representatives is an important part of a successful planning process. Developing a regional vision and working to achieve it requires collaboration with a comprehensive and diverse set of stakeholders.

REGIONAL SURVEYS

Two regional surveys were conducted to help inform a regional transportation vision and to better understand the priorities and travel experiences of people who call Hampton Roads home.

Statistically Valid Public Survey

Conducted as part of a collaborative effort between HRTPO staff and the RCS, the statistically valid survey was comprised of questions from previous LRTP surveys and included questions such as: important issues facing the region, location preferences for new development, transportation problems, modes of travel, commuting experiences, barriers to using public transportation, ideas to reduce congestion, and travel between the Peninsula and the Southside.

Surveys were mailed to 20,000 randomly selected households within the Hampton Roads region. Respondents could choose to take the survey online or mail in responses. To ensure demographic representation, data was weighted by age using the 2012-2016 American Community Survey (ACS) data to match the demographic profile of the Hampton Roads region. A **summary of this regional survey** can be viewed on the Regional Connectors website.

2045 Visioning Web-Based Public Survey

A web-based survey was available from March 28, 2019 through April 26, 2019. Over 200 participants offered input on transportation-related topics including critical transportation issues residents face, transportation priorities for the region, congestion, public transportation, active transportation (biking and walking), community preference, housing and new job growth, and public health. This survey also served as a platform for participants to submit candidate project suggestions for the 2045 LRTP. A full summary of the survey can be found in **APPENDIX A**.

STAKEHOLDER INTERVIEWS

Stakeholder interviews were conducted as part of the RCS. As part of the interviews, stakeholders provided responses to questions regarding transportation, economic vitality, quality of life, and emerging trends.

KEY FINDINGS FROM REGIONAL SURVEYS AND STAKEHOLDER INTERVIEWS

SURVEY KEY FINDINGS

- REDUCED CONGESTION, IMPROVED CONNECTIVITY, AND MORE MULTIMODAL TRANSPORTATION CHOICES
- MAINTENANCE, CONGESTION, AND TOLLING CONCERNS
- MORE ACTIVE TRANSPORTATION FACILITIES
- MORE RELIABLE AND EFFICIENT TRANSIT
- MORE EFFICIENT TRAVEL BETWEEN SOUTHSIDE AND PENINSULA
- TRAVEL TIME AFFECTS QUALITY OF LIFE
- LOCATION, LOCATION, LOCATION: HOME AND WORK
- CLEAN AIR

STAKEHOLDER INTERVIEWS KEY FINDINGS

- UNPREDICTABLE TRAVEL TIMES
- LACK OF ALTERNATIVE ROUTES
- LACK OF PUBLIC TRANSIT OPTIONS
- LACK OF SIDEWALKS, BIKE LANES, AND SHARED-USE PATHS FOR CONNECTIVITY
- TOLLING COSTS
- HOV LANES NOT BENEFICIAL
- TAX DOLLARS TOWARD NON-TOLLED PROJECTS
- LIGHT RAIL LACKS CONNECTIVITY
- TOURISM, THE PORT, AND GOVERNMENT/DEFENSE ARE KEY SECTORS FOR THE REGION

FEDERAL AND STATE PLANNING FACTORS

FEDERAL PLANNING FACTORS

- **SUPPORT THE ECONOMIC VITALITY OF THE METROPOLITAN AREA, ESPECIALLY BY ENABLING GLOBAL COMPETITIVENESS, PRODUCTIVITY, AND EFFICIENCY**
- **INCREASE THE SAFETY OF THE TRANSPORTATION SYSTEM FOR MOTORIZED AND NON-MOTORIZED USERS**
- **INCREASE THE SECURITY OF THE TRANSPORTATION SYSTEM FOR MOTORIZED AND NON-MOTORIZED USERS**
- **INCREASE THE ACCESSIBILITY AND MOBILITY OF PEOPLE AND FREIGHT**
- **PROTECT AND ENHANCE THE ENVIRONMENT, PROMOTE ENERGY CONSERVATION, IMPROVE THE QUALITY OF LIFE, AND PROMOTE CONSISTENCY BETWEEN TRANSPORTATION IMPROVEMENTS AND STATE AND LOCAL PLANNED GROWTH AND ECONOMIC DEVELOPMENT PATTERNS**
- **ENHANCE THE INTEGRATION AND CONNECTIVITY OF THE TRANSPORTATION SYSTEM, ACROSS AND BETWEEN MODES, FOR PEOPLE AND FREIGHT**
- **PROMOTE EFFICIENT SYSTEM MANAGEMENT AND OPERATION**
- **EMPHASIZE THE PRESERVATION OF THE EXISTING TRANSPORTATION SYSTEM**
- **IMPROVE THE RESILIENCY AND RELIABILITY OF THE TRANSPORTATION SYSTEM AND REDUCE OR MITIGATE STORMWATER IMPACTS OF SURFACE TRANSPORTATION**
- **ENHANCE TRAVEL AND TOURISM**

VTRANS2040 GUIDING PRINCIPLES

- **OPTIMIZE RETURN ON INVESTMENTS**
- **ENSURE SAFETY, SECURITY, AND RESILIENCY**
- **EFFICIENTLY DELIVER PROGRAMS**
- **CONSIDER OPERATIONAL IMPROVEMENTS AND DEMAND MANAGEMENT FIRST**
- **ENSURE TRANSPARENCY AND ACCOUNTABILITY, AND PROMOTE PERFORMANCE MANAGEMENT**
- **IMPROVE COORDINATION BETWEEN TRANSPORTATION AND LAND USE**
- **ENSURE EFFICIENT INTERMODAL CONNECTIONS**

VTRANS2040 GOALS

- **ECONOMIC COMPETITIVENESS AND PROSPERITY**
- **ACCESSIBLE AND CONNECTED PLACES**
- **SAFETY FOR ALL USERS**
- **PROACTIVE SYSTEM MANAGEMENT**
- **HEALTHY COMMUNITIES AND SUSTAINABLE TRANSPORTATION COMMUNITIES**

THE 2045 LONG-RANGE TRANSPORTATION
PLAN WILL USE INNOVATIVE
PLANNING TECHNIQUES TO ADVANCE AN
ADAPTIVE TRANSPORTATION SYSTEM THAT
SEAMLESSLY INTEGRATES TRANSPORTATION
MODES FOR ALL USERS WHILE IMPROVING
QUALITY OF LIFE AND PRESERVING THE
UNIQUE CHARACTER OF HAMPTON ROADS.

2045 LRTP GOALS AND OBJECTIVES

ECONOMIC VITALITY



- Support regional growth and productivity
- Support efficient freight movement
- Support accessibility for tourism

SAFETY AND SECURITY



- Increase safety with an adaptive transportation system for all users, including minimizing conflicts between motorized and non-motorized modes
- Ensure the security of the region's transportation infrastructure and its users

CONNECTIVITY AND ACCESSIBILITY



- Increase accessibility, connectivity and mobility of people and goods
- Provide a variety of transportation options that accommodates all users
- Increase the coordination of the transportation system, across and between modes, for people and goods
- Reduce delay and improve travel efficiency
- Improve connectivity and reliability between the Peninsula and Southside

SUSTAINABILITY - THE ENVIRONMENT, COMMUNITY, AND EQUITY



- Protect and enhance the environment, promote energy conservation, and improve the quality of life
- Promote compatibility between transportation improvements and planned land use and economic development patterns
- Minimize the environmental impact of future growth and transportation
- Improve the sustainability of communities through increased housing choice and reduced auto-dependency
- Ensure that mobility benefits positively affect low income residents
- Engage a diverse public in the development of the region's transportation system

EFFICIENCY, RESILIENCY, & INNOVATION



- Promote an efficient, reliable, and resilient regional transportation system
- Consider the impacts of technology on system demand and performance
- Make investments that improve flood resiliency
- Preserve and maintain the existing transportation system

FEDERAL/STATE/2045 LRTP GOALS MATRIX

The table below highlights the relationship between Federal, State, and Regional Transportation Planning Goals.

FAST Act Planning Factors	VTRANS Planning Goals	HRTPO 2045 LRTP Objectives
Economic Vitality		
Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency	Economic Competitiveness and Prosperity	Support regional growth and productivity
		Support efficient freight movement
Enhance travel and tourism		Support accessibility for tourism
Safety and Security		
Increase the safety of the transportation system for motorized and non-motorized users	Safety for All Users	Increase safety with an adaptive transportation system for all users, including minimizing conflicts between motorized and non-motorized modes
Increase the security of the transportation system for motorized and non-motorized users		Ensure the security of the region's transportation infrastructure and its users
Connectivity and Accessibility		
Increase the accessibility and mobility of people and freight	Accessible and Connected Places	Increase accessibility, connectivity and mobility of people and goods
		Provide a variety of transportation options that accommodates all users
Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight		Increase the coordination of the transportation system, across and between modes, for people and goods
		Reduce delay and improve travel efficiency
		Improve connectivity and reliability between the Peninsula and Southside
Sustainability - The Environment, Community, and Equity		
Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns	Healthy Communities and Sustainable Transportation Communities	Protect and enhance the environment, promote energy conservation, and improve the quality of life
		Promote compatibility between transportation improvements and planned land use and economic development patterns
		Minimize the environmental impact of future growth and transportation
		Improve the sustainability of communities through increased housing choice and reduced auto-dependency
		Ensure that mobility benefits positively affect low income residents
		Engage a diverse public in the development of the region's transportation system
Efficiency, Resiliency, & Innovation		
Promote efficient system management and operation	Proactive System Management	Promote an efficient, reliable, and resilient regional transportation system
Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation		Consider the impacts of technology on system demand and performance
		Make investments that improve flood resiliency
Emphasize the preservation of the existing transportation system		Preserve and maintain the existing transportation system

IDENTIFYING REGIONAL NEEDS

When identifying regional needs and developing transportation recommendations, it is essential to identify current and future transportation deficiencies that if improved, can help relieve congestion and/or improve safety, access, mobility, and connectivity, especially for underrepresented communities in the region. It is also important that candidate projects being evaluated for the LRTP are multimodal in nature and include suggestions for roadway, transit, and active transportation. By ensuring a balanced network, accessibility for all users improves.

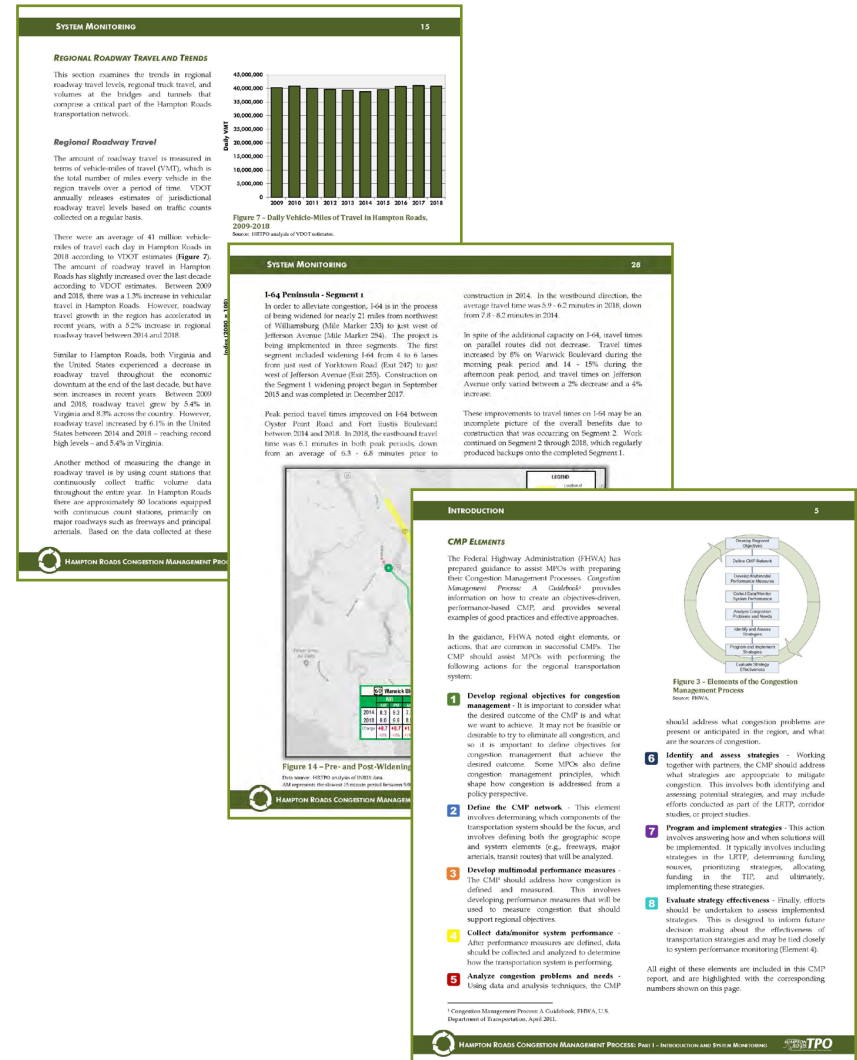
Furthermore, as the Hampton Roads region and the Port of Virginia continue to grow and place higher demands on the freight network, the condition and efficiency of freight movement in, out, and around the region will be a major contributor to the overall economic well-being of the area. Improvements on the region's major freight corridors will help facilitate the efficient movement of goods.

EXISTING CONDITIONS

As the MPO, the HRTPO develops and implements a **Congestion Management Process (CMP)** as an integrated part of the metropolitan transportation planning process. The Hampton Roads CMP is an on-going systematic process for managing congestion that provides information and analysis on multimodal transportation system performance and on strategies to alleviate congestion and enhance the mobility of persons and goods regionwide.

One of the primary components of the CMP is a comprehensive regional roadway congestion analysis of existing conditions, which identifies the most congested locations in the region. The CMP provides a thorough assessment of the roadway system in Hampton Roads for both the morning and afternoon peak periods, including levels and duration of congestion, total delay, travel time reliability, safety, and impacts to freight movement. The most congested corridors are ranked based on congestion and these other criteria. Finally, congestion mitigation strategies are identified and recommended for these congested locations. Among other HRTPO planning efforts, recommendations

from the CMP are considered when identifying candidate projects for the LRTP.



IDENTIFICATION OF CANDIDATE PROJECTS

Transportation improvements should be planned to improve critical connections between activity centers, provide alternative routing options, support additional travel modes, and help facilitate the efficient movement of goods into, out of, and around the region. To compile a broad list of regional needs to address these issues, in addition to examining the existing transportation network through the CMP and other regional planning efforts, coordination with stakeholders and the public is also essential. This outreach helps to ensure that the list of candidate projects being considered for inclusion in the 2045 LRTP is comprehensive and diverse.

To help guide the overall LRTP project selection process, a framework was developed outlining the collection of candidate projects, identification of committed projects, project screens, project evaluation, and fiscal constraint.

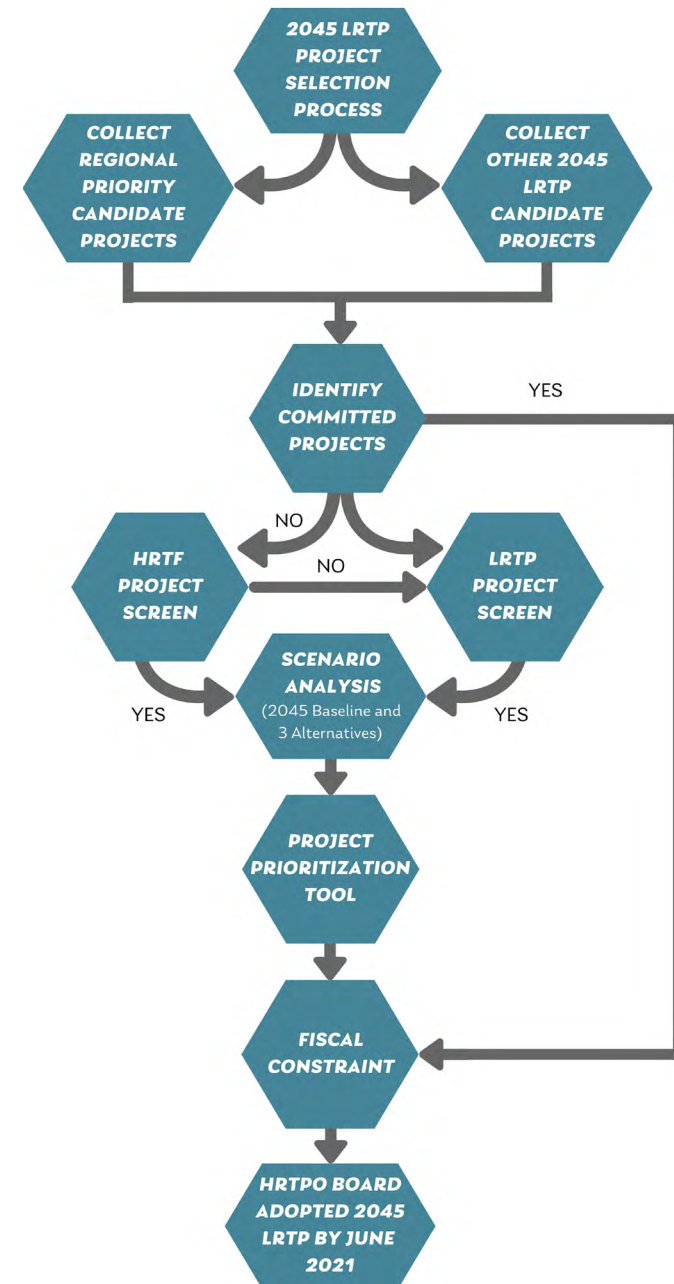
Collection of Candidate Projects

In order to determine the best alternatives to effectively address future regional needs, a draft list of candidate projects was developed, using various sources including:

- ➔ 2040 LRTP
- ➔ Regional Vision Plan
- ➔ HRTPO Planning Efforts (Congestion Management Process, Safety, Freight, etc.)
- ➔ Locality and regional stakeholder input received from HRTPO advisory and technical committees
- ➔ Public input received via web-based public survey

Through this process, 525 potential candidate projects were collected for consideration in the 2045 LRTP.

LRTP Project Selection Process



LRTP SCREENING PROCESS

Identification of Committed Projects

For the purposes of the LRTP, Committed Projects are defined as fully-funded transportation projects programmed for construction in the current Six-Year Improvement Program (SYIP). Committed Projects are generally either under construction or scheduled for construction in the near future. Because of their fully funded status, Committed Projects are not subject to Project Prioritization and are automatically included in the LRTP.

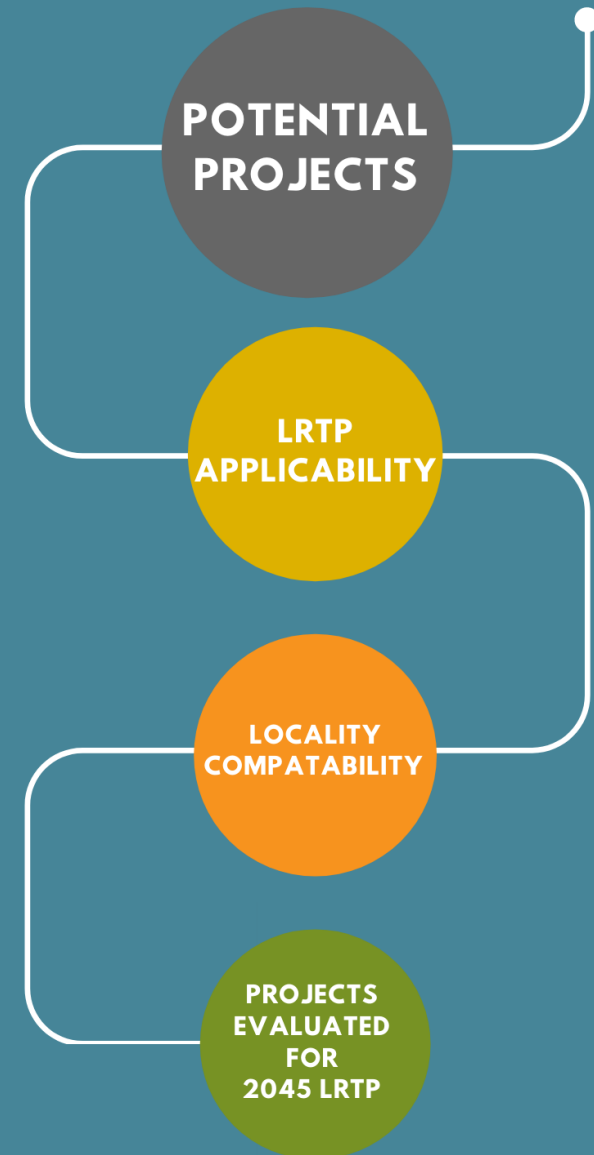
LRTP Screening Process

In coordination with the LRTP Subcommittee, a two-part screening process was applied to ensure potential candidate projects were applicable for inclusion in the LRTP and were compatible with local Comprehensive Plans.

For the LRTP Applicability screen, HRTPO staff reviewed candidate project submissions through a regional significance lens. Projects deemed regionally significant are required to be included in the LRTP; however, smaller scoped projects (such as turn lanes, signal improvements, intersection projects, etc.) do not have to be individually listed in the Plan and are thus considered to be consistent with the LRTP. HRTPO staff also checked for sufficient project information to ensure candidate projects could be properly evaluated and looked for duplication/overlap with other candidate project submissions.

For the Locality Compatibility screen, LRTP Subcommittee members reviewed candidate project submissions to ensure project suggestions are compatible with local Comprehensive Plans.

After applying the LRTP project screening process, approximately 300 multimodal candidate projects remain to be evaluated for inclusion in the 2045 LRTP.



Public Comments

The draft list of candidate projects was made available for public review and comment between January 16, 2020 and February 14, 2020. To assist in obtaining the public's feedback, a short survey was posted on the HRTPO website asking respondents if they think the candidate projects will:

- Provide congestion relief
- Lead to greater connectivity
- If there are any other major candidate projects missing from the list

Public comments were received from the Southern Environmental Law Center (SELC). In addition to HRTPO staff responding directly to concerns expressed by SELC, their comments were also presented to the LRTP Subcommittee at its March 4, 2020 Meeting. Based on feedback received at that meeting, the 2045 LRTP Candidate Project list was modified.

The comments submitted by SELC and the associated responses can be found in **APPENDIX B.**

HRTPO Board Approval

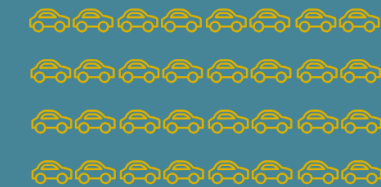
After extensive stakeholder review, the HRTPO Board, at its February 20, 2020 meeting, approved the 2045 Long-Range Transportation Plan Candidate Projects list.

The full list of 2045 LRTP Committed and Candidate Projects can be found in **APPENDIX C.** As projects are evaluated and data is collected, candidate projects may be modified (e.g. termini or scope changed), added, or removed as necessary to complete the 2045 LRTP.

2045 LRTP CANDIDATE PROJECTS

ROADWAY CANDIDATE PROJECTS

HIGHWAY



163



INTERCHANGE



28

BRIDGE/TUNNEL



9

INTERMODAL



7

TRANSIT CANDIDATE PROJECTS



19

ACTIVE TRANSPORTATION CANDIDATE PROJECTS



56

TOTAL CANDIDATE PROJECTS

282

CANDIDATE PROJECTS TOTAL ESTIMATE: \$70 BILLION

ACTIVE
TRANSPORTATION
CANDIDATE
PROJECTS COST
ESTIMATES

\$600 MILLION

1%

TRANSIT
CANDIDATE
PROJECTS COST
ESTIMATES

\$20 BILLION

28%



ROADWAY
CANDIDATE
PROJECTS COST
ESTIMATES

\$50 BILLION

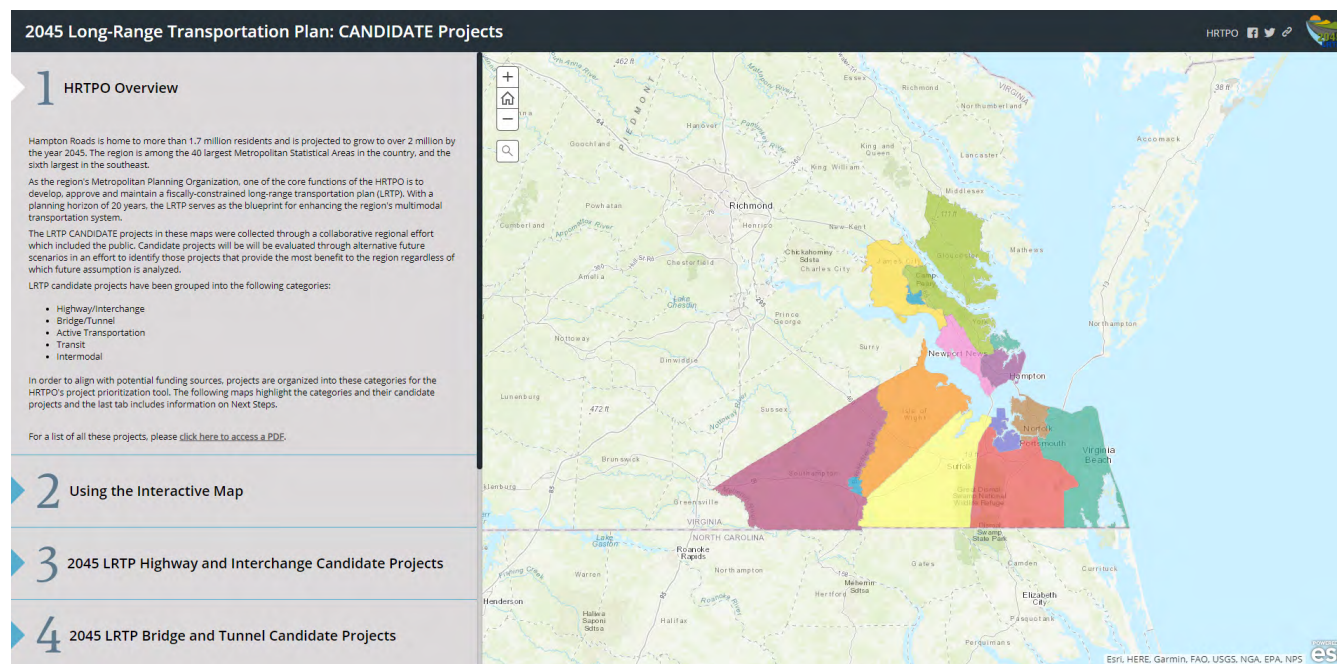
71%

2045 LRTP CANDIDATE PROJECTS

Of the approximate 300 candidate projects being considered for inclusion in the 2045 LRTP, roadway candidate projects comprise much of the list – not surprising since it is the most heavily used transportation mode in the region. However, feedback from the public and other stakeholders indicates a great demand for enhanced transit, bicycle, and pedestrian facilities, as well as an improved freight network to support regional and statewide economic initiatives. Therefore, it is important to note that improvements to the roadway network can also benefit future transit opportunities, freight movement, and where safely possible, active transportation facilities that enhances the movement of non-driving modes.

The 2045 LRTP Candidate Projects, totaling approximately \$70 Billion, include project suggestions that increase roadway capacity, expand bridges and tunnels, improve interchange design and flow, enhance public transportation options, expand active transportation infrastructure, and provide for A summary of the 2045 LRTP Candidate Projects by mode can be found on the following page.

Maps of the 2045 LRTP Candidate Projects are on pages 17-21, categorized by transportation mode. To view an online version, click on the map below.





207 ROADWAY CANDIDATE PROJECTS

As growth occurs and travel demand continues to increase, roadway improvements are needed to manage traffic congestion, improve safety, and enhance the movement of goods in the region. Candidate project suggestions include new/expanded bridges and tunnels, new river crossings, new/improved interchanges, additional roadway capacity, improved freight corridors, new access to port facilities, and removing bottlenecks such as at-grade intersections.



19 TRANSIT CANDIDATE PROJECTS

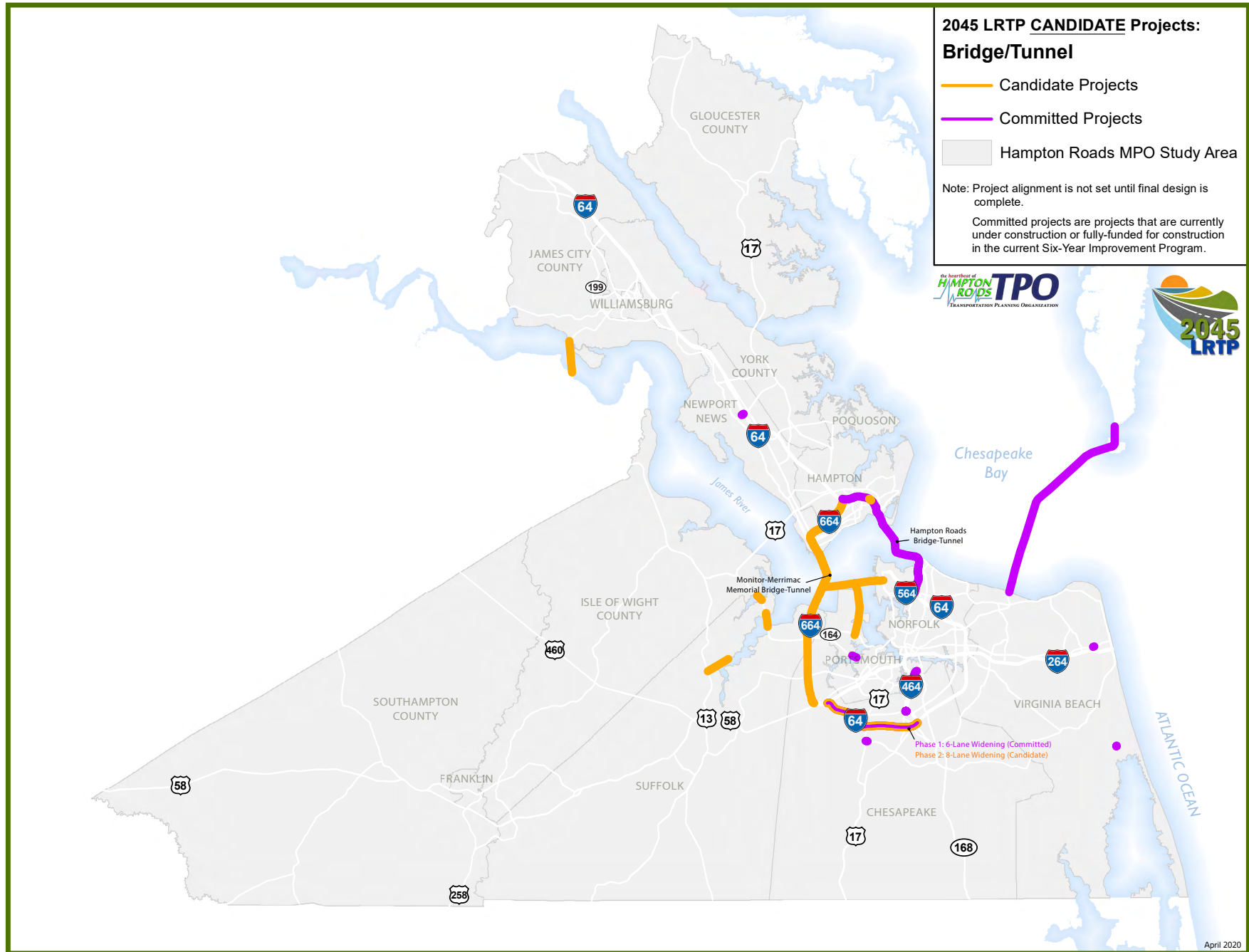
Public Transit is all forms of shared transportation that are available to the public. In Hampton Roads, this includes bus, light rail, ferry, and paratransit (for travelers with special needs). Improving transit in the region is a key concern of many of our survey respondents. Several suggestions for expanded transit service include fixed-guideway, ferry, and rail commuting connections. While not all these projects can be properly evaluated at this time using the region's Project Prioritization Tool due to lack of project information, the interest from residents is noted and may initiate specific regional studies for transit expansion. HRTPO staff also proposes focusing investment on a "public transit backbone"—providing higher frequency, service hours consistent across city limits, and shelters at warranted stops—on a limited set of primary routes running where public transit is most needed.



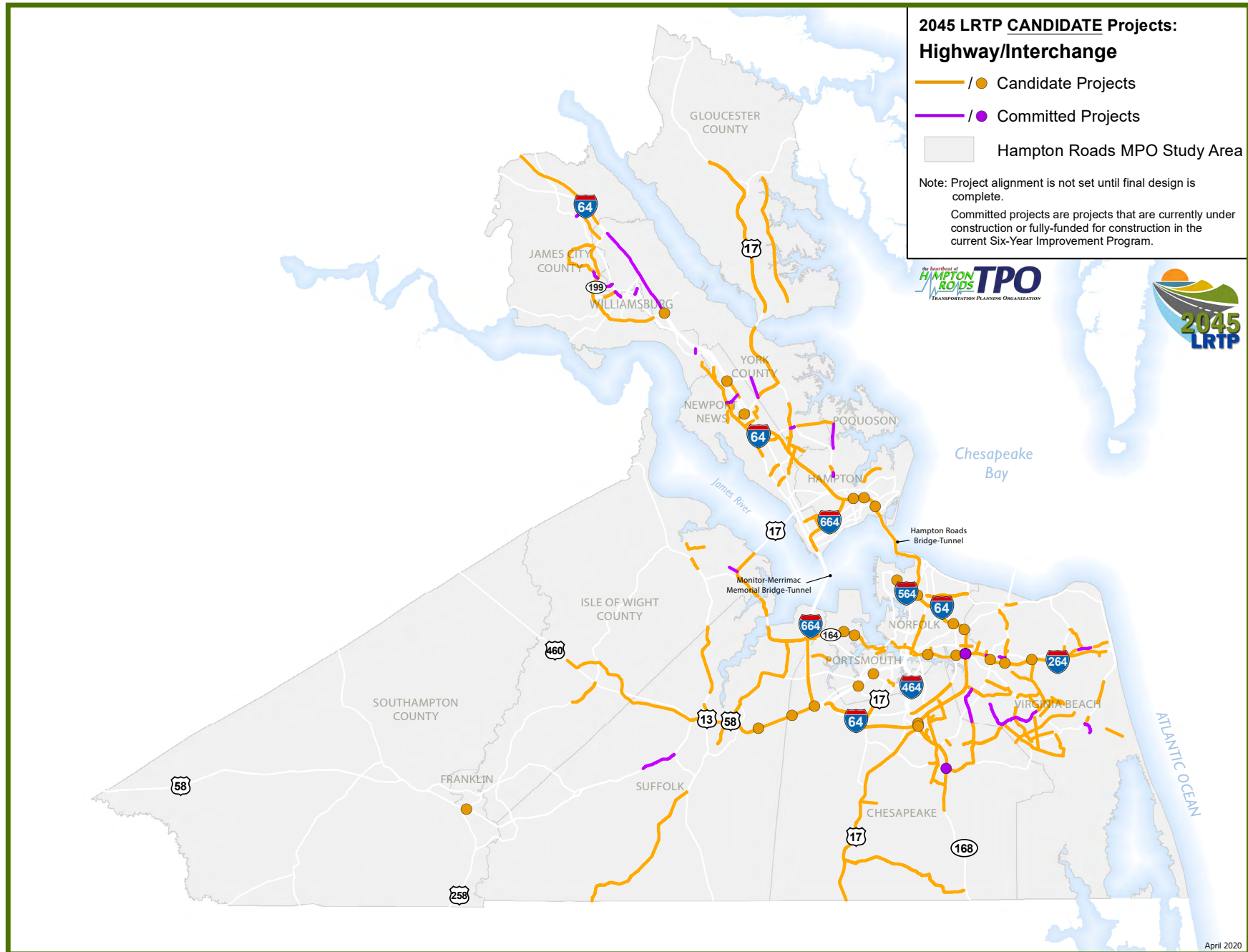
56 ACTIVE TRANSPORTATION CANDIDATE PROJECTS

Enhancing the regional active transportation network in the region is also a key concern of many survey respondents. Suggestions for projects include regional trails, multi-use shared paths, and bike lanes. In addition to the LRTP planning process, the HRTPO has been working to create better walking and bicycling connections for many years. In March 2020, the HRTPO Board approved Linking Hampton Roads: A Regional Active Transportation Plan for the region. This plan represents a multiyear effort to provide a clear structure for the development of new facilities, programs, and policies that will link our region with better active transportation facilities and promote active and healthy lifestyles throughout Hampton Roads.

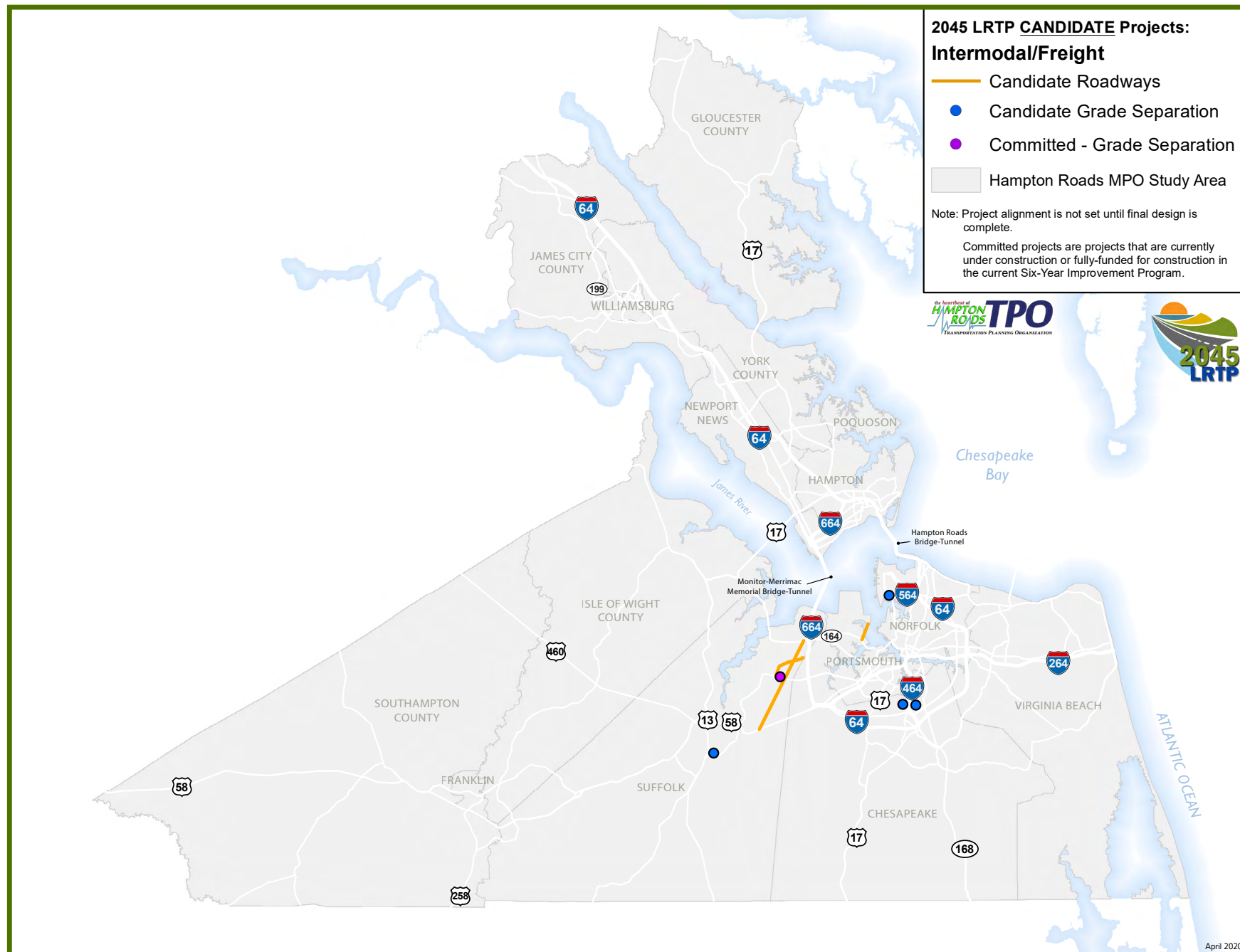
2045 LRTP CANDIDATE PROJECT MAPS



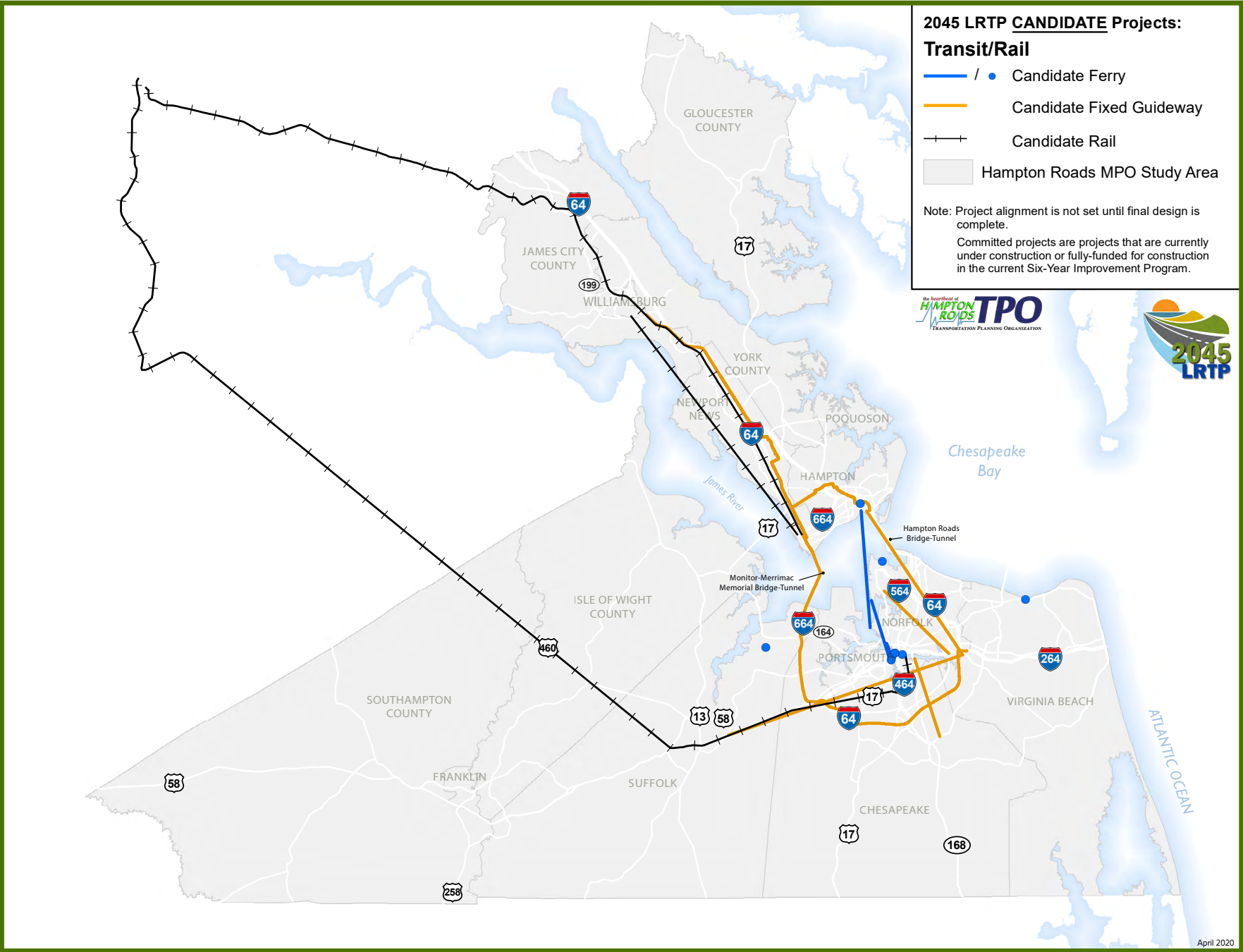
2045 LRTP CANDIDATE PROJECT MAPS



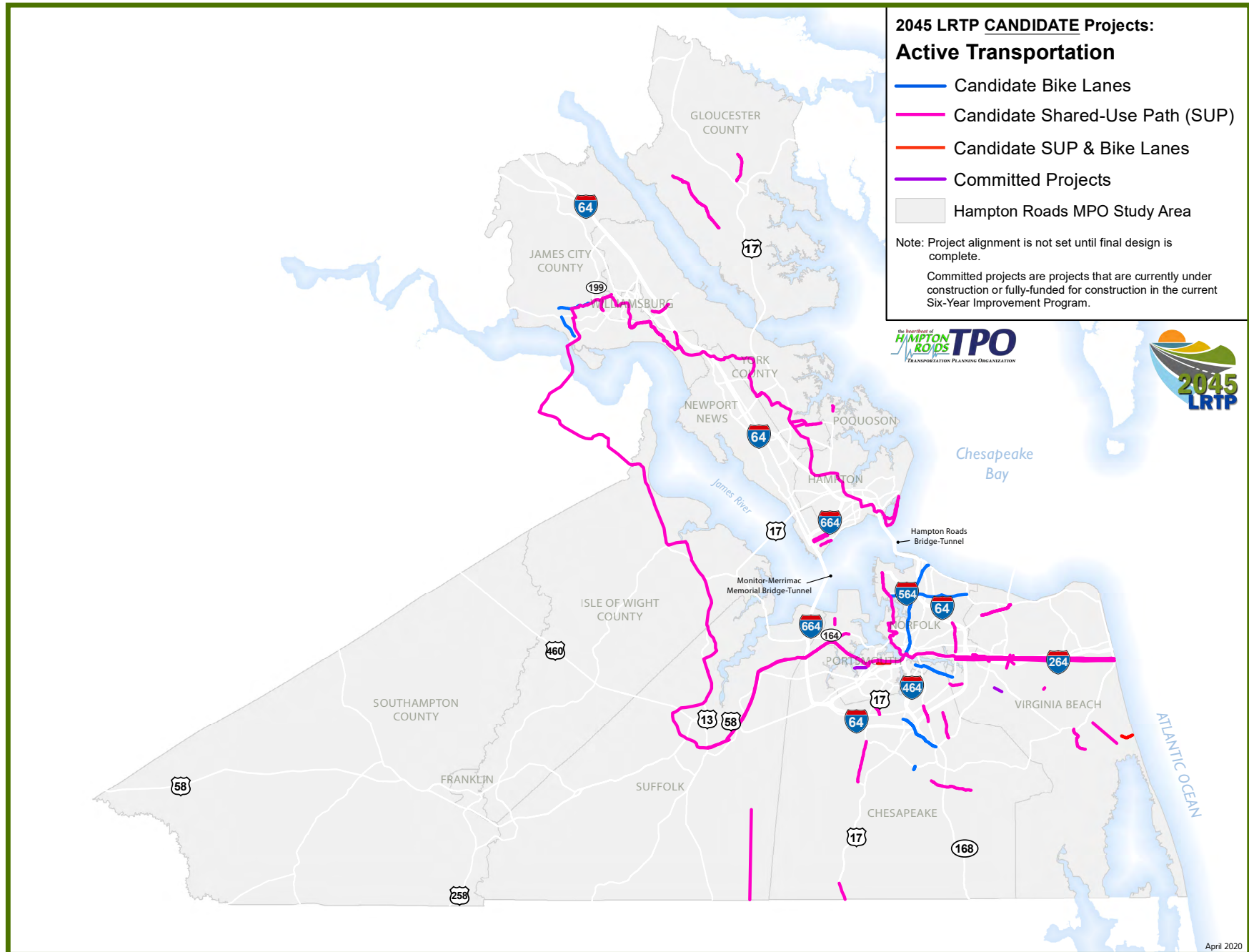
2045 LRTP CANDIDATE PROJECT MAPS



2045 LRTP CANDIDATE PROJECT MAPS



2045 LRTP CANDIDATE PROJECT MAPS



CANDIDATE PROJECT ANALYSIS

HRTPO staff uses the regional Project Prioritization Tool to evaluate and score candidate projects being considered for inclusion in the LRTP. As mentioned earlier in this report, the HRTPO Project Prioritization Tool was developed to assist regional decision-makers in prioritizing transportation projects based on technical merits and regional benefits. Using objective, data-driven measures, the Tool produces scores for Project Utility (project effectiveness), Economic Vitality (potential for economic gain), and Project Viability (project readiness and sustainability).

The evaluation of candidate projects by the Project Prioritization Tool for each alternative scenario will be described in depth in a future report. This section describes some of the preliminary analysis developed using the regional travel demand model and spatial overlay analyses.

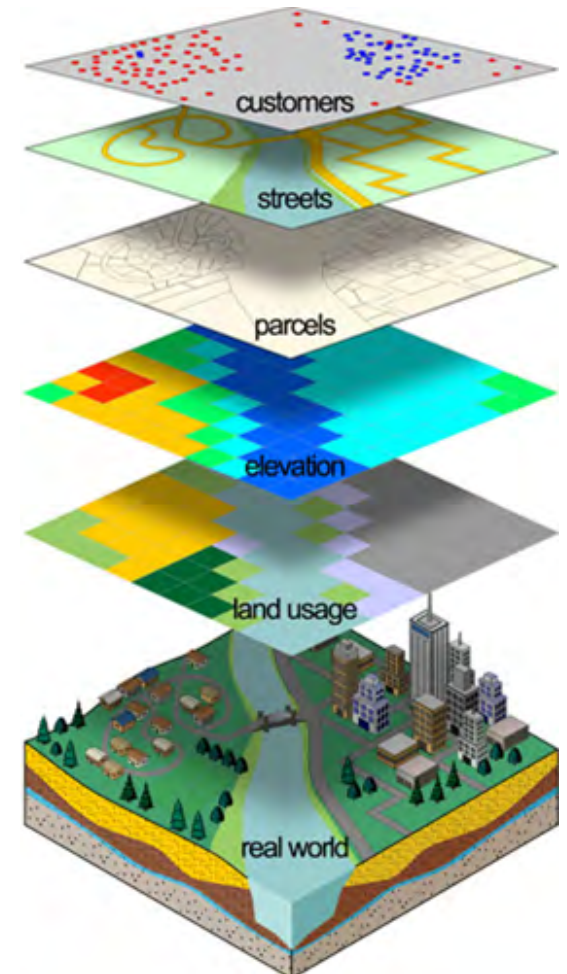
FORECASTED CONDITIONS

Candidate projects are evaluated using the regional travel demand model, a computer-based planning tool designed to simulate travel. This analysis allows planners to see how travel might look in the region if improvements to the regional infrastructure are not made, thereby highlighting where future deficiencies might occur.

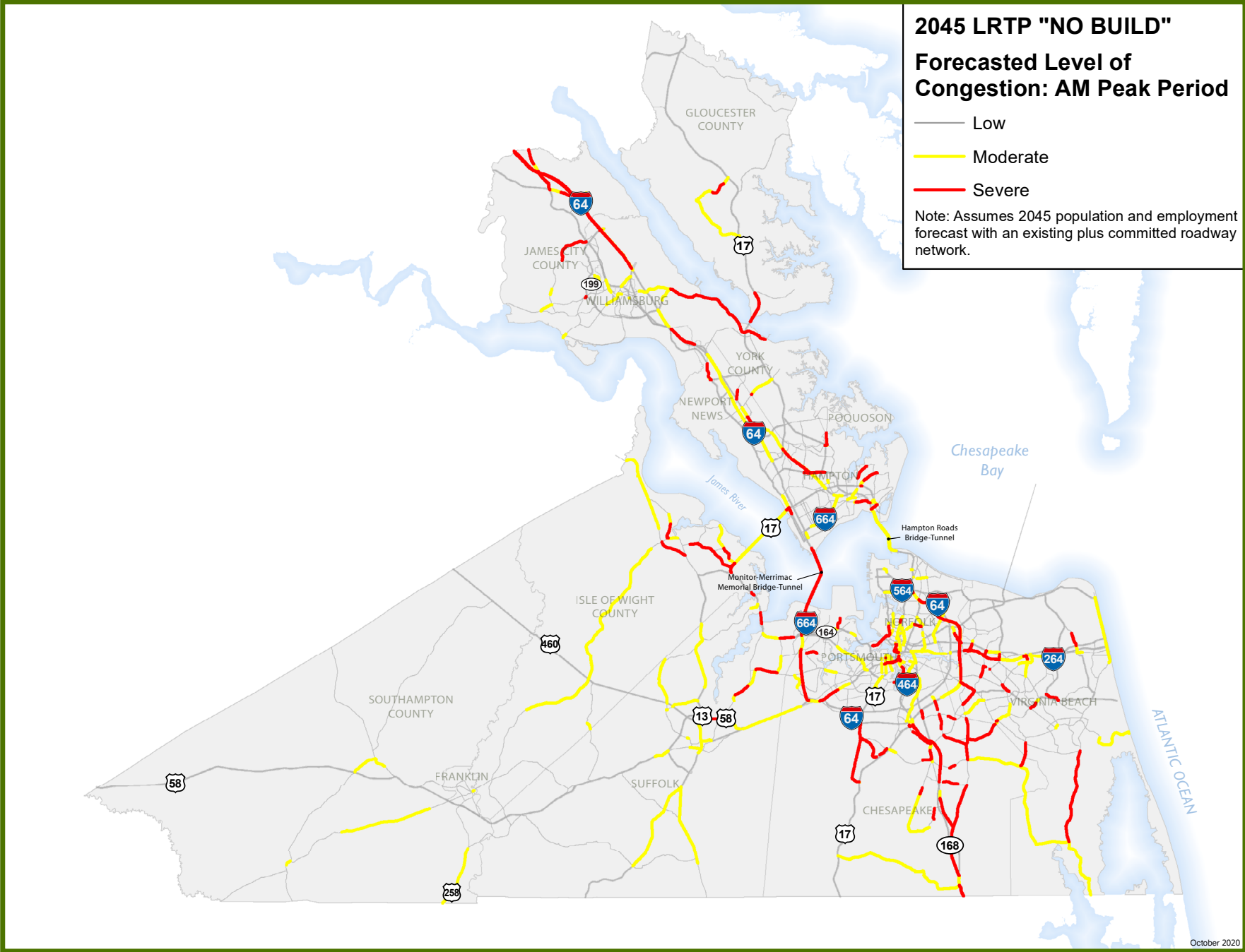
To accomplish this task, a “No-Build” highway network is created including only an Existing and Committed transportation network. Next, the travel demand model uses the 2045 Socioeconomic Forecast (for the 2045 baseline and three additional Greater Growth scenarios) to place where people are projected to live and work in the year 2045. These inputs help to identify which roads will be near or over capacity by 2045. This forecasted congestion data along with other model outputs will be input data into the scenario planning evaluation and project prioritization process.

SPATIAL OVERLAY ANALYSIS

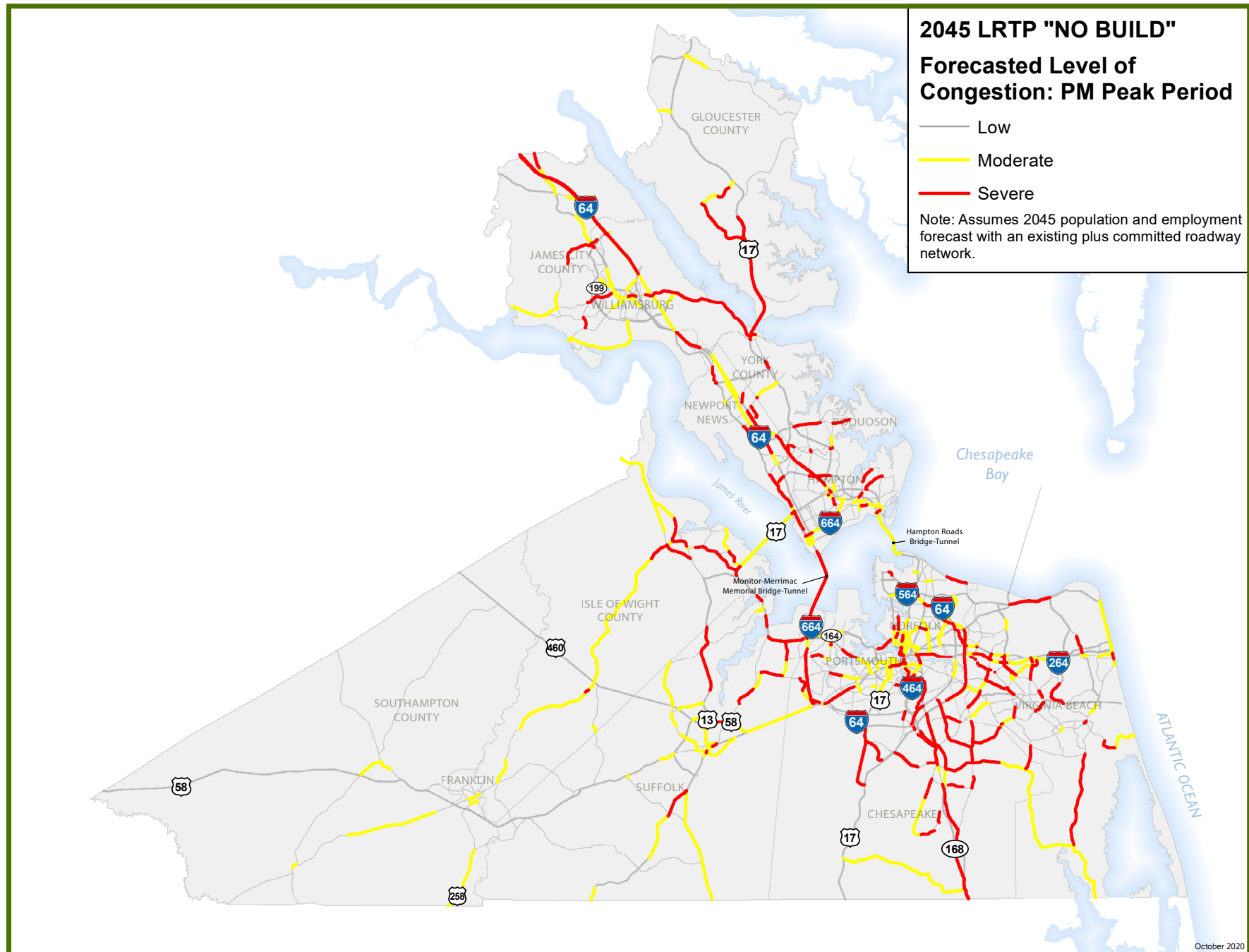
For the proximity, accessibility, and potential impact measures of the HRTPO Project Prioritization Tool, an overlay analysis using Geographic Information Systems (GIS) was employed. GIS is a framework for gathering, managing, and analyzing spatial data. Overlay analysis integrates spatial data (location, size, and shape) with information about the environment (e.g., land use, density, demographics, natural resources, etc.) to help assess potential benefits and/or impacts. Results from the overlay analysis will be input into the Project Prioritization Tool.



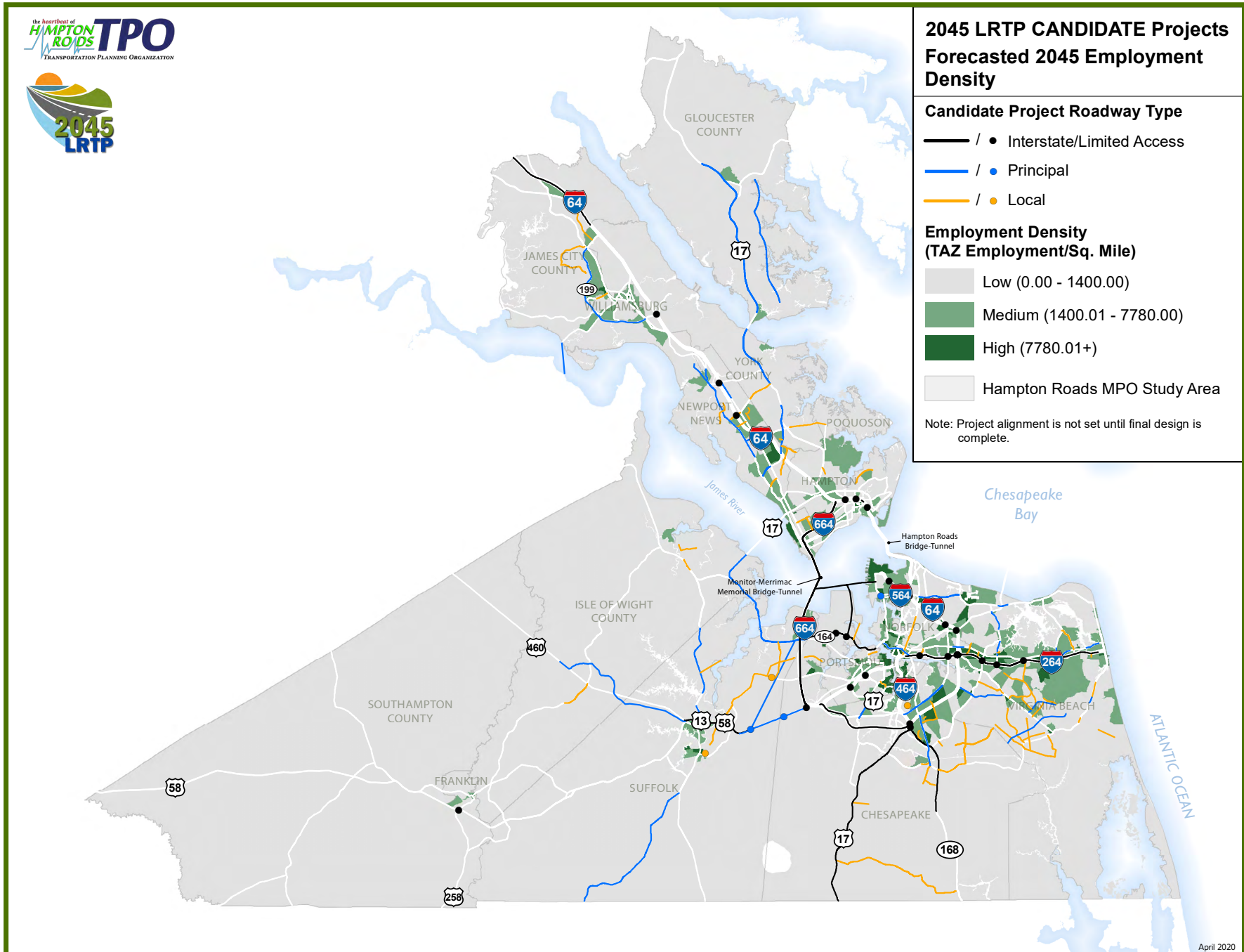
2045 LRTP NO BUILD FORECASTED LEVEL OF CONGESTION: AM PEAK PERIOD MAP



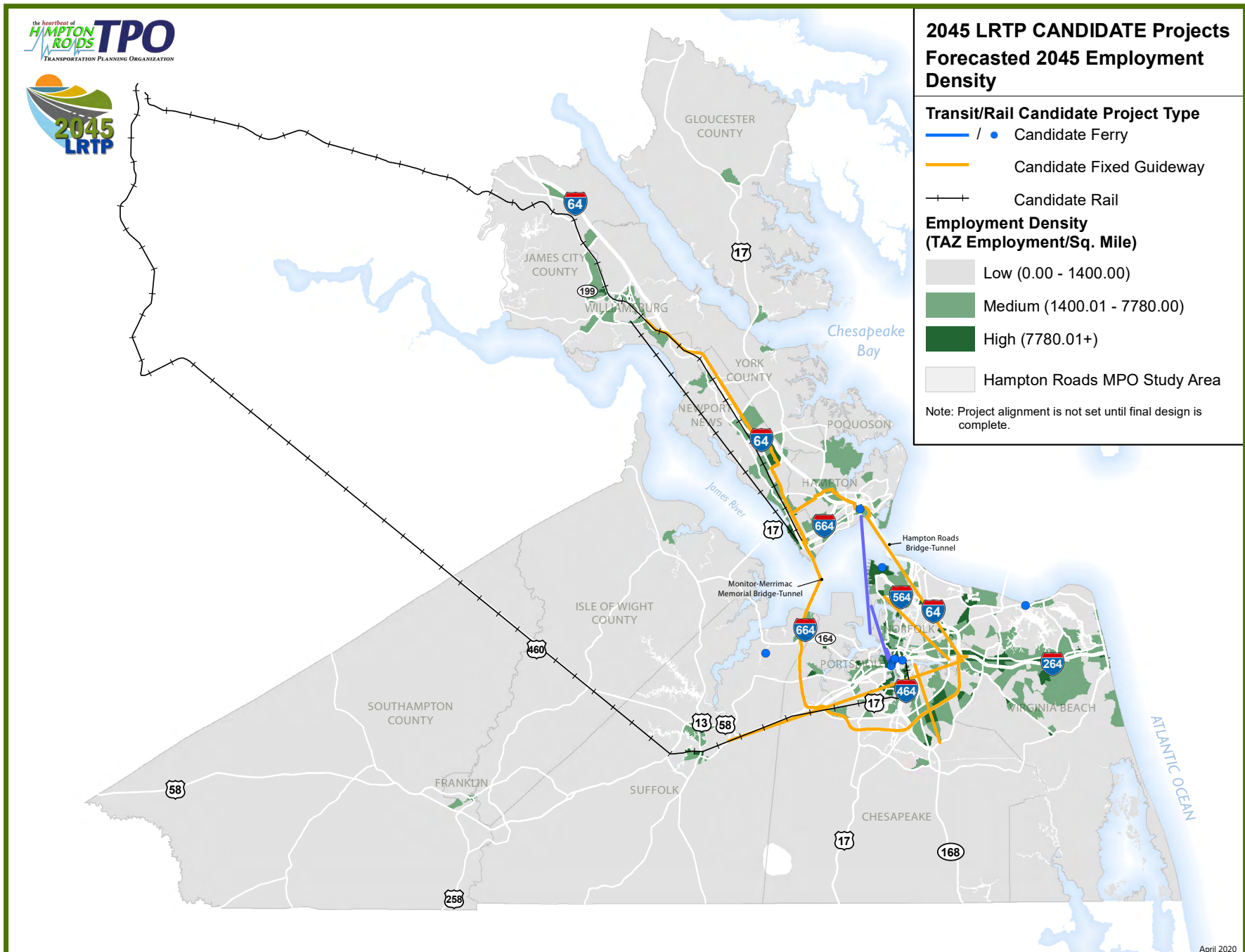
2045 LRTP NO BUILD FORECASTED LEVEL OF CONGESTION: PM PEAK PERIOD MAP



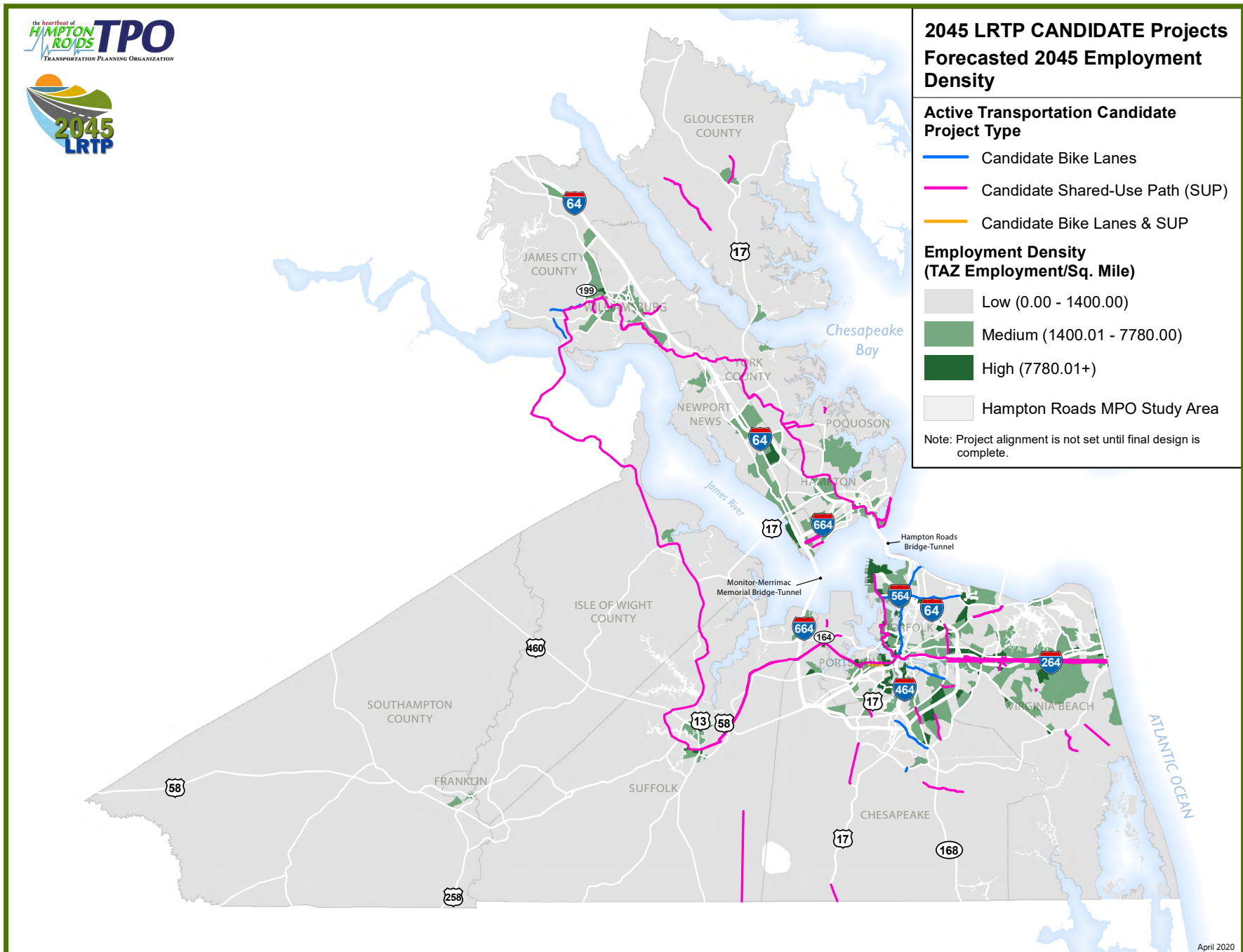
2045 LRTP SPATIAL OVERLAY MAPS



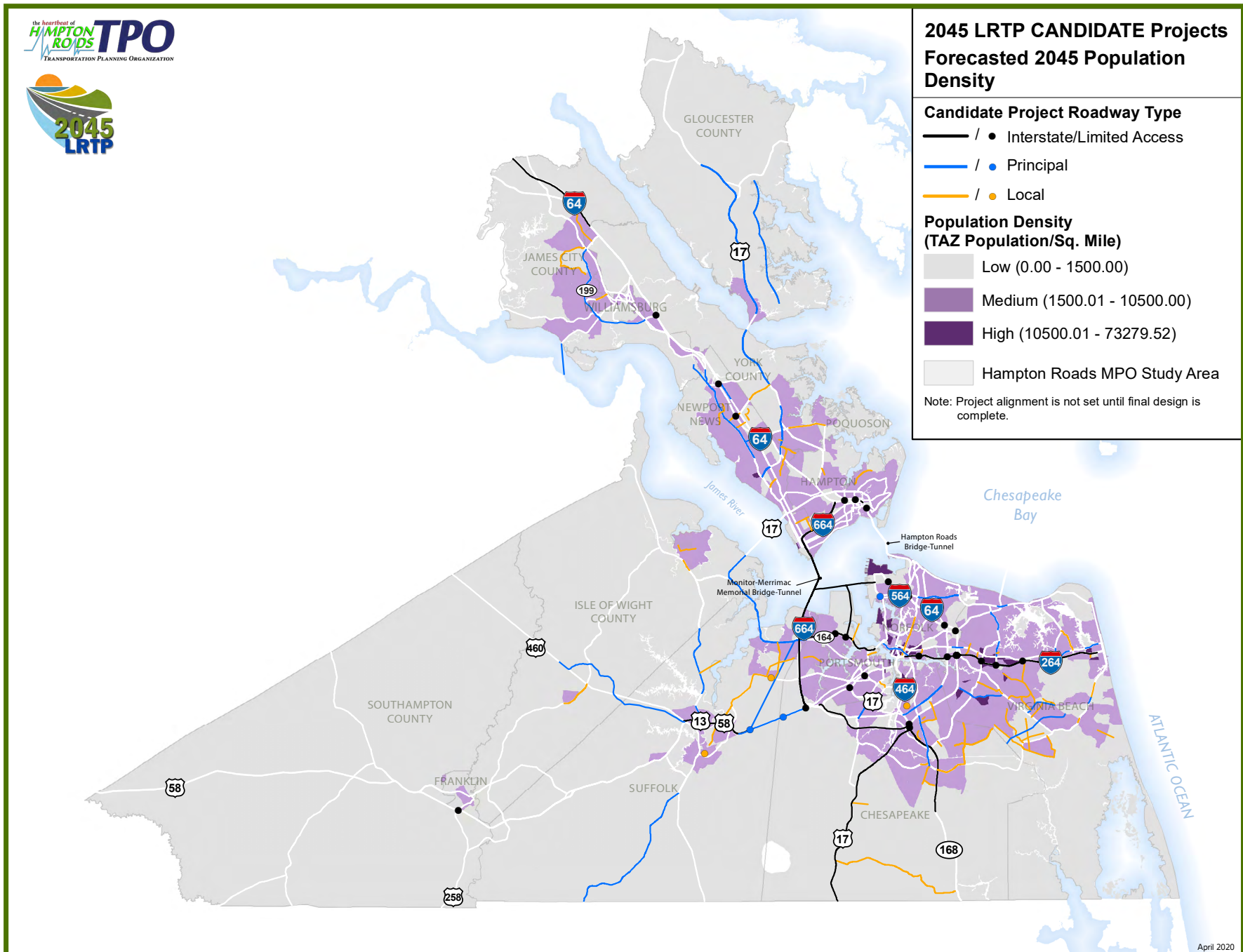
2045 LRTP SPATIAL OVERLAY MAPS



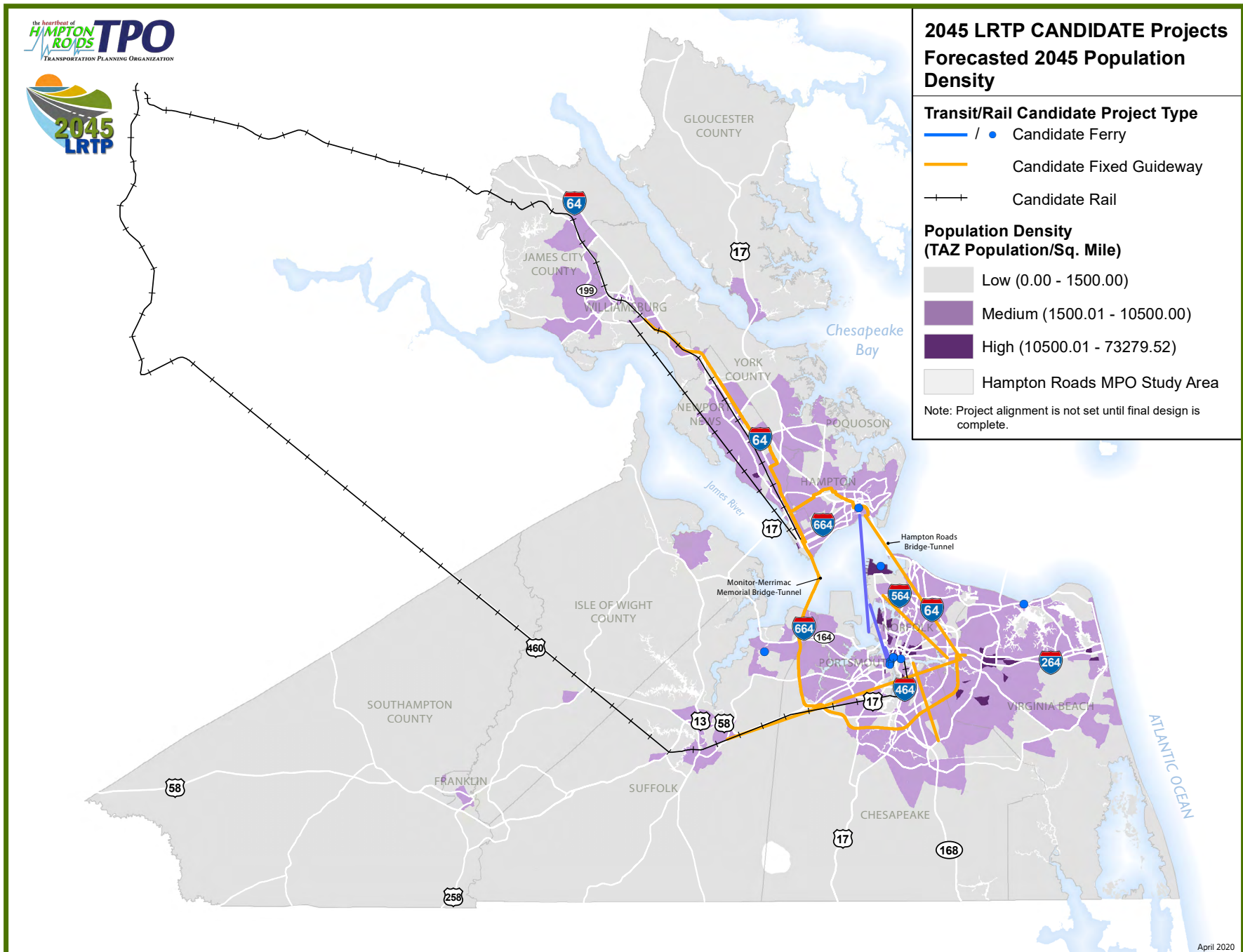
2045 LRTP SPATIAL OVERLAY MAPS



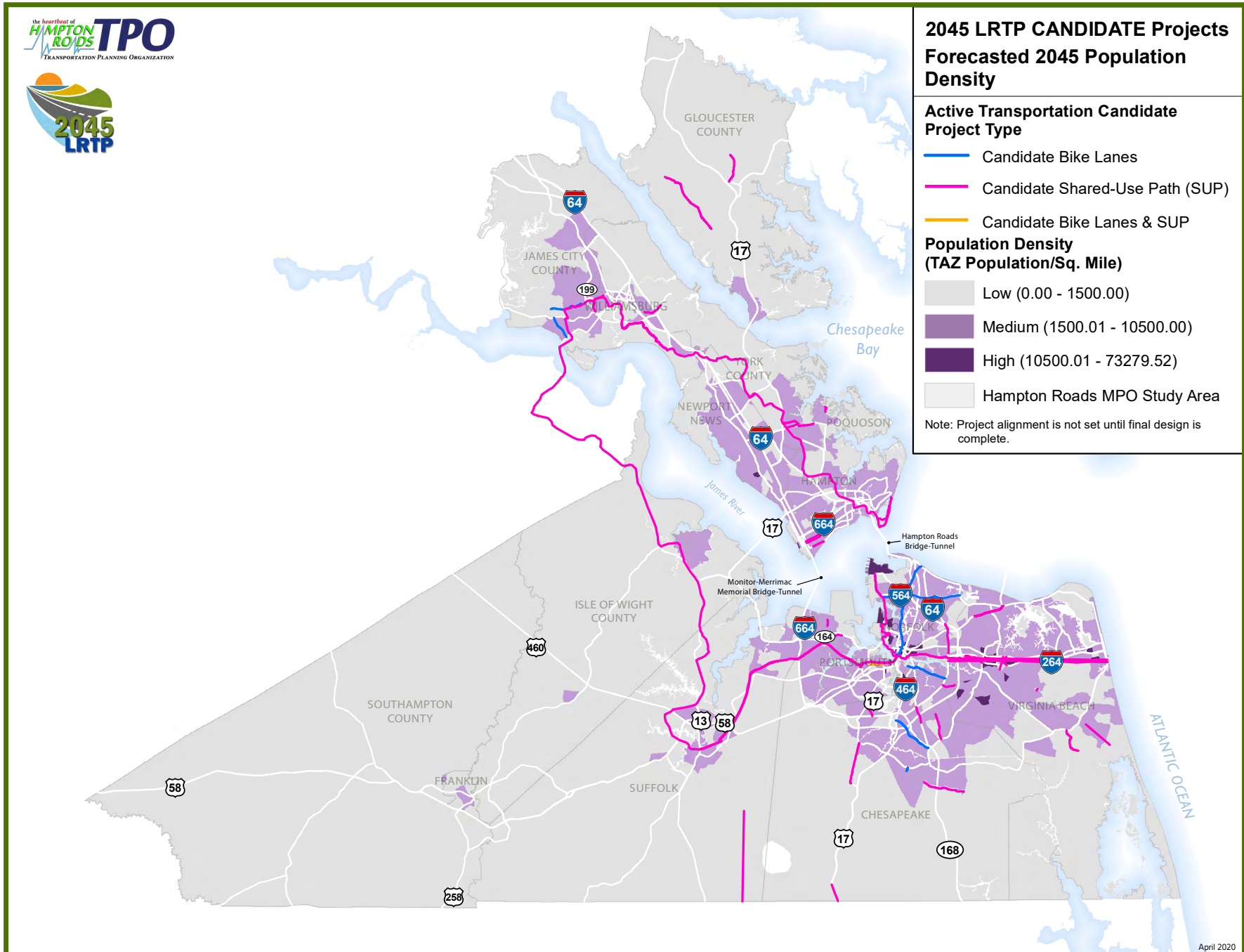
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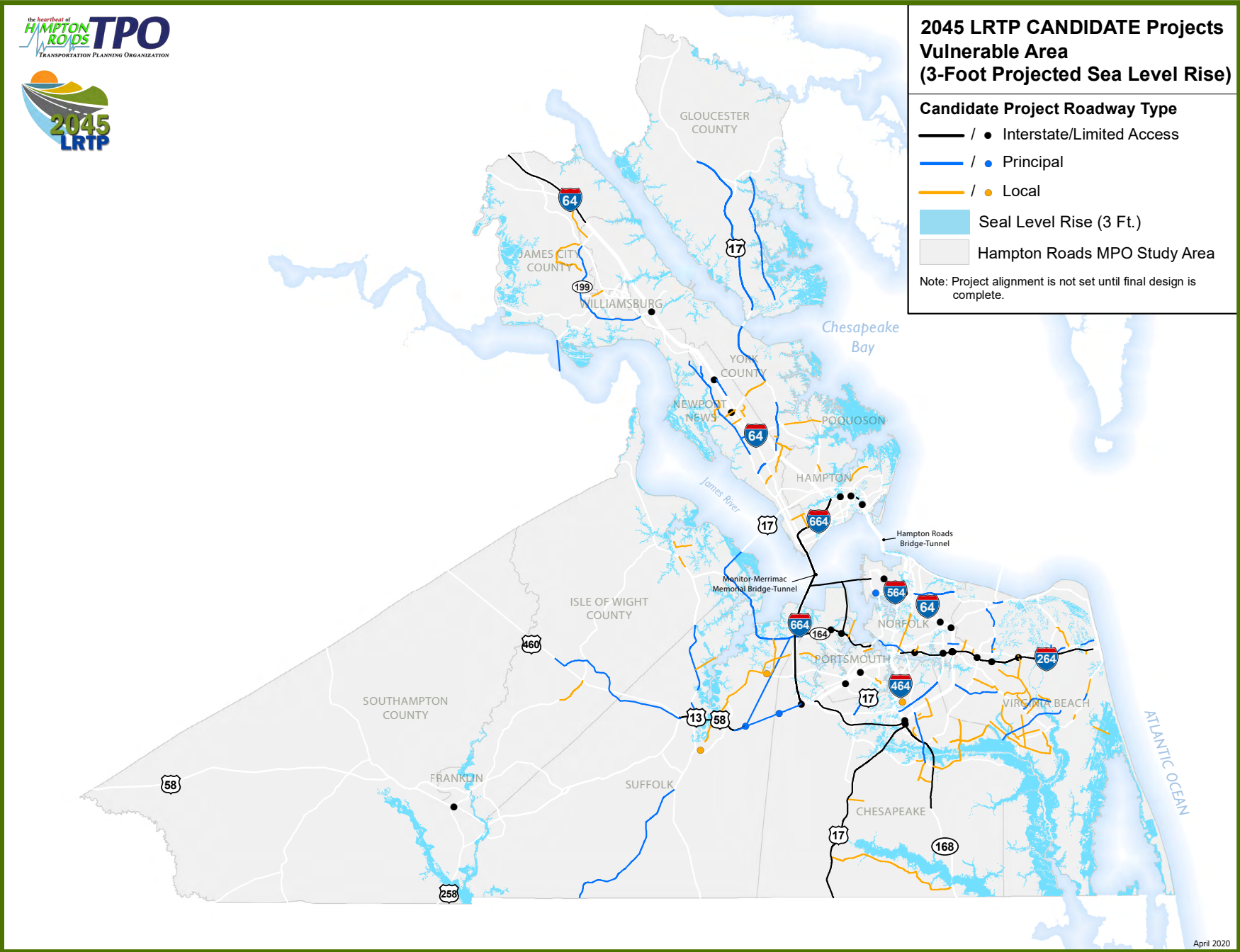
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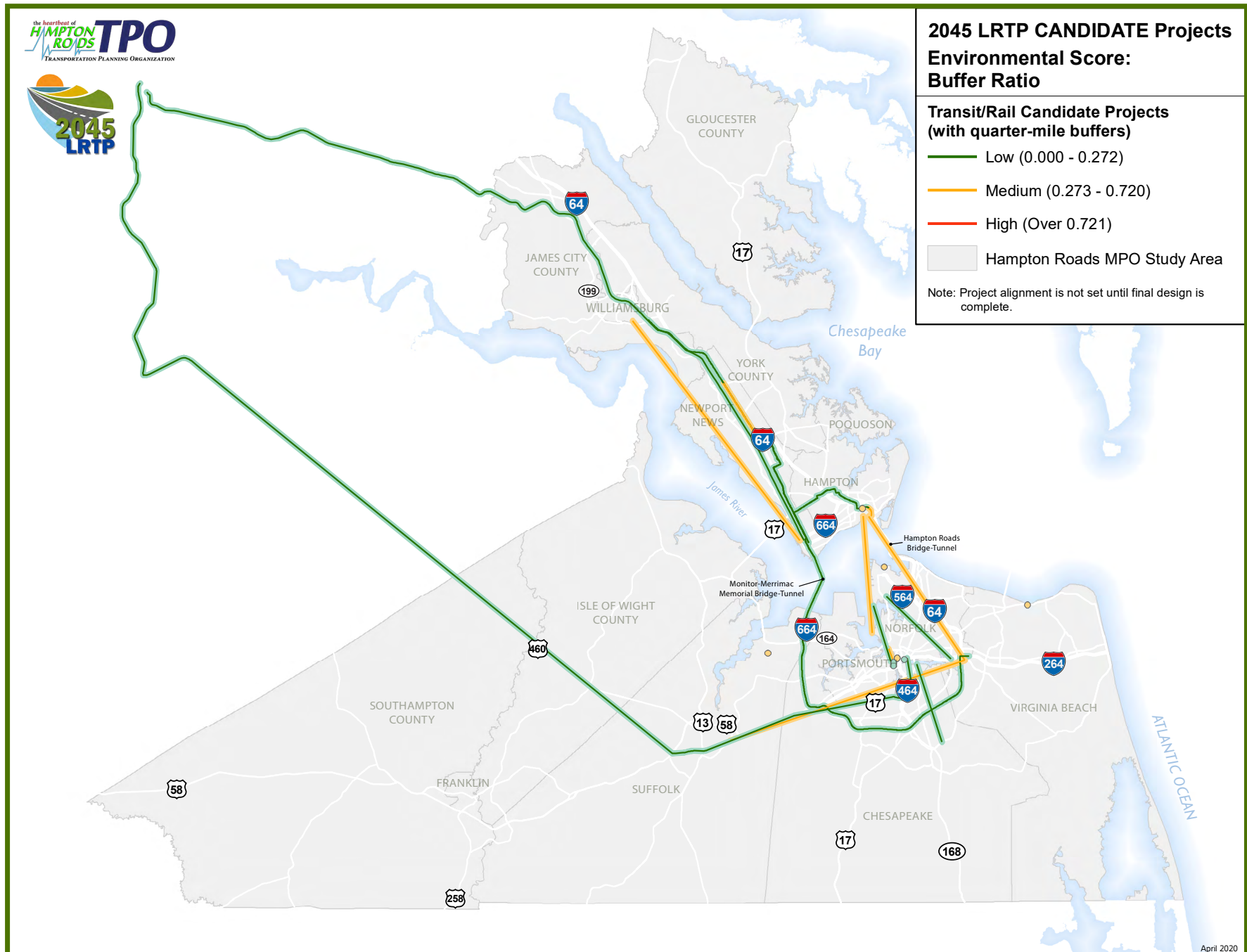
2045 LRTP SPATIAL OVERLAY MAPS



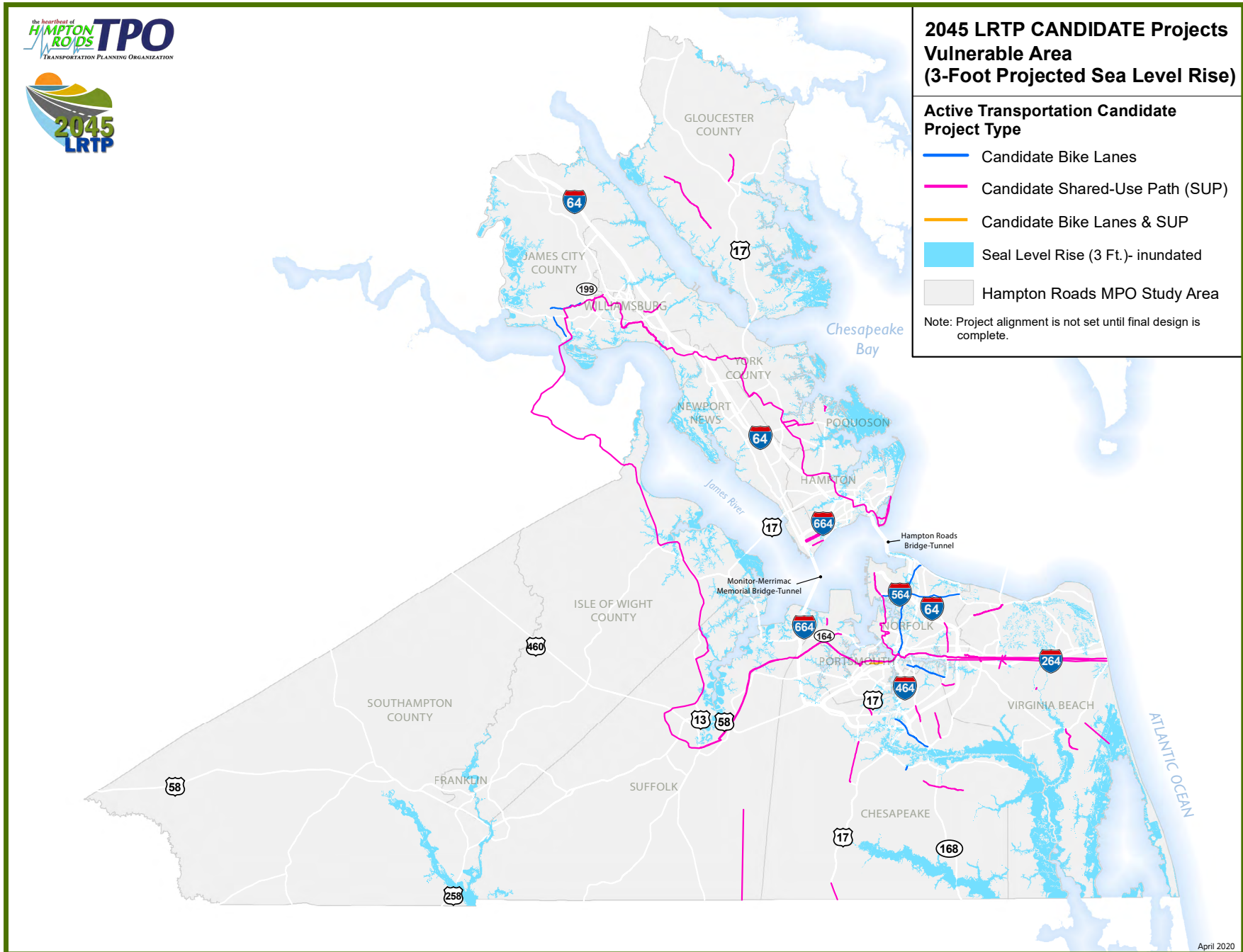
2045 LRTP SPATIAL OVERLAY MAPS



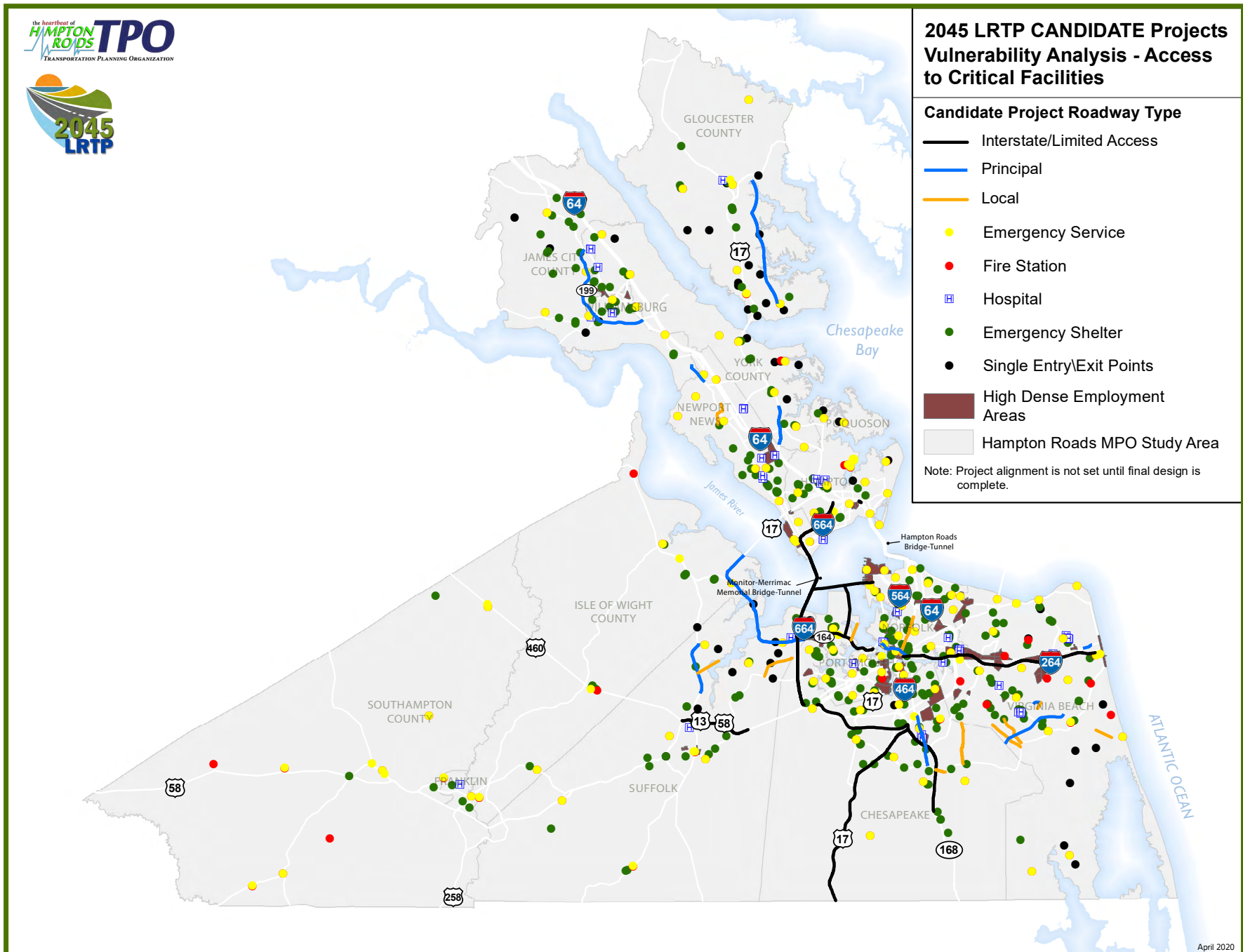
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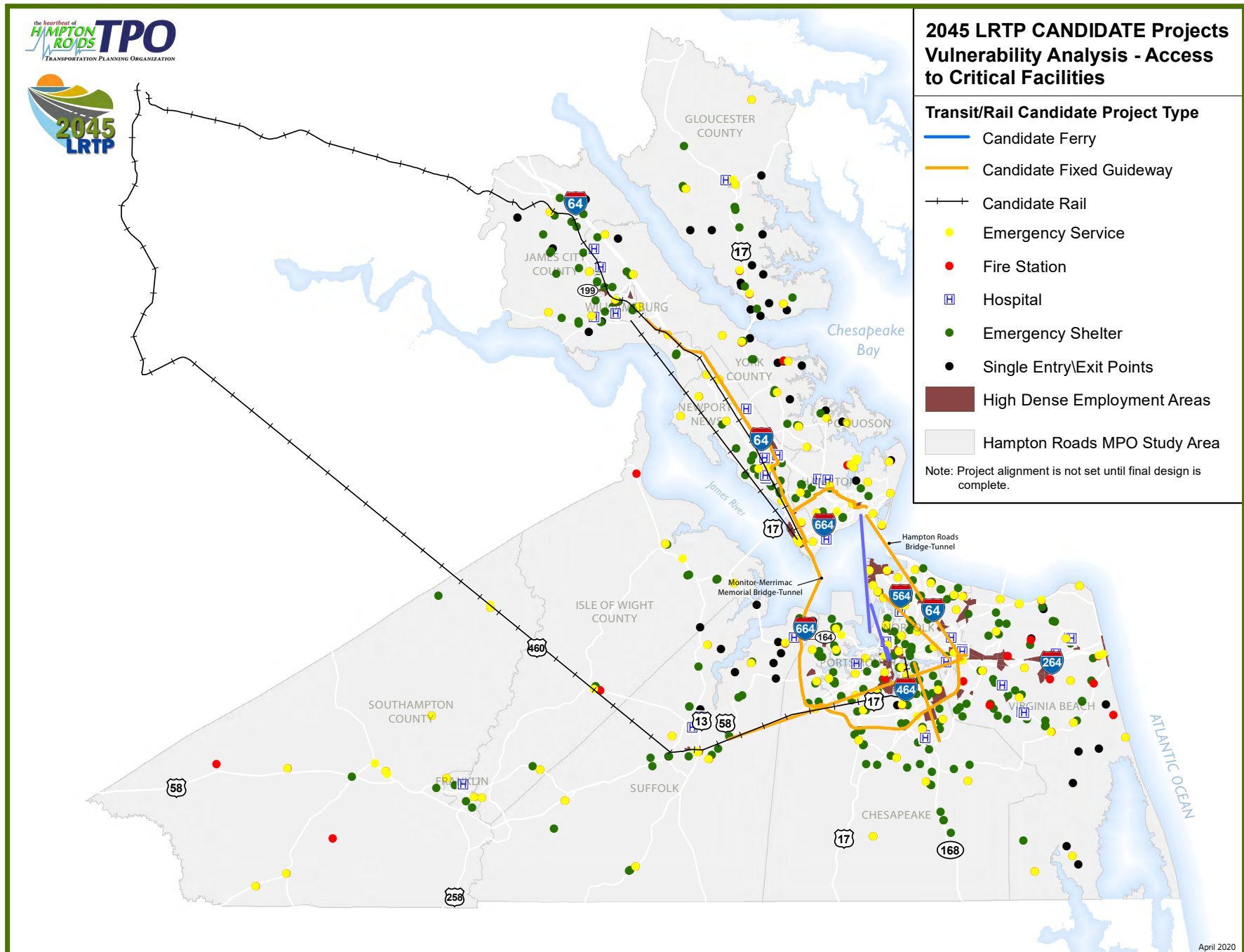
2045 LRTP SPATIAL OVERLAY MAPS



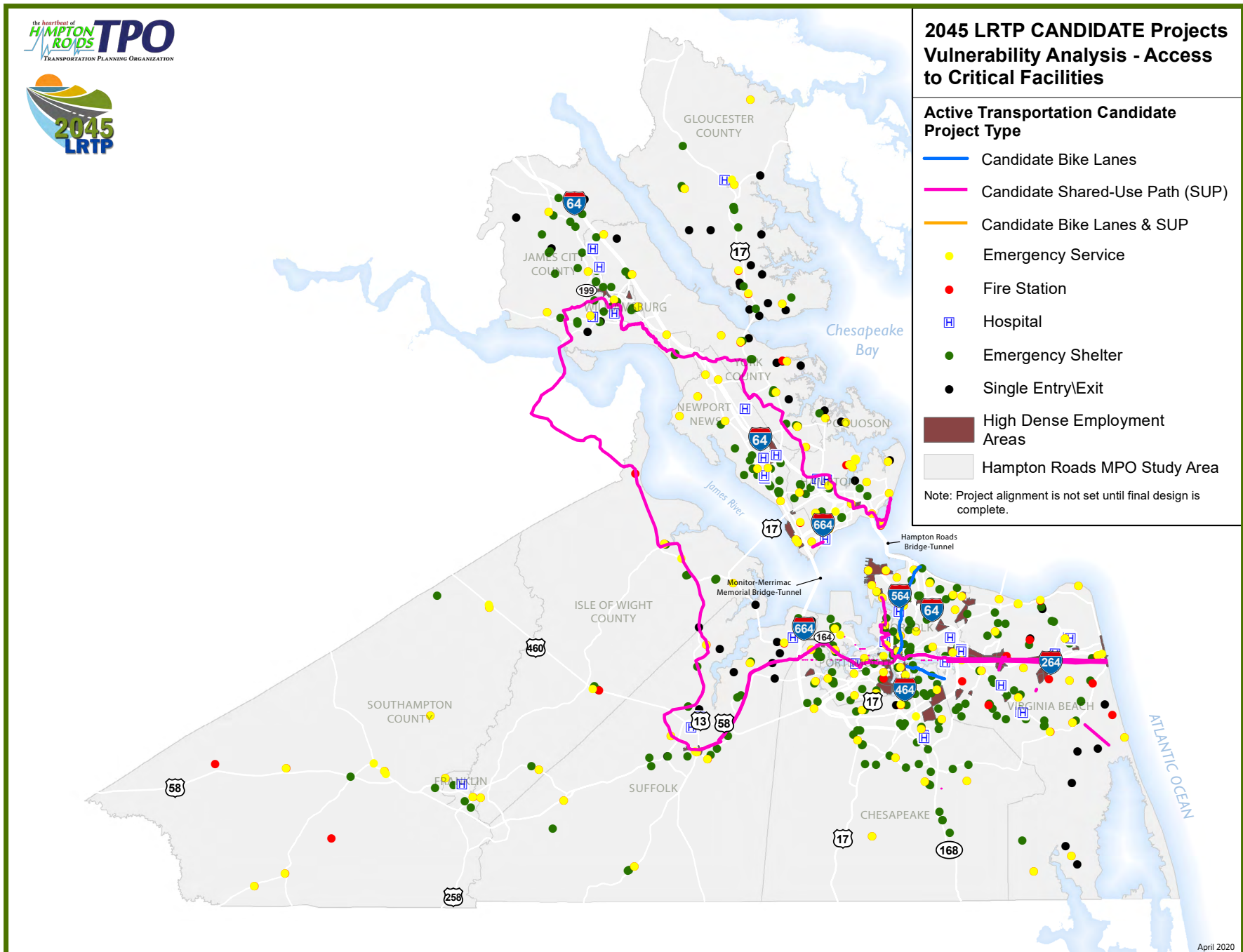
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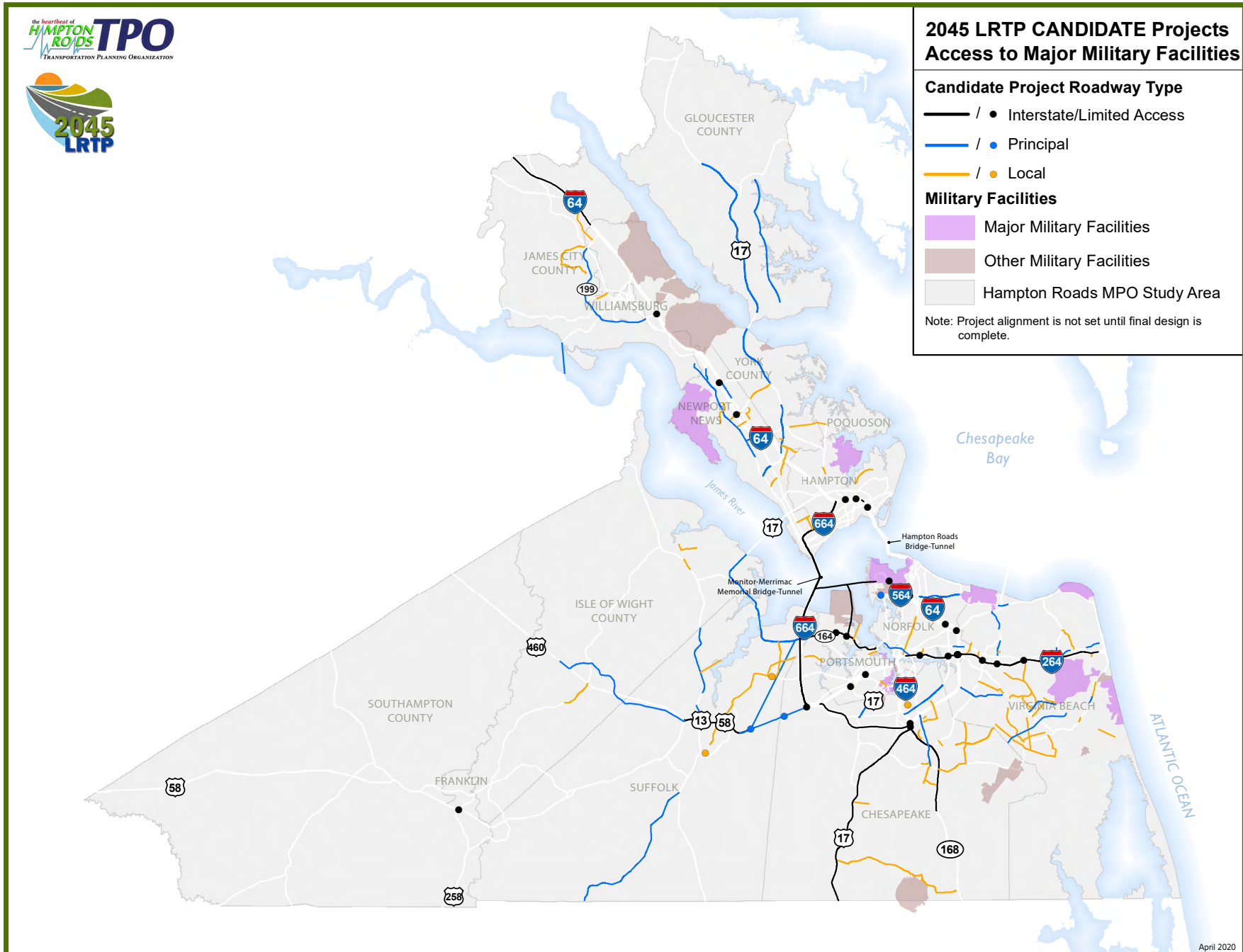
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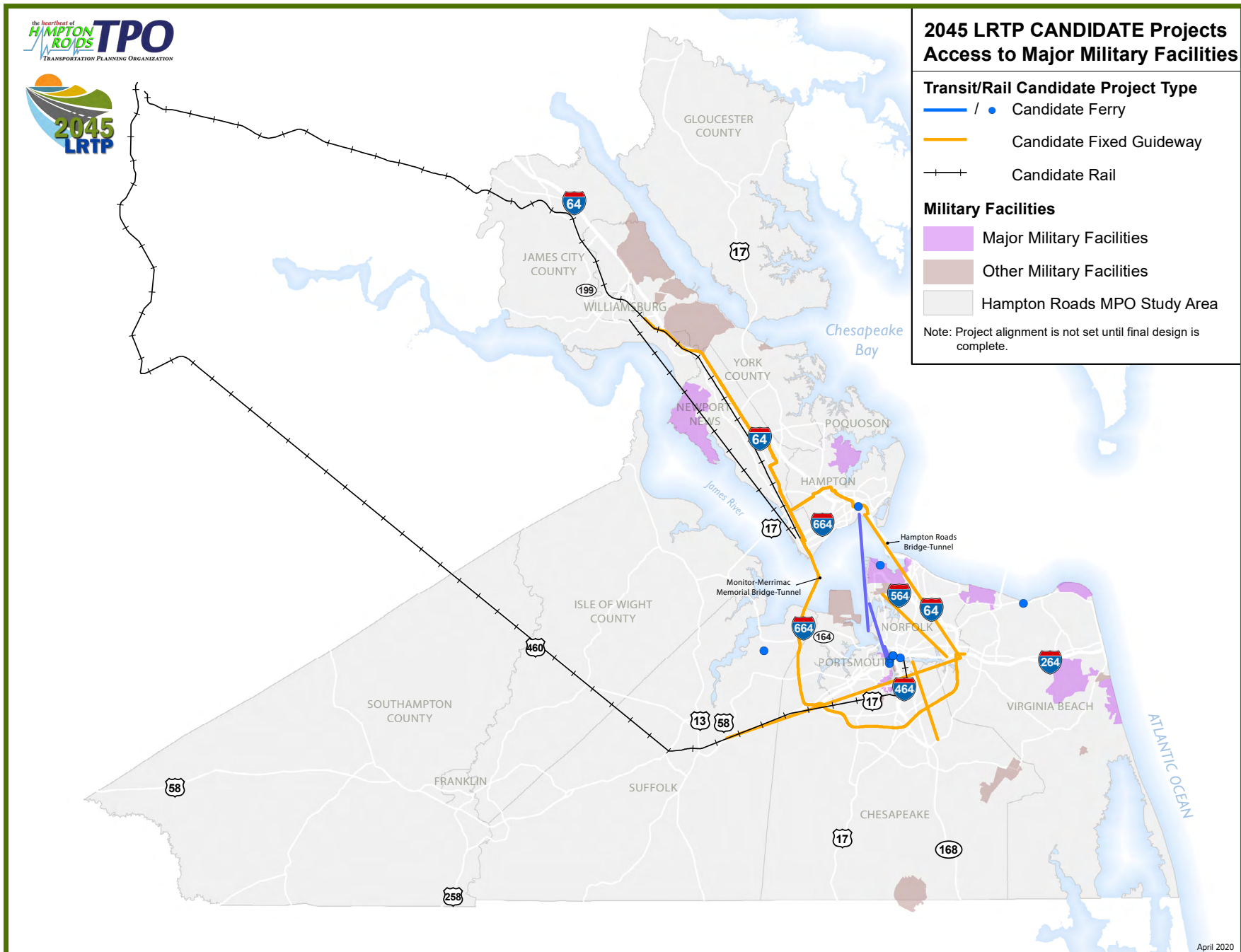
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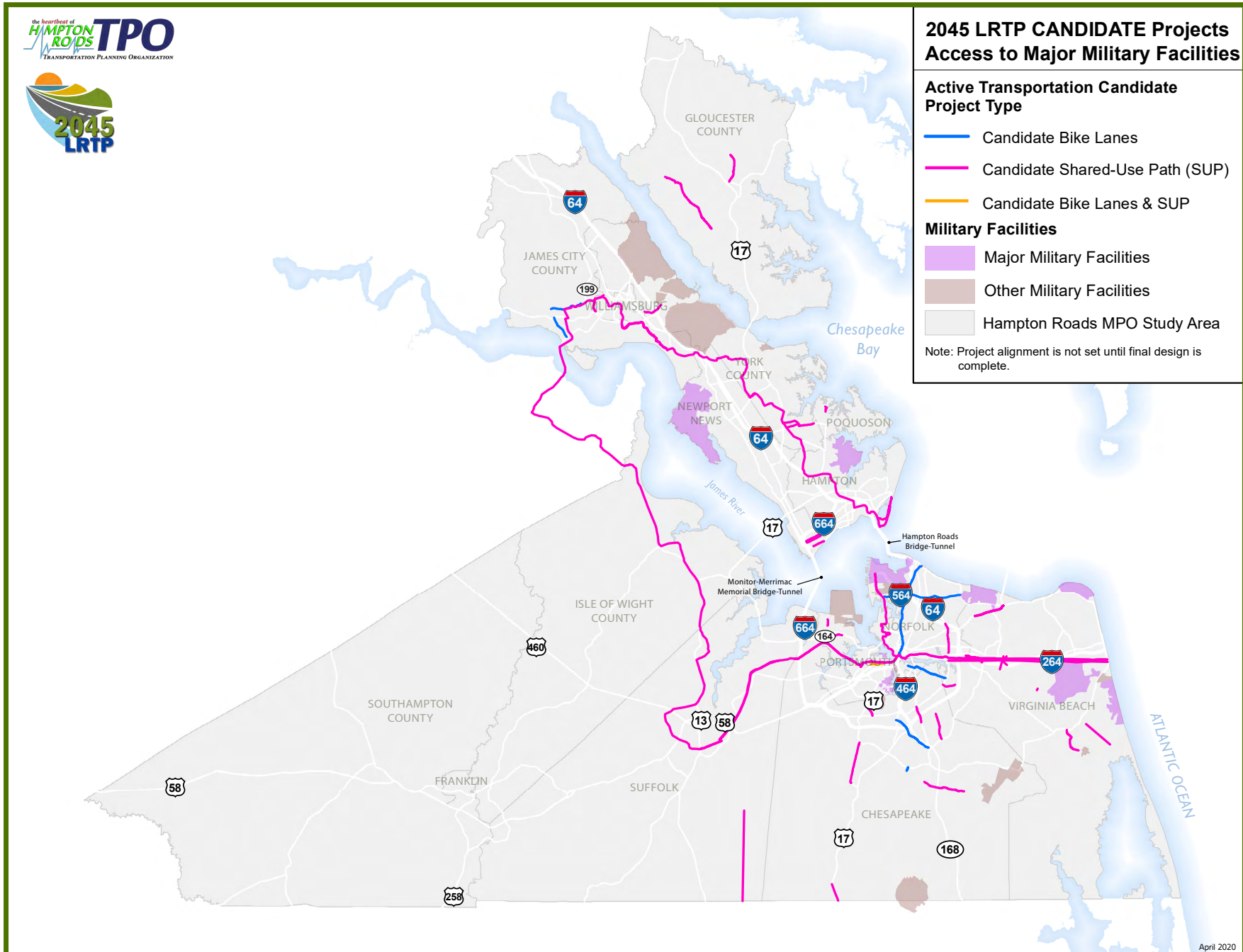
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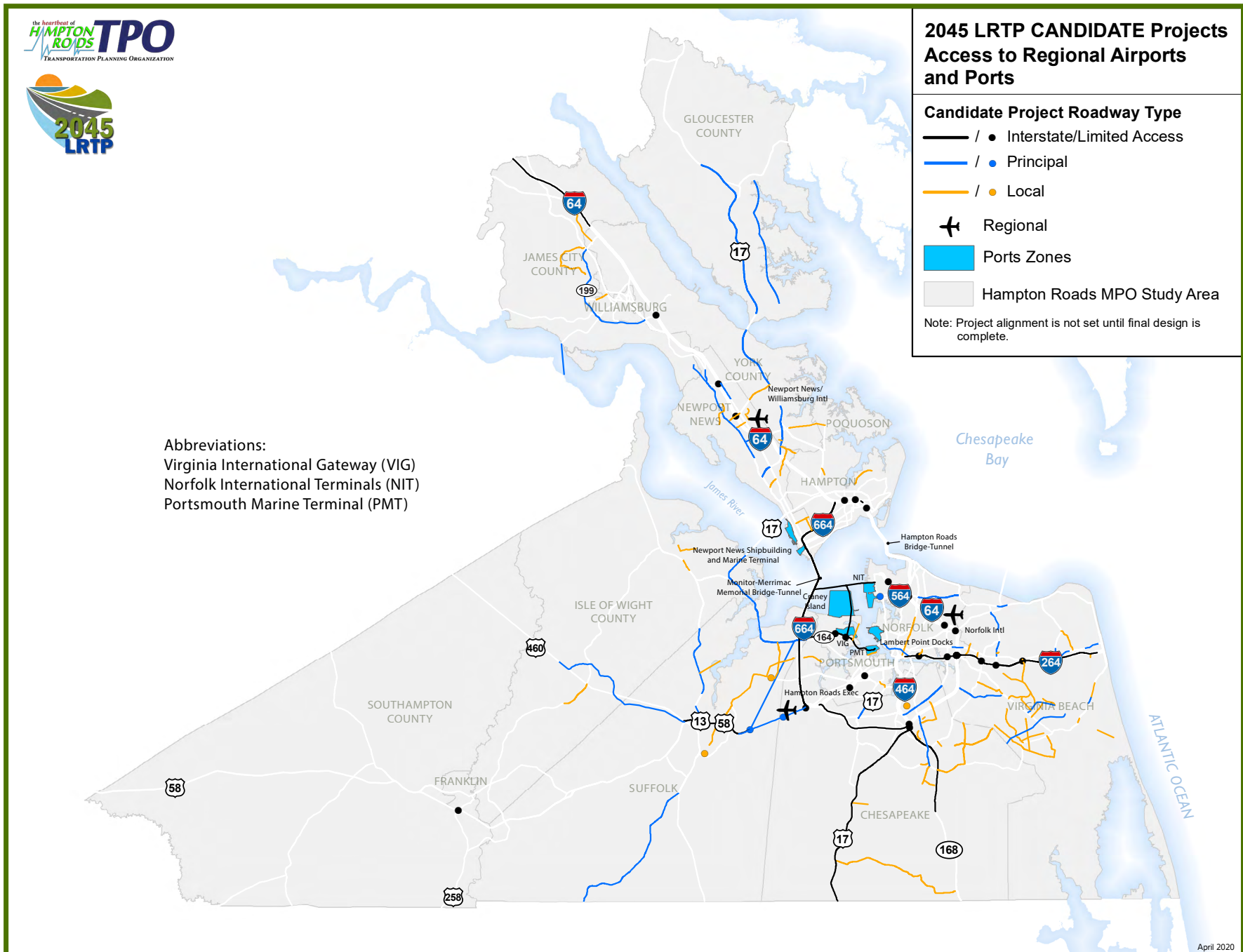
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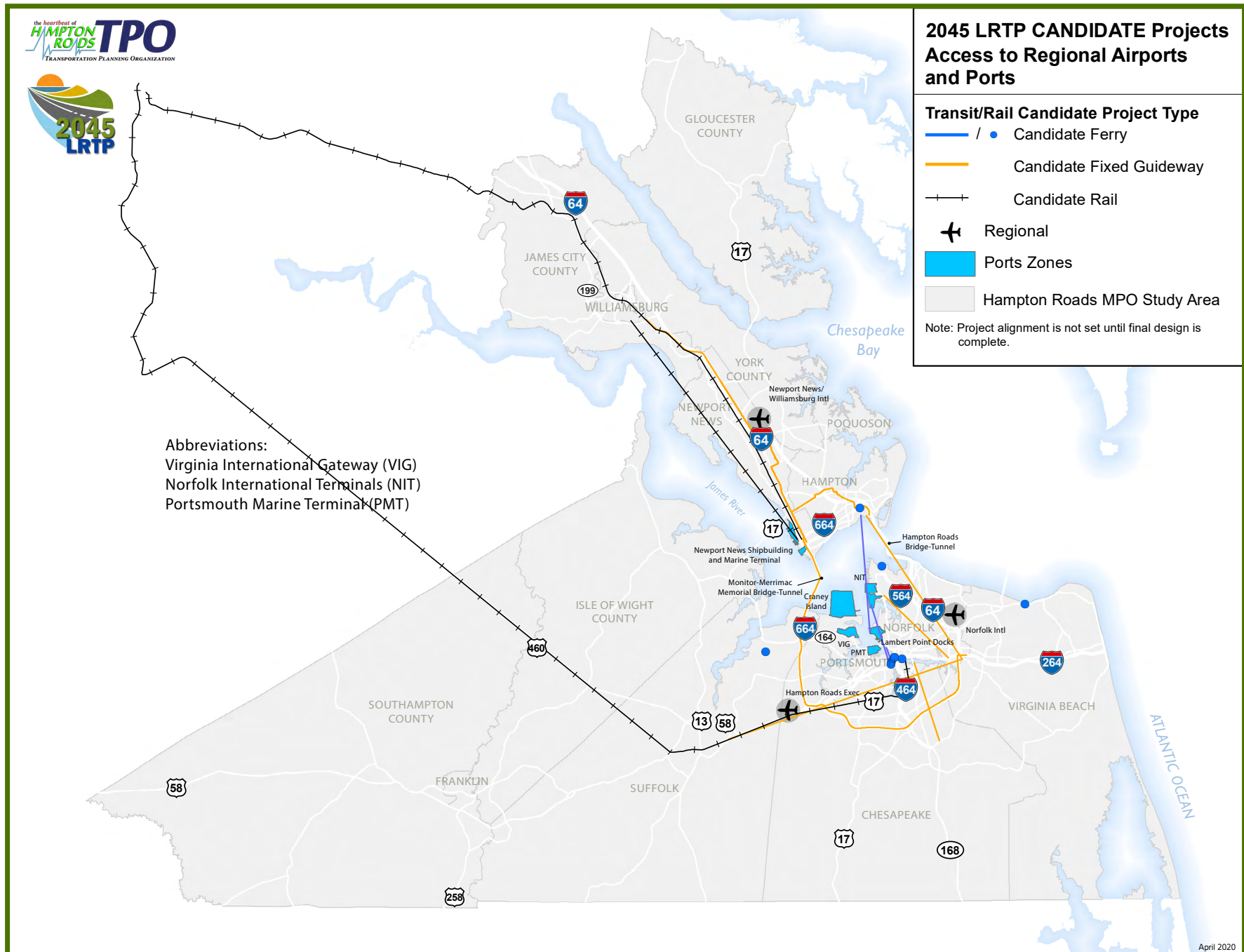
2045 LRTP SPATIAL OVERLAY MAPS



2045 LRTP SPATIAL OVERLAY MAPS



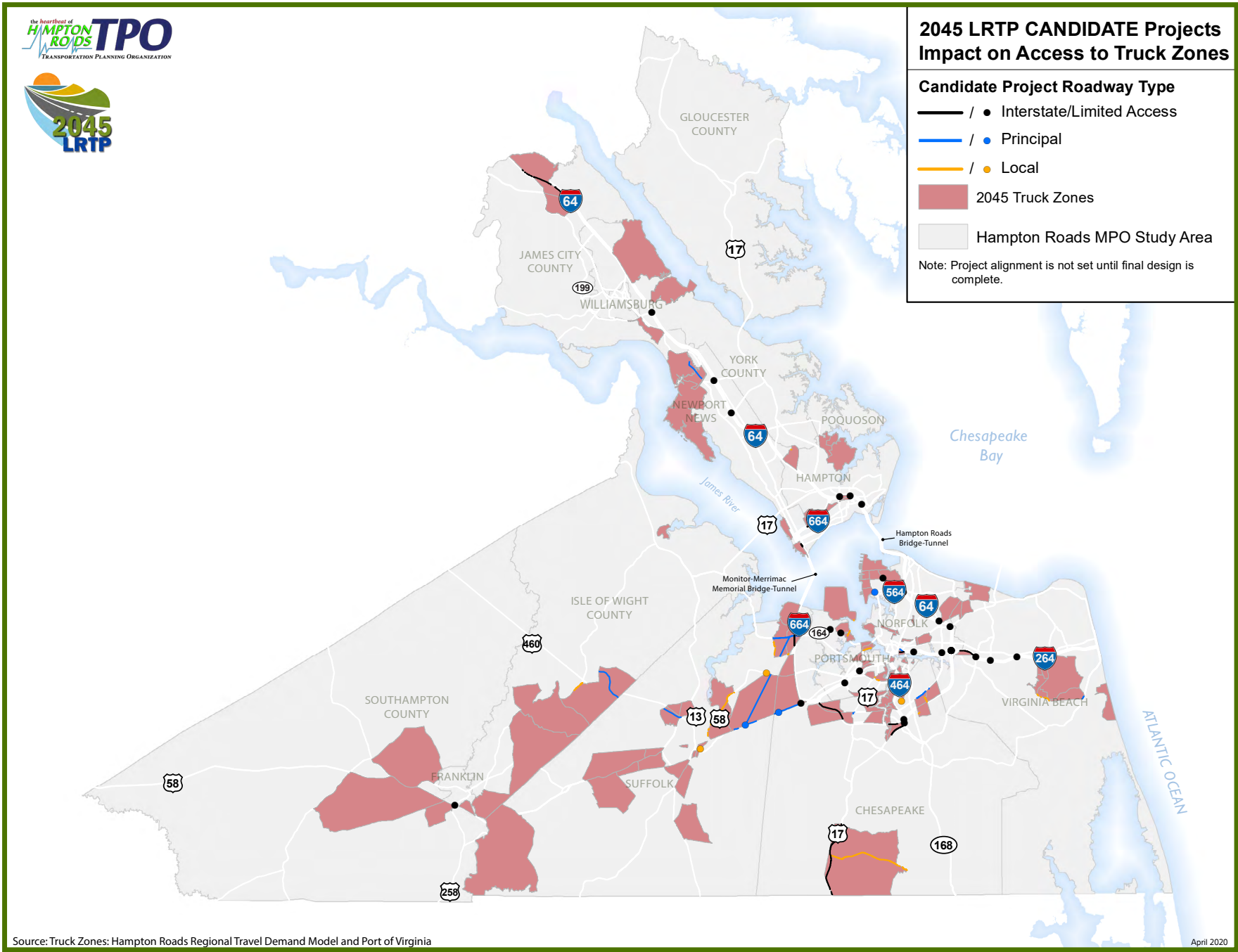
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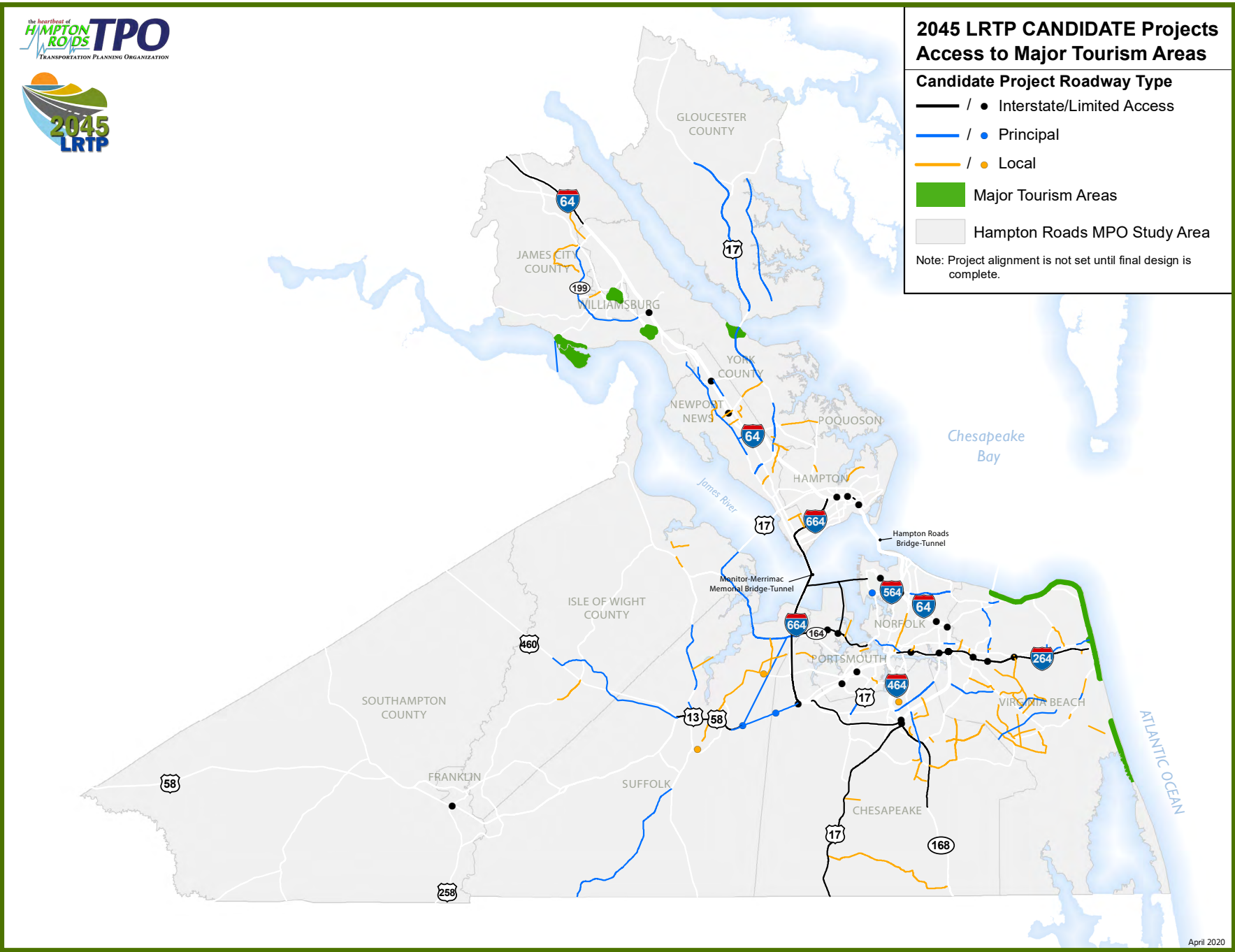
42



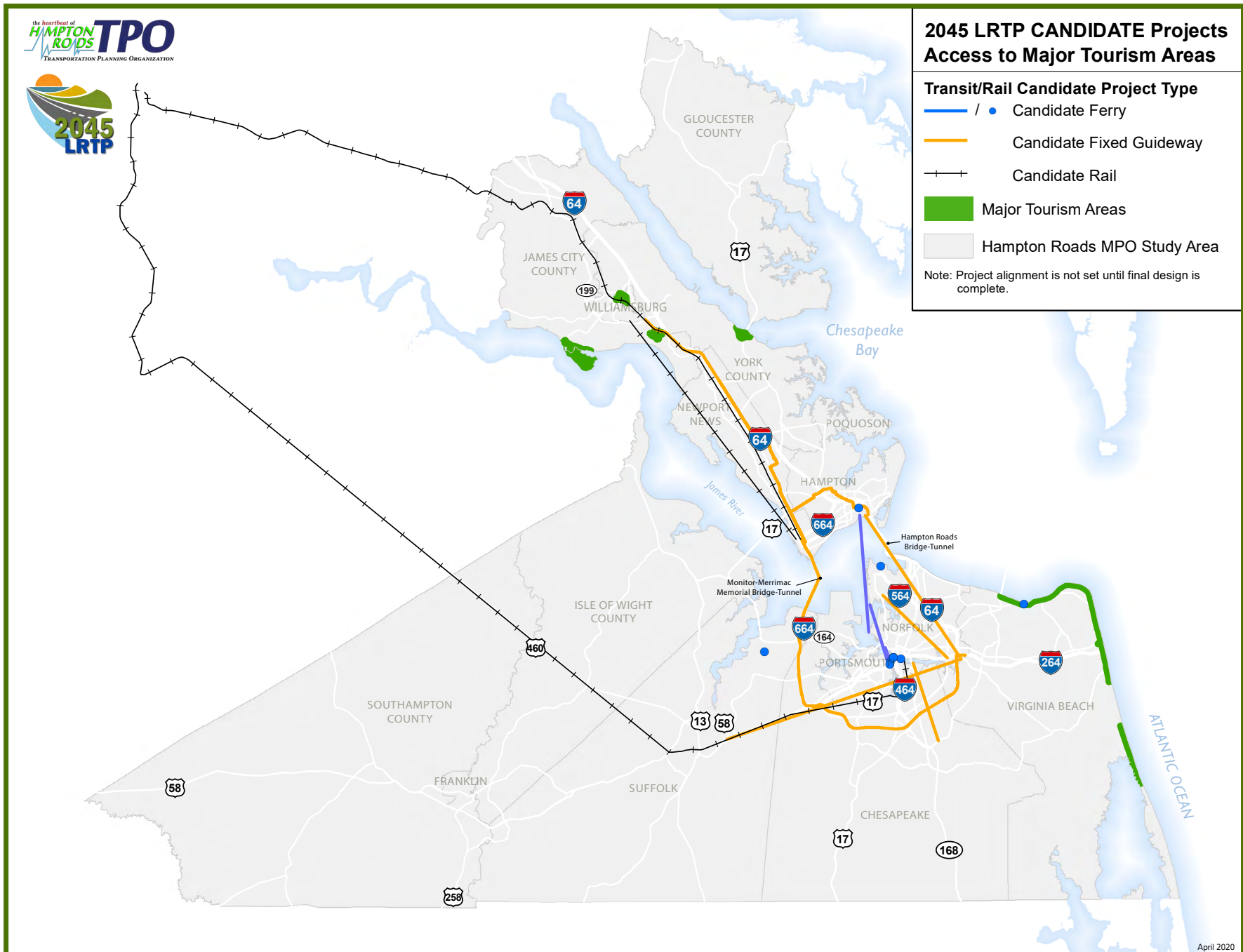
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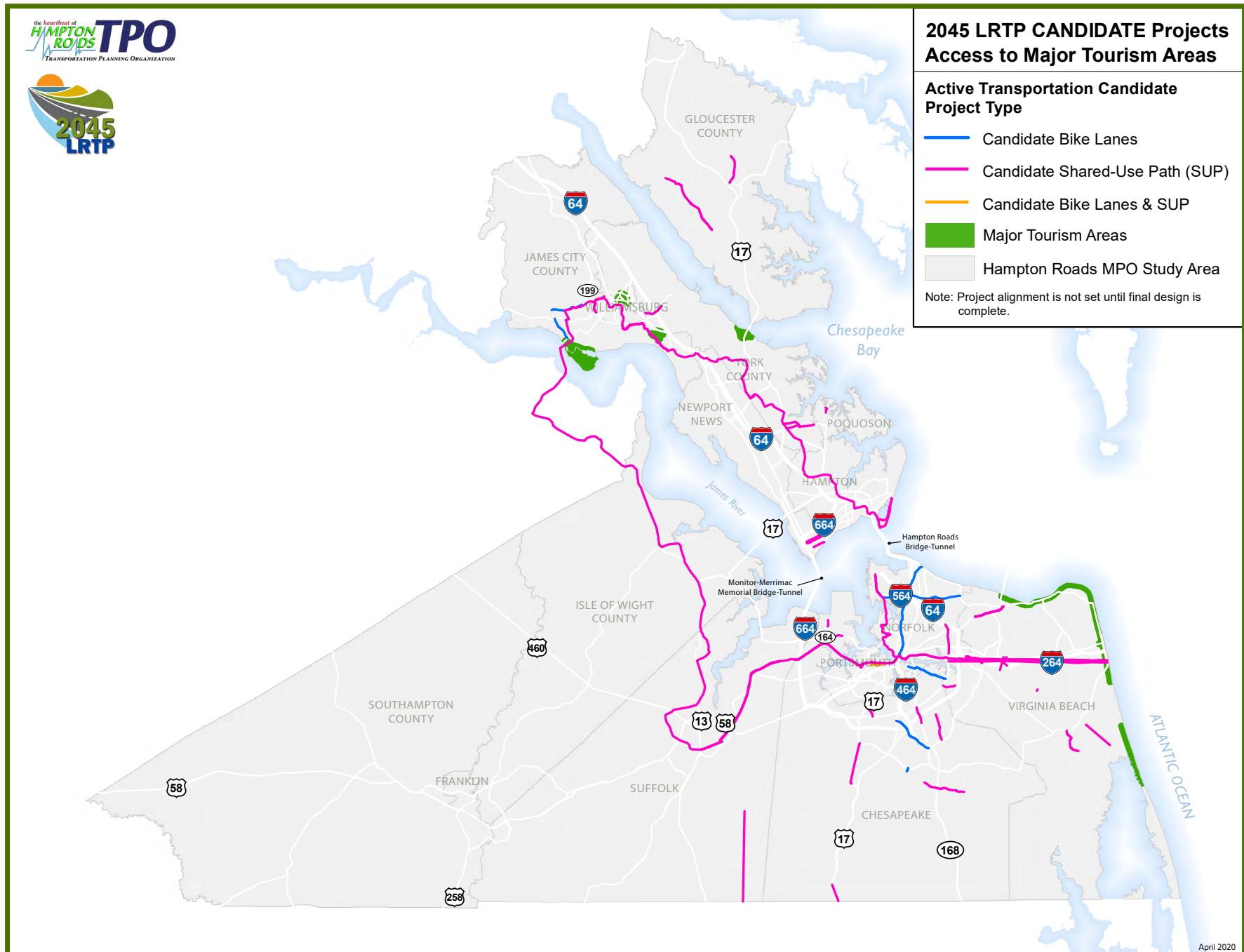
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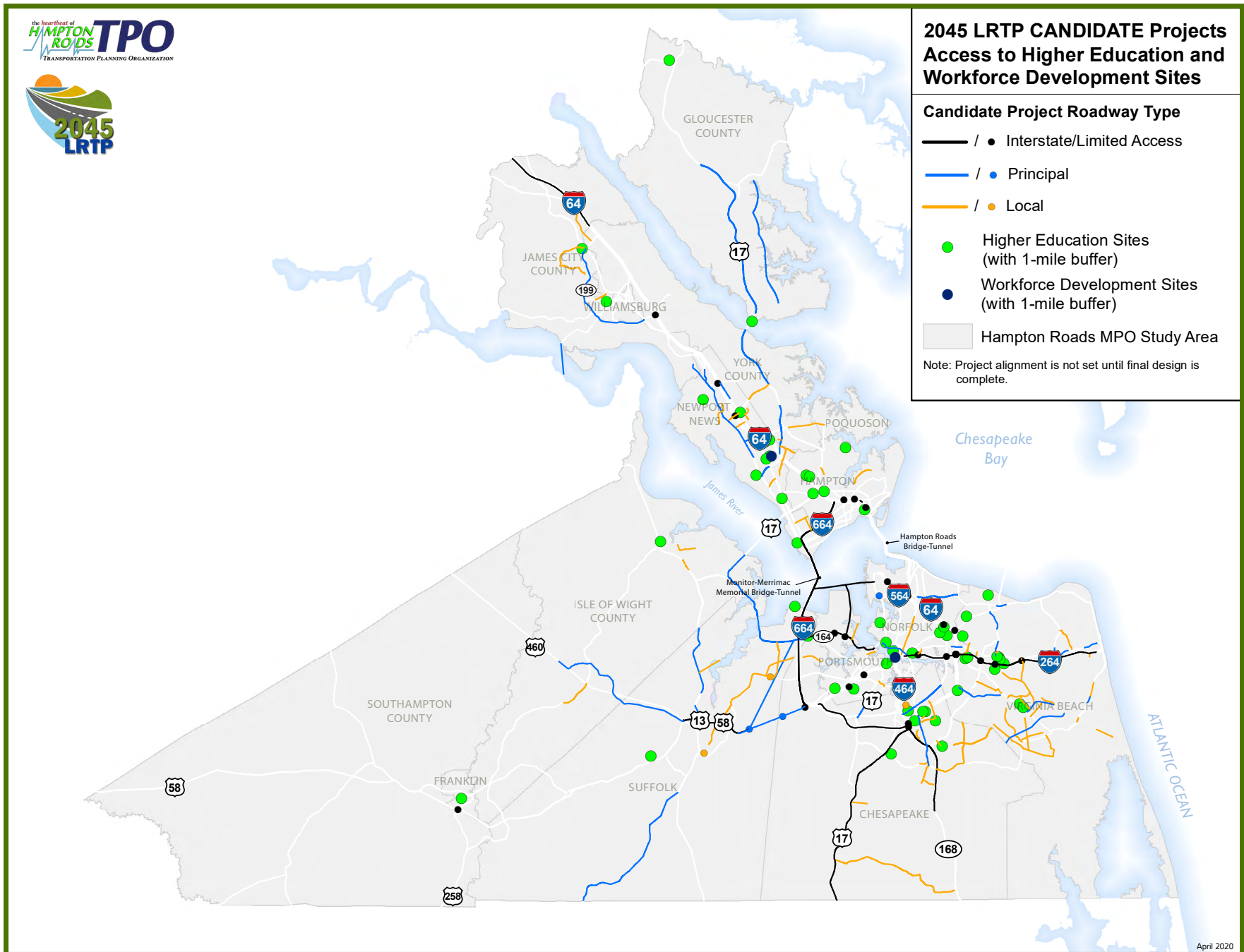
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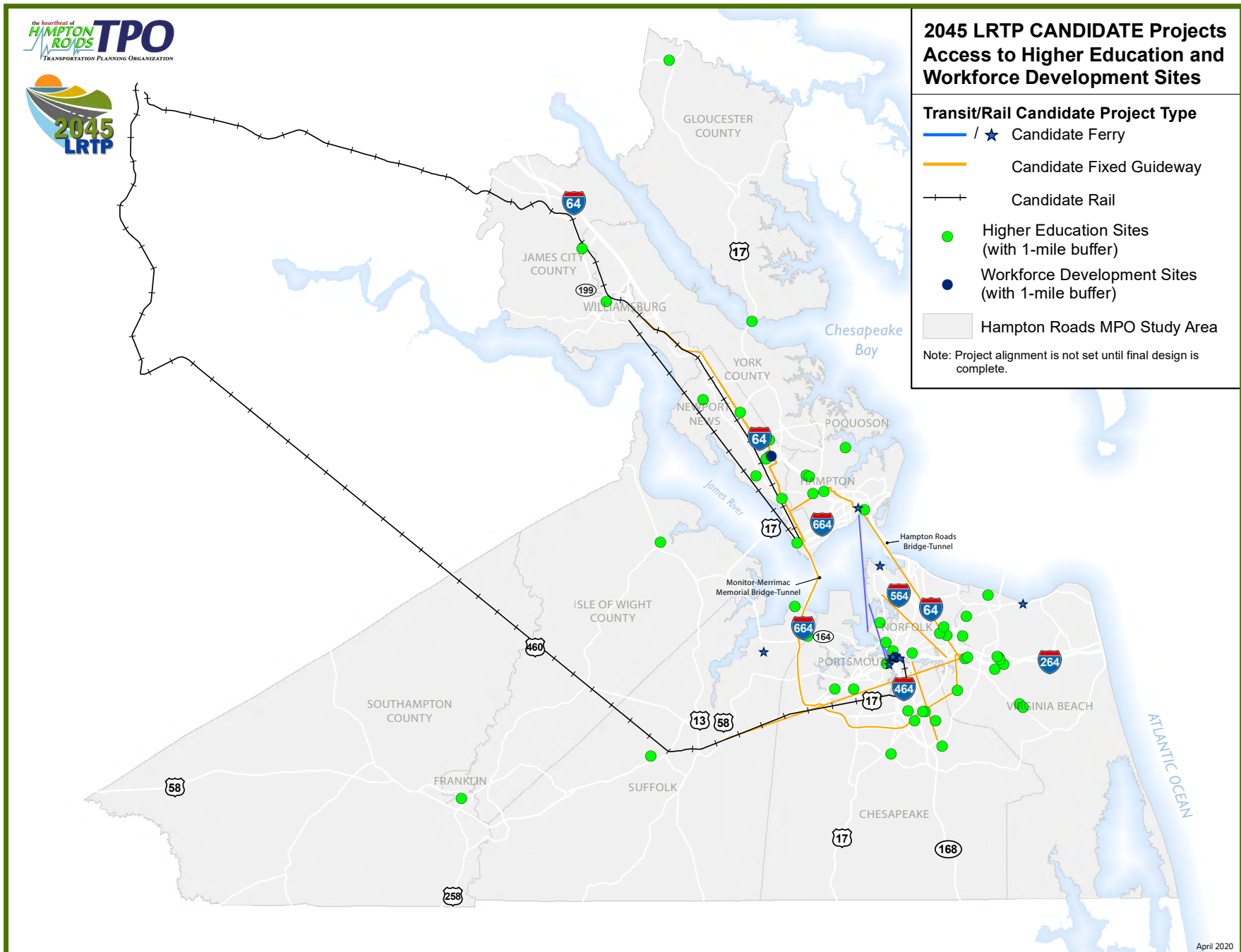
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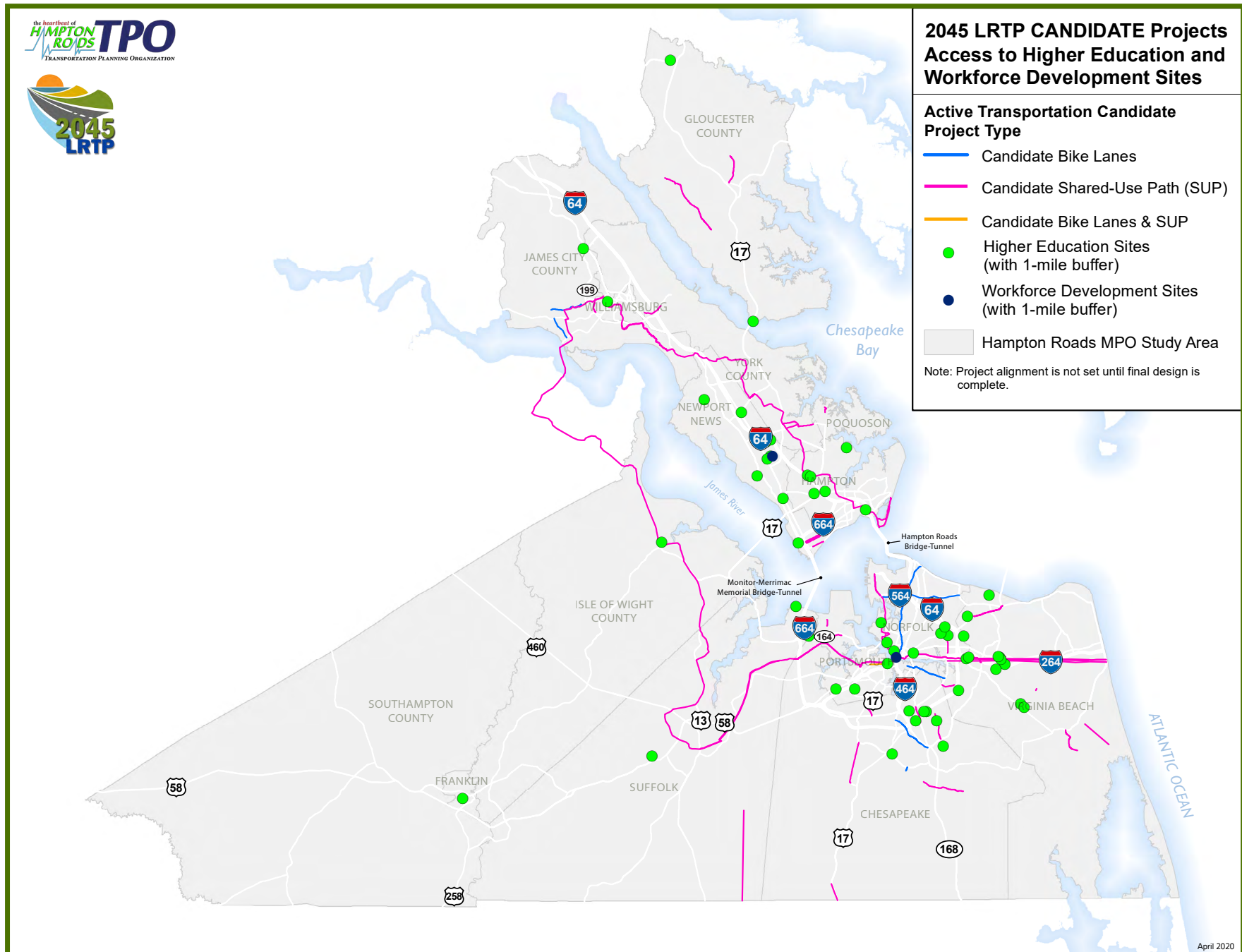
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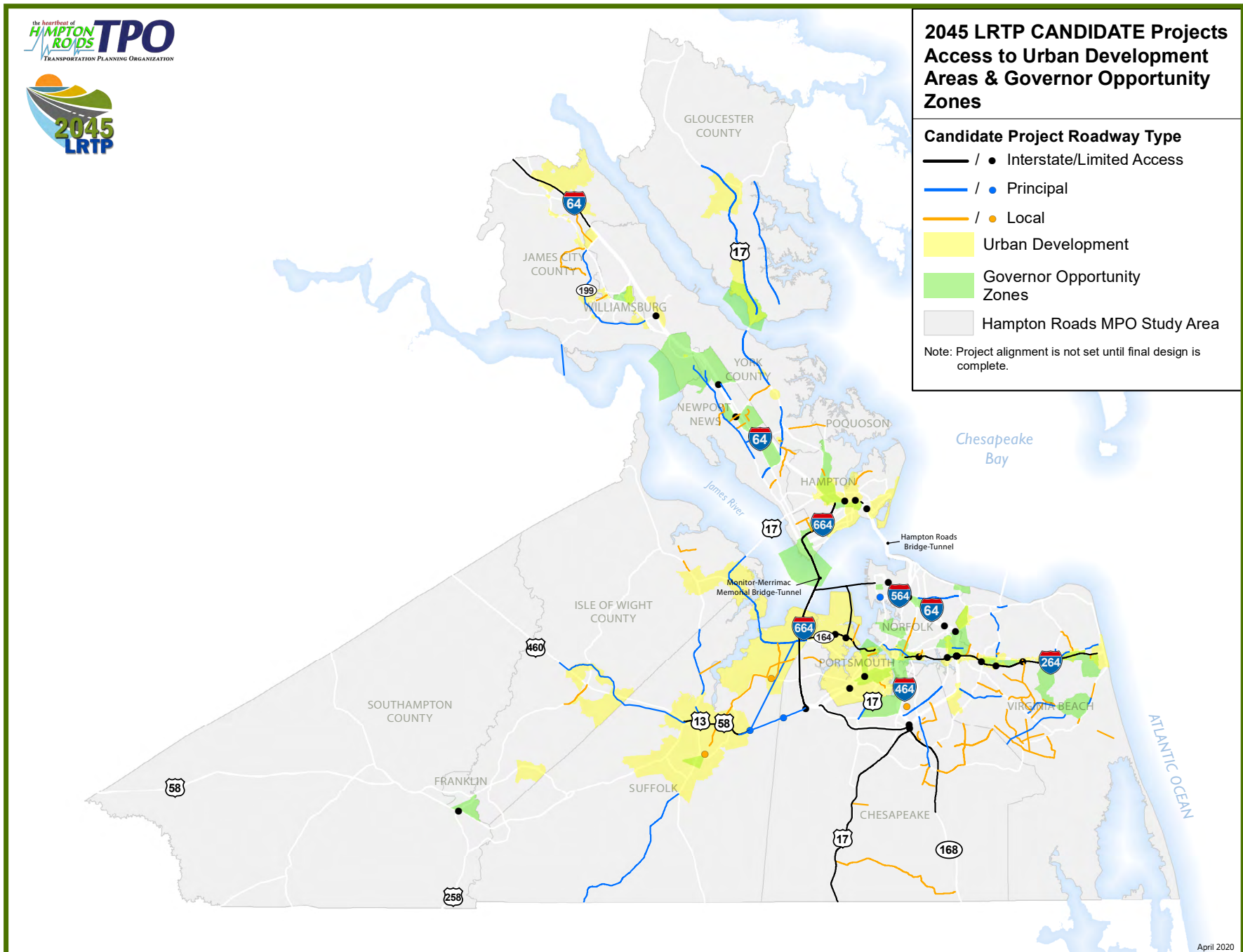
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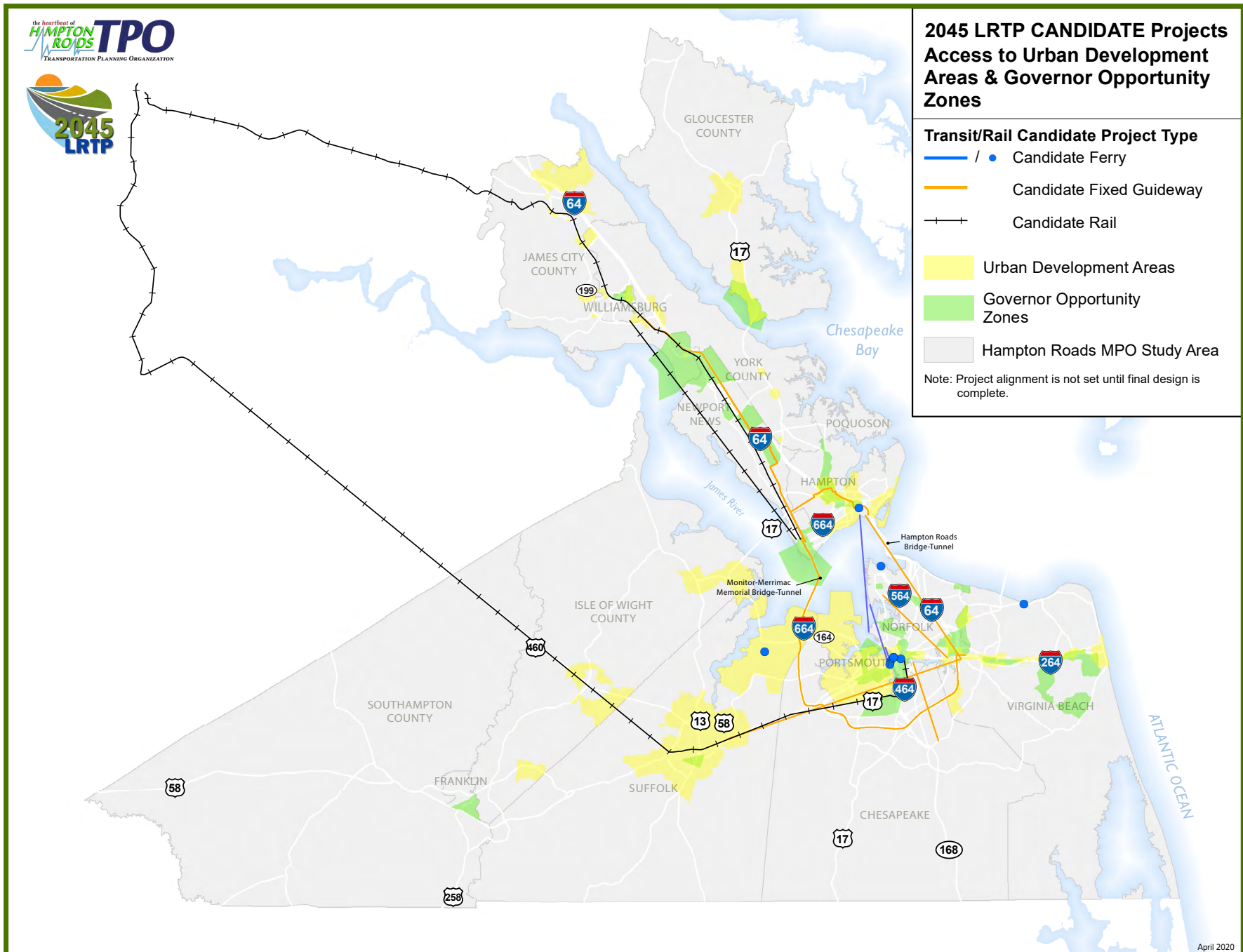
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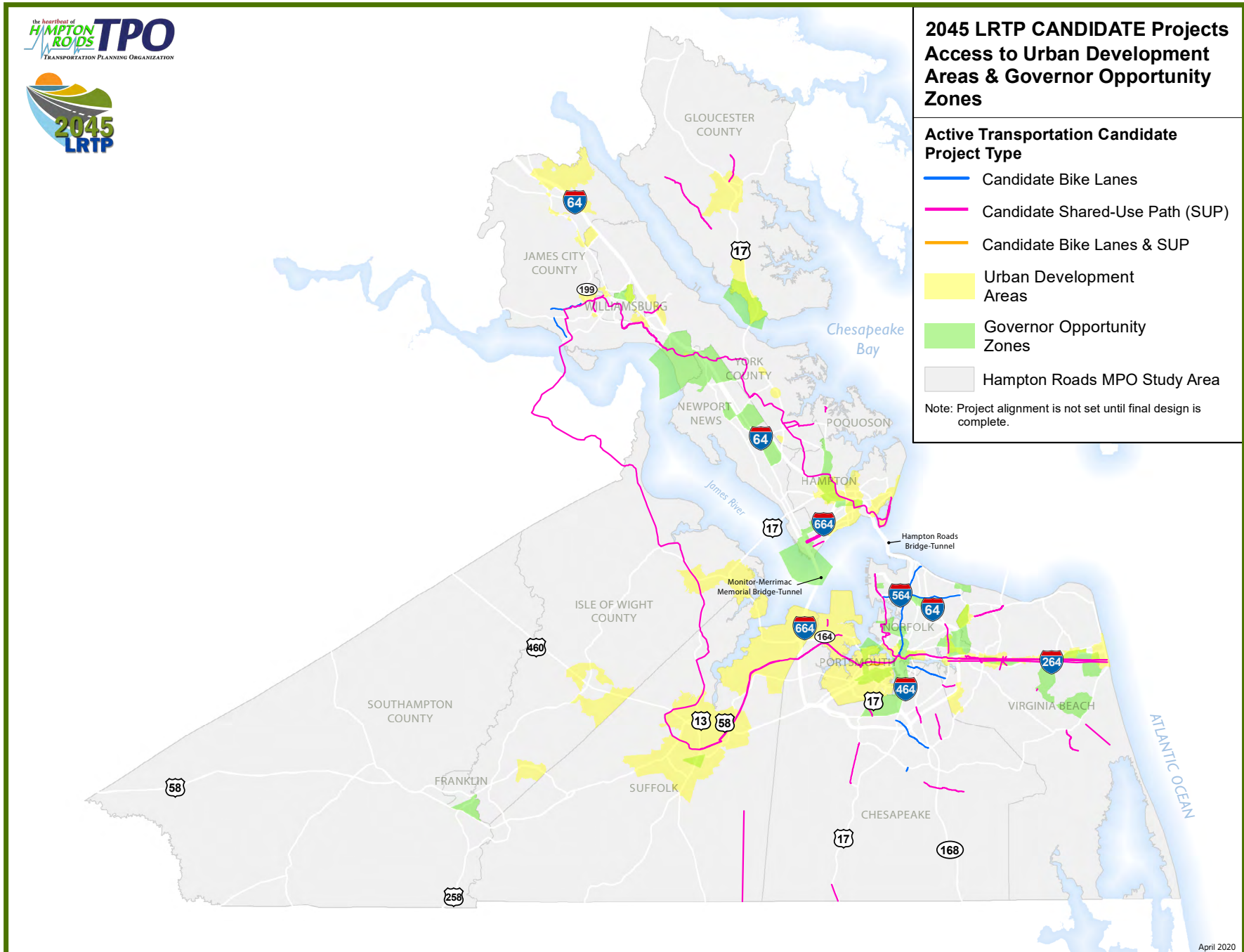
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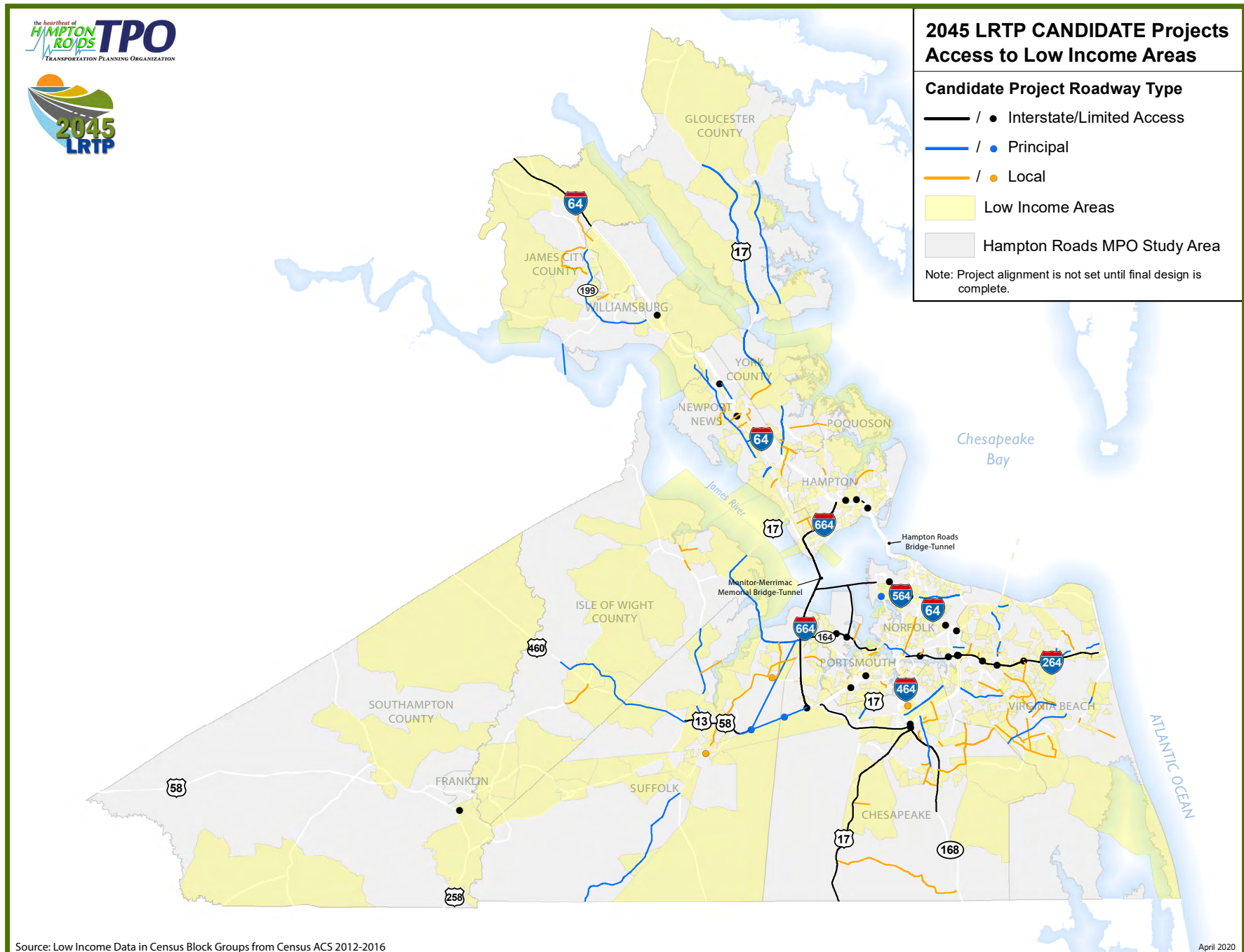
2045 LRTP SPATIAL OVERLAY MAPS



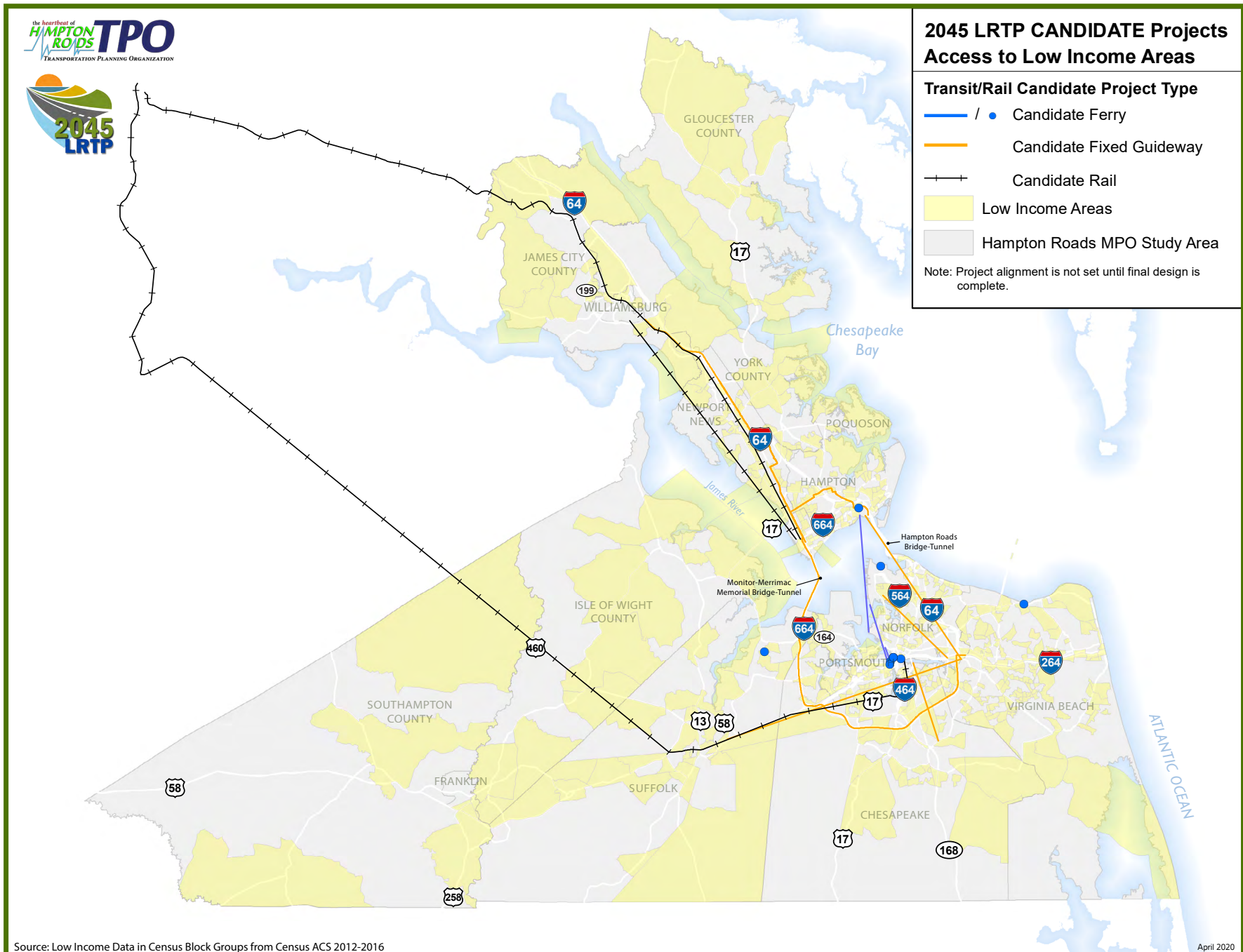
2045 LRTP SPATIAL OVERLAY MAPS



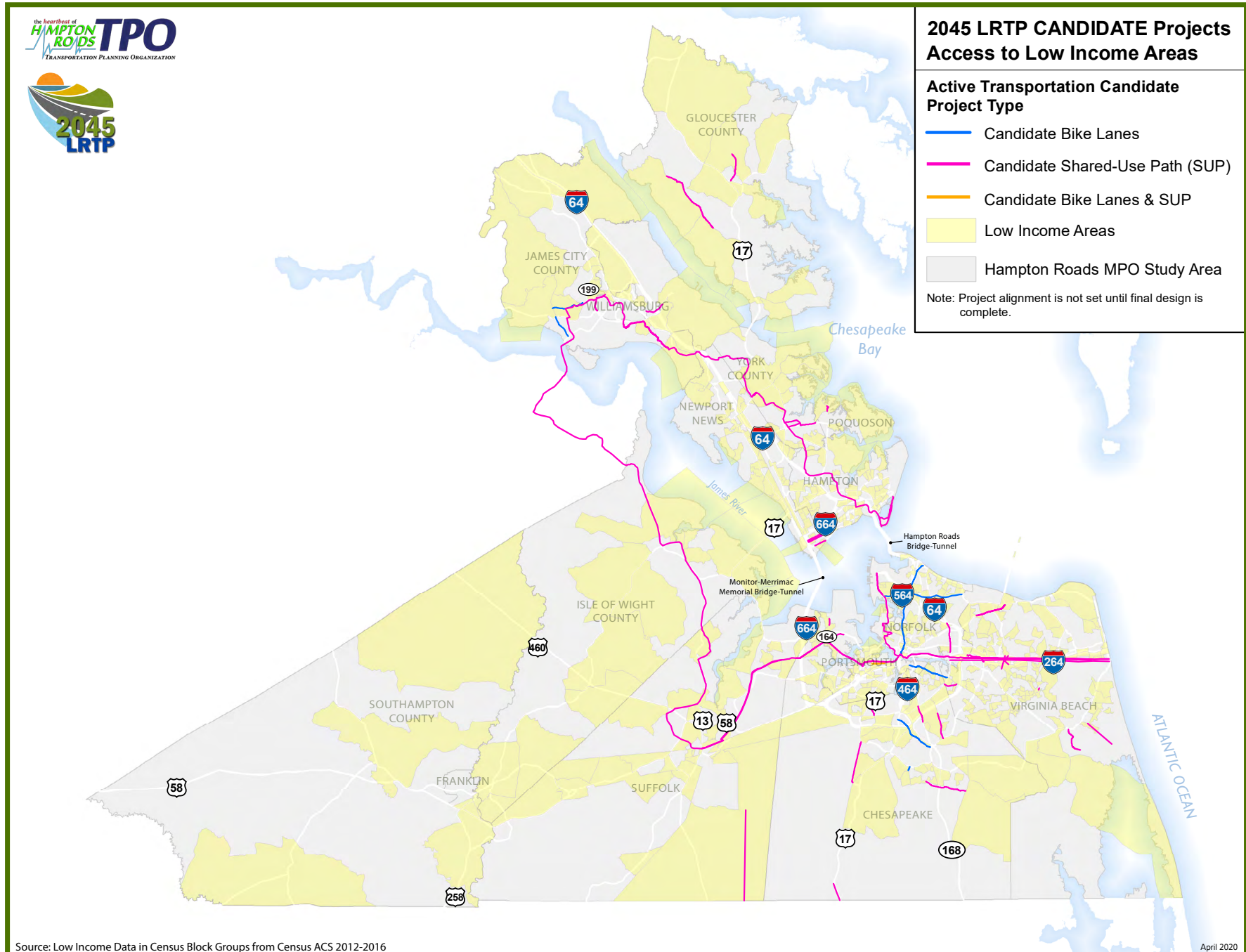
2045 LRTP SPATIAL OVERLAY MAPS



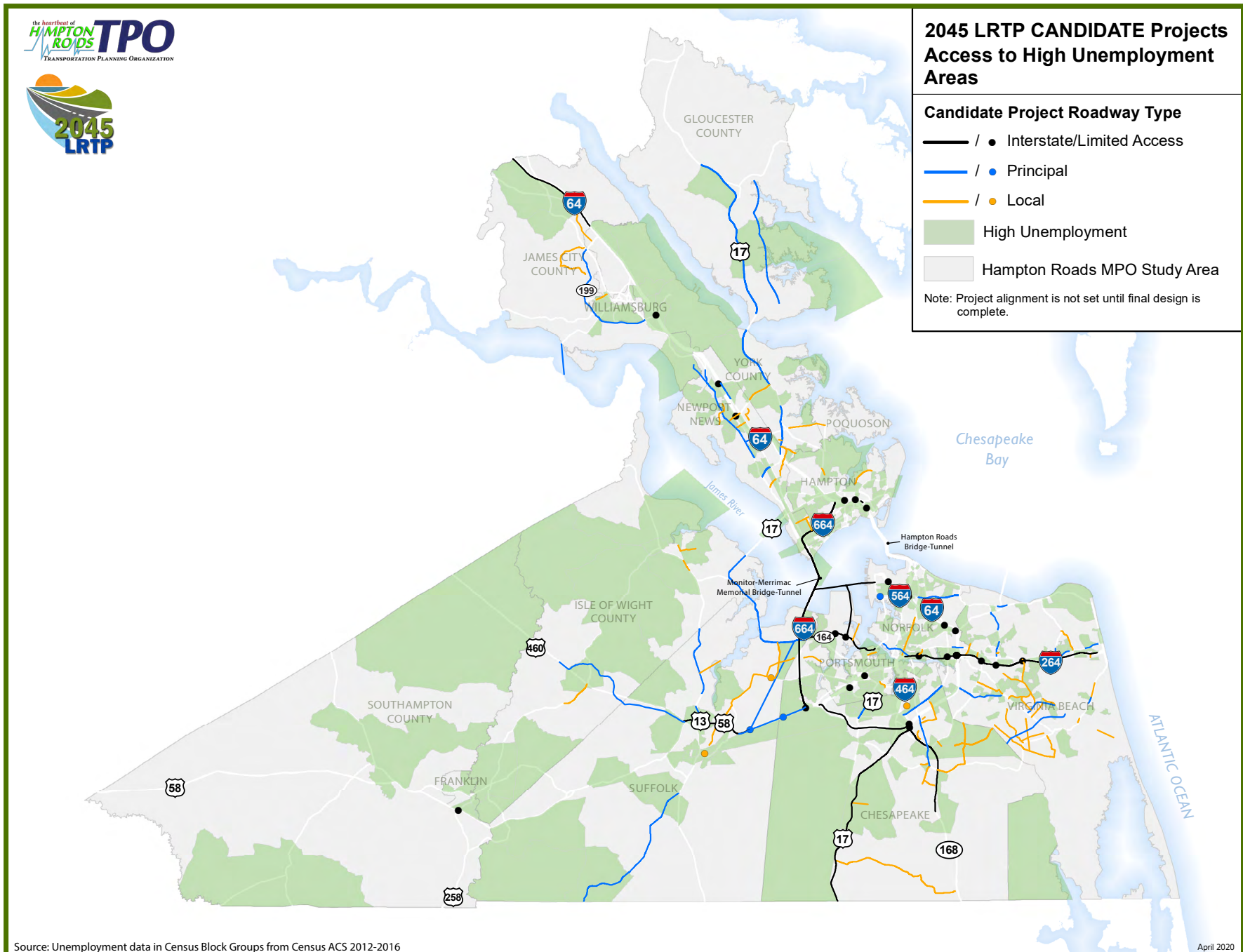
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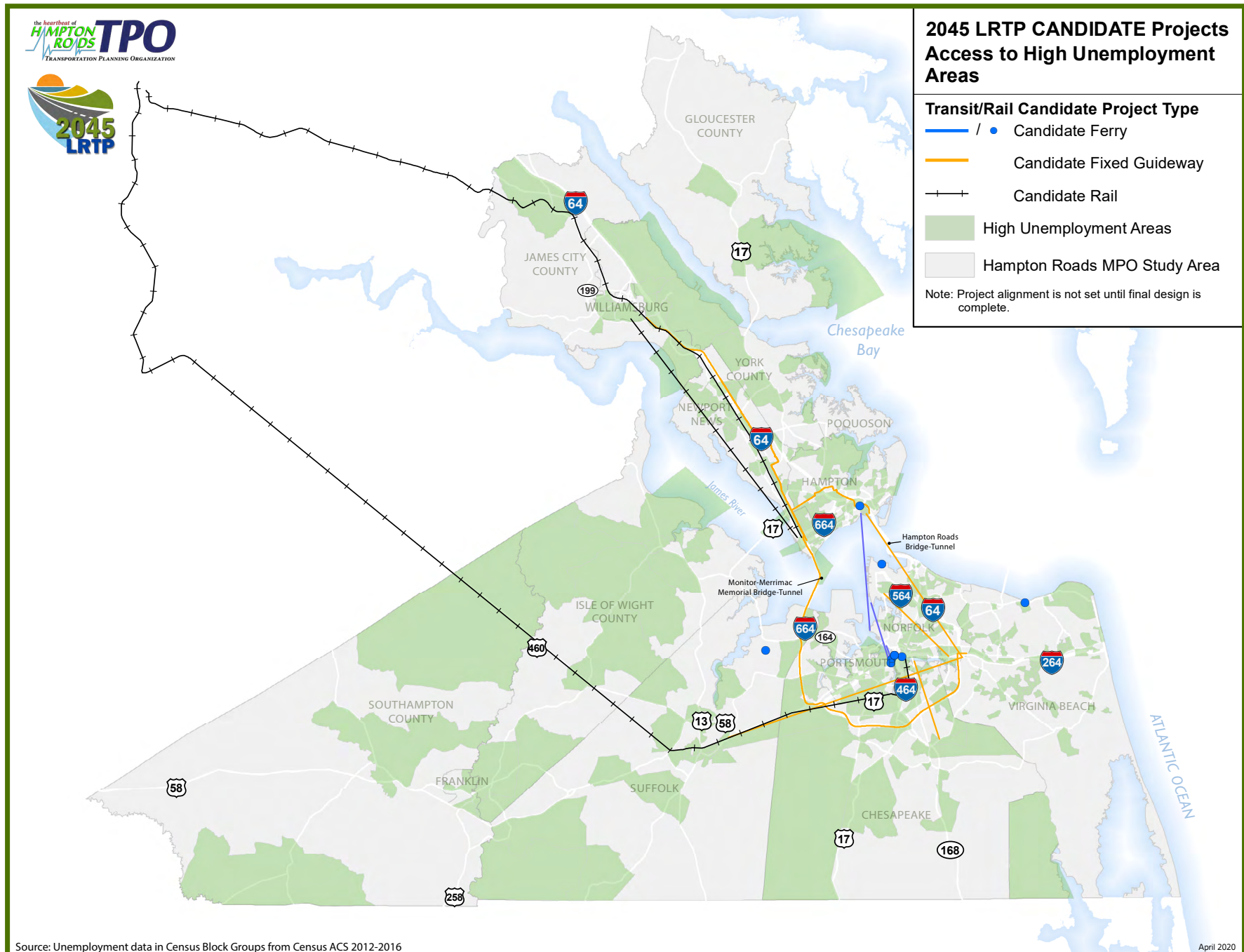
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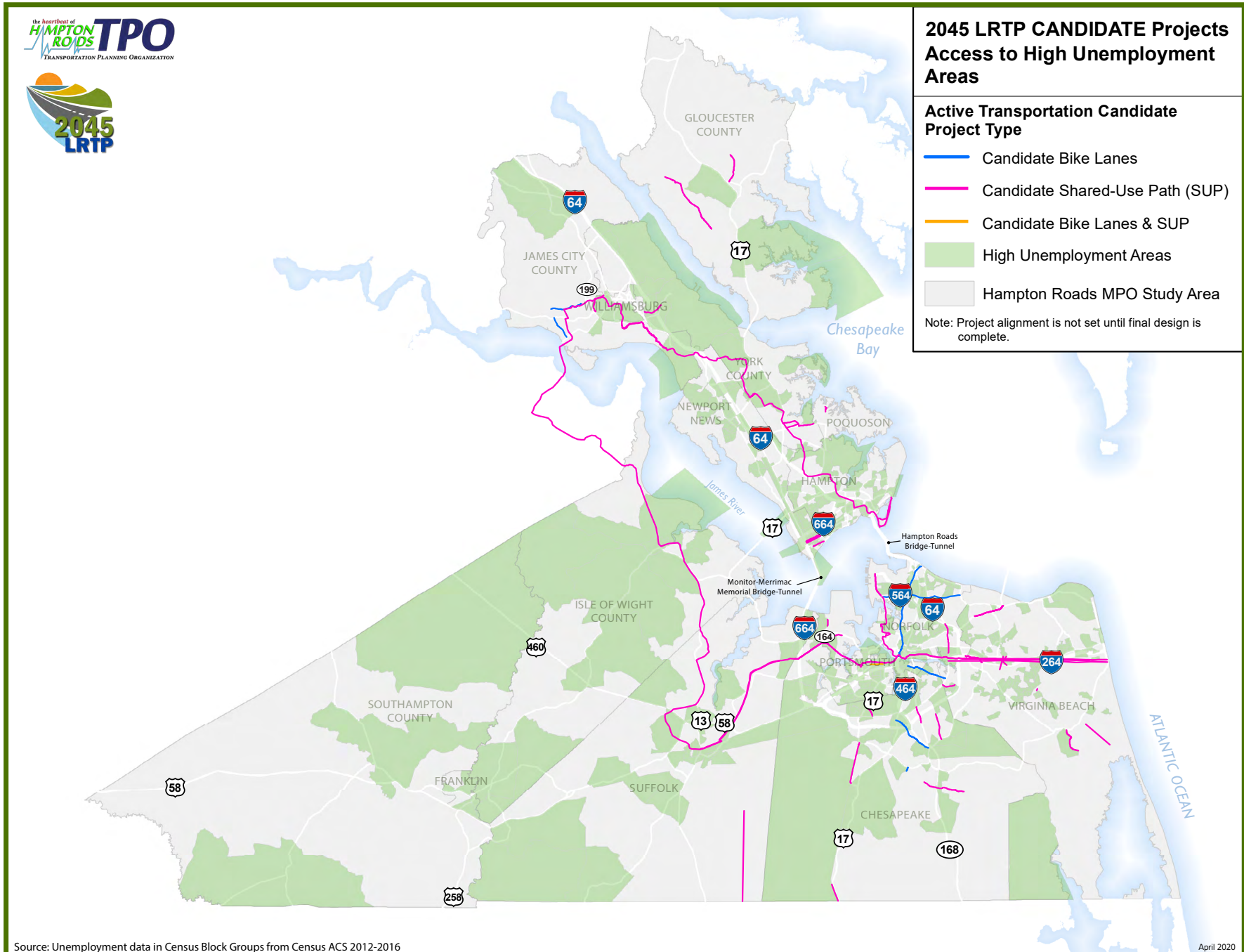
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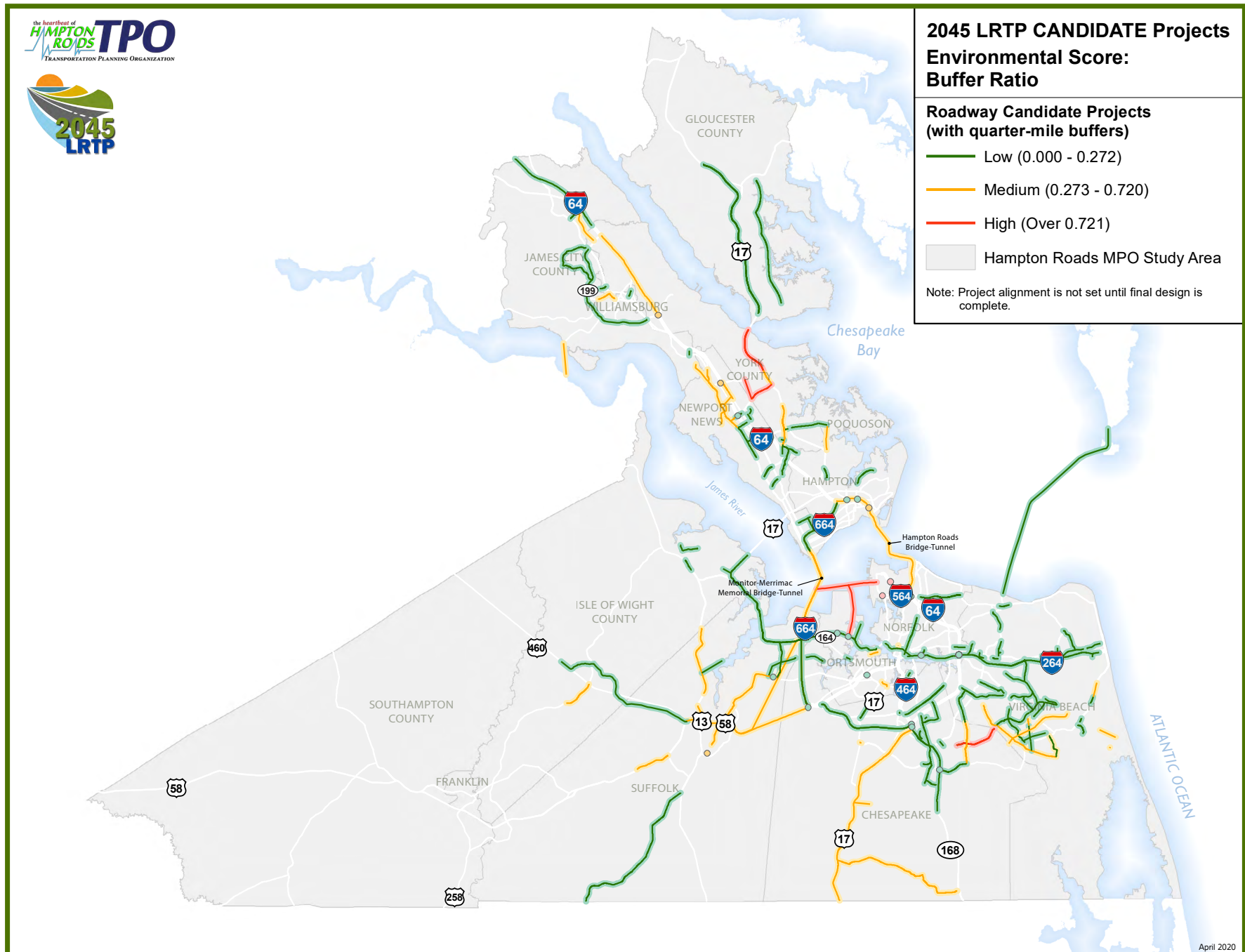
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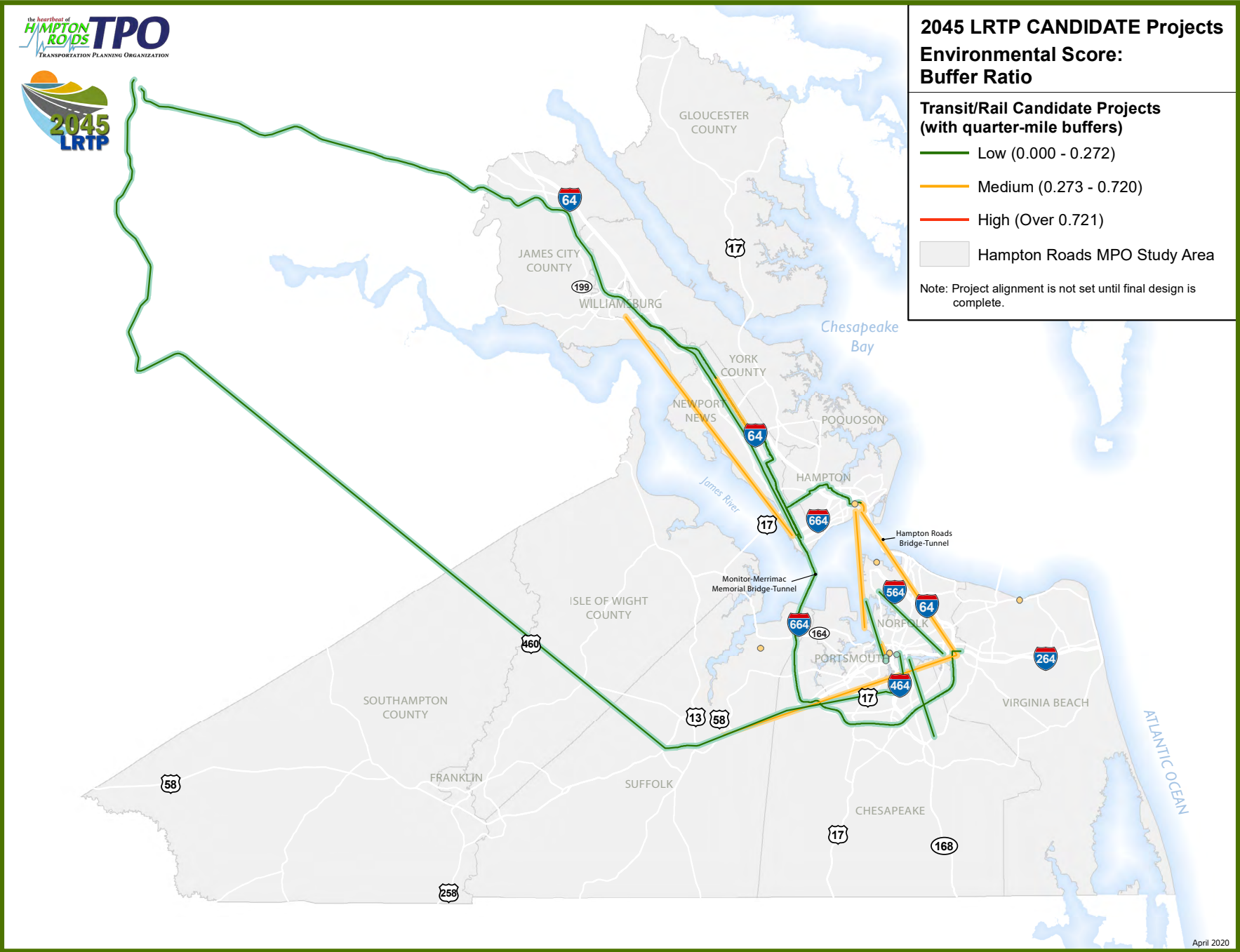
2045 LRTP SPATIAL OVERLAY MAPS



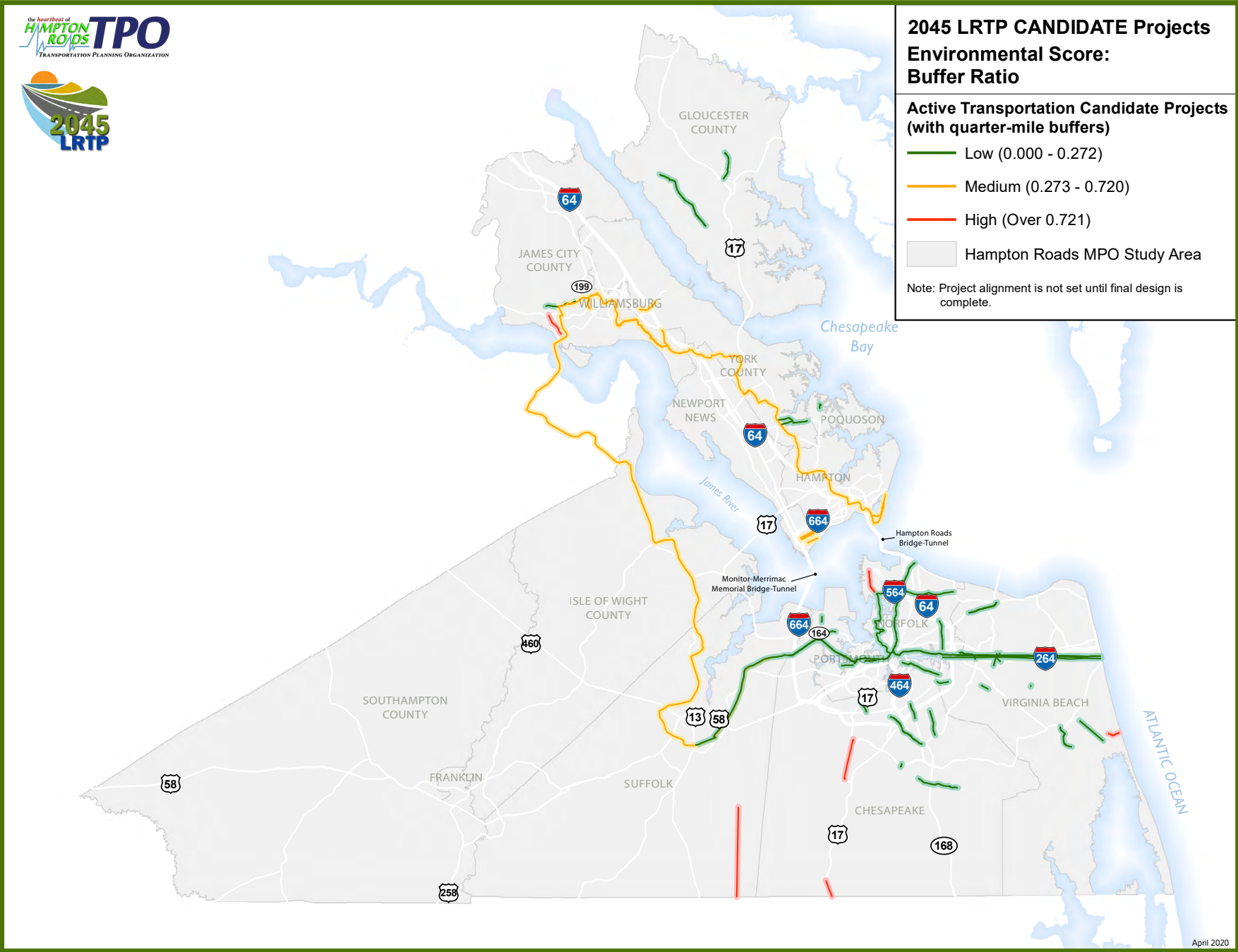
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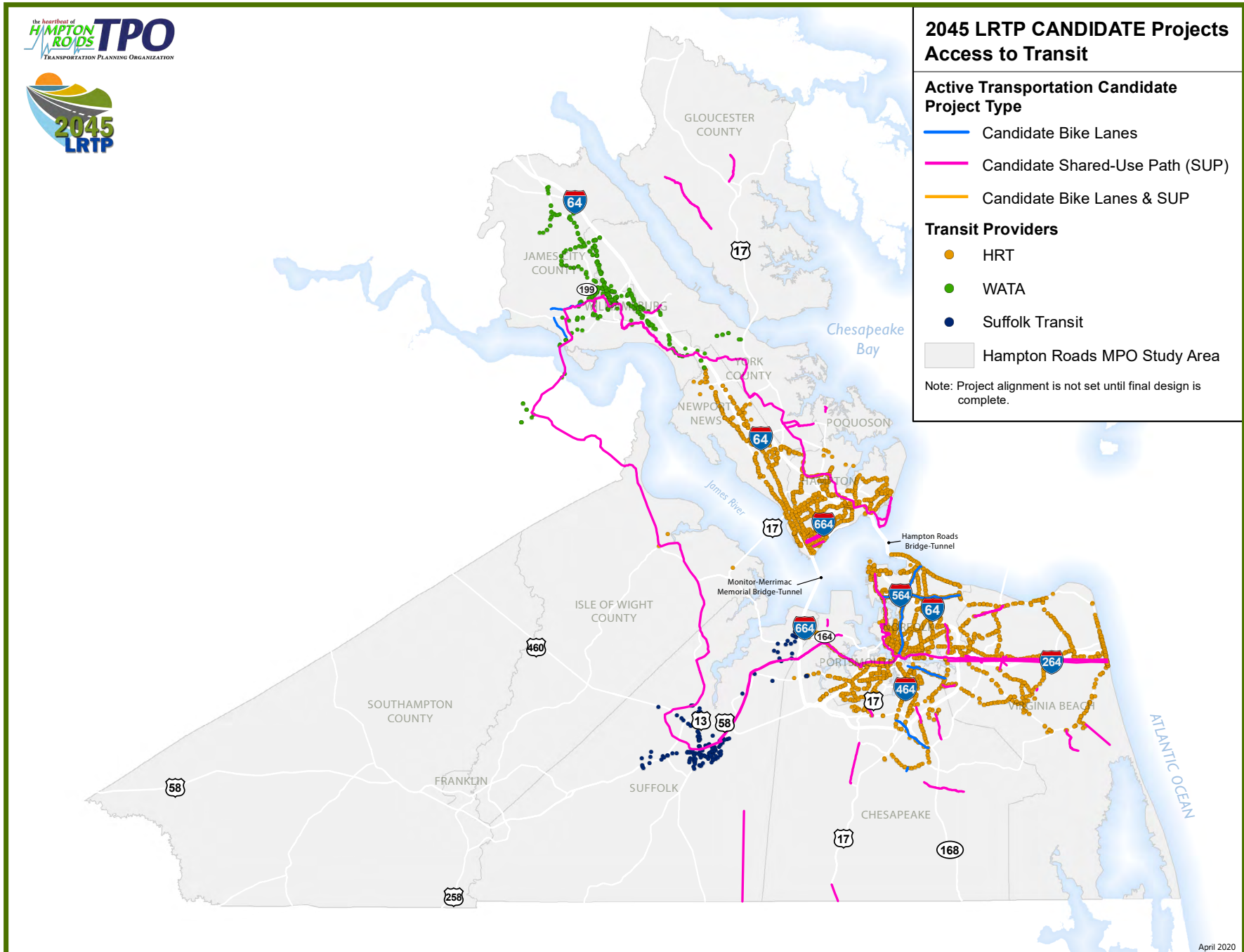
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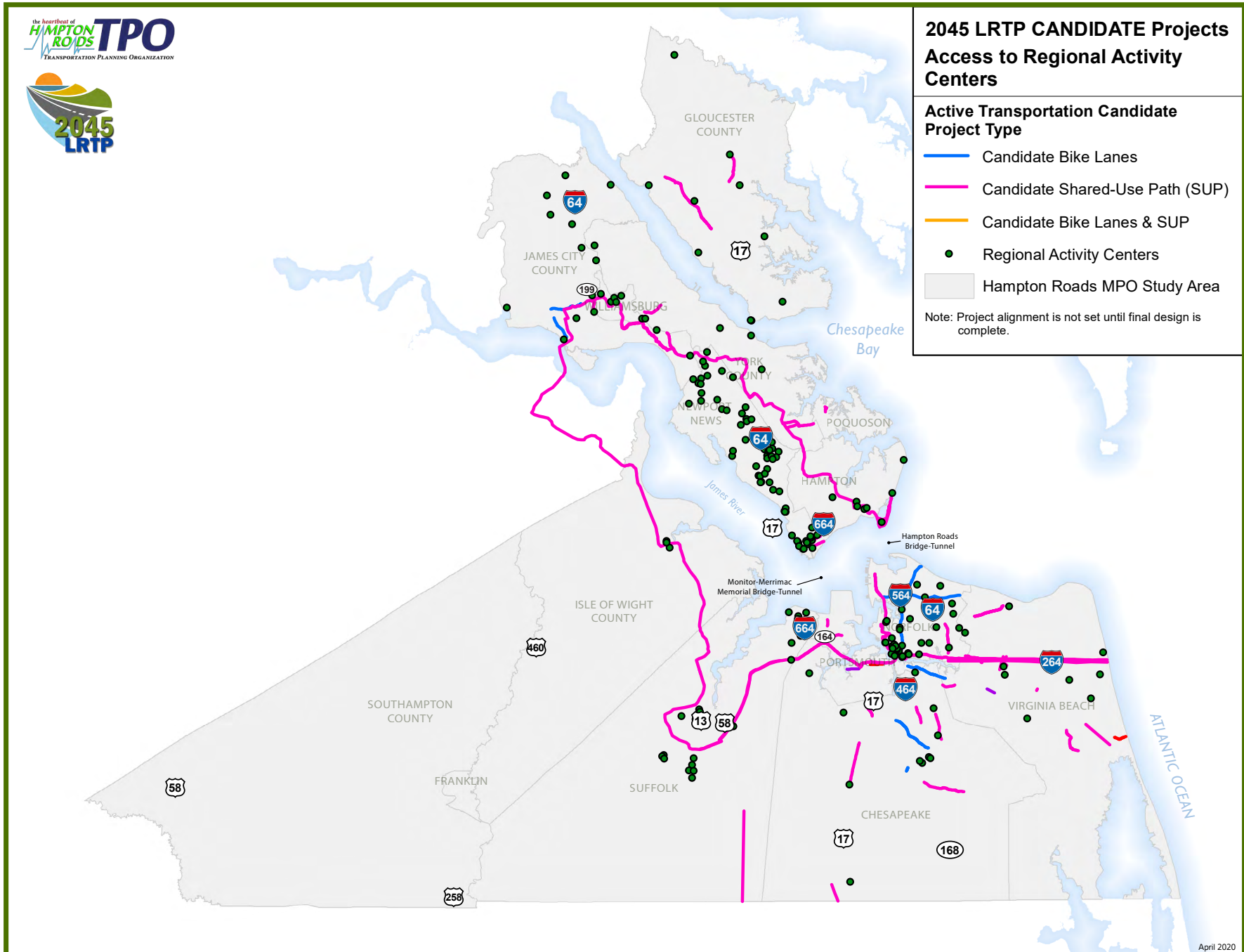
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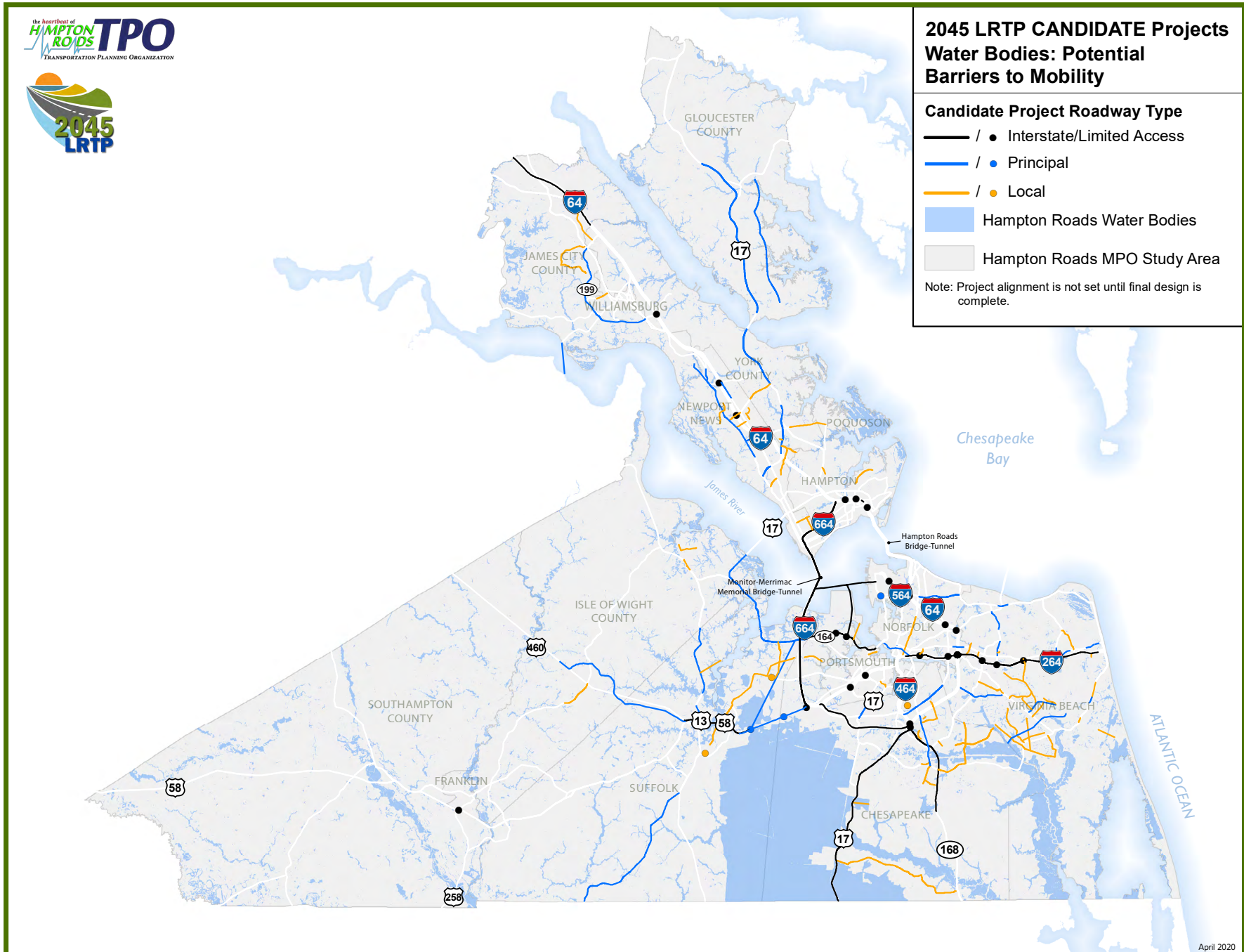
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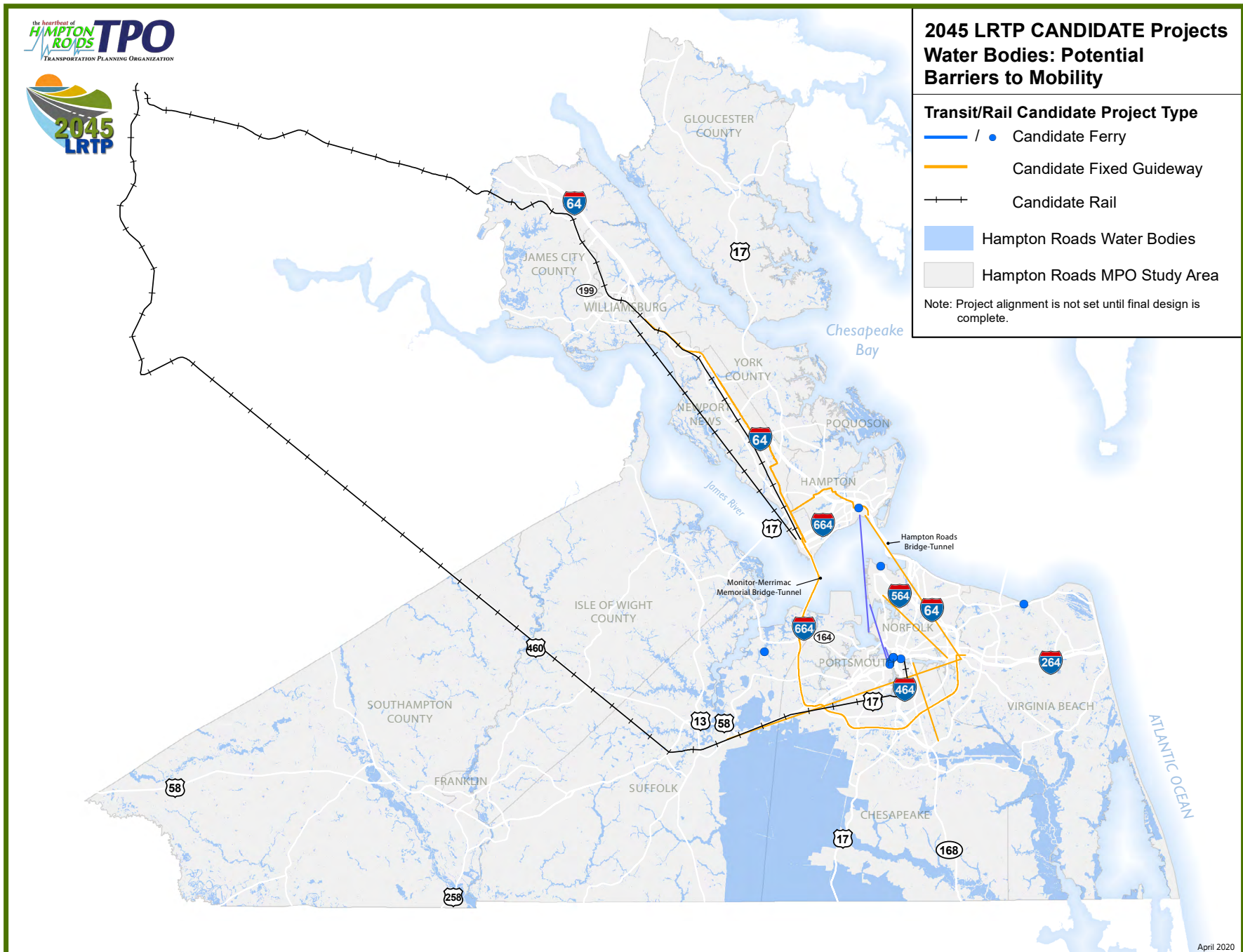
2045 LRTP SPATIAL OVERLAY MAPS



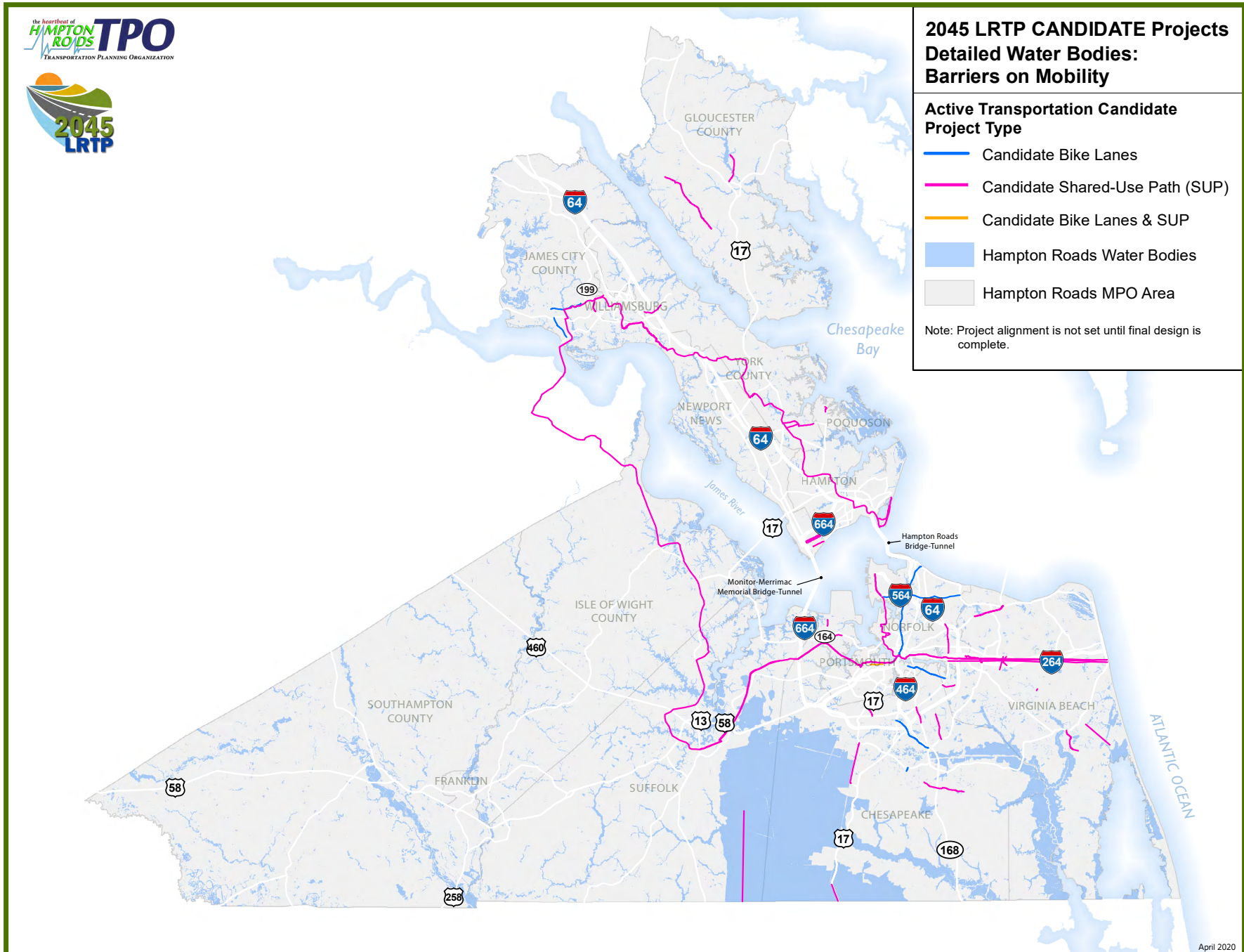
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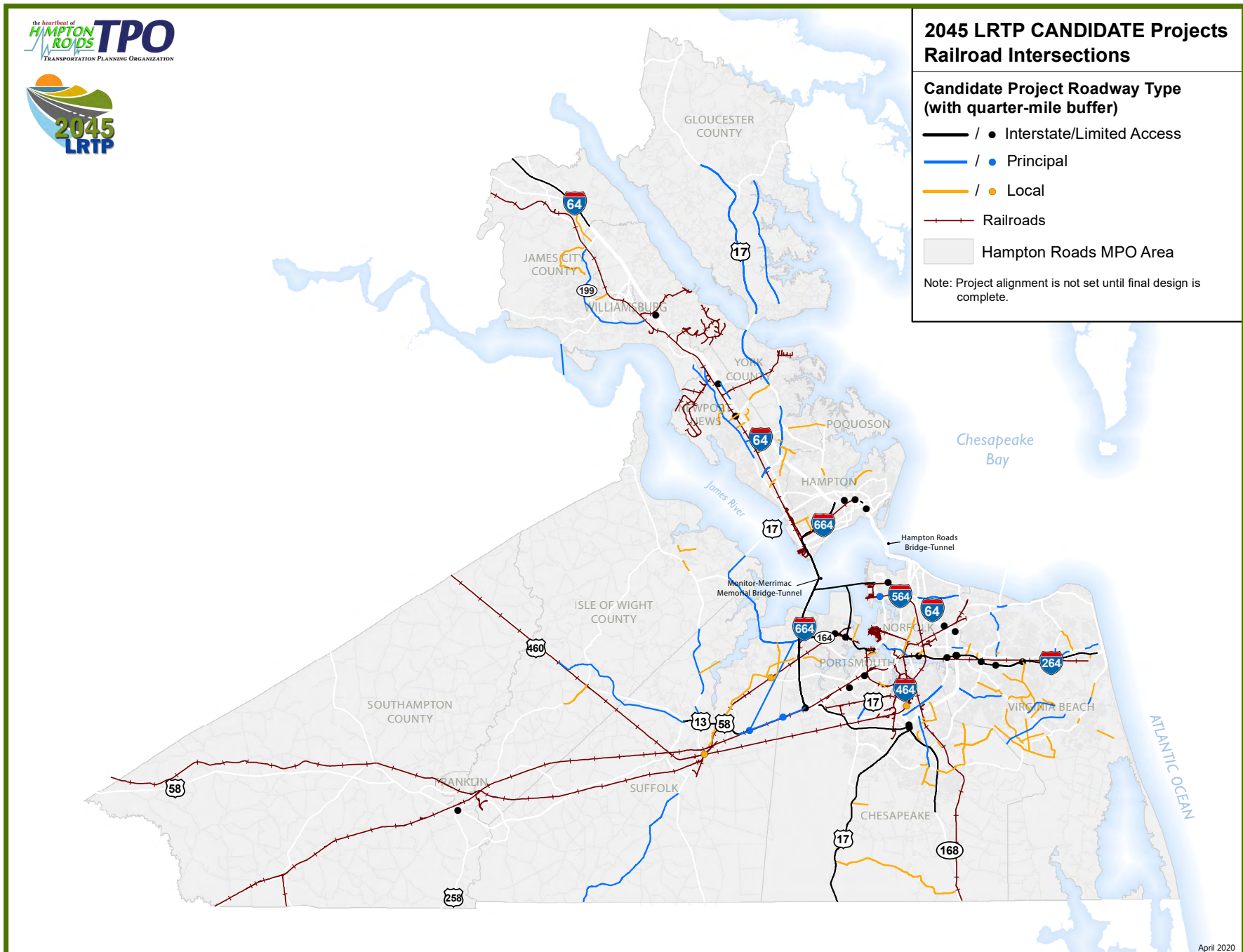
2045 LRTP SPATIAL OVERLAY MAPS



2045 LRTP SPATIAL OVERLAY MAPS



2045 LRTP SPATIAL OVERLAY MAPS



PUBLIC REVIEW

In addition to the public engagement opportunities described within this document, this report was also made available for public review and comment from May 28 – June 12, 2020. No comments were received.

NEXT STEPS

The next steps in the development of the 2045 LRTP will be to evaluate the candidate projects using the approved scenario planning framework and the updated HRTPO Project Prioritization Tool. As part of this process, a congestion screen for potential Regional Priority Projects (projects identified as eligible for Hampton Roads Transportation Funds) will be applied.¹ Results from this analysis, along with a funding plan outlining how the region can finance the construction of project recommendations, will help decision-makers identify the most robust projects for the region to include in the 2045 LRTP.

FINALIZE PROJECT PRIORITIZATION TOOL RECOMMENDED ENHANCEMENTS

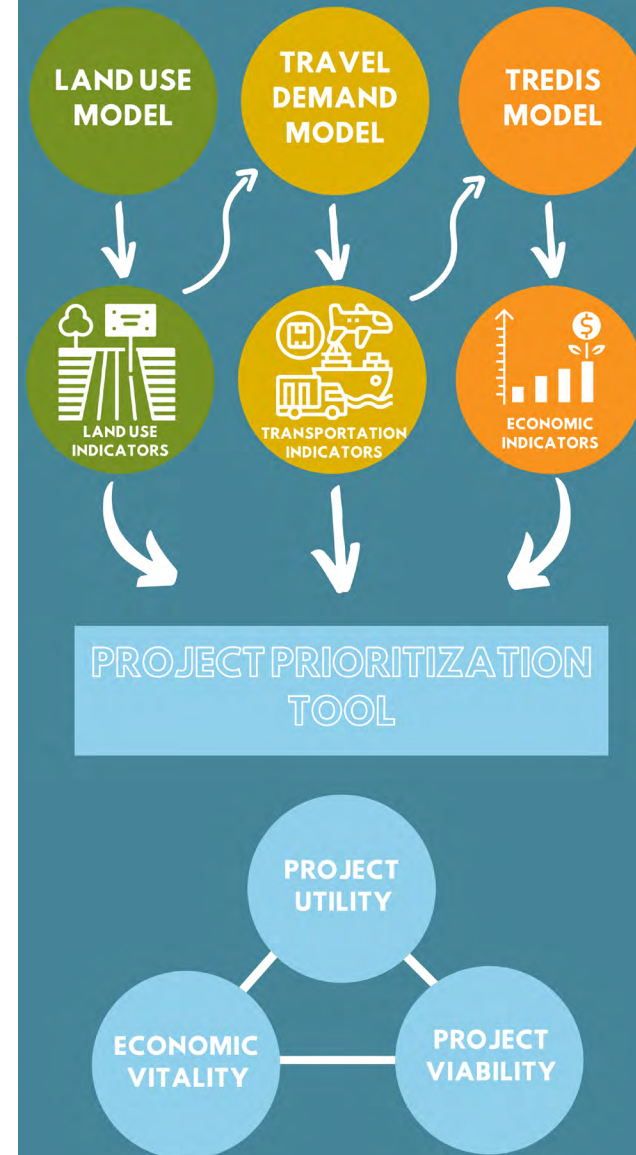
CONDUCT PROJECT EVALUATION AND PRIORITIZATION USING SCENARIO PLANNING AND UPDATED PROJECT PRIORITIZATION TOOL

DEVELOP FUNDING PLAN/FISCAL-CONSTRAINT

ADOPT 2045 LRTP: JUNE 2021

¹For the HRTF congestion screen, congestion measures from the HRTPO Project Prioritization Tool will be used to ensure candidate Regional Priority Projects are meeting the HRTAC requirement in that projects funded with HRTF must provide the most congestion relief for the most citizens in Hampton Roads.

MODELING THE SCENARIOS



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APPENDIX A: SUMMARY OF REGIONAL SURVEYS

As part of the development of the 2045 Long-Range Transportation Plan (LRTP) vision and goals, two surveys were developed to help identify regional priorities: 1) a statistically valid survey, which was conducted through the Regional Connectors Study (RCS), and 2) a web-based public survey. Stakeholder interviews were also conducted through the RCS planning effort.



CAPTURING THE VISION – THE SURVEYS

As part of the development of the 2045 Long-Range Transportation Plan (LRTP), two surveys were developed to help identify regional priorities: 1) a statistically valid survey, which was conducted through the Regional Connectors Study (RCS), and 2) a web-based public survey.

Both surveys were developed in collaboration with regional stakeholders. Potential questions were derived from previous LRTP surveys (i.e. 2034 and 2040) and provided to regional stakeholders for review and comment; survey questions were revised based on the provided feedback.

RCS STATISTICALLY VALID PUBLIC SURVEY SUMMARY

20,000 surveys were mailed to randomly selected households in the Hampton Roads region. An unweighted total of 1,612 responses were received. After reviewing the demographics of submitted surveys, and to ensure diverse groups were represented, an additional 120 participants selected from a Precision Sample online panel submitted survey responses. In total, 1,732 responses were collected for a margin of error of +/- 2.4%. A **full summary on the RCS Statistically Valid Regional Survey** is available on the RCS Resources webpage .

WEB-BASED PUBLIC SURVEY

The web-based public survey covered an array of transportation related topics including critical transportation issues, infrastructure, housing and new job growth, and public/active transportation issues. The survey was active from March 28, 2019 through April 26, 2019. HRTPO staff received 238 survey submissions. Some questions were open ended asking respondents for their “vision” and regional transportation needs in the form of candidate project ideas. Survey responses were compiled and reviewed for common themes as input into the 2045 LRTP vision and goals development process. Candidate project suggestions were reviewed for LRTP applicability and locality compatibility. The following section includes the results of the web-based public survey.



2045 Long-Range Transportation Plan (LRTP) Survey

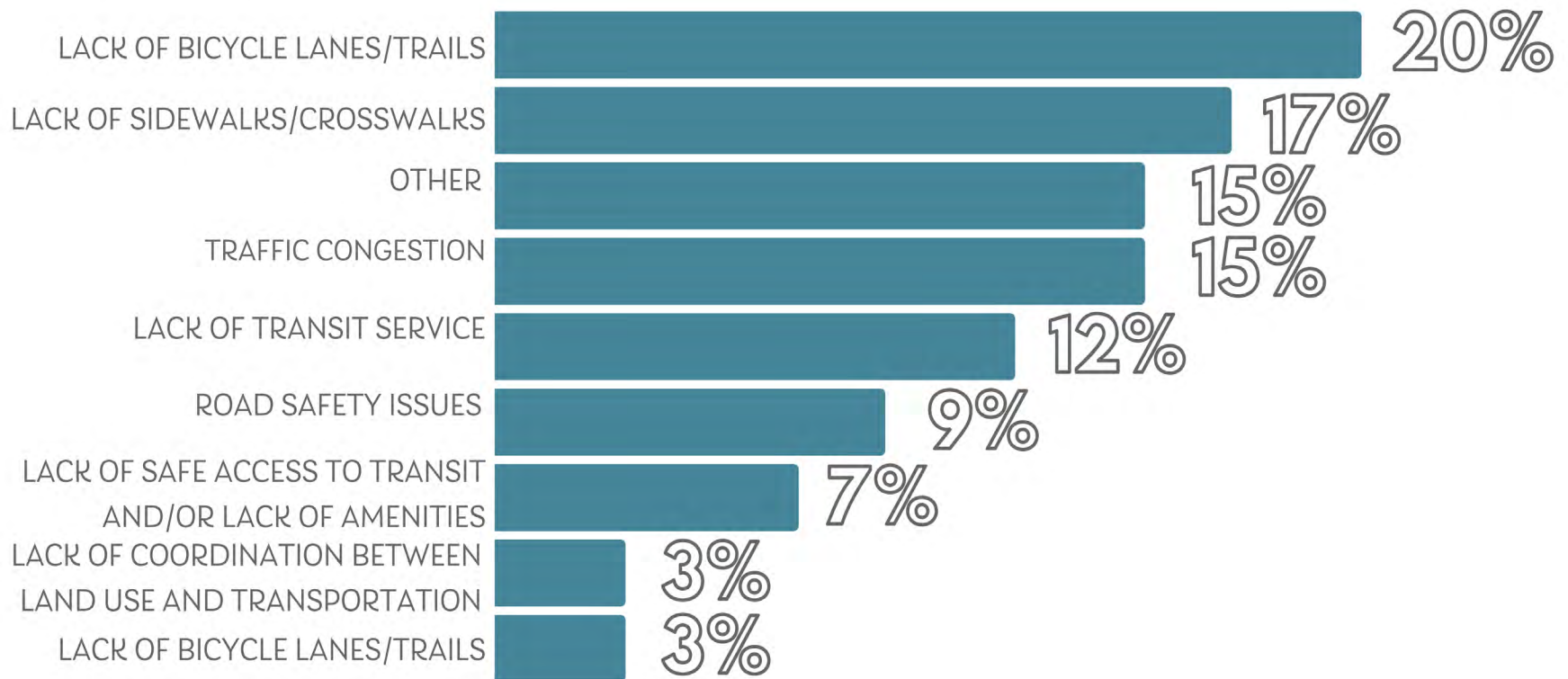
Progress:

Imagine the year 2045 - what will Hampton Roads look like? How will we get around? What transportation choices will be available for the next generation?

The Hampton Roads Transportation Planning Organization (HRTPO) is updating the Long-Range Transportation Plan to the horizon year 2045. This Plan will address future road, transit, passenger rail, freight, bicycle and pedestrian needs for the region. Because these are your needs, and because this plan will directly impact you and shape your quality of life, we want to hear your perspective and opinions on important transportation issues in the region. In this way, together we can shape a vision for Hampton Roads. This short survey should only take about 5-10 minutes to complete and will be used to help guide transportation in Hampton Roads. We thank you for assisting us with identifying these issues, and enabling us to direct resources to solving these needs.

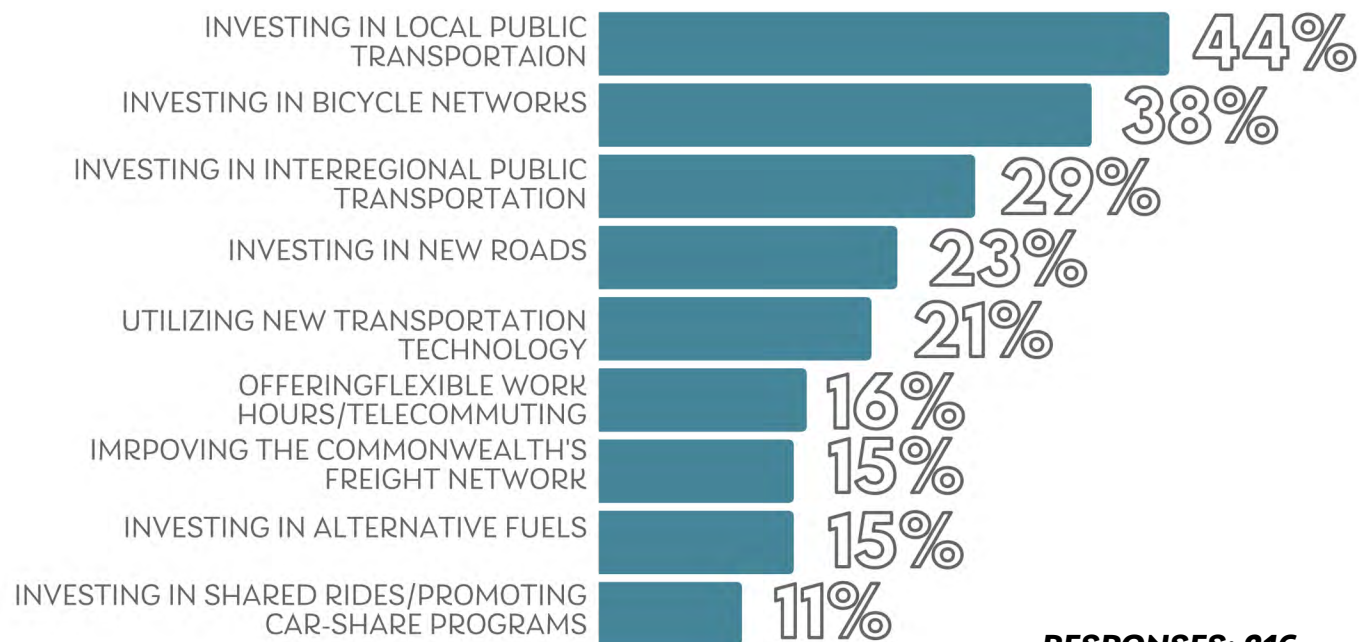
QUESTION 1: WHAT IS THE MOST CRITICAL TRANSPORTATION PROBLEM IN YOUR NEIGHBORHOOD? (CHOOSE ONE)

The top two concerns amongst survey respondents involved the Lack of bicycle lanes/trails and the Lack of sidewalks/crosswalks in their neighborhoods. Following the top two concerns were Traffic congestion and Other (Flooding and Roadway maintenance were most critical transportation problem described in Other).



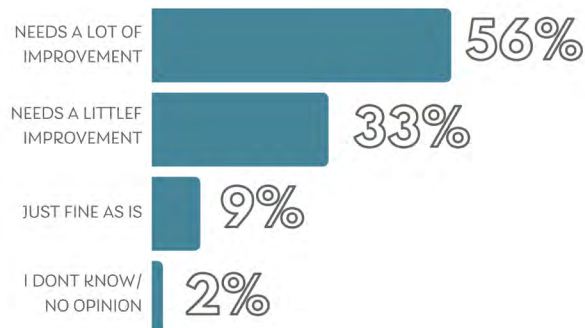
RESPONSES: 223

**QUESTION 2: WHAT SHOULD THE REGION FOCUS ON WITH REGARDS TO TRANSPORTATION IN THE NEXT 10 YEARS?
(PLEASE LIMIT YOUR RESPONSE TO YOUR TOP THREE OPTIONS).**



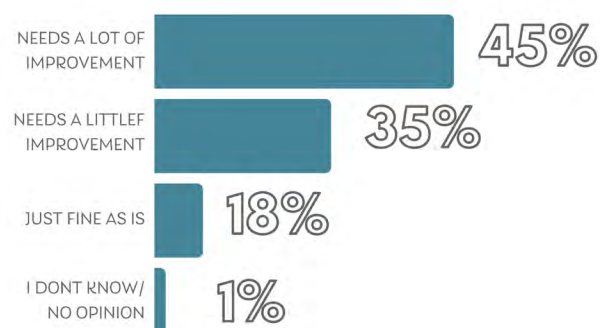
RESPONSES: 216

QUESTION 3: TRAFFIC FLOW ON HIGHWAYS IS...



RESPONSES: 216

QUESTION 4: TRAFFIC FLOW ON LOCAL STREETS AND ROADS IS...



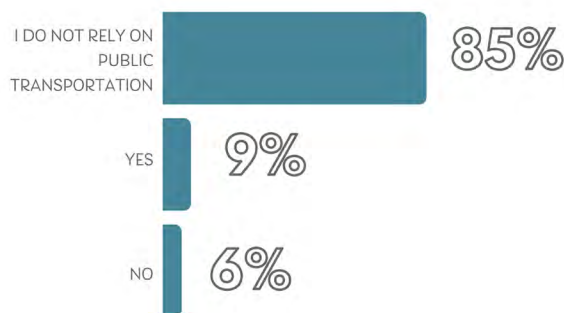
RESPONSES: 216

The survey respondents that selected “Yes” to Question 5 provided comments regarding the limited service/access of public transportation, the unreliability of public transportation, and the long travel times of public transportation. It should be noted that the majority of comments provided by survey respondents selected “I do not rely on public transportation”. Their reasoning for not relying/using public transportation echoed opinions of the survey respondents who selected “Yes”.

As for Question 6, the survey respondents that selected “No” provided comments regarding the lack of security and lack of lighting as their main reasons of feeling unsafe using public transportation.

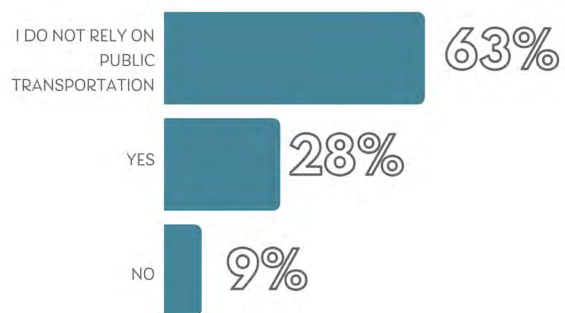
Regarding Question 7, more survey respondents thought that bus service needed a lot of improvement in order for users to get to their destinations in a timely manner than survey respondents who thought that bus service needed only a little improvement.

QUESTION 5: IF YOU RELY ON PUBLIC TRANSPORTATION, DO YOUR TRANSPORTATION OPTIONS PROHIBIT OR LIMIT ACCESS TO IMPORTANT DESTINATIONS (I.E. WORK, SCHOOL, MEDICAL FACILITIES, ETC.)? IF YES, PLEASE EXPLAIN.



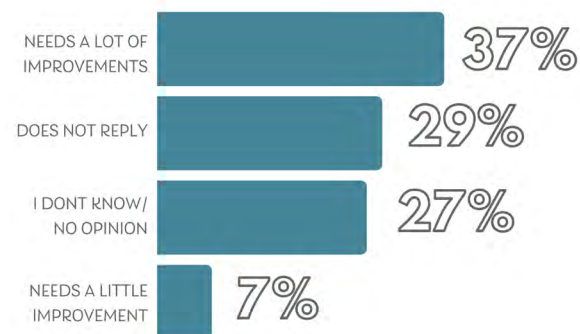
RESPONSES: 214

QUESTION 6: DO YOU FEEL SAFE USING PUBLIC TRANSPORTATION? IF NO, PLEASE EXPLAIN.



RESPONSES: 210

QUESTION 7: BUS SERVICE THAT GETS YOU WHERE YOU WANT TO GO IN TIMELY MANNER IS.....



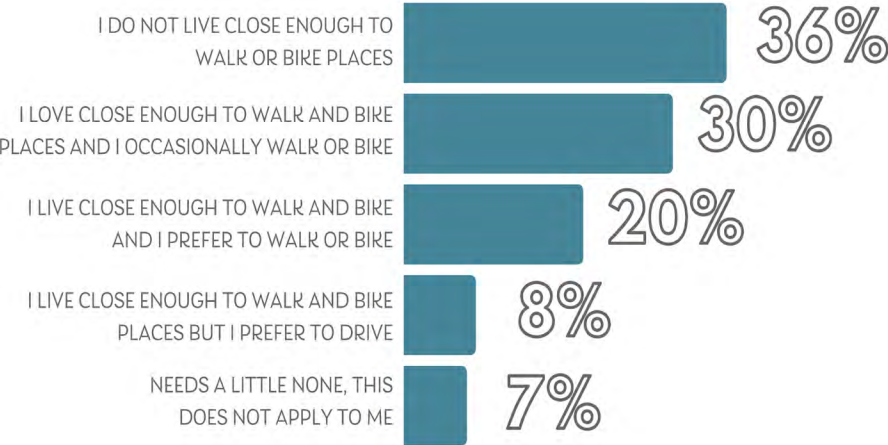
RESPONSES: 208

Regarding the use of active transportation (Question 8), just over a third of survey respondents shared that they do not live close enough to walk or bike to destinations. Another third of survey respondents shared that they do live close enough to walk and bike to destinations and occasionally walk and bike.

The top three barriers to walking and biking to most places for survey respondents were the lack of bike facilities, the belief that they are not safe, and the lack of sidewalks.

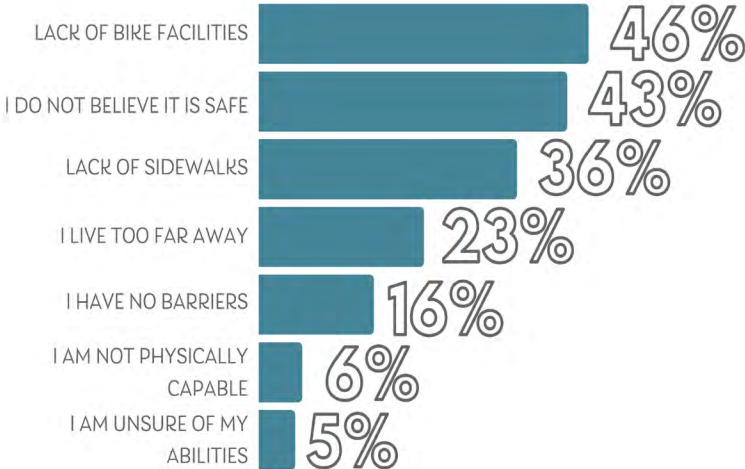
For Question 10, half the survey respondents use bike facilities in Hampton Roads.

QUESTION 8: WHICH METHOD BEST DESCRIBES YOUR USE OF ACTIVE TRANSPORTATION (BIKING AND WALKING)?



RESPONSES: 214

QUESTION 9: WHAT DO YOU BELIEVE ARE YOUR BIGGEST BARRIERS TO WALKING AND BIKING TO MOST PLACES? (PLEASE LIMIT YOUR RESPONSE TO NO MORE THAN THREE BARRIERS.)



RESPONSES: 214

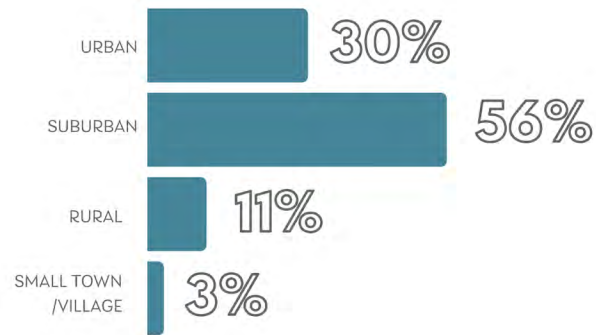
QUESTION 10: DO YOU USE BIKE FACILITIES IN HAMPTON ROADS (FOR EXAMPLE: BIKE TRAILS, BIKE LANES, ETC.)?



RESPONSES: 212

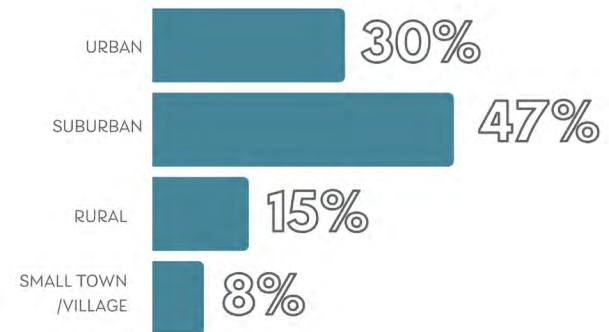
Regarding Question 11 and Question 12, survey respondents would still prefer to live in the same communities in the future as they do now.

QUESTION 11: WHAT TYPE OF COMMUNITY DO YOU LIVE IN?



RESPONSES: 213

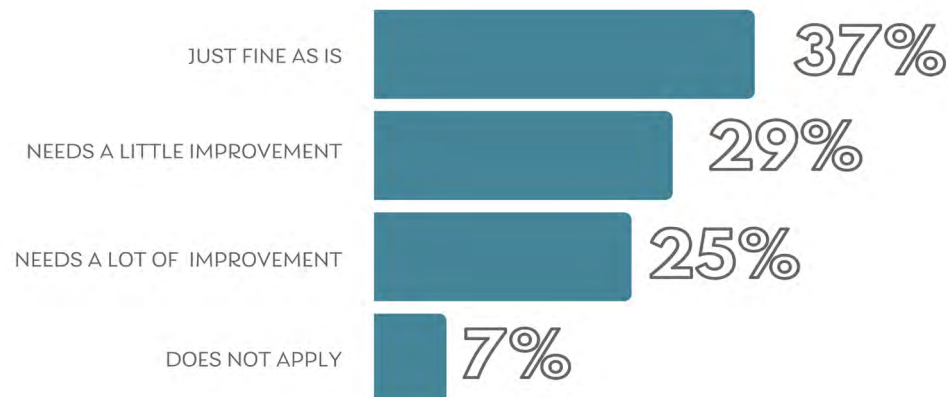
QUESTION 12: IN WHAT TYPE OF COMMUNITY WOULD YOU LIKE TO LIVE IN THE FUTURE (10 – 20 YEARS FROM NOW)?



RESPONSES: 214

QUESTION 13: AMOUNT OF STORES, RESTAURANTS, OTHER SERVICES AND/OR RECREATION WITHIN A 10 MINUTE WALK FROM YOUR HOME...

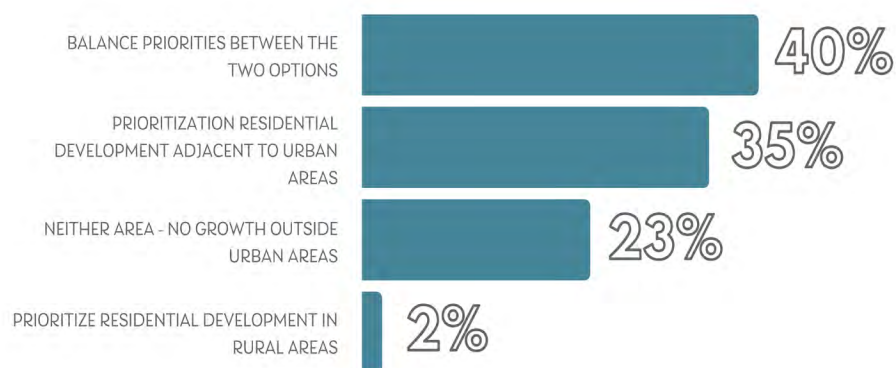
Over one third of the survey respondents thought that the amount of stores, restaurants, other services and/or recreation within a 10 minute walk from their homes were acceptable as is. However, over half of the survey respondents thought that the amount of stores, restaurants, other services and/or recreation within a 10 minute walk from their home needed some kind of improvement.



RESPONSES: 214

QUESTION 14: WHEN CONSIDERING NEW RESIDENTIAL DEVELOPMENT OUTSIDE URBAN AREAS, PICK YOUR FAVORITE STATEMENT.

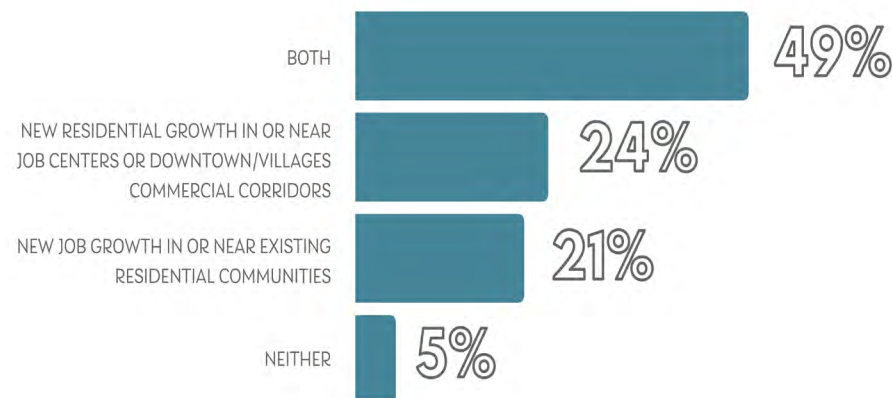
Most survey participants shared that they would either like to prioritize residential development adjacent to urban areas or balance priorities between residential development adjacent to urban areas and residential development in rural areas.



RESPONSES: 204

QUESTION 15: WHEN CONSIDERING NEW HOUSING GROWTH AND NEW JOB GROWTH, DO YOU THINK OUR NEW PLAN SHOULD FOCUS ON...

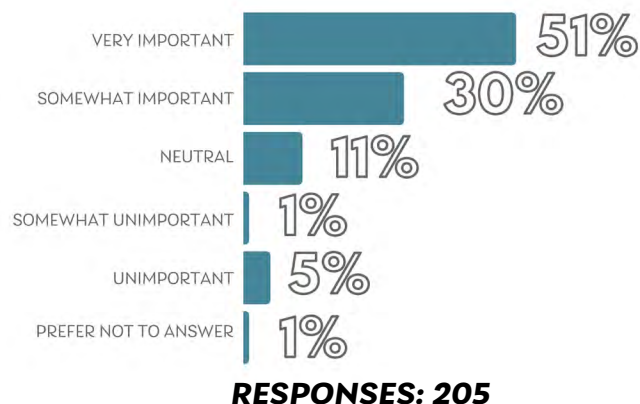
Nearly half of the survey respondents thought that the 2045 LRTP should focus on new residential growth in or near job centers or downtown/villages, and commercial corridors and new job growth in or near existing residential communities.



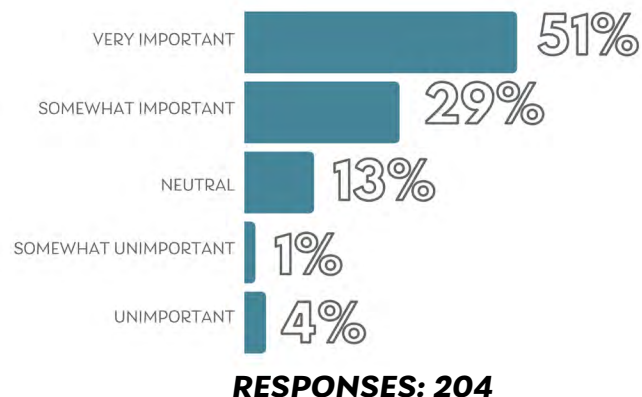
RESPONSES: 204

Half the survey respondents thought the proximity to bus services was very important for growth inside urban areas and for growth adjacent to urban areas.

QUESTION 16: FOR GROWTH INSIDE URBAN AREAS, WHAT ARE YOUR THOUGHTS ON PROXIMITY TO BUS SERVICES?

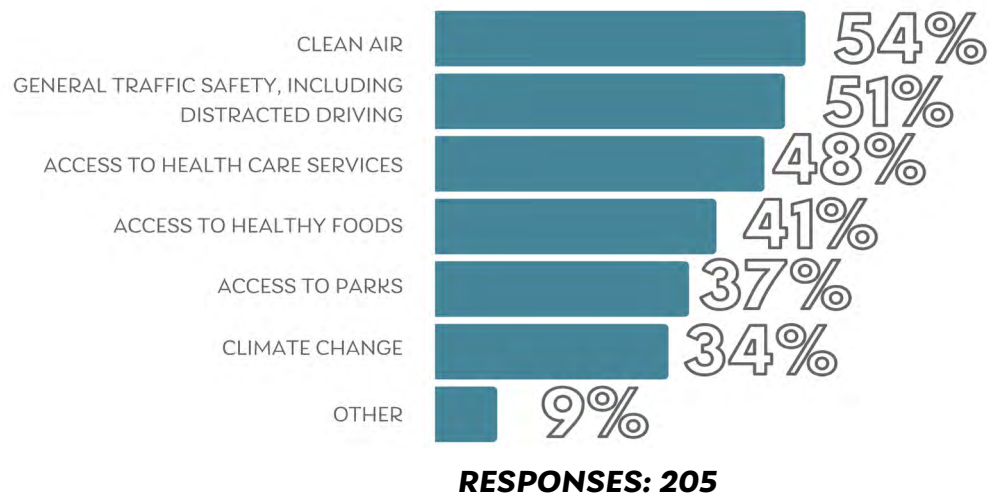


QUESTION 17: FOR GROWTH ADJACENT TO URBAN AREAS, WHAT ARE YOUR THOUGHTS ON PROXIMITY TO BUS SERVICES?



QUESTION 18: WHICH AREAS OF PUBLIC HEALTH ARE MOST IMPORTANT TO YOU? (PLEASE LIMIT YOUR RESPONSE TO NO MORE THAN THREE AREAS.)

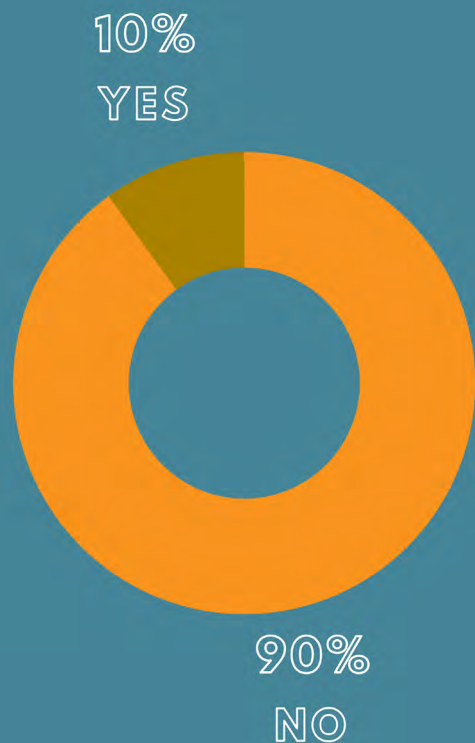
The top three areas of public health that were most important to the survey respondents were clean air, general traffic safety, including distracted driving, and access to health care services.



QUESTION 19

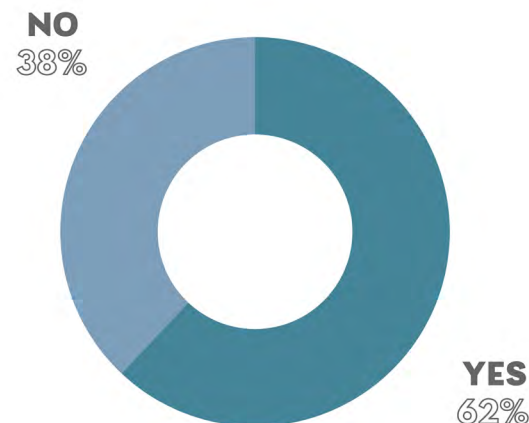
DOES ANYONE IN YOUR HOUSEHOLD HAVE A SPECIAL TRANSPORTATION NEED DUE TO AGE OR DISABILITY?

MOST SURVEY RESPONDENTS INDICATED THAT THEY DO NOT HAVE ANYONE IN THEIR HOUSEHOLD WITH SPECIAL TRANSPORTATION NEEDS DUE TO AGE OR DISABILITY.



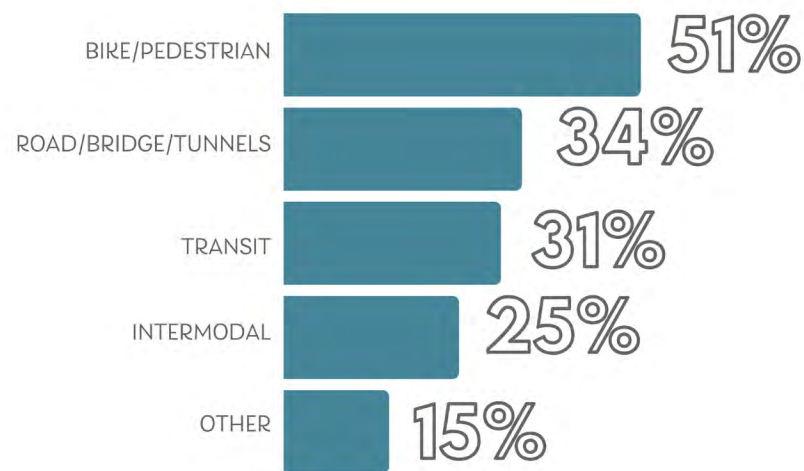
As a part of this survey, the public was provided an opportunity to submit potential candidate transportation projects to be considered for the 2045 LRTP.

QUESTION 20: DO YOU HAVE IDEAS ABOUT SPECIFIC TRANSPORTATION PROJECTS/ LOCATIONS FOR PROJECTS?



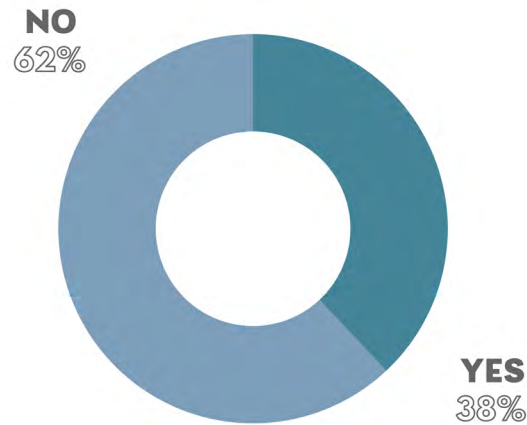
RESPONSES: 203

QUESTION 21: WHAT TYPE OF TRANSPORTATION PROJECT DO YOU WISH TO SEE INCLUDED? PLEASE DESCRIBE THE LOCATION AND THE PROJECT.



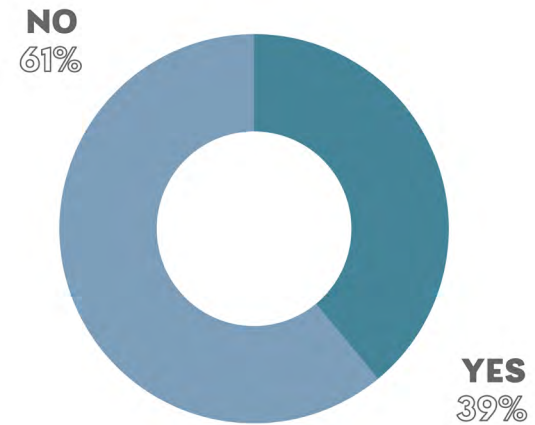
RESPONSES: 130

QUESTION 22: DO YOU HAVE A SECOND PROJECT YOU WOULD LIKE TO INCLUDE?



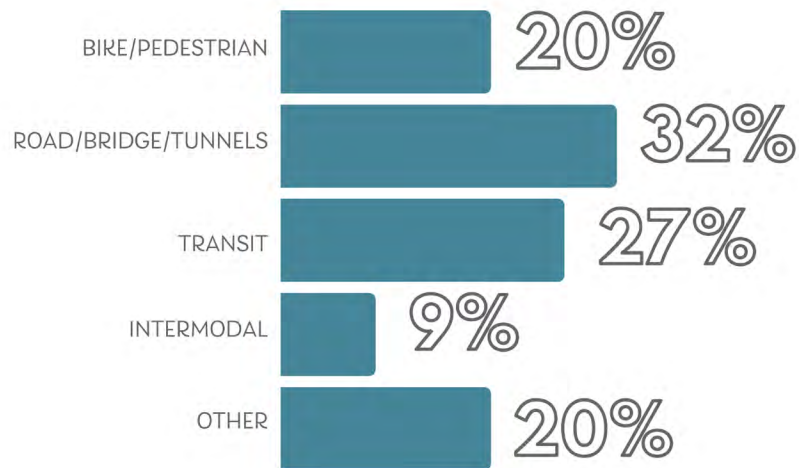
RESPONSES: 129

QUESTION 24: DO YOU HAVE A THIRD PROJECT YOU WOULD LIKE TO INCLUDE?



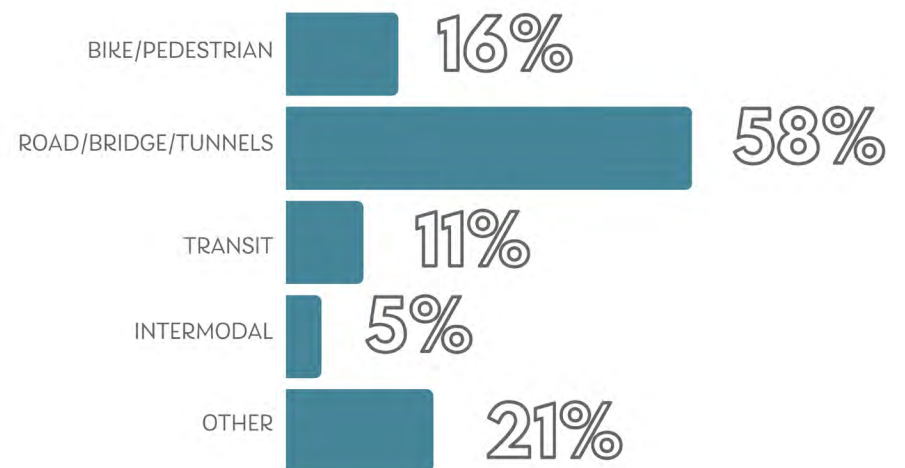
RESPONSES: 49

QUESTION 23: WHAT TYPE OF TRANSPORTATION PROJECT IS THE SECOND PROJECT YOU WISH TO SEE INCLUDED? PLEASE DESCRIBE THE LOCATION AND THE SECOND PROJECT.



RESPONSES: 44

QUESTION 25: WHAT TYPE OF TRANSPORTATION PROJECT IS THE THIRD PROJECT YOU WISH TO SEE INCLUDED? PLEASE DESCRIBE THE LOCATION AND THE THIRD PROJECT.



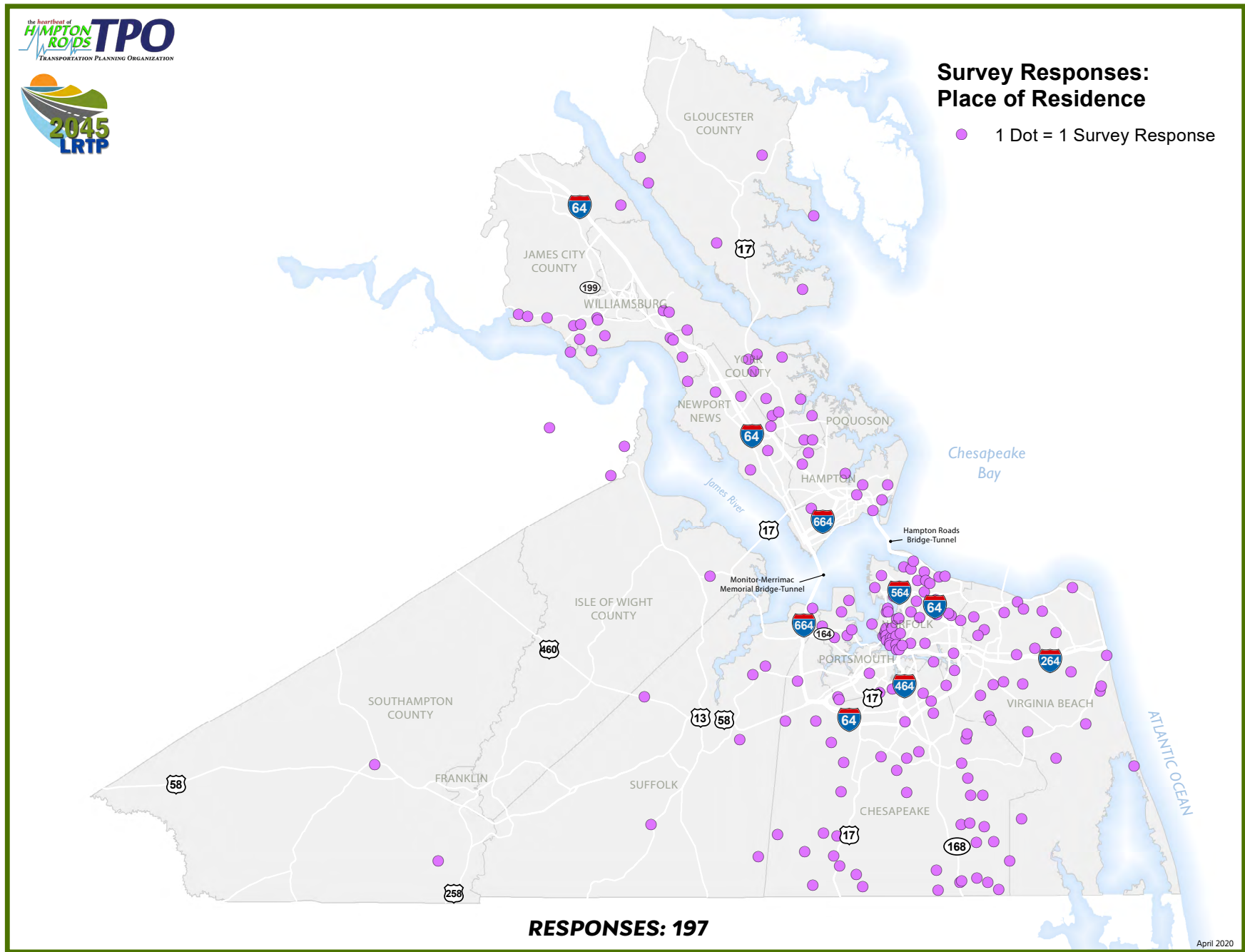
RESPONSES: 19

QUESTION 26: WHAT IS YOUR VISION OF TRANSPORTATION IN HAMPTON ROADS IN 2045? (LIMIT 350 CHARACTERS)

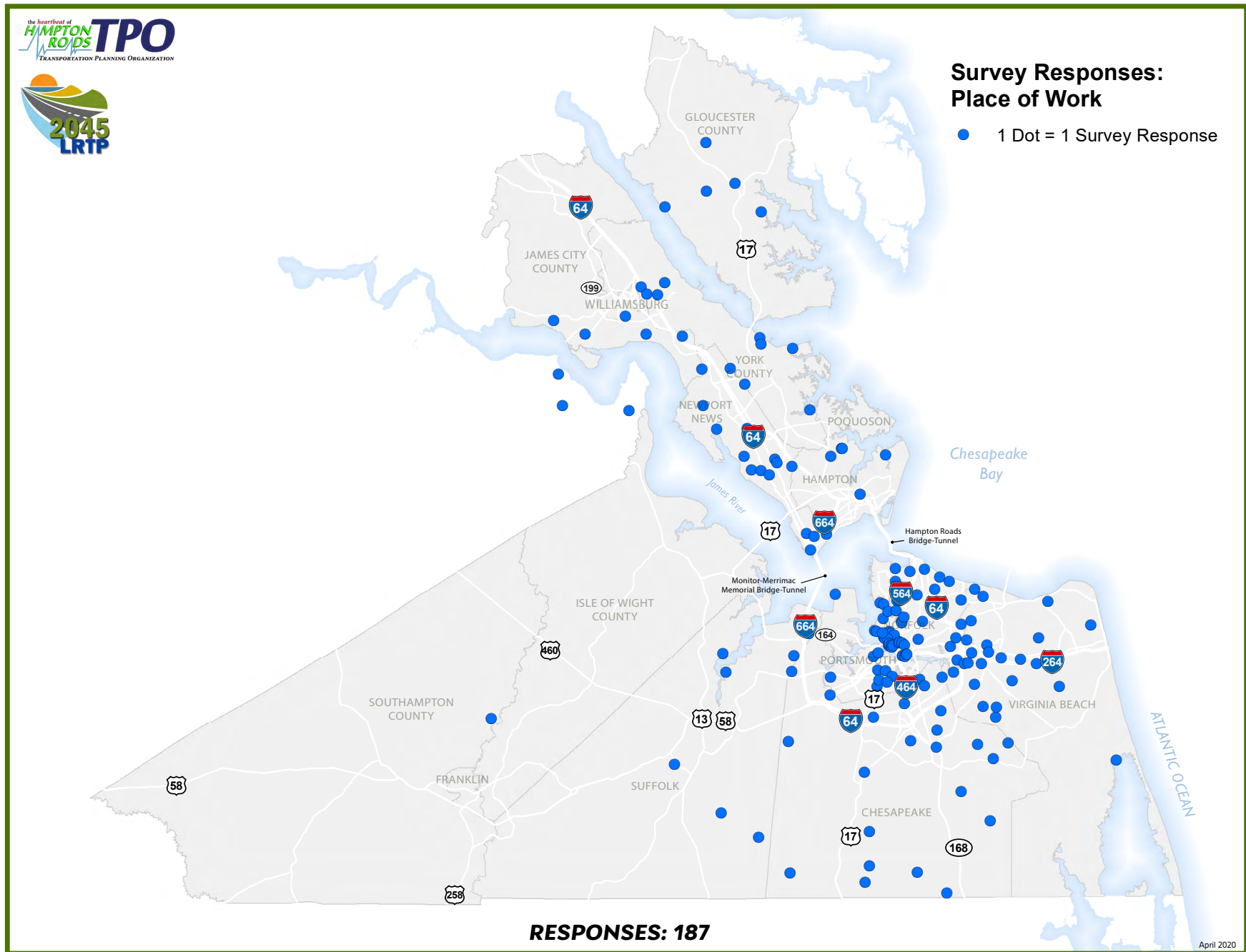
In Question 26, survey respondents provided their vision of transportation in the region in 2045. HRTPO staff evaluated the vision responses and made note of common themes.



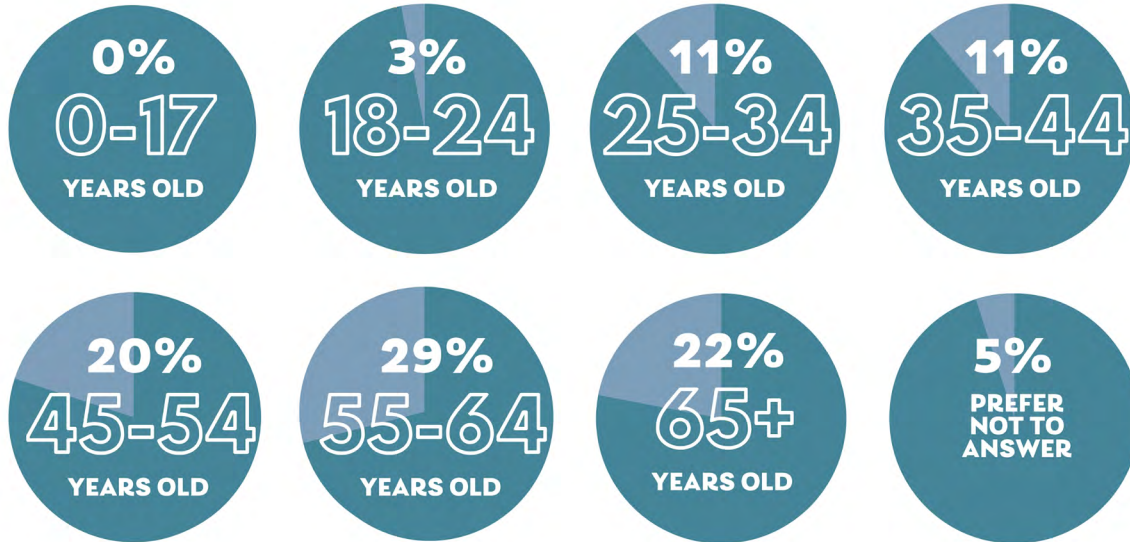
QUESTION 27: WHAT IS THE ZIP CODE OF YOUR HOME RESIDENCE? (5 DIGIT NUMBER)



QUESTION 28: WHAT IS THE ZIP CODE OF YOUR PRIMARY WORKPLACE? (5 DIGIT RESPONSE)

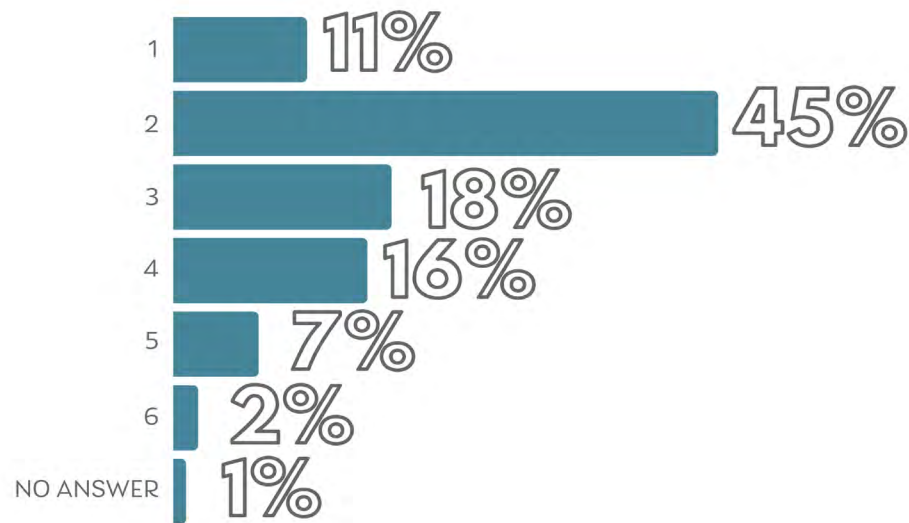


QUESTION 29: WHAT IS YOUR AGE?



RESPONSES: 199

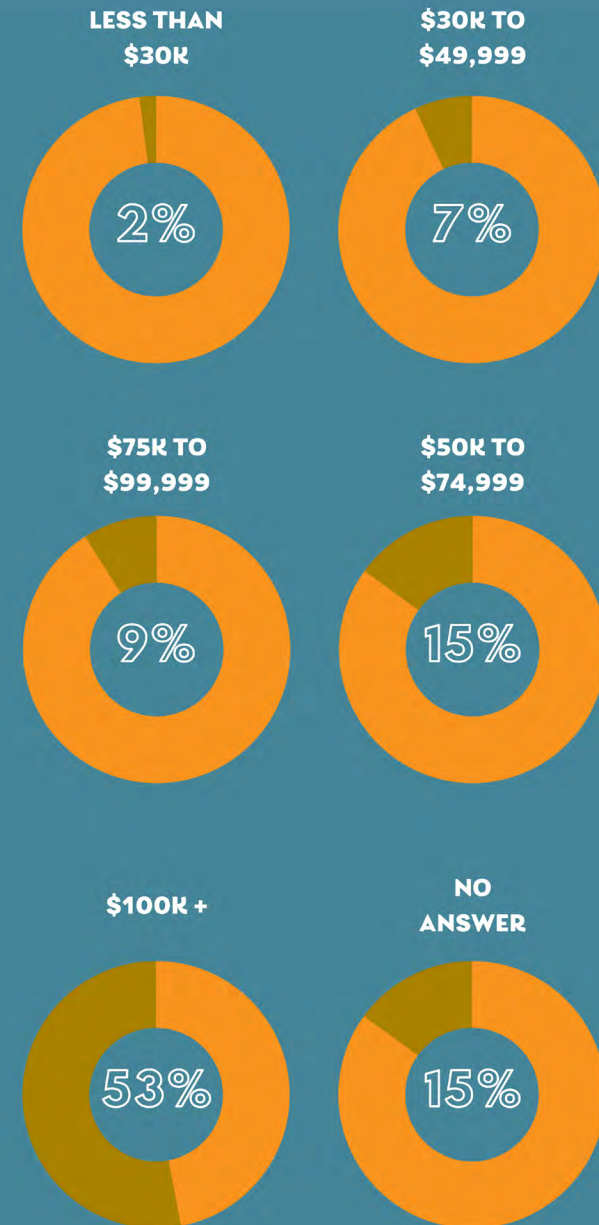
QUESTION 30: HOW MANY PEOPLE LIVE IN YOUR HOUSEHOLD (INCLUDING YOURSELF)?



RESPONSES: 195

QUESTION 31

WHICH LEVEL REPRESENTS YOUR CURRENT HOUSEHOLD INCOME?





APPENDIX B: PUBLIC COMMENTS

As part of the public review of the 2045 LRTP Candidate Projects, comments were submitted by the Southern Environmental Law Center (SELC). HRTPO staff provided a written response to SELC and addressed the project specific comments with the LRTP Subcommittee at its meeting on March 4, 2020. Feedback received from the LRTP Subcommittee was incorporated and remarks were conveyed to SELC in follow up emails.

APPENDIX B: PUBLIC COMMENTS CONTINUED



201 West Main Street, Suite 14
Charlottesville, VA 22902-5065
434-977-4090
Fax 434-977-1483
SouthernEnvironment.org

February 13, 2020

Ms. Theresa Brooks
Transportation Engineer III
Hampton Roads Transportation Planning Organization

BY EMAIL

Re: Draft Candidate Projects for the 2045 Long-Range Transportation Plan

Dear Ms. Brooks:

The Southern Environmental Law Center (SELC) would like to provide the flowing comments on the Hampton Roads Transportation Planning Organization's (HRTPO) draft list of candidate projects for the region's 2045 Long-Range Transportation Plan (LRTP). SELC is a non-partisan, non-profit organization that works throughout Virginia to promote transportation and land use decisions that strengthen our communities, protect our environment, and improve our quality of life.

We appreciate the opportunity to provide input at this early stage of HRTPO's long-range planning process. Thoughtful transportation and land use planning will be especially important in the coming years given the many challenges facing the Hampton Roads region. Among other things, the recent VTrans Mid-term Needs Assessment indicates a growing need to expand and provide more equitable access to public transit and non-motorized transportation options throughout the region, particularly in its urban cores.¹

Hampton Roads also faces some of the most serious climate change-related threats from flooding and sea level rise in the country. As a result, it is essential that the long-range planning process include careful consideration of these risks to the region's transportation infrastructure, and that projects are sited and designed to prevent further loss of natural resiliency features such as wetlands and floodplains that help slow and store flood water and provide communities with valuable storm protection. The threats faced by Hampton Roads also underscore the need to make significant progress in this LRTP toward reducing the region's greenhouse gas (GHG) emissions from the transportation sector—the largest source of GHG emissions in Virginia.

We strongly support the inclusion in the draft candidate list of many projects focused on expanding residents' travel options as well as advancing cleaner transportation modes, including several key projects to expand the region's public transit and passenger rail networks and a host of active transportation improvements. However, in viewing this draft candidate list as a whole and in light of the challenges and threats noted above, we are concerned to see its overwhelming focus on highway expansion. Indeed, highway projects comprise 183 out of 309 total projects on the list (not including interchange and bridge improvements), and the vast majority of these

¹ Office of Intermodal Planning and Investment, Executive Summary and 2019 Mid-Term Transportation Needs, Hampton Roads Construction District at 23 et seq. (Jan. 2020), *available at* http://www.vtrans.org/resources/VTrans_Midterm_Report_HamptonRoads.pdf.

projects involve adding new asphalt. Below we identify several examples from the draft candidate project list that raise serious concerns because of their substantial adverse effects on the region's communities and environment. These proposed projects should be removed from further consideration in the LRTP process.

- **New Route 460 (Suffolk to Zuni):** Previous plans for a new highway parallel to Route 460 were extremely expensive relative to their limited benefits, and ran into serious permitting issues due to their severe impacts on wetlands and other resources. After scoring poorly in SMART SCALE, the Virginia Department of Transportation's (VDOT) most recent plans to build a new highway along this stretch were wisely scrapped in favor of a focus on targeted upgrades to existing Route 460.
- **Route 460/58/13 Connector:** VDOT also recently pulled the plug on a study of improvements—and potential widening—for this stretch of highway after finding that its existing capacity should be able to handle expected travel demand through 2040.² VDOT further found that each of the options under review would have enormous impacts on wetlands in the corridor,³ which runs alongside the Great Dismal Swamp National Wildlife Refuge containing some of Virginia's most important habitat.
- **Southeastern Parkway and Greenbelt:** Similarly, in 2010 the Federal Highway Administration terminated the environmental review process for this project after decades of study in which federal agencies raised serious and repeated concerns with its impacts on wetlands and other resources—essentially finding this project unpermissible.⁴ These issues were significant in 2010, but are even greater today in light of the immediate threats posed by climate change and the need to protect wetlands as a resiliency resource for local communities.
- **Nimmo Parkway Phase VII-B:** This proposal to build a raised parkway across part of the Back Bay National Wildlife Refuge and through the largest contiguous forest in the Back Bay watershed raises serious concerns regarding impacts on wildlife populations and habitat. Further, it threatens to exacerbate local flooding both to the north and the south of the proposed parkway by restricting the normal bi-directional flow of water in response to winds, tides, and rainstorms, and by isolating wetlands that help absorb floodwaters. Improving the existing Sandbridge Road corridor is a far less damaging alternative that should be pursued instead.

² See Angel Deem, Presentation to HRTPO, "Route 460/58/13 Connector Environmental Assessment (EA) Status Update (Nov. 15, 2018), *available at* https://www.hrtpo.org/uploads/docs/111518%20P13%20-%20Route%20460%2058%2013%20TPO%20Meeting%2011-15-18_Rev.pdf.

³ VDOT reported that the wetlands impacts of the four alternatives under review ranged from 76.7 acres for the six-lane option to improve access at the eastern end of the corridor to 98.9 acres for the eight-lane option to improve access at both the eastern and western ends. *Id.*

⁴ "Termination of Environmental Review Process Cities of Chesapeake and Virginia Beach, VA," 75 Fed. Reg. 70351 (Nov. 17, 2010) (noting that the proposal would result in the net loss of over 170 acres of wetlands and quoting the U.S. Environmental Protection Agency's comments that "even the best mitigation may not be able to adequately compensate for the environmental harm expected" from the project).

APPENDIX B: PUBLIC COMMENTS CONTINUED

Finally, we also recommend close scrutiny of any proposals for the Bowers Hill Interchange. While we recognize the importance of this interchange to the region's transportation network, it is located in a sensitive area containing several environmental justice communities, substantial wetlands, streams, and floodplains, and in close proximity to the Great Dismal Swamp National Wildlife Refuge. Expansion of this vast interchange could also have significant effects in increasing vehicle miles traveled and related GHG emissions. These communities and potential impacts must be carefully considered in relation to any potential improvements to this facility.

Thank you for your consideration, and we look forward to continuing to participate as this long-range planning process moves forward.

Sincerely,



Morgan Butler
Senior Attorney



Travis Pietila
Staff Attorney



John L. Rowe, Jr., Chair, Donnie R. Tuck, Vice-Chair
Robert A. Crum, Jr., Executive Director

February 24, 2020

Mr. Morgan Butler, Senior Attorney
Mr. Travis Pietila, Staff Attorney
Southern Environmental Law Center
201 West Main Street, Suite 14
Charlottesville, VA 22902-5065

Re: Draft Candidate Projects for the 2045 Long-Range Transportation Plan

Dear Mr. Butler and Mr. Pietila,

Thank you for participating in the HRTPO's 2045 Long-Range Transportation Plan (LRTP) public comment and review period. SELC's comments, along with other public input, help to inform HRTPO of public and stakeholder concerns and questions. Knowing your concerns and questions help us to consider and address them during the LRTP planning process.

We agree that long-range planning should include careful consideration of potential risks to the region's transportation infrastructure and have developed recommendations to enhance our Project Prioritization Tool (tool designed to objectively measure effectiveness, economic vitality, and viability of projects) to include resiliency and other environmental measures. The Project Prioritization Tool will be used to evaluate and rank projects to be considered for inclusion in the 2045 LRTP (to learn more about the HRTPO Project Prioritization Tool and the recommended enhancements, please visit <https://www.hrtpo.org/page/project-prioritization/>).

With regard to SELC's comments on the quantity of highway candidate projects, I'd like to provide some background on the candidate list. Candidate projects are proposals for the HRTPO to consider for potential inclusion in the LRTP. These proposed projects are subjected to a rigorous evaluation process and fiscal constraint (demonstration that sufficient funds will be available to cover project costs). Less than half of the 300+ candidate projects will ultimately make it into the Plan. The candidate projects came from a variety of sources, including the current 2040 LRTP, 2040 Vision Plan, other HRTPO planning studies, HRTPO advisory committees, and public input. Therefore, the quantity of any particular group of candidate projects is not a reflection of a preferred mode, but a result of the unrestricted collection process.

The HRTPO is committed to planning a balanced, multimodal transportation system through our LRTP and other planning efforts, and the final 2045 LRTP will support a multimodal system in which all transportation modes, including transit, active transportation, etc., are represented. In addition, over the past few years, HRTPO staff has been coordinating with regional stakeholders and the public to develop a regional active transportation plan. *Linking Hampton Roads, A Regional Active Transportation Plan*, is a framework to help improve safety and connectivity for non-motorized modes like walking and bicycling, and to promote more active and healthy lifestyles. The HRTPO is also a strong advocate for dedicated transit funding to help improve the quality of our regional transit system and promote transportation choices for our residents.

APPENDIX B: PUBLIC COMMENTS CONTINUED

We will forward your project specific comments to the appropriate localities and agencies. As part of our outreach to environmental agencies regarding development and environmental mitigation discussions associated with the 2045 LRTP, we would like to include SELC's comments as a resource. Please let us know if you have any issues/concerns with us sharing your comments.

Sincerely,



Theresa Brooks
Transportation Engineer III

TB/nb

Dale Stith

From: Travis Pietila <tpietila@selcva.org>
Sent: Monday, March 30, 2020 4:13 PM
To: Theresa Brooks
Cc: Morgan Butler; Dale Stith; Mike Kimbrel
Subject: RE: SELC Comments on 2045 LRTP Candidate Projects

Theresa,

I hope everyone at HRTPO is staying safe and healthy. Sorry for the delay in responding, but we appreciate your update on the LRTP planning process, as well as the close consideration that you and the LRTP Subcommittee have given to our comments.

We look forward to continuing to participate as planning for the LRTP moves forward, and will let you know if we have any further questions.

Best,
Travis

Travis Pietila
Staff Attorney
Southern Environmental Law Center
201 West Main Street, Suite 14
Charlottesville, VA 22902
(434) 977-4090
SouthernEnvironment.org

From: Theresa Brooks [mailto:tbrooks@hrtpo.org]
Sent: Monday, March 23, 2020 10:22 AM
To: Travis Pietila
Cc: Morgan Butler; Dale Stith; Mike Kimbrel
Subject: RE: SELC Comments on 2045 LRTP Candidate Projects

Good Morning Travis,

Hope you're doing well. I wanted to follow up to inform you that we shared SELC's comments regarding the 2045 LRTP Candidate Projects with the LRTP Subcommittee at its meeting on March 4, 2020 (links to the meeting agenda and associated presentation included below). In addition to summarizing SELC's comments in the presentation, we also included your submitted comments as an attachment. At that meeting, the LRTP Subcommittee made the following suggestions regarding the project specific SELC comments:

- Route 460 (Suffolk to Zuni)
 - SELC concerned over "serious permitting issues." Also, refined improvements have been developed that focus on targeted upgrades to the existing Route 460.
 - LRTP Subcommittee response: Long term capacity needs still need to be addressed along corridor, so retain as a candidate project.
- US 460/58/13 Connector

APPENDIX B: PUBLIC COMMENTS CONTINUED

- SELC concerned because recent VDOT study was halted because "existing capacity should be able to handle expected travel demand through 2040" and "VDOT further found that each of the options under review would have enormous impacts on wetlands in the corridor"
 - L RTP Subcommittee response: There are safety concerns along the corridor; therefore, retain candidate project. However, modify project description to reflect safety improvements along corridor (not a widening), including a potential interchange at regional landfill to reduce cross-traffic conflicts.
- Southeastern Pkwy and Greenbelt (SEPG)
 - SELC concerned because FHWA "terminated the environmental review process" over "raised serious and repeated concerns with its impacts on wetland and other resources - essentially finding this project unpermittable" and that these issues "are even greater today in light of the immediate threats posed by climate change and the need to protect wetlands as a resiliency resource for local communities."
 - L RTP response: Virginia Beach staff will modify the project termini, submitting two viable segments of the SEPG to evaluate as candidate projects.
- Nimmo Pkwy VII-B
 - SELC concerned over potential "impacts on wildlife populations and habitat" and states the project could "exacerbate local flooding" thereby "restricting the normal bi-directional flow of water in response to winds, tides, and rainstorms, and by isolating wetlands that help absorb floodwaters." SELC further suggests that "Improving the existing Sandbridge Road corridor is a far less damaging alternative that should be pursued instead."
 - L RTP Subcommittee response:
 - Tara Reel, Transportation and Transit Planner, City of Virginia Beach, stated that "The main purpose of the transportation improvements to Sandbridge Road are to reduce recurring flooding. The environmental impacts are essentially the same for Sandbridge Road and Nimmo Parkway. It becomes more difficult to raise Sandbridge Road because of the proximity to houses, driveways, septic tanks, parking areas, etc. Raising Sandbridge Road and providing the necessary shoulder treatments would likely result in impacts to residential or commercial properties due to inadequate access or driveways that are too steep. Therefore, Nimmo Parkway becomes a less impactful option at that point. Also, as provided in the approved United States Army Corps of Engineers (USACOE) permit with Sandbridge—Nimmo 7A, there are culvert crossings to allow natural stormwater flow to occur. There are also culvert crossings dedicated for wildlife movement as well. In addition to the bridge for Nimmo 7B, we would anticipate similar infrastructure for stormwater and wildlife movement."
 - Based on VB's response, project will be retained as a candidate project.

Additionally, we shared SELC's concerns regarding the Bowers Hill Interchange candidate project with the L RTP Subcommittee at that meeting. We will also forward SELC's concerns over this project to the Bowers Hill Interchange Study Working Group.

Please feel free to reach out to us if you have any additional questions or comments.

March 4, 2020 L RTP Subcommittee Agenda
<https://www.hrtpo.org/events/details/790/lrtp-subcommittee/>

Agenda Item 6 - 2045 Long-Range Transportation Plan Candidate Projects: Comments Received Presentation
<https://www.hrtpo.org/uploads/docs/030420%20P6-2045LRTP-CandidateProjects-Comments-030420.pdf>

2

Thank you,
Theresa



Theresa K. Brooks
 Transportation Engineer III
 Hampton Roads Transportation Planning Organization
 723 Woodlake Drive
 Chesapeake, Virginia 23320
 phone: 757-420-8300 | fax: 757-523-4881
 email: tbrooks@hrtpo.org
[like us on Facebook](#) [follow us on twitter](#)

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From: Travis Pietila <tpietila@selcva.org>
Sent: Thursday, February 27, 2020 2:29 PM
To: Theresa Brooks <tbrooks@hrtpo.org>
Cc: Morgan Butler <mbutler@selcva.org>; Dale Stith <dstith@hrtpo.org>; Mike Kimbrel <mkimbrel@hrtpo.org>
Subject: RE: SELC Comments on 2045 L RTP Candidate Projects

Theresa,

We appreciate HRTPO's consideration of our comments, and please feel free to include them in your outreach to environmental agencies. We look forward to continuing to participate as this 2045 Long-Range Transportation Plan process moves forward.

Best,
Travis

Travis Pietila
 Staff Attorney
 Southern Environmental Law Center
 201 West Main Street, Suite 14
 Charlottesville, VA 22902
 (434) 977-4090
SouthernEnvironment.org

From: Theresa Brooks [<mailto:tbrooks@hrtpo.org>]
Sent: Wednesday, February 26, 2020 1:55 PM
To: Travis Pietila
Cc: Morgan Butler; Dale Stith; Mike Kimbrel
Subject: RE: SELC Comments on 2045 L RTP Candidate Projects

Mr. Pietila,

3

APPENDIX B: PUBLIC COMMENTS CONTINUED

Thank you for reviewing and providing comments regarding the draft candidate projects list for the HRTPO's 2045 Long-Range Transportation Plan. Please find attached our response to SELC's comments. As noted in the letter, we plan to share SELC's project specific comments at our next LRTP Subcommittee meeting with the appropriate localities and agencies. Additionally, we would like to include SELC's comments as a resource in our outreach to environmental agencies.

If you have any additional questions or comments, please do not hesitate to contact us.

Thank you,
Theresa



Theresa K. Brooks
Transportation Engineer III
Hampton Roads Transportation Planning Organization
723 Woodlake Drive
Chesapeake, Virginia 23320
phone: 757-420-8300 | fax: 757-523-4881
email: tbrooks@hrtpo.org



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From: Travis Pietila <tpietila@selcva.org>
Sent: Thursday, February 13, 2020 10:17 AM
To: Theresa Brooks <tbrooks@hrtpo.org>
Subject: SELC Comments on 2045 LRTP Candidate Projects

Ms. Brooks,

Please find attached comments from the Southern Environmental Law Center on the draft candidate projects list for HRTPO's 2045 Long-Range Transportation Plan.

Thank you for your consideration,

Travis Pietila

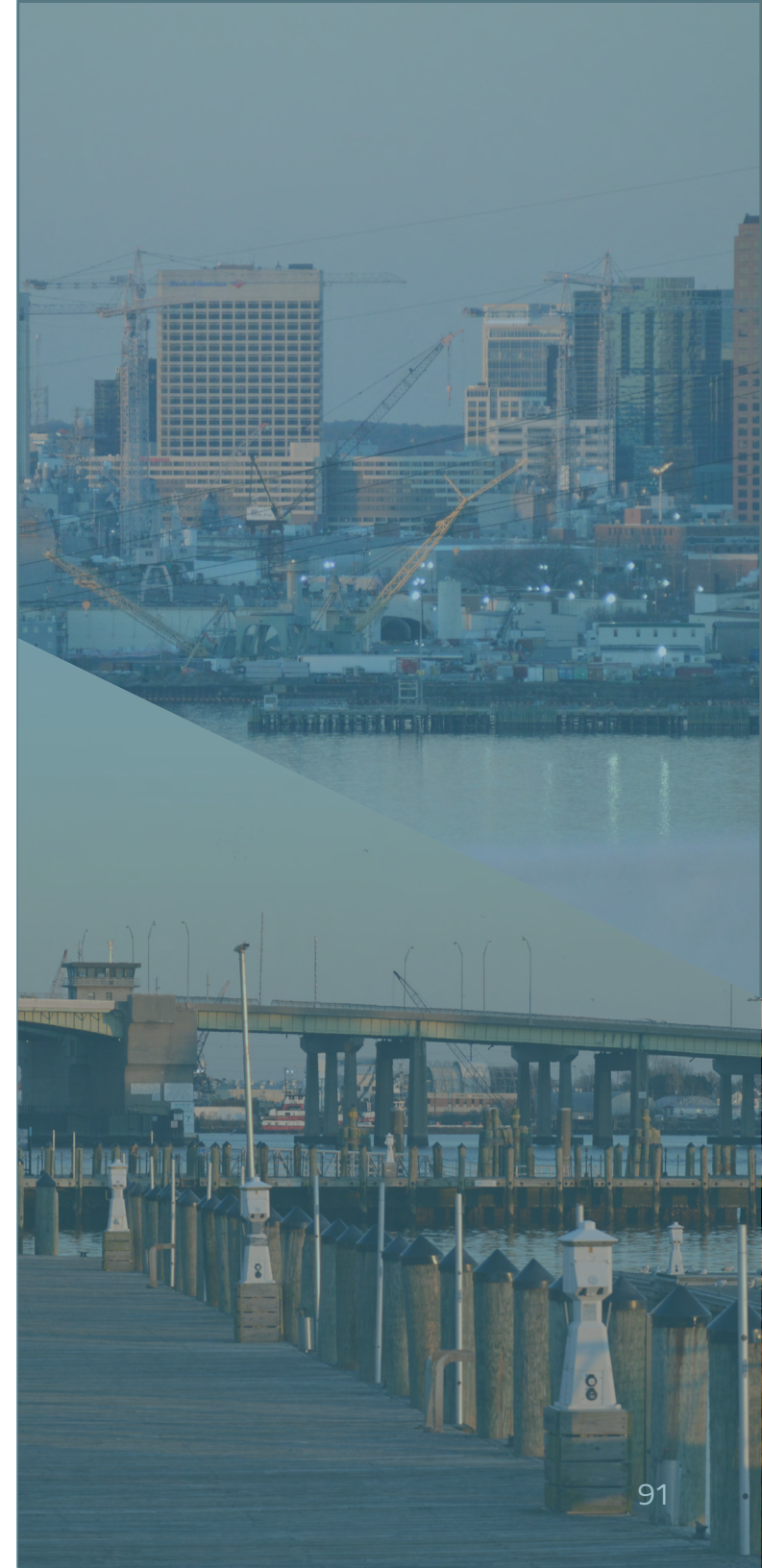
Travis Pietila
Staff Attorney
Southern Environmental Law Center
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(434) 977-4090
SouthernEnvironment.org

APPENDIX C: LIST OF COMMITTED AND CANDIDATE PROJECTS

In order to determine the best alternatives to effectively address future regional needs, a list of candidate projects for consideration in the 2045 LRTP has been developed using various sources including:

- 2040 LRTP and Regional Vision Plan
- HRTPO planning studies
- Public input received via a web-based public survey
- Locality and regional stakeholder input received from HRTPO advisory and technical committees

Candidate transportation projects will be evaluated through the HRTPO Project Prioritization Tool and each of the 2045 LRTP alternative scenarios in an effort to identify those projects that provide the most benefit to the region regardless of which future assumption is analyzed.



2045 LRTP COMMITTED PROJECTS

2045 LRTP COMMITTED PROJECTS								
2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	COMMITTED STATUS
BRIDGE/TUNNEL								
2045-1	Multi-jurisdictional	Chesapeake Bay Bridge-Tunnel Parallel Thimble Shoal Tunnel 1	Virginia Beach	Northampton County	2	4	Construct a new 2-lane immersed tube, concrete box tunnel across Thimble Shoal Channel between Northampton County and Virginia Beach. Removes 2-lane, 2-way conflict tunnel for portion of Chesapeake Bay Bridge Tunnel.	Project under construction
2045-2	Multi-jurisdictional	I-64 Widening Including Hampton Roads Bridge-Tunnel	I-664 (Hampton Coliseum)	I-564	4/6	6	Widening to 6 lanes including Hampton Roads Bridge-Tunnel.	Advertised for construction
2045-7	Multi-jurisdictional	I-64 Southside Widening Including High Rise Bridge Phase I	I-464	I-664	4	6	Widen to 6 lanes.	Project under construction
2045-5	Chesapeake	22nd St Bridge	Liberty St	Wilson Rd	4	2	Bridge replacement and re-alignment (new bridge will align with Poindexter St)	Project under construction
2045-6	Chesapeake	Deep Crk AIW Bridge Replacement and G.W. Hwy (US 17)/Moses Grandy Trail Intersection Improvements	Mill Creek Pkwy	Diamond Ave	2	5	Bridge replacement with additional improvements to approaching roadways.	Committed for 2045 LRTP
2045-8	Chesapeake	Triple Decker Bridge (Interchange of US 13, US 460, and Norfolk Southern Rail Line)	N/A	N/A	N/A	N/A	Rehabilitation of existing bridge structure.	Committed (fully funded in SYIP)
2045-17	Newport News	Denbigh Blvd Bridge Replacement	Richneck Rd	Trailblazer Blvd	4	4	Build replacement 4-lane undivided arterial bridge to replace aging bridge infrastructure.	Project under construction
2045-21	Portsmouth	Churchland Bridge	N/A	N/A	4	4	Replace 4-lane undivided arterial aging bridge infrastructure.	Advertised for construction
2045-27	Virginia Beach	Laskin Road Bridge Replacement	Laskin Rd	Laskin Rd	4	6	Bridge replacement with additional capacity.	Project under construction
2045-28	Virginia Beach	Sandbridge Rd Bridge Replacement	N/A	N/A	2	2	This project is for the replacement of the existing bridge on Sandbridge Road over Hell's Point Creek, 2 miles west of Sandpiper Road.	Project under construction
HIGHWAY								
2045-41	Multi-jurisdictional	I-64 Peninsula Widening Segment 3	1.05 miles west of Humelsine Pkwy/ Marquis Ctr Pkwy	1.15 miles west of Route 199, Lightfoot (Exit 234)	4	6	Widening to 6 lanes.	Project under construction
2045-105	Multi-jurisdictional	I-64 Express Lanes - Segment 2	I-264	I-464	2	2	Conversion of I-64 High-Occupancy-Vehicle (HOV-2) lanes to High-Occupancy-Toll (HOT) or Express Lanes from I-264 Interchange to I-464	Pending Amendment
2045-3	Multi-jurisdictional	Wythe Creek Rd	Alphus St	Commander Shepard Blvd	2	3	Provides a three lane reversible roadway, with two lanes being operated in the southbound direction in the morning peak hour and two lanes in the afternoon peak hour. The center lane will operate as a two way center turn lane in the off peak hours.	Committed for 2045 LRTP
2045-11	Hampton	Coliseum Dr Extension A	Hampton Roads Center Pkwy	Butler Farm Rd	0	4	New Facility	Committed for 2045 LRTP
2045-12	Isle of Wight County	Nike Park Road Extension	Reynolds Dr	US 17	0	2	Extend road from Reynolds Drive to Route 17.	Committed for 2045 LRTP
2045-14	James City County	Croaker Rd	Richmond Rd (US 60)	Rochambeau Rd	2	4	Widen Croaker Road from two to four lanes from Route 60 to Point O Woods Road.	Committed for 2045 LRTP
2045-15	James City County	Longhill Rd (Phase 1)	Humelsine Pkwy (Rte 199)	Old Town Rd	2	4	Widening from 2 lanes to 4 lanes.	Project under construction

2045 LRTP COMMITTED PROJECTS

2045 LRTP COMMITTED PROJECTS								
2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	COMMITTED STATUS
HIGHWAY (CONTINUED)								
2045-16	James City County	Skiffes Creek Connector	Green Mount Pkwy	Merrimac Trail (Rte 143)	0	4	New 4-lane alignment connecting US 60 to Merrimac Trail (Rte 143).	Committed for 2045 LRTP
2045-18	Newport News	Atkinson Blvd	Jefferson Ave	Warwick Blvd	0	4	Build new 4-lane divided arterial.	Project under construction
2045-19	Newport News	Independence Blvd	Denbigh Blvd (Rte 173)	Fort Eustis Blvd	0	4	Relieves congestion on parallel facilities	Committed for 2045 LRTP
2045-22	Suffolk	Route 58 (Holland Rd)	Suffolk Bypass	0.7 mi W. of Manning Bridge Rd	4	6	Widening from 4 lanes to 6 lanes.	Project under construction
2045-29	Virginia Beach	Centerville Tnkp - Phase III	Chesapeake CL	Kempsville Rd	2	4	Relieve congestion on parallel facility	Committed for 2045 LRTP
2045-30	Virginia Beach	Centerville Turnpike	Indian River Rd	Kempsville Rd	2	6	Widen from 2-lane undivided arterial to 6-lane divided arterial from Indian River Rd to Kempsville Rd.	Project under construction
2045-31	Virginia Beach	Cleveland Street - Phase III	Witchduck Road	Clearfield Ave	2	4	Relieve congestion on parallel facility	Committed for 2045 LRTP
2045-32	Virginia Beach	Cleveland Street - Phase IV	Aragona Blvd	Independence Blvd	2/4	4	Provide funding for design, prop acq. and construction	Committed for 2045 LRTP
2045-33	Virginia Beach	Elbow Rd / Dam Neck Rd	Indian River Rd	Virginia Beach Amphitheater	2	4	Relieve congestion on parallel facility	Committed for 2045 LRTP
2045-34	Virginia Beach	Indian River Road - Phase VII-A	Lynnhaven Pkwy	Elbow Rd	2	4	Relieve congestion on parallel facility	Committed for 2045 LRTP
2045-35	Virginia Beach	Laskin Road - Phase IA	Republic Rd	Fremac Dr	4	8	Relieve congestion on parallel facility. Project includes widening of First Colonial Rd to 6 lanes from Laurel Ln to I-264.	Project under construction
2045-36	Virginia Beach	Princess Anne Rd - Phase VII	Fisher Arch	General Booth Blvd	2	4	Relieve congestion on parallel facility	Project under construction
2045-37	Williamsburg	Capitol Landing Rd Corridor Improvements	Bypass Rd	Merrimac Trail	4	2	TBD	Committed (fully funded in SYIP)
2045-38	Williamsburg	Ironbound Rd (Rte 615)	Richmond Rd (US 60)	DePue Dr (formerly Longhill Connector)	2	3	The Ironbound Road Improvements provide additional capacity for a collector street serving a developing major mixed use area. Project includes multi-use path.	Committed (fully funded in SYIP)
2045-39	Williamsburg	Lafayette St	Richmond Rd (US 60)	Virginia Ave	2	2	Widen roadway to provide wider travel lanes (from 9 ft to 11 ft) and meet standards for minor arterial roadway. Maintain on-street parking on east side of street. Widen sidewalk on west side from north project limit to Wythe Avenue and add shared-use path for bicycle accommodation on east side for entire length to connect to Municipal Center entrance.	Committed for 2045 LRTP
2045-40	York County	G.W. Mem Hwy (US 17)	Wolf Trap Rd	Old York-Hampton Hwy	4	6	Widening from 4 lanes to 6 lanes.	Committed for 2045 LRTP
2045-42	York County	Victory Blvd (Rte 171)	G.W. Mem Hwy (US 17)	Hampton Hwy (Rte 134)	5	6	Widen road to 6 lanes.	Committed for 2045 LRTP

2045 LRTP COMMITTED PROJECTS

2045 LRTP COMMITTED PROJECTS								
2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	COMMITTED STATUS
INTERCHANGE								
2045-4	Multi-jurisdictional	I-64/I-264 Interchange: Phase II	N/A	N/A	N/A	N/A	Extend the new collector-distributor roadway built in Phase I from the Newtown Rd interchange to the Witchduck Rd interchange, reconfigure the south side of both interchanges to eliminate the weave movement, and build a flyover across I-264 to connect Greenwich Rd on the side of the interstate with Cleveland St on the north side.	Project under construction
2045-9	Chesapeake	Mt Pleasant Rd/Great Bridge Bypass	N/A	N/A	N/A	N/A	Add clover-leaf ramps for northbound 168 Bypass and eastbound and westbound clover-leaf ramps on Mt. Pleasant Road.	Committed for 2045 LRTP
INTERMODAL/FREIGHT								
2045-10	Chesapeake	Freeman Ave Railroad Overpass	N/A	N/A	2	2	Grade separation between roadway and railroad.	Committed for 2045 LRTP
2045-24	Suffolk	Nansemond Pkwy (Rte 337)	N/A	N/A	N/A	N/A	Highway-rail grade separation at Wilroy Rd.	Committed (fully funded in SYIP)
ACTIVE TRANSPORTATION								
2045-13	James City County	Pocahontas Trail Reconstruction	James City County Fire Station #2 (8429 Pocahontas Trail)	James River Elementary School (8901 Pocahontas Trail)	N/A	N/A	Upgrade 1.9 mile segment of Pocahontas Trail with a 5' sidewalk and 5' paved shoulder with pedestrian lighting and bus pull offs.	Committed for 2045 LRTP
2045-20	Portsmouth	Westhaven Bicycle Improvements	Clifford St at Powhatan Ave	Bart St at Airline Blvd	N/A	N/A	Bicycle and pedestrian improvements (includes shared use paths)	Committed for 2045 LRTP
2045-25	Virginia Beach	Sandbridge Road - Nimmo VII-A	Sandpiper Rd	1.10 miles west of Sandpiper Rd	2	2	Project includes on-road bike lanes and a 10 foot shared used path on one side of the roadway.	Committed (fully funded in SYIP)
2045-26	Virginia Beach	Violet Bank Dr Bike Trail	Kittery Dr	Selwood Dr	N/A	N/A	New facility - Shared Use Path	Committed for 2045 LRTP

Note: Committed Projects are defined as projects fully funded for construction in VDOT's current Six-Year Improvement Program.

2045 LRTP CANDIDATE PROJECTS

2045 LRTP CANDIDATE PROJECTS								
2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	PROJECT SUBMISSION SOURCE
BRIDGE/TUNNEL								
2045-401	Multi-jurisdictional	I-564/I-664 Connector and VA-164 Connector (Patriots Crossing portion and Craney Island Connector)	I-564/MMMBT	VA-164	0	4/8L(I-664/I-564)	New facility.	2040 LRTP - Vision, FTAC, Public Survey, VPA
2045-402	Multi-jurisdictional	I-664/MMMBT	Bowers Hill Interchange	Hampton Coliseum	4	6/8 +EL	Widening from 4 lanes up to 8 lanes, with Express Lanes included as part of project (similar to HRTB and HRB configuration with GP lanes, 1 full time HOT, 1 part time HOT).	FTAC, Suffolk, VPA
2045-403	Multi-jurisdictional	I-664/MMMBT	Terminal Ave	College Dr	4	6/8	Widening from 4 lanes up to 8 lanes.	VPA
2045-404	Multi-jurisdictional	Upper James River Bridge	James City County/Lower Peninsula	Surry County/Southside	0	4	New bridge crossing connecting James City County to Surry County. Include walkable/bikeable.	Public Survey
2045-405	Multi-jurisdictional	Sidney Bertram Hazelwood Sr. Bridge	N/A	N/A	2	4	Widening from 2 to 4 lanes to address congestion.	Suffolk
2045-406	Multi-jurisdictional	I-64 Southside Widening Including High Rise Bridge Phase II	I-464	I-664	6	8	Widen to 8 lanes.	2040 LRTP - Regional Priority Project, VDOT, Public Survey
2045-407	Hampton	I-64 Bridge over Hampton River - EB Only	I-664	Start of Future HOT Lanes	6	TBD	Project part of proposed regional expansion of Express Lanes network.	VDOT
2045-408	Suffolk	Kings Hwy Bridge	Godwin Blvd (Rte 10)	Kings Hwy	0	2	Provides for new alignment for Kings Highway Bridge that was previously closed due to deteriorated condition associated with lack of maintenance by VDOT	2040 LRTP - Vision
2045-409	Suffolk	Mills Godwin Bridge	Quail Hollow	Waterview Rd	2	4	Widening from 2 to 4 lanes to address congestion	2040 LRTP - Vision, FTAC
HIGHWAY								
2045-104	Multi-jurisdictional	I-264 Widening	Norfolk	Virginia Beach	8	10 or 12	Widen and reconfigure I-264 from 8 lanes to 10 lanes or 12 lanes (combination of General Purpose lanes and HOV/HOT lanes). Provide interchange improvements at every interchange.	Public Survey
2045-108	Multi-jurisdictional	I-64 Express Lanes Network	Jefferson Ave	Bowers Hill Interchange or I-664	TBD	TBD	Expand region's Express Lane network.	VDOT
2045-108A	Multi-jurisdictional	I-64 Express Lanes Network - Segment 4	Jefferson Ave	Settlers Landing Rd	2	2	Convert HOV to HOT on Peninsula	Component of Express Lanes Network
2045-108B	Multi-jurisdictional	I-64 Express Lanes Network - PT Shoulders along Segment 1	I-564	I-264	0	2	Part-shoulders along existing reversible section of Express Lanes (Segment 1)	Component of Express Lanes Network
2045-109	Multi-jurisdictional	I-664 Widening	Bowers Hill	College Dr	4/6	6	Widening to 6 lanes.	Suffolk, VPA
2045-110	Multi-jurisdictional	I-664 Widening	Hampton Coliseum	Terminal Ave	6	8	Widen I-664 from six lanes to eight lanes from Hampton Coliseum to Terminal Ave for additional capacity and congestion relief.	Newport News, VPA
2045-160	Multi-jurisdictional	I-64 Peninsula Widening Segment 4	1.15 miles west of Route 199, Lightfoot (Exit 234)	Hampton Roads MPA Boundary	4	6	Widening from 4 to 6 lanes.	VDOT

2045 LRTP CANDIDATE PROJECTS

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2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	PROJECT SUBMISSION SOURCE
HIGHWAY (CONTINUED)								
2045-101	Multi-jurisdictional	Denbigh Blvd (Rte 173)	Newport News CL	G.W. Mem Hwy (US 17)	2	4	Widening	2040 LRTP - Vision, FTAC, Public Survey
2045-103	Multi-jurisdictional	Godwin Blvd - Phase 2	Village of Chuckatuck	Isle of Wight CL	2	4	Widening from 2 to 4 lanes to address congestion.	Suffolk
2045-111	Multi-jurisdictional	Mooretown Rd Extension	Lightfoot Rd	Croaker Rd	2	4	Extension of Mooretown Road from Lightfoot Road to Croaker Road. Project will relieve congestion on Route 60, provide access to the County's Economic Opportunity Zone, reduce or eliminate the use of several hazardous rail crossings, and provide an additional access route from I-64 during emergency situations.	2040 LRTP - Vision
2045-112	Multi-jurisdictional	Newtown Road	Baker Rd	Virginia Beach Blvd	4	6	Relieve congestion on parallel facility	2040 LRTP - Locally Funded
2045-113	Multi-jurisdictional	Route 199	Richmond Rd (US 60)	Pocahontas Trail	4	6	Congestion relief.	Public, James City County, FTAC
2045-116	Multi-jurisdictional	US 460/58/13 Connector	Bowers Hill Interchange	Eastern end of Suffolk Bypass	6	6	Safety improvements along corridor, including potential interchange at regional landfill	2040 LRTP - Regional Priority Project, FTAC, VDOT
2045-117	Multi-jurisdictional	US Route 460	Suffolk Bypass	West of Zuni	0	4	Build new 4-lane divided highway.	2040 LRTP - Study, FTAC
2045-119	Multi-jurisdictional	VA-164 Widening	Pinners Point or APM Interchange	I-664	4	6	TBD	VPA
2045-120	Multi-jurisdictional	Victory Blvd (Rte 171)	Poquoson CL	Hampton Hwy (Rte 134)	2	4	Widening.	2040 LRTP - Study, FTAC, Public Survey
2045-121	Multi-jurisdictional	Victory Blvd (Rte 171)	Wythe Creek Rd (Rte 172)	York County CL	2	4	Widening.	2040 LRTP - Study, FTAC
2045-122	Chesapeake	Battlefield Blvd	Johnstown Rd	I-64	4/6	6/8	Widening	CMP
2045-123	Chesapeake	Ballahack Rd	G.W. Hwy (US 17)	Old Battlefield Blvd	2	4	Road widening, curve realignments, and ditch and shoulder improvements	2040 LRTP - Vision, Chesapeake
2045-124	Chesapeake	Bruce Rd	Tyre Neck Rd	Taylor Rd	2	4	Widening Bruce Rd along existing alignment from 2 to 4 lanes from Tyre Neck Rd to Taylor Rd to include bike/ped facilities.	Chesapeake
2045-125	Chesapeake	Cedar Rd	Holt Dr	Battlefield Blvd	2	4	Widening Cedar Rd along existing alignment from 2 to 4 lanes from Holt Dr to Battlefield Blvd to include bike/ped facilities.	Chesapeake
2045-126	Chesapeake	Centerville Tnpg	Mount Pleasant Rd	Virginia Beach CL	2	6	Widen to 6-lane divided and replace Centerville Bridge	2040 LRTP - Vision
2045-127	Chesapeake	Centerville Tnpg - Phase 1	Mt Pleasant Rd	Elbow Rd	2	6	Widening of Centerville Tnpg along existing alignment from 2 to 6 lanes from Mt Pleasant Rd to Elbow Rd to include bike/ped facilities. Replacement of existing bridge.	Chesapeake

2045 LRTP CANDIDATE PROJECTS

2045 LRTP CANDIDATE PROJECTS								
2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	PROJECT SUBMISSION SOURCE
HIGHWAY (CONTINUED)								
2045-128	Chesapeake	Centerville Tnpk - Phase 2	Elbow Rd	Virginia Beach CL	2	4	Widening of Centerville Tnpk along existing alignment from 2 to 4 lanes from Elbow Rd Virginia Beach CL to include bike/ped facilities.	Chesapeake
2045-129	Chesapeake	Chesapeake Expressway Widening	I-64	Hillcrest Pkwy	4	6/8	Widen VA-168 to 8-lanes between I-64 and Mt. Pleasant Rd (Exit 11), building a parallel 4-lane bridge over the Intracoastal, then to 6-lanes between Mt. Pleasant Rd and Hillcrest Pkwy (Exit 8). Pay off the remaining debt for the VA-168 toll portion, and open it up as a free highway, relieving significant congestion on parallel Battlefield Blvd.	Public Survey, Additional Public Submission
2045-130	Chesapeake	Chesapeake Regional Airport Access Rd	West Rd	G.W. Hwy (US 17)	0	4	Provide new, direct access to Chesapeake Airport from Dominion Blvd.	2040 LRTP - Vision, FTAC, Chesapeake
2045-131	Chesapeake	Eden Way Extended	Eden Way North	Sam's Circle	0	4	4-lane arterial connection on new alignment from Eden Way North to Sam's Circle to include bike/ped facilities.	Chesapeake
2045-132	Chesapeake	Elbow Rd	Butts Station Rd	Virginia Beach CL	2	4	roadway safety improvements to include realignment of curve sections and widen existing road to 4-lane divided	2040 LRTP - Vision
2045-133	Chesapeake	Elbow Rd - Phase 1 West - existing alignment	Centerville Tnpk	Virginia Beach CL	2	4	Widening of Elbow Rd along existing alignment from 2 to 4 lanes from Centerville Tnpk to Virginia Beach CL to include bike/ped facilities. Right of Way being purchased in advance.	Chesapeake
2045-134	Chesapeake	Elbow Rd - Phase 2 East - existing alignment	Butts Station Rd	Centerville Rd	2	4	Widening of Elbow Rd along existing alignment from 2 to 4 lanes from Butts Station Rd to Centerville Rd to include bike/ped facilities. Right of Way being purchased in advance.	Chesapeake
2045-135	Chesapeake	G.W. Hwy (US 17)	Yadkin Rd	Canal Dr	2	4	Relieve congestion with 2 additional travel lanes and improve pedestrian accomodations.	2040 LRTP - Construction, FTAC, Chesapeake
2045-136	Chesapeake	Green Tree Rd Extension	Kempsville Rd	Clearfield Ave	0	4	4-lane arterial extension of Green Tree Rd on new alignment from Kempsville Rd to Clearfield Ave to include bike/ped facilities.	Chesapeake
2045-137	Chesapeake	Greenbrier Pkwy	Volvo Pkwy	Woodlake Dr	6	8	Widening from 6 lanes to 8 lanes.	FTAC, Chesapeake
2045-138	Chesapeake	Hanbury Rd	Johnstown Rd	Battlefield Blvd	2	4	Widening of Hanbury Rd along existing alignment from 2 to 4 lanes from Johnstown Rd to Battlefield Blvd to include bike/ped facilities.	2040 LRTP - Vision, Chesapeake
2045-139	Chesapeake	I-664 Widening	Bowers Hill	Portsmouth Blvd	4	TBD	Widening of I-664 from Bowers Hill to Portsmouth Blvd in conjunction with VDOT Bowers Hill Intersection improvements.	Chesapeake
2045-140	Chesapeake	I-87	Chesapeake Expressway	North Carolina Border	4	4	Bring Dominion Blvd to interstate standards.	FTAC, Public Survey, Additional Public Submission, Chesapeake, VPA
2045-141	Chesapeake	Johnstown Rd - Phase 1	Battlefield Blvd	Parker Rd	2	4	Widening Johnstown Rd along existing alignment from 2 to 4 lanes from Battlefield Blvd to Parker Rd to include bike/ped facilities.	Chesapeake
2045-142	Chesapeake	Johnstown Rd - Phase 2	Parker Rd	Hanbury Rd	2	4	Widening Johnstown Rd along existing alignment from 2 to 4 lanes from Parker Rd to Hanbury Rd to include bike/ped facilities.	Chesapeake
2045-143	Chesapeake	Johnstown Rd - Phase 3	Hanbury Rd	Waters Rd	2	4	Widening Johnstown Rd along existing alignment from 2 to 4 lanes from Hanbury Rd to Waters Rd to include bike/ped facilities.	Chesapeake

2045 LRTP CANDIDATE PROJECTS

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2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	PROJECT SUBMISSION SOURCE
HIGHWAY (CONTINUED)								
2045-144	Chesapeake	Military Hwy	Allison Dr	Virginia Beach CL	4	6	Relieve congestion w/ 2 additional travel lanes & improve pedestrian accommodations	2040 LRTP - Vision, FTAC
2045-145	Chesapeake	Military Hwy	Campostella Rd	Battlefield Blvd	4	8	Widening	CMP
2045-146	Chesapeake	Military Hwy	Virginia Beach CL	I-464	4	8	Widening of Military Hwy to an 8-lane arterial from Providence to I-464 to include bike/ped facilities.	Chesapeake
2045-147	Chesapeake	Mt Pleasant Rd, Phase 1	Chesapeake Expressway	Etheridge Rd	2	4 or 6	Relieve congestion w/ 2 additional travel lanes & improve pedestrian accommodations.	2040 LRTP - Vision, Chesapeake
2045-148	Chesapeake	Mt Pleasant Rd, Phase 2	Etheridge Rd	Centerville Tnpk	2	4 or 6	Widening of Mt Pleasant Rd along existing alignment from 2 to 4 lanes from Centerville Tnpk to Etheridge Rd to include bike/ped facilities.	2040 LRTP - Vision, FTAC, Chesapeake
2045-149	Chesapeake	Volvo Pkwy Extended	Volvo Pkwy	Medical Pkwy	0	4	4-lane arterial connection on new alignment from Volvo Pkwy to Medical Pkwy to include bike/ped facilities.	Chesapeake
2045-150	Chesapeake	Volvo Pkwy Widening	Battlefield Blvd	Greenbrier Pkwy	4	6	Widening of Volvo Pkwy to 6 lanes from Battlefield Blvd to Greenbrier Pkwy to include bike/ped facilities.	Chesapeake
2045-151	Gloucester	G.W. Mem Hwy (US 17)	1 mi North of Coleman Bridge	Main St (@ Walmart)	4	6	Widen from 4-lane urban and rural principal arterial to 6-lane urban and rural principal arterial.	2040 LRTP - Construction
2045-152	Gloucester	G.W. Mem Hwy (US 17)	Main St (@ Walmart)	Ark Rd	4	6	Congestion Relief, widening, safety improvement	2040 LRTP - Vision
2045-153	Gloucester	Proposed parallel facility for Route 17	TBD	TBD	TBD	TBD	Provide another main highway in Gloucester County.	Public Survey
2045-154	Hampton	Coliseum Dr Extension B	Butler Farm Rd	N. Campus Pkwy/ Magruder Blvd Intersection	0	4	New 4-lane divided facility with a shared-use path.	Hampton
2045-155	Hampton	Little Back River Rd	N. King St	Valirey Dr	2	3	Widen to 3-lane section with C&G, sidewalk, and shared-use path	2040 LRTP - Vision
2045-155A	Hampton	Little Back River Rd	Valirey Dr	Harris Creek Rd	2	4	Widen to 4-lane divided with bike and ped accommodation	2040 LRTP - Vision
2045-156	Smithfield	Benns Church Blvd	Turner Dr (Rte 644)	Church St S	4	6	Widening from 4 to 6 lanes.	FTAC
2045-157	Isle of Wight County	US 17/Carrollton Blvd (part of Route 17 corridor)	End of Chuckatuck Creek Bridge	James River Bridge	4	6	Widening	Regional Priority Project - Round 2 Candidate
2045-158	Isle of Wight County	US 258	US 460	Sunset Dr	2	4	Widen 2-lane undivided road to divided 4-lane that connects intermodal park with US 460	2040 LRTP - Vision, FTAC
2045-161	James City County	Longhill Rd (Phase 2)	Olde Towne Rd	Warhill Trail	2	4	Widening from 2 lanes to 4 lanes.	2040 LRTP - Vision

2045 LRTP CANDIDATE PROJECTS

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2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	PROJECT SUBMISSION SOURCE
HIGHWAY (CONTINUED)								
2045-162	James City County	Longhill Rd (Phase 3)	Warhill Trail	Centerville Rd	2	4	Widening from 2 lanes to 4 lanes.	2040 LRTP - Vision
2045-118	James City County	US Route 60	James City County Line	Green Mount Pkwy	2	4	Congestion relief for Route 60. Also provides enhanced access for truck traffic and cargo between Route 60, I-64 and Route 143 and promotes industrial development in the Skiffe's Creek industrial area.	2040 LRTP - Vision, Public Survey
2045-163	Newport News	Bland Blvd Widening	Jefferson Ave	Warwick Blvd	4	6	Widen the roadway including the I-64 and CSX overpass.	Newport News
2045-164	Newport News	Briarfield Rd	Jefferson Ave	Hampton CL	2	4	Widening	2040 LRTP - Vision
2045-165	Newport News	Chestnut Ave	I-664	Briarfield Rd	2	4	Widening	2040 LRTP - Vision
2045-166	Newport News	Denbigh Blvd Widening Phase I	Warwick Blvd	CSX Overpass West Abutment	4	6	Install a third through lane eastbound and westbound from Warwick Blvd to the CSX railroad overpass for additional capacity.	Newport News
2045-167	Newport News	Denbigh Blvd Widening Phase II	CSX Overpass East Abutment	Jefferson Ave	4	6	Install a third through lane eastbound and westbound from the CSX railroad overpass to Jefferson Ave for additional capacity.	Newport News
2045-168	Newport News	Harpersville Rd Widening	Jefferson Ave	Warwick Blvd	2	4	Widen Harpersville Rd from Jefferson Ave to Warwick Blvd for additional capacity. Includes new CSX Overpass	2040 LRTP - Vision, Newport News
2045-169	Newport News	Harpersville Rd Widening	J Clyde Morris Blvd	Saunders Rd	2	4	Widen Harpersville Rd from J. Clyde Morris Blvd to Saunders Rd for additional capacity and congestion relief during PM peak.	2040 LRTP - Vision, Newport News
2045-170	Newport News	J. Clyde Morris Blvd Widening	Jefferson Ave	Warwick Blvd	4	6	Widening. Includes CSX Overpass work.	2040 LRTP - Vision, FTAC
2045-171	Newport News	J. Clyde Morris Blvd / G.W. Hwy (US 17) Widening	I-64	York CL	4	6	Improves interstate access on Route 17 from York County	2040 LRTP - Construction, FTAC, Public Survey
2045-173	Newport News	Jefferson Ave Widening Phase I	Green Grove Ln	Industrial Park Dr	4	6	Install a third through lane northbound and southbound on Jefferson Ave from Green Grove Road to Industrial Park Dr for additional capacity.	Newport News
2045-174	Newport News	Jefferson Ave Widening Phase II	Industrial Park Dr	Fort Eustis Blvd	4	6	Install a third through lane northbound and southbound on Jefferson Ave from Industrial Park Dr to Fort Eustis Blvd for additional capacity.	Newport News
2045-175	Newport News	Liberty Pkwy Extension	Oyster Point Rd	Freedom Way	0	2	Install a new roadway from Freedom Way to Oyster Point Rd to relieve congestion at the intersection of Jefferson Ave and Oyster Point Rd.	2040 LRTP - Construction, Newport News
2045-176	Newport News	Lucas Creek Rd Extension	Denbigh Blvd (Rte 173)	Atkinson Blvd	0	4	Relieves congestion on parallel facility. Includes bridge.	2040 LRTP - Vision
2045-178	Newport News	Oyster Point Rd Widening	Jefferson Ave	I-64	6	8	Widening from 6 to 8 lanes. Includes interchange work.	FTAC
2045-179	Newport News	Oyster Point Rd Widening Phase I	Operations Dr	Waterman Dr	4	6	Install a third through lane westbound from HQ Way to Operations Dr and an eastbound through lane from Oyster Point Rd Service Road to Waterman Dr for additional capacity and congestion relief.	Newport News

2045 LRTP CANDIDATE PROJECTS

2045 LRTP CANDIDATE PROJECTS								
2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	PROJECT SUBMISSION SOURCE
HIGHWAY (CONTINUED)								
2045-180	Newport News	Oyster Point Rd Widening Phase II	Warwick Blvd	Radcliff Ln	4	6	Install a third through lane westbound from Arboretum Way to Warwick Blvd and an eastbound through lane from Nettles Dr to Radcliff Ln for additional capacity and congestion relief.	Newport News
2045-181	Newport News	Oyster Point Rd Widening Phase III	CSX Overpass	CSX Overpass	4	6	Install a third through lane eastbound and westbound across the CSX railroad overpass for additional capacity and to relieve congestion.	Newport News
2045-182	Newport News	Patrick Henry Dr / Siemens Way Widening	Bland Blvd	Turnberry Blvd	2	4	Relieves congestion on parallel facility	2040 LRTP - Vision, FTAC
2045-183	Newport News	Saunders Rd Widening	Harpersville Rd	Hampton CL	2	4	Widen Saunders Rd from Harpersville Rd to Hampton City Limits for additional capacity. This project will tie into the completed widening project in the City of Hampton.	2040 LRTP - Vision
2045-184	Newport News	Turnberry Blvd Extension	McManus Blvd	Ridgewood Pkwy	0	4	Install new roadway from McManus Blvd to Denbigh Blvd for congestion relief on parallel facility (Denbigh Blvd).	2040 LRTP - Vision
2045-186	Newport News	Warwick Blvd Widening Phase I	Nettles Dr	Oyster Point Rd	4	6	Install a third through lane northbound and southbound on Warwick Blvd from Nettles Dr to Oyster Point Rd for additional capacity and congestion relief.	Newport News
2045-187	Newport News	Warwick Blvd Widening Phase II	Oyster Point Rd	Bland Blvd	4	6	Install a third through lane northbound and southbound on Warwick Blvd from Oyster Point Rd to Bland Blvd for additional capacity.	Newport News
2045-188	Newport News	Warwick Blvd Widening Phase III	Bland Blvd	Beechmont Dr	4	6	Install a third through lane northbound and southbound on Warwick Blvd from Bland Blvd to Beechmont Dr for additional capacity and to relieve congestion.	Newport News
2045-189	Newport News	Warwick Blvd Widening Phase IV	Beechmont Dr	Atkinson Way	4	6	Install a third through lane northbound and southbound on Warwick Blvd from Beechmont Dr to Atkinson Way for additional capacity.	Newport News
2045-190	Newport News	Warwick Blvd Widening Phase V	Atkinson Way	Lees Mill Dr	4	6	Install a third through lane northbound and southbound on Warwick Blvd from Atkinson Way to Lees Mill Dr for additional capacity.	Newport News
2045-191	Newport News	Warwick Blvd Widening Phase VI	Lees Mill Dr	Yorktown Rd	2	4	Install a second through lane northbound and southbound on Warwick Blvd from Lees Mill Dr to Yorktown Rd for additional capacity and to relieve congestion adjacent to Oakland Industrial Park during PM peak. Includes interchange work	Newport News
2045-192	Norfolk	Ballentine Blvd	I-264	Virginia Beach Blvd	4	6	Widening from 4 to 6 lanes.	FTAC
2045-195	Norfolk	Little Creek Rd	Tidewater Dr	Shore Dr	4	6	Corridor improvements to improve travel flow, pedestrian safety and comfort and landscaping	2040 LRTP - Vision
2045-196	Norfolk	Monticello Ave	St Pauls Blvd	Virginia Beach Blvd	4	6	Widening from 4 to 6 lanes.	FTAC
2045-197	Norfolk	Newtown Rd	I-264	Virginia Beach Blvd	4	6	Widening from 4 to 6 lanes.	FTAC
2045-198	Norfolk	Tidewater Dr	City Hall Ave	Norview Ave	4	6	Widening from 4 to 6 lanes.	FTAC, Public Survey

2045 LRTP CANDIDATE PROJECTS

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2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	PROJECT SUBMISSION SOURCE
HIGHWAY (CONTINUED)								
2045-199	Norfolk	Virginia Beach Blvd	Glenrock Rd	George St	4	6	Remove service lanes and convert into 6 lane section with improved intersections, pedestrian safety, lighting and landscaping.	Norfolk
2045-200	Portsmouth	Elm Ave Realignment Project	Victory Blvd (Rte 239)	G.W. Hwy (US 17)	2	4	Improve access to Norfolk Naval Shipyard including a widening of Elm Avenue between Rte 239 and US 17 from 2 to 4 lanes and intersection improvements at Navy Gates 29 and 36.	2040 LRTP - Construction, FTAC, Portsmouth
2045-201	Portsmouth	Harper Ave	Rte 164/US 58	Portsmouth Marine Terminal	2	3 or 4	Pavement restoration and expansion for the main access road to PMT.	Portsmouth
2045-202	Smithfield	Battery Park Rd	S. Church St	Nike Park Rd	2	4	Widening.	2040 LRTP - Vision
2045-203	Smithfield	S. Church St	Battery Park Rd	Talbot Dr	2	3	Widening	2040 LRTP - Vision
2045-204	Suffolk	Bridge Rd (US 17)	Mills Godwin Bridge	Chesapeake CL	4	6	Provides widening from 4 to 6 lanes to address congestion	2040 LRTP - Vision, FTAC, Public Survey
2045-205	Suffolk	Bridge Rd (US 17)	Mills Godwin Bridge	Isle of Wight CL	4	6	Provides widening from 4 to 6 lanes to address congestion	2040 LRTP - Vision, FTAC, Public Survey
2045-206	Suffolk	Corridor Improvements - Suffolk	Northern Suffolk	Central/ Downtown Suffolk	2	4	An integrated set of projects creating a continuous four lane corridor primarily along existing routes (Wilroy Rd, Nansemond Pkwy, and Bennetts Pasture Rd) connecting Northern Suffolk to central/downtown Suffolk.	Public Survey
2045-207	Suffolk	Godwin Blvd	Suffolk Bypass	Kings Fork Rd	4	6	Provides widening from 4 to 6 lanes to address congestion.	FTAC, Suffolk
2045-208	Suffolk	Godwin Blvd - Phase 1	Holly Hill Ln	Village of Chuckatuck	2	4	Widening from 2 to 4 lanes to address congestion.	Suffolk
2045-209	Suffolk	Nansemond Pkwy (Rte 337)	Shoulder's Hill Rd (Rte 626)	Wilroy Rd (Rte 642)	2	4	Provides widening from 2 to 4 lanes to address congestion	2040 LRTP - Vision, FTAC, Public Survey
2045-23	Suffolk	Shoulders Hill Rd (Rte 626)	Nansemond Pkwy (Rte 337)	Bridge Rd (US 17)	2	4	Widening from 2 to 4 lanes to address congestion	2040 LRTP - Vision, Public Survey
2045-210	Suffolk	Suffolk/ US 58 Bypass	Terminus west of SPSA landfill/ HR Executive Airport	US 460 Interchange	4	6	Widening	Regional Priority Project - Round 2 Candidate
2045-211	Suffolk	Whaleville Blvd (US 13) - Phase 1	Village of Whaleville	North Carolina Border	2	4	Corridor improvements to improve inter-state passenger and freight movements.	Suffolk
2045-212	Suffolk	Whaleville Blvd (US 13) - Phase 2	Carolina Rd (Rte 32)	Village of Whaleville	2	4	Corridor improvements to improve inter-state passenger and freight movements.	Suffolk
2045-213	Suffolk	Wilroy Rd (Rte 642)	Nansemond Pkwy (Rte 337)	Constance Rd	2	4	Widening from 2 to 4 lanes to address congestion	2040 LRTP - Vision, FTAC
2045-214	Suffolk	Wilroy Rd (Rte 642)	Suffolk Bypass	Nansemond Pkwy	2	4	Widening from 2 to 4 lanes to address congestion.	Suffolk

2045 LRTP CANDIDATE PROJECTS

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2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	PROJECT SUBMISSION SOURCE
HIGHWAY (CONTINUED)								
2045-215	Virginia Beach	Birdneck Road	I-264	Virginia Beach Blvd	4	6	Relieve congestion on parallel facility	2040 LRTP - Locally Funded
2045-216	Virginia Beach	Clearfield Ave	Virginia Beach Blvd	Cleveland St	2	4	Widening 2 lanes to 4 lanes	Virginia Beach
2045-217	Virginia Beach	Dam Neck Road - Phase I	Princess Anne Rd	Holland Rd	4	6	Widening	2040 LRTP - Locally Funded, FTAC
2045-218	Virginia Beach	Dam Neck Road - Phase II	Holland Rd	Drakesmile Rd	4	6	Relieve congestion on parallel facility	2040 LRTP - Locally Funded, FTAC
2045-219	Virginia Beach	Dam Neck Road - Phase III	Drakesmile Rd	London Bridge Rd	4	6	Widening	2040 LRTP - Locally Funded
2045-220	Virginia Beach	Drakesmile Extended - Phase I	Dam Neck Rd	Holland Rd	0	4	Relieve congestion on parallel facility	2040 LRTP - Locally Funded
2045-221	Virginia Beach	Drakesmile Extended - Phase II	Holland Rd	Princess Anne Rd	0	4	Relieve congestion on parallel facility	2040 LRTP - Locally Funded
2045-222	Virginia Beach	Ferrell Pkwy	Indian Lakes Blvd	Indian River Rd	4	6	Relieve congestion on parallel facility	2040 LRTP - Locally Funded, FTAC
2045-223	Virginia Beach	Ferrell Pkwy	Indian Lakes Blvd	Pleasant Valley Rd	4	6	Relieve congestion on parallel facility	2040 LRTP - Locally Funded, FTAC
2045-224	Virginia Beach	Ferrell Pkwy	Pleasant Valley Rd	Salem Rd	4	6	Widening from 4 lanes to 6 lanes.	2040 LRTP - Vision, FTAC
2045-225	Virginia Beach	First Colonial Rd	Old Donation Pkwy	Laskin Rd	4	6	Relieve congestion on parallel facility	2040 LRTP - Construction
2045-226	Virginia Beach	First Colonial Rd	Old Donation Pkwy	Great Neck Rd	4	6	Relieve congestion on parallel facility	FTAC
2045-227	Virginia Beach	General Booth Blvd - Phase II	Oceana Blvd	Dam Neck Rd	6	8	Relieve congestion on parallel facility	2040 LRTP - Locally Funded
2045-228	Virginia Beach	General Booth Blvd - Phase I	Birdneck Rd	Oceana Blvd	4	6	Relieve congestion on parallel facility	Virginia Beach
2045-229	Virginia Beach	General Booth Blvd Phase IV	London Bridge Rd	Nimmo Pkwy	4	6	Widening from 4 to 6 lanes.	2040 LRTP - Locally Funded
2045-114	Virginia Beach	Greenbelt Segment - Phase I	London Bridge Rd	Princess Anne Rd.	0	4	New alignment to relieve congestion, provide new access.	2040 LRTP - Study, Public Survey, Virginia Beach
2045-114A	Virginia Beach	Greenbelt - Phase II	Princess Anne Rd	Chesapeake CL	0	4	New alignment to relieve congestion, provide new access.	2040 LRTP - Study, Public Survey, Virginia Beach

2045 LRTP CANDIDATE PROJECTS

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HIGHWAY (CONTINUED)								
2045-230	Virginia Beach	Holland Rd - Phase III	Rosemont Rd	Independence Blvd	4	6	Relieve congestion on parallel facility	2040 LRTP - Construction
2045-231	Virginia Beach	Holland Road	Dam Neck Rd	Rosemont Rd	4	6	Widening from 4 lanes to 6 lanes.	2040 LRTP - Locally Funded
2045-232	Virginia Beach	I-264 Preferred Alternative	Independence Blvd	Rosemont Rd	6/8	8/10	Widening of I-264 between Independence Blvd and Rosemont Rd that includes one additional travel lane in each direction and where HOV restrictions are in place, the shoulder lane is to be converted to a general purpose lane.	Regional Priority Project - Round 2 Candidate
2045-233	Virginia Beach	Independence Blvd	Haygood Rd	Northampton Blvd	4	6	Widening from 4 lanes to 6 lanes.	2040 LRTP - Locally Funded
2045-234	Virginia Beach	Independence Blvd	Pembroke Blvd	Virginia Beach Blvd	6	8	Widening from 6 lanes to 8 lanes.	Virginia Beach
2045-235	Virginia Beach	Indian River Rd	Centerville Tnpk	Ferrell Pkwy	6	8	Relieve congestion on parallel facility	2040 LRTP - Construction, FTAC
2045-236	Virginia Beach	Indian River Rd	Centerville Tnpk	I-64	8	10	Widening from 8 to 10 lanes.	CMP
2045-237	Virginia Beach	Indian River Rd	West Neck Rd	North Landing Rd	2	4	Widening from 2 lanes to 4 lanes.	Virginia Beach
2045-238	Virginia Beach	Indian River Road	Elbow Rd	North Landing Rd	2	4	Widening from 2 lanes to 4 lanes.	2040 LRTP - Vision
2045-239	Virginia Beach	Jeanne St	Constitution Dr	Independence Blvd	3	4	Widening from 3 lanes to 4 lanes.	Virginia Beach
2045-240	Virginia Beach	Landstown Rd - Phase I	Landstown Centre Way	Landstown Rd	2	4	Widening from 2 lanes to 4 lanes.	2040 LRTP - Locally Funded
2045-241	Virginia Beach	Landstown Rd Extended - Phase II	Landstown Road	Nimmo Pkwy	0	4	New Facility	Virginia Beach
2045-242	Virginia Beach	Landstown Rd Extended - Phase III	Nimmo Pkwy	North Landing Rd	0	4	New Facility	Virginia Beach
2045-243	Virginia Beach	Landstown Rd Extended - Phase IV	North Landing Rd	Indian River Rd	0	4	New Facility	Virginia Beach
2045-244	Virginia Beach	Laskin Road - Phase IB	Laskin Rd Bridge	Oriole Dr	4	6	Relieve congestion on parallel facility	2040 LRTP - Locally Funded
2045-245	Virginia Beach	Laskin Road - Phase II	Oriole Dr	30th/31st St	4	6	Relieve congestion on parallel facility	2040 LRTP - Locally Funded

2045 LRTP CANDIDATE PROJECTS

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2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	PROJECT SUBMISSION SOURCE
HIGHWAY (CONTINUED)								
2045-246	Virginia Beach	Laskin Road - Phase III	Republic Rd	I-264	4	6	Widening from 4 to 6 lanes.	2040 LRTP - Locally Funded
2045-247	Virginia Beach	London Bridge Road	Dam Neck Rd	Shipp's Corner Rd	2	4	Relieve congestion on parallel facility	2040 LRTP - Locally Funded
2045-248	Virginia Beach	Lynnhaven Pkwy	Holland Rd	Princess Anne Rd	4	6	Relieve congestion on parallel facility	2040 LRTP - Locally Funded
2045-250	Virginia Beach	Nimmo Pkwy - Phase II	West Neck Rd	Landstown Rd Extended	0	2	Relieve congestion on parallel facility	2040 LRTP - Locally Funded
2045-251	Virginia Beach	Nimmo Pkwy - Phase III	Landstown Rd Extended	Salem Rd	0	2	Relieve congestion on parallel facility	Virginia Beach
2045-252	Virginia Beach	Nimmo Pkwy - Phase VII B	Albuquerque Rd	Sandbridge Rd - Nimmo VII A	0	2	Relieve congestion on parallel facility	Virginia Beach
2045-253	Virginia Beach	North Great Neck	Virginia Beach Blvd	Wolfsnare Rd	4	6	Widening from 4 lanes to 6 lanes.	Virginia Beach
2045-254	Virginia Beach	North Lynnhaven Rd	Virginia Beach Blvd	Lynnhaven Pkwy	2	4	Widening from 2 lanes to 4 lanes.	Virginia Beach
2045-255	Virginia Beach	Princess Anne Commons Rd A	Landstown Centre Way	1200 feet east	0	2	New facility	Virginia Beach
2045-256	Virginia Beach	Princess Anne Road	Providence Rd	Salem Rd	4	6	Widening from 4 lanes to 6 lanes.	2040 LRTP - Locally Funded
2045-257	Virginia Beach	Providence Road	Kempsville Rd	Princess Anne Rd	2	4	Relieve congestion on parallel facility	2040 LRTP - Locally Funded
2045-258	Virginia Beach	Rosemont Rd	Virginia Beach Blvd	Holland Rd	4	6	Relieve congestion on parallel facility	2040 LRTP - Construction
2045-259	Virginia Beach	Rosemont Road - Phase V	Dam Neck Rd	Lynnhaven Pkwy	2	4	Widening	2040 LRTP - Locally Funded
2045-260	Virginia Beach	Salem Road - Phase II	Elbow Rd	North Landing Rd	2	4	Relieve congestion on parallel facility	2040 LRTP - Locally Funded
2045-261	Virginia Beach	Salem Road	Independence Blvd	Elbow Rd	2	4	Widening from 2 lanes to 4 lanes.	2040 LRTP - Locally Funded
2045-262	Virginia Beach	Shore Drive - Phase II	Pleasure House Road	Treasure Island Drive	4	6	Widening	2040 LRTP - Locally Funded
2045-263	Virginia Beach	West Neck Rd	North Landing Rd	Indian River Rd	2	4	Widening	2040 LRTP - Vision

2045 LRTP CANDIDATE PROJECTS

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2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	PROJECT SUBMISSION SOURCE
HIGHWAY (CONTINUED)								
2045-264	Williamsburg	Monticello Ave	Richmond Rd (US 60)	Treyburn Dr	3	5	The Monticello Avenue improvements provide additional capacity and improved turning movements for a minor arterial in an existing commercial area with potential for redevelopment.	2040 LRTP - Vision
2045-265	York County	Commonwealth Dr Extension	G.W. Mem Hwy (U.S. 17)	Commonwealth Dr	0	4	New facility	2040 LRTP - Vision
2045-266	York County	G.W. Mem Hwy (US 17)	Fort Eustis Blvd (Rte 105)	Coleman Bridge	4	6	Widening	2040 LRTP - Vision
2045-267	York County	G.W. Mem Hwy (US 17)	Denbigh Blvd (Rte 173)	Fort Eustis Blvd (Rte 105)	4	6	Widening	2040 LRTP - Vision
2045-268	York County	J. Clyde Morris Blvd/G.W. Mem Hwy (US 17)	Newport News CL	1.27 mi South of Rte 620 (Lakeside Dr/ Oriana Rd)	4	6	Widening from 4 lanes to 6 lanes.	2040 LRTP - Vision, Public Survey
2045-269	Newport News	Harpersville Rd Widening	Hampton Roads Center Pkwy	Saunders Rd	2	4	Widen Harpersville Rd for additional capacity and congestion relief during PM peak. Includes I-64 overpass work	Newport News
INTERCHANGE								
2045-301	Multi-jurisdictional	I-64/I-264 Interchange Phase IIIA	N/A	N/A	N/A	N/A	Construct structures through interchange, bridges carrying EB I-64 over Kempsville Rd and Virginia Beach Blvd, and bridge carrying EB I-264 over Newtown Rd; widen EB I-64 by 1-2 lanes from Northampton Blvd entrance ramp; widening EB I-264 one lane to C/D merge with mainline.	2040 LRTP - Regional Priority Project, VDOT, Norfolk
2045-302	Multi-jurisdictional	I-64/I-264 Interchange Phase IIIB	N/A	N/A	N/A	N/A	Widen I-264 EB outer C/D from Newtown Rd interchange to mainline merge point; widen I-264 EB to east of Witchduck Rd; reconfigure I-264 EB entrance ramp from Witchduck Rd. Widen I-264 EB exit ramps to provide additional lanes; modify signals at ramp terminal intersections along Newtown Rd. Replace bridge carrying I-264 over Witchduck Rd.	2040 LRTP - Regional Priority Project, VDOT, Norfolk
2045-303	Multi-jurisdictional	I-64/I-264 Interchange Phase IIIC	N/A	N/A	N/A	N/A	Widen I-64 WB from north of Virginia Beach Blvd to Northampton Blvd Interchange; construct minor widening of bridges carrying I-64 WB over Northampton Blvd; north of exit ramp to Northampton Blvd, operate shoulder use lane along I-64 WB during AM peak only.	2040 LRTP - Regional Priority Project, VDOT, Norfolk
2045-304	Multi-jurisdictional	I-64/I-264 Interchange Phase IIID	N/A	N/A	N/A	N/A	Construct ramp through interchange and merge lanes onto I-64 WB; realign entrance ramp from Military Hwy, widen I-264 EB C/D, and widen I-64 WB to three lanes approaching overpass of I-264 EB. Remove loop exit ramp from I-264 EB C/D to I-64 WB, and remove left exit from I-264 EB mainline.	2040 LRTP - Regional Priority Project, VDOT, Norfolk
2045-305	Multi-jurisdictional	I-64/I-264 Interchange Phase IIIE	N/A	N/A	N/A	N/A	Construct I-264 WB/Newtown Interchange improvements; widen Newtown Rd from Greenwich Rd to north of Cleveland St; construct I-264 WB C/D roadway and other ramp to I-64 EB/WB; widen I-64 WB to receive new ramp lanes. Widen I-64 WB shoulder north of entrance ramp from Northampton Blvd, operate shoulder use lane along I-64 WB during AM peak only.	2040 LRTP - Regional Priority Project, VDOT, Norfolk

2045 LRTP CANDIDATE PROJECTS

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2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	PROJECT SUBMISSION SOURCE
INTERCHANGE (CONTINUED)								
2045-306	Multi-jurisdictional	I-64/I-264 Interchange Phase IIIF	N/A	N/A	N/A	N/A	Construct ramp through interchange, over Nosehs Creek and Curlew Dr. Widen I-64 EB to provide one additional lane to Indian River Rd exit ramp; replace bridges carrying Providence Rd over I-64. Remove loop exit ramp from I-264 WB C/D roadway and left exit ramp from I-264 WB mainline.	2040 LRTP - Regional Priority Project, VDOT, Norfolk
2045-307	Multi-jurisdictional	US 58/258 Interchange	N/A	N/A	N/A	N/A	Interchange improvements.	HRTPO Staff
2045-308	Multi-jurisdictional	Bowers Hill Interchange	N/A	N/A	N/A	N/A	Improvement to interchange.	2040 LRTP - Regional Priority Project, FTAC, VDOT, VPA
2045-309	Chesapeake	I-64/I-464 Loop Ramp (I-64 to I-464 South)	N/A	N/A	N/A	N/A	TBD	VDOT
2045-310	Chesapeake	I-64/I-464/US 17 Interchange	N/A	N/A	N/A	N/A	Improve I-64/I-464/US 17 interchange.	Public Survey, Additional Public Submission
2045-311	Hampton	I-64 at Lasalle Ave	I-64 WB	Lasalle Ave	N/A	N/A	Add movement from eastbound I-64 to northbound Lasalle Ave + adding for 2040 plan a grade separated movement from westbound I-64 to eastbound Armistead and northbound LaSalle	2040 LRTP - Study
2045-312	Hampton	I-64 at N. King St	N/A	N/A	N/A	N/A	Add full interchange at King Street; close EB existing off-ramp at Rip Rap Road	2040 LRTP - Study
2045-313	Hampton	I-64 at Settlers Landing Rd	N/A	N/A	N/A	N/A	Ramp Modifications for EB and WB	2040 LRTP - Construction
2045-314	Newport News	I-64/Denbigh Blvd Interchange Project	N/A	N/A	N/A	N/A	Install a full interchange on I-64 at Denbigh Blvd to reduce congestion at the I-64 and Jefferson Ave interchange as well as congestion through the Jefferson Ave corridor from I-64 to Bland Blvd.	2040 LRTP - Study, VDOT, Newport News
2045-315	Newport News	I-64/Fort Eustis Blvd Interchange	N/A	N/A	N/A	N/A	Improve interchange at I-64 and Fort Eustis Blvd for additional capacity and congestion relief.	2040 LRTP - Regional Priority Project, VDOT
2045-316	Norfolk	Air Terminal Interchange	N/A	N/A	N/A	N/A	Construct new interchange.	2040 LRTP - Construction
2045-317	Multi-jurisdictional	HRBT - Phase 2 (I-564/I-64 Interchange Improvements)	N/A	N/A	N/A	N/A	Bid Alternate of the HRBT - with direct access/entry to HOT Lanes.	VPA
2045-318	Norfolk	I-264 at Ballentine Blvd Diverging Diamond Interchange	N/A	N/A	N/A	N/A	Interstate Interchange Reconstruction	2040 LRTP - Study, FTAC
2045-319	Norfolk	I-264/Military Hwy Interchange	N/A	N/A	N/A	N/A	Interchange improvements.	Regional Priority Projects - Round 2 Candidate
2045-320	Norfolk	I-64/Northampton Blvd Interchange - EB Traffic from Northampton Blvd to I-264	N/A	N/A	N/A	N/A	Provide improvements to I-64 EB On Ramp from Northampton Blvd.	FTAC, VDOT
2045-321	Norfolk	Military Hwy at I-64 -- New EB On-Ramp	N/A	N/A	N/A	N/A	New I-64 Eastbound on-ramp.	2040 LRTP - Study

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2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	PROJECT SUBMISSION SOURCE
INTERCHANGE (CONTINUED)								
2045-322	Portsmouth	Cedar Ln and VA-164 Interchange	Cedar Ln	VA-164	N/A	N/A	Companion project to the Craney Island Access Road Study.	Portsmouth
2045-323	Portsmouth	Frederick Blvd and I-264 Interchange	Frederick Blvd	I-264 Ramps	N/A	N/A	Interchange improvements.	Portsmouth
2045-324	Portsmouth	Victory Blvd and I-264 Interchange	Victory Blvd (Rte 239)	I-264 Ramps	N/A	N/A	Interchange improvements.	Portsmouth
2045-325	Portsmouth	VIG Interchange	N/A	N/A	N/A	N/A	Interchange improvements.	VPA
2045-326	Virginia Beach	I-264 at Independence Blvd	N/A	N/A	N/A	N/A	Safety improvements, Relieve congestion	2040 LRTP - Study, Public Survey, VDOT
2045-327	Virginia Beach	I-264 at Rosemont Rd	N/A	N/A	N/A	N/A	Safety improvements, Relieve congestion	2040 LRTP - Study
2045-328	York County	Merging/Diverging Lane Improvements at I-64 W and Route 199 (Exit 242)	N/A	N/A	N/A	N/A	Improve merging/diverging lane. Current lane configuration is short and hazardous.	Public Survey
INTERMODAL/FREIGHT								
2045-601	Multi-jurisdictional	VA-164 Extension	VA-164	Suffolk Bypass	0	2	Extend VA-164 on existing RR Right of Way	VPA
2045-602	Chesapeake	Portlock Rd Railroad Overpass	N/A	N/A	2	2	Construction of new structure to replace at grade crossing along Portlock Rd between Varsity Dr and Reid St.	2040 LRTP - Construction, Chesapeake
2045-603	Norfolk	Hampton Blvd at Terminal Blvd	Trouville Ave/Portor St	Hampton Blvd	N/A	N/A	New highway/ rail underpass.	2040 LRTP - Construction, FTAC, VPA
2045-604	Portsmouth	Craney Island Access Rd	VA 164 and Median Rail	Craney Island Marine Terminal with Interchange and Connection to Elizabeth River Crossing	0	2	Provides access to Craney Island Port Facility.	FTAC, VPA
2045-605	Suffolk	Finney Ave Flyover	Pinner St	Route 13/337 E Washington St	N/A	N/A	Construct grade separated crossing of existing railroad in core Suffolk downtown area.	2040 LRTP - Vision
2045-606	Suffolk	Nansemond Pkwy (Rte 337)	N/A	N/A	N/A	N/A	Highway-rail grade separation near Suffolk Meadows Blvd.	Public Survey
2045-607	Suffolk	North Suffolk Connector Rd	Nansemond Pkwy	I-664	0	2	New 2-lane divided roadway.	2040 LRTP - Construction

2045 LRTP CANDIDATE PROJECTS

2045 LRTP CANDIDATE PROJECTS								
2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	PROJECT SUBMISSION SOURCE
TRANSIT								
2045-501	Multi-jurisdictional	Enhanced Bus Service/Bus Replacement - HRT	N/A	N/A	N/A	N/A	HRT enhanced bus service/bus replacement.	2040 LRTP - Construction
2045-502	Multi-jurisdictional	Enhanced Bus Service/Bus Replacement - WATA	N/A	N/A	N/A	N/A	WATA enhanced bus service/bus replacement.	2040 LRTP - Construction
2045-503	Multi-jurisdictional	Expand the Tide Light Rail Across Hampton Roads	Existing Service Locations	Various Locations	N/A	N/A	Expand the Tide Light Rail all over Hampton Roads (e.g. Virginia Beach to Chesapeake to Norfolk).	Public Survey
2045-504	Multi-jurisdictional	Ferry Service	Norfolk	Hampton	N/A	N/A	New ferry service.	2040 LRTP - Vision
2045-505	Multi-jurisdictional	Ferry Service	Old Towne (Portsmouth)	Downtown Norfolk - Naval Station Norfolk	N/A	N/A	New ferry service.	2040 LRTP - Vision
2045-506	Multi-jurisdictional	High-Speed and Intercity Passenger Rail - DRPT Tier I EIS ROD - Preferred Alternative	Hampton Roads	Richmond / Northeast Corridor	N/A	N/A	High-speed and Intercity passenger rail.	2040 LRTP - Vision, Public Survey
2045-507	Multi-jurisdictional	High-Speed and Intercity Passenger Rail - HRTPO High Speed Rail Vision Plan - Option 4 Richmond Direct Improved	Hampton Roads	Richmond / Northeast Corridor	N/A	N/A	High-speed and Intercity passenger rail.	2040 LRTP - Vision, Public Survey
2045-508	Multi-jurisdictional	High-speed water taxis system	N/A	N/A	N/A	N/A	High speed 50+ passenger water taxi Lynnhaven to NAS to downtown Norfolk to downtown Hampton to Bennett Creek.	Public Survey
2045-509	Multi-jurisdictional	Peninsula Commuter Rail	Newport News	Williamsburg	N/A	N/A	Provide commuter rail on the Peninsula.	2040 LRTP - Vision, Public Survey
2045-510	Multi-jurisdictional	Peninsula High Capacity Transit	Hampton/ Newport News	Hampton/ Newport News	N/A	N/A	Add Bus Rapid Transit alignment on the Peninsula.	2040 LRTP - Study, Public
2045-511	Multi-jurisdictional	Peninsula High Capacity Transit Extension	Peninsula	Southside	N/A	N/A	Add Bus Rapid Transit alignment that connects the Peninsula to the Southside	2040 LRTP - Vision
2045-512	Multi-jurisdictional	Provide Passenger Rail	N/A	N/A	N/A	N/A	Provide passenger rail. Link it to the Virginia Railway Express system, as well as service to North Carolina and Emporia.	Public Survey
2045-513	Multi-jurisdictional	Southside Ferry Service	Existing Service Locations	Various Locations	N/A	N/A	Provide ferry service to all of Southside - Norfolk, Chesapeake, Portsmouth, VA Beach	Public Survey
2045-514	Multi-jurisdictional	Tide Light Rail Expansion - Hampton Veterans Center	Existing Tide Light Rail Line	Hampton Veterans Center	N/A	N/A	Expand the Tide Light Rail to the Hampton Veterans Center.	Public Survey
2045-515	Multi-jurisdictional	Tide Light Rail Expansion - Williamsburg to Hampton/ VA Beach	Williamsburg	Hampton/ VA Beach	N/A	N/A	Provide Tide to the Peninsula and connect to Southside.	Public Survey
2045-516	Chesapeake	High Capacity Transit Extension to Greenbrier Area	South Norfolk	Greenbrier Area	N/A	N/A	Fixed Guideway/LRT.	2040 LRTP - Study, Chesapeake

2045 LRTP CANDIDATE PROJECTS

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2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	PROJECT SUBMISSION SOURCE
TRANSIT (CONTINUED)								
2045-517	Norfolk	Elizabeth River Ferry Expansion	Current Service Location	ODU and Naval Station Norfolk	N/A	N/A	Expand ferry services to Old Dominion University and Naval Station Norfolk.	2040 LRTP - Study
2045-518	Norfolk	Naval Station Norfolk Transit Extension	Existing LRT	Naval Station Norfolk	N/A	N/A	Fixed Guideway/LRT/High Capacity.	2040 LRTP - Study
2045-519	Suffolk	Tide Light Rail Expansion - Suffolk	Existing Service Locations	Suffolk	N/A	N/A	Extend the Tide Light Rail to Suffolk.	Public Survey
ACTIVE TRANSPORTATION								
2045-701	Multi-jurisdictional	Bike Lanes on Indian River Rd	Berkley Ave	Sparrow Rd	N/A	N/A	Add bike lanes on Indian River Rd from Berkley Ave in Norfolk to Sparrow Rd in Chesapeake.	Public Survey
2045-702	Multi-jurisdictional	Bike Lanes on Indian River Rd	Campostella Rd	Military Hwy	N/A	N/A	Add bike lanes on Indian River Rd between Campostella Rd and Military Hwy including lowering speed limits and traffic calming.	Public Survey
2045-703	Multi-jurisdictional	Bike Path Along Shore Dr/Hampton Blvd/Little Creek Rd	Norfolk Elizabeth River Trail	Virginia Beach City Line	N/A	N/A	Bike Lanes	2040 LRTP - Construction
2045-704	Multi-jurisdictional	Birthplace of America Trail	Virginia Capital Trail	Hampton Roads	N/A	N/A	Build the Birthplace of America Trail.	Public Survey, Additional Public Submission
2045-707	Multi-jurisdictional	South Hampton Roads Trail: Complete Trail (Suffolk to VB)	Suffolk	Virginia Beach	N/A	N/A	Bicycle / Pedestrian Facility	2040 LRTP - Vision, Public Survey
2045-708	Multi-jurisdictional	South Hampton Roads Trail: Virginia Beach (Bike Trails/Lanes Along Light Rail Tracks)	Norfolk	Oceanfront	N/A	N/A	Bicycle / Pedestrian Facility	2040 LRTP - Construction
2045-709	Multi-jurisdictional	Southside Bike Trail	Chesapeake	Virginia Beach Oceanfront	N/A	N/A	Provide Southside Bike Trail corridor from Chesapeake to Virginia Beach oceanfront	Public Survey
2045-711	Multi-jurisdictional	VA/NC Dismal Swamp Bike/Walk Trail Connection	VA	NC	N/A	N/A	Bicycle / Pedestrian Facility	2040 LRTP - Vision
2045-712	Chesapeake	Battlefield Blvd	Military Hwy	Volvo Pkwy	N/A	N/A	Provide bicycle and pedestrian accomodations for safer travel to shopping/retail on foot.	Public Survey
2045-713	Chesapeake	Bike lane along Great Bridge Blvd	Battlefield Blvd	Bainbridge Blvd	N/A	N/A	Construction of in-street bike lanes from Battlefield Blvd to Bainbridge Blvd.	Chesapeake
2045-714	Chesapeake	Bike lane on Waters Rd	Cedar Rd	Washington Dr	N/A	N/A	Construction of in-street bike lanes from Cedar Rd to Washington Dr.	Chesapeake
2045-715	Chesapeake	Construct multi-use path along Etheridge Manor Blvd/Hanbury Rd	Centerville Tnpk	Johnstown Rd	N/A	N/A	Construct new multi-use path.	2040 LRTP - Vision, Chesapeake
2045-716	Chesapeake	Construct multi-use path along George Washington Hwy	Moses Grandy Trail	Deep Creek Park Trailhead	N/A	N/A	Multi-use path along George Washington Hwy from Moses Grandy Trail to connect to existing trail facility at Deep Creek Park.	2040 LRTP - Vision, Chesapeake

2045 LRTP CANDIDATE PROJECTS

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2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	PROJECT SUBMISSION SOURCE
ACTIVE TRANSPORTATION (CONTINUED)								
2045-717	Chesapeake	Construct multi-use path along Greenbrier Pkwy	Eden Way	Kempsville Rd	N/A	N/A	Multi-use path along Greenbrier Pkwy from Eden Way to Kempsville Rd.	Chesapeake
2045-718	Chesapeake	Construct multi-use path along Shell Rd/Canal Rd	G.W. Hwy (US 17)	Military Hwy	N/A	N/A	Multi-use path from G.W. Hwy (US 17) to Military Hwy along Shell Rd/Canal Rd.	Chesapeake
2045-719	Chesapeake	Construct multi-use path trail along Dismal Swamp Canal	Existing Trailhead	North Carolina Border	N/A	N/A	Multi-use path connecting from existing Dismal Swamp Canal trailhead to NC border.	2040 LRTP - Vision, Chesapeake
2045-720	Chesapeake	South Hampton Roads Trail: Western Branch Phase 1	Taylor Rd	Poplar Hill Rd	N/A	N/A	Convert the Commonwealth Railroad right-of-way to a shared use path	2040 LRTP - Construction, Chesapeake
2045-721	Chesapeake	South Hampton Roads Trail: Western Branch Phase 2	Taylor Rd	Suffolk CL	N/A	N/A	Construction of multi-use path from end of Western Branch Phase 1 at Taylor Rd to Suffolk CL.	Chesapeake
2045-722	Gloucester	Hickory Fork Rd	Aberdeen Creek Rd (Rte 632)	Old Pinetta (Rte 610)	2	2	Continue the improvements to Hickory Fork Rd. Roadway provides access to two regional parks. Current road is narrow with inadequate access management. County would also like to see active transportation between the parks along or adjacent to this road.	Gloucester
2045-723	Gloucester	Multi-use paths	Beaverdam Park	Main St	N/A	N/A	Provide bike and pedestrian trails to Beaverdam Park from Main St in Gloucester.	Public Survey
2045-724	Hampton	Five Mile Loop Trail	Fort Monroe	Fort Monroe	N/A	N/A	Develop Five Mile Loop Trail at Fort Monroe.	Public Survey
2045-725	James City County	Bike Lanes on Centerville Rd that connect to Capital Trail	Jamestown Rd (Rte 31)	John Tyler Hwy (Rte 5)	N/A	N/A	Bike Lanes	2040 LRTP - Vision
2045-726	James City County	Monticello Ave Bike Lane	News Rd	Centerville Rd	N/A	N/A	Provide 4-foot wide bike lane on both sides	2040 LRTP - Vision
2045-727	Newport News	16th St Revitalization	Marshall Ave	Peterson's Yacht Basin	2	2	Install street upgrade that will provide full multi-modal facilities on 16th Street from Marshall Ave to Peterson's Yacht Basin.	Newport News
2045-728	Newport News	Multi-use path on 25th St	Jefferson Ave	Parish Ave	2	1	Install a road diet on 25th St from Jefferson Ave to Parish Ave to enhance other modes of travel.	Newport News
2045-729	Newport News	Multi-use path on 26th St	Jefferson Ave	Parish Ave	2	1	Install a road diet on 26th St from Jefferson Ave to Parish Ave to enhance other modes of travel.	Newport News
2045-730	Newport News	Multi-use path on 27th St	Jefferson Ave	Parish Ave	2	1	Install a road diet on 27th St from Jefferson Ave to Parish Ave to enhance other modes of travel.	Newport News
2045-731	Newport News	Multi-use path on 28th St	Jefferson Ave	Parish Ave	2	1	Install a road diet on 28th St from Jefferson Ave to Parish Ave to enhance other modes of travel.	Newport News
2045-732	Norfolk	Bike Lanes on Granby St	W Ocean View Ave	W Main St	N/A	N/A	Provide bike lanes along the length of Granby St.	Public Survey
2045-733	Norfolk	Bike/ pedestrian Access to Naval Station Norfolk via Hampton Blvd	Various Locations	Naval Station Norfolk	N/A	N/A	Bike/pedestrian access to Naval Station Norfolk via Hampton Blvd	Public Survey

2045 LRTP CANDIDATE PROJECTS

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2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	PROJECT SUBMISSION SOURCE
ACTIVE TRANSPORTATION (CONTINUED)								
2045-734	Norfolk	Elizabeth River Trail Extension to Naval Station Norfolk	Cloncurry Road	Admiral Tausig Boulevard	N/A	N/A	Extension of Existing Pedestrian/Bicycle Trail with a bike lane on Hampton Boulevard to NNS.	2040 LRTP - Vision
2045-735	Norfolk	Military Hwy Bike Access	N/A	Shopping Areas and Outlet Mall	N/A	N/A	Provide bike access to shopping areas and outlet mall on Military Hwy.	Public Survey
2045-736	Poquoson	Bike Path on Hunts Neck Rd (Rte 172)	Yorktown Rd	Pasture Rd	N/A	N/A	Provide 10' Shared Use Path	2040 LRTP - Vision
2045-737	Portsmouth	Bike lanes on Churchland Blvd	Portsmouth Trail	High St	N/A	N/A	Provide bike facility connection	2040 LRTP - Construction
2045-738	Portsmouth	Complete High St	Chesnut St	MLK Overpass	4	4	The "Complete Streets" conversion of High St to better accommodate bicyclist, pedestrians, and transit users as part of the South Hampton Roads Trail.	Portsmouth
2045-739	Portsmouth	Portsmouth Rail-to-Trail	TBD	TBD	N/A	N/A	Shared Use Path	Portsmouth
2045-740	Portsmouth	Twin Pines Rd Shared Use Path	Swannanoa Dr	Sunset Point	2	2	Install shared use path.	Portsmouth
2045-741	Suffolk	Rail-to-Trail (Suffolk Seaboard Coastline Trail, part of the South Hampton Roads Trail)	Pughsville Rd	Downtown Suffolk	N/A	N/A	Shared Use Path	2040 LRTP - Construction
2045-742	Virginia Beach	Greenwich Rd conversion to Shared Use Path	Newtown Rd	South Witchduck Rd	N/A	N/A	New facility	Virginia Beach
2045-743	Virginia Beach	Level Green Powerline Corridor	Reon Dr	Chesapeake CL at S. Military Hwy	N/A	N/A	New facility - Shared Use Path	2040 LRTP - Construction
2045-744	Virginia Beach	Nimmo Trail	Nimmo Pkwy	Sandbridge Rd	N/A	N/A	New facility - Shared Use Path	2040 LRTP - Vision
2045-745	Virginia Beach	Northampton Blvd Right-of-Way	Bayside Dr	Greenwell Rd	N/A	N/A	New facility - Shared Use Path	2040 LRTP - Vision
2045-746	Virginia Beach	Scarborough Bridge	Magic Hollow Blvd	Old Clubhouse Rd	N/A	N/A	New facility - Shared Use Path	2040 LRTP - Construction
2045-747	Virginia Beach	Seaboard Rd Shared Use Path and land acquisition	North - Princess Anne Rd	South - Princess Anne Rd	N/A	N/A	New facility	Virginia Beach
2045-748	Virginia Beach	Thalia Creek Greenway - Phase IV	Constitution Dr	Virginia Beach Trail	N/A	N/A	TBD	Virginia Beach
2045-749	Virginia Beach	Thalia Creek Greenway - Phase V	Virginia Beach Trail	Virginia Beach Blvd	N/A	N/A	TBD	Virginia Beach
2045-750	Virginia Beach	Thalia Creek Greenway - Phase VI	Constitution Dr	I-264	N/A	N/A	TBD	Virginia Beach

2045 LRTP CANDIDATE PROJECTS

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2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	PROJECT SUBMISSION SOURCE
ACTIVE TRANSPORTATION (CONTINUED)								
2045-751	Virginia Beach	Virginia Beach Trail	Newtown Rd	Norfolk Ave	N/A	N/A	Construct shared use path.	2040 LRTP - Locally Funded, Public Survey
2045-752	Virginia Beach	Walkway at Virginia Beach Town Center Over I-264	Thalia Creek Greenway	Mt. Trashmore Park	N/A	N/A	New facility - 14'-20' wide shared use path bridge	2040 LRTP - Vision
2045-753	Williamsburg	Carter's Grove Country Rd Shared Use Path	South England St	Ron Springs Dr	N/A	N/A	Conversion to a shared use multi jurisdictional path in former private road	Williamsburg
2045-754	Williamsburg	Monticello Ave Shared-Use Path	Treyburn Drive	Ironbound Rd (Rte 615)	N/A	N/A	This project is a 10' lighted shared-use path along Monticello Avenue between Treyburn Drive and Ironbound Road that will improve access and safety for pedestrians and cyclists.	2040 LRTP - Construction
2045-755	Williamsburg	Strawberry Plains Rd Shared Use Path	Ironbound Rd	John Tyler Ln	N/A	N/A	10 foot wide separated multi-use path on the eastern side of Strawberry Plains Rd	Williamsburg
2045-756	York County	Penniman Rd (Sidewalk / Multi Use Path)	Williamsburg CL	Marquis Center Pkwy (Rte 199)	N/A	N/A	Sidewalk & Multi-Use Path	2040 LRTP - Vision
2045-757	York County	Shared Use Path - Yorktown Road	Tabb High School	Hampton Hwy (Rte 134) at Brick Kiln Creek Bridge	N/A	N/A	Shared Use Path	2040 LRTP - Vision
2045-758	York County	Shared Use Path Along Yorktown Rd	Cardinal Ln (Rte 670)	Victory Blvd (Rte 171)	N/A	N/A	Shared Use Path	2040 LRTP - Construction
2045-759	York County	Victory Boulevard Shared Use Path	Big Bethel Rd (Rte 600)	Carys Chapel Rd (Rte 762)	2	2	10-foot shared use path on the north side of Victory Blvd (Rte 171)	York County, 2040 LRTP - Vision

2045 LRTP REMOVED PROJECTS

REMOVED PROJECTS									
2045 ID	LOCALITY	PROJECT NAME	FROM	TO	EXISTING LANES	PROPOSED LANES	PROJECT DESCRIPTION	PROJECT SUBMISSION SOURCE	REASON FOR REMOVAL
HIGHWAY									
2045-159	James City County	Centerville Rd	Richmond Rd (US 60)	Longhill Rd	2	TBD	Congestion relief/widening.	James City County	Per locality request
2045-172	Newport News	Jefferson Ave Widening	Green Grove Ln	Fort Eustis Blvd	4	6	Adds capacity and relieves congestion on parallel facility	2040 LRTP - Vision, FTAC	Duplicate of 2045-173 & 2045-174
2045-177	Newport News	Oyster Point Rd Widening	Jefferson Ave	Warwick Blvd	4	6	Relieves congestion on parallel facility	2040 LRTP - Vision	Per locality request
2045-185	Newport News	Warwick Blvd	Nettles Dr	Fort Eustis Blvd	4	6	Widening	2040 LRTP - Vision, Public Survey	Overlaps 2045-186, 187, 188, 189, 190, & the part of 191
2045-193	Norfolk	Brambleton Ave	Midtown Tunnel	I-264	4/6	6/8	Corridor improvements to improve travel flow, pedestrian safety and comfort and landscaping	2040 LRTP - Construction, Public Survey	Per locality request
2045-249	Virginia Beach	Military Hwy	Providence Rd	Indian River Rd	6	8	Widening 6 to 8 lanes.	FTAC	Per locality request
2045-102	Multi-jurisdictional (York County)	Denbigh Blvd (Rte 173)	Independence Blvd	York CL	2	4	Widening	2040 LRTP - Vision, FTAC	Per locality request
TRANSIT									
2045-520	Virginia Beach	Virginia Beach Transit Extension	Newtown Rd Station	Virginia Beach Oceanfront	N/A	N/A	Construction of fixed guideway system along alignment of abandoned Norfolk Southern (NS) Railroad. Access options from east end of NS Railroad at Birdneck Road to the Oceanfront are being evaluated.	2040 LRTP - Study, Public Survey	Per locality request
2045-521	Virginia Beach	Virginia Beach Transit Extension North - Phase II	Town Center / Independence Blvd	Shore Dr	N/A	N/A	The northern portion of the Virginia Beach Transit Extension.	2040 LRTP - Study	Per locality request
2045-522	Virginia Beach	Virginia Beach Transit Extension South - Phase III	Town Center / Independence Blvd	Virginia Beach Municipal Center	N/A	N/A	The southern portion of the Virginia Beach Transit Extension.	2040 LRTP - Study	Per locality request
ACTIVE TRANSPORTATION									
2045-705	Multi-jurisdictional	Expand the Virginia Capital Trail	James City County	Rest of Hampton Roads	N/A	N/A	Expand the Virginia Capital Trail.	Public Survey	Duplicate project suggestion (part of the Birthplace of America Trail)
2045-706	Multi-jurisdictional	Regional Bike Highway	N/A	N/A	N/A	N/A	Provide a regional bike highway thereby enhancing multimodal transportation.	Public Survey	Project description is too vague to develop a cost estimate (no termini) or evaluate (additional details not provided by localities)
2045-710	Multi-jurisdictional	Tidewater Loop	N/A	N/A	N/A	N/A	Connect the trail systems of Norfolk, Chesapeake, Virginia Beach and Portsmouth. From survey respondent, "Each has trail systems (ERT, Shore Dr, etc), but little connection between them. Make it a Tidewater Loop. It would connect the regions attractions, retail/business areas, and population areas. It would also be a significant regional attraction itself."	Additional Public Submission	Project description is too vague to develop a cost estimate (no termini) or evaluate (additional details not provided by localities)
2045-194	Norfolk	(removal of) Downtown Norfolk Bike Lanes	Downtown Norfolk	Downtown Norfolk	N/A	N/A	Remove bike lanes in Downtown Norfolk that were previously vehicle traffic lanes. Restore to vehicle traffic lanes.	Public Survey	Per locality request
2045-760	York County	York County Trail	N/A	N/A	N/A	N/A	Provide a trail through York County linking much of the western half, west of Rte 17 to historic Yorktown and the Colonial Pkwy utilizing showalter, lakeside, Dare, Allens Mill, Wolf Trap, Hornsebeville, Old York-Hampton hwy, and Cook Rd.	Public Survey	Not enough info to provide a cost estimate; also, portions are not consistent with County plans