

# Hampton Roads 2045

## Long-Range Transportation Plan:

### Title VI/Environmental Justice

### Candidate Project Evaluation



T20-08



July 2020

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# REPORT DOCUMENTATION

## TITLE

Hampton Roads 2045 Long-Range Transportation Plan: Title VI/  
Environmental Justice Candidate Project Evaluation

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## ABSTRACT

The Hampton Roads Transportation Planning Organization (HRTPO) is currently in the process of updating the regional Long-Range Transportation Plan (LRTP) to the horizon year 2045. As part of this process and in keeping with Title VI of the Civil Rights Act of 1964 and Executive Order 12898, transportation candidate projects considered for inclusion into the 2045 LRTP were assessed using the HRTPO Title VI/Environmental Justice Methodology.

## 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.

## NON-DISCRIMINATION

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: TITLE VI/  
ENVIRONMENTAL JUSTICE CANDIDATE PROJECT EVALUATION**

**REPORT DATE      JULY 2020**

**REPORT T20-08**



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# INTRODUCTION

## HAMPTON ROADS TRANSPORTATION PLANNING ORGANIZATION

The Hampton Roads Transportation Planning Organization (HRTPO) is the Metropolitan Planning Organization (MPO) for the region. Established through Federal regulations, MPOs are transportation decision-making boards comprised of representatives from local, state, and federal governments; transit agencies; and other stakeholders.

Voting representation on the HRTPO Board includes elected officials from the Cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg, and the Counties of Gloucester, Isle of Wight, James City, Southampton, and York; plus representatives from the Transportation District Commission of Hampton Roads (TDCHR), Williamsburg Area Transit Authority (WATA), the Virginia Department of Rail and Public Transportation (DRPT), the Virginia Port Authority (VPA), and the Virginia Department of Transportation (VDOT). Non-voting Board members include representatives from the Virginia Department of Aviation (VDOA), the Federal Highway Administration (FHWA), the Federal Transit Administration (FTA), and the Federal Aviation Administration (FAA). The HRTPO Board continually assesses its membership to account for emerging trends or shifts in the area of regional transportation and may add other stakeholders as deemed appropriate.

## HRTPO LONG-RANGE TRANSPORTATION PLAN

A core function of the HRTPO is to develop and maintain a Long-Range Transportation Plan (LRTP). The LRTP is a blueprint designed to help guide the region's transportation planning over a 20-year horizon, reflecting the vision and goals of the region. The HRTPO adopted the current 2040 LRTP in 2016; since that time, HRTPO staff has been coordinating with regional stakeholders to update the Plan to the horizon year of 2045.

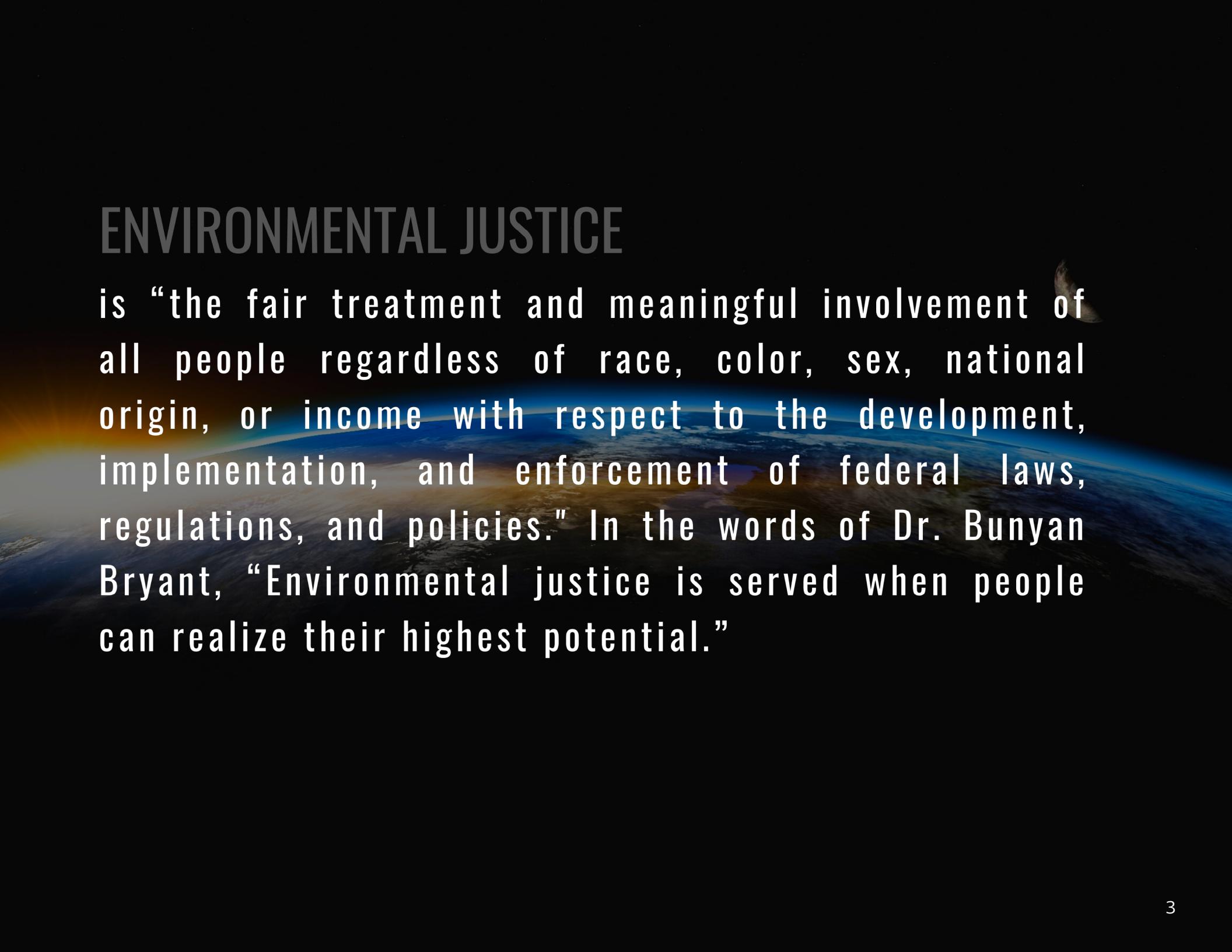
The LRTP lists regionally-significant transportation projects, including major capacity improvements (new roadway lanes, bridges, tunnels, or transit links) as well as regional pedestrian and bicycle facilities, freight-related projects, and other critical investments. Under Federal law, the LRTP must be "fiscally constrained," meaning only projects for which costs are covered by revenues that are reasonably expected over the 20-year planning horizon can be considered in the funding recommendations documented within the Plan.

## 2045 LRTP CANDIDATE PROJECTS

To determine the best alternatives to address future regional needs effectively, HRTPO staff developed a list of candidate projects for consideration in the 2045 LRTP. This list was generated using various sources, including the current 2040 LRTP and Regional Vision Plan, HRTPO planning studies, public input received via a web-based public survey, and locality and regional stakeholder input received from HRTPO advisory committees. Approximately 300 candidate projects will be evaluated for inclusion in the 2045 LRTP. This report documents the Title VI/Environmental Justice analysis of the candidate projects. In addition to this Environmental Justice analysis, the candidate projects will also be evaluated with the HRTPO Project Prioritization Tool.

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.

# ENVIRONMENTAL JUSTICE



is “the fair treatment and meaningful involvement of all people regardless of race, color, sex, national origin, or income with respect to the development, implementation, and enforcement of federal laws, regulations, and policies.” In the words of Dr. Bunyan Bryant, “Environmental justice is served when people can realize their highest potential.”

## ENVIRONMENTAL JUSTICE AND TITLE VI

The HRTPO is committed to including traditionally underrepresented persons in the development of plans, programs, and processes.

### ENVIRONMENTAL JUSTICE AND TITLE VI OF THE CIVIL RIGHTS ACT OF 1964

The Environment Justice Executive Order signed by President William Jefferson Clinton in 1994, reinforces the existing requirements of Title VI of the Civil Rights Act. Each Federal agency is required to ensure that no person on the grounds of race, color, or national origin is excluded from participation in, denied the benefits of, or in any other way subjected to discrimination under any program or activity receiving Federal assistance. Accordingly, Title VI prohibits recipients of Federal funds from actions that reflect “intentional discrimination” or that exhibit “adverse disparate impact discrimination” based on race, ethnicity, or national origin. Supplemental legislation provides these same protections from discrimination based on sex, age, disability, or religion.

### ENVIRONMENTAL JUSTICE AND TRANSPORTATION DECISION-MAKING

Environmental Justice is more than a set of legal and regulatory obligations. Properly implemented, Environmental Justice principles and procedures can improve all levels of transportation decision-making. By incorporating Environmental Justice in transportation decision-making, planners can:

- Help make better transportation decisions that meet the needs of all people, including enhancing the public-involvement process, strengthening community-based partnerships, and providing minority and low-income populations with opportunities to learn about and improve the quality and usefulness of transportation in their lives.
- Improve data collection, monitoring, and analysis tools that assess the needs of and analyze the potential impacts on minority and low-income populations.
- Partner with other public and private programs to leverage transportation agency resources to achieve a shared vision for communities.
- Avoid disproportionately high and adverse impacts on minority and low-income populations.
- Minimize and mitigate unavoidable impacts by identifying concerns early in the planning phase and providing offsetting initiatives and enhancement measures to benefit affected communities and neighborhoods.

## **TITLE VI/ENVIRONMENTAL JUSTICE METHODOLOGY**

During the development of the 2040 LRTP, HRTPO staff developed a multi-step Title VI/Environmental Justice Methodology to evaluate potential impacts LRTP projects may pose for Title VI/Environmental Justice communities. This methodology is again being applied to evaluate candidate projects being considered as part of the 2045 LRTP update.

### **SEVEN STEP ENVIRONMENTAL JUSTICE EVALUATION**

The Title VI/Environmental Justice Methodology is a structured approach consisting of the following seven steps:

- 1 IDENTIFICATION OF TITLE VI/ENVIRONMENTAL JUSTICE INDICATORS**
- 2 IDENTIFICATION OF GEOGRAPHICAL AREAS OF ANALYSIS**
- 3 IDENTIFICATION OF ENVIRONMENTAL JUSTICE COMMUNITIES**
- 4 ASSIGNMENT OF CANDIDATE PROJECT EXTENT**
- 5 IDENTIFICATION OF POTENTIALLY IMPACTED ENVIRONMENTAL JUSTICE COMMUNITIES**
- 6 DETERMINATION OF ENVIRONMENTAL JUSTICE IMPACT SCORE**
- 7 DEVELOPMENT AND IMPLEMENTATION OF ENVIRONMENTAL JUSTICE PUBLIC PARTICIPATION STRATEGIES FOR THE 2045 LRTP CANDIDATE PROJECTS**

## STEP 1: IDENTIFICATION OF TITLE VI/ENVIRONMENTAL JUSTICE INDICATORS

The HRTPO evaluated the following underrepresented populations for the Long-Range Transportation Plan's Environmental Justice Analysis:

### CARLESS HOUSEHOLDS

Households with no vehicles available

### DISABLED POPULATIONS

Non-Institutionalized persons identified as having a disability of the following basic areas of functioning – hearing, vision, cognition, and ambulation

### ELDERLY POPULATIONS

People who are aged 65 and older

### FEMALE HEAD OF HOUSEHOLDS

Households where females are the heads of households with children present and no husband present

### HOUSEHOLDS RECEIVING FOOD STAMPS

Households that received Supplemental Nutrition Assistance Program (SNAP) or Food Stamps

### HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE

Households that received either cash assistance or in-kind benefits

### LIMITED ENGLISH PROFICIENCY POPULATIONS

Population 5 years or over who speak English less than "very well"

### LOW-INCOME HOUSEHOLDS

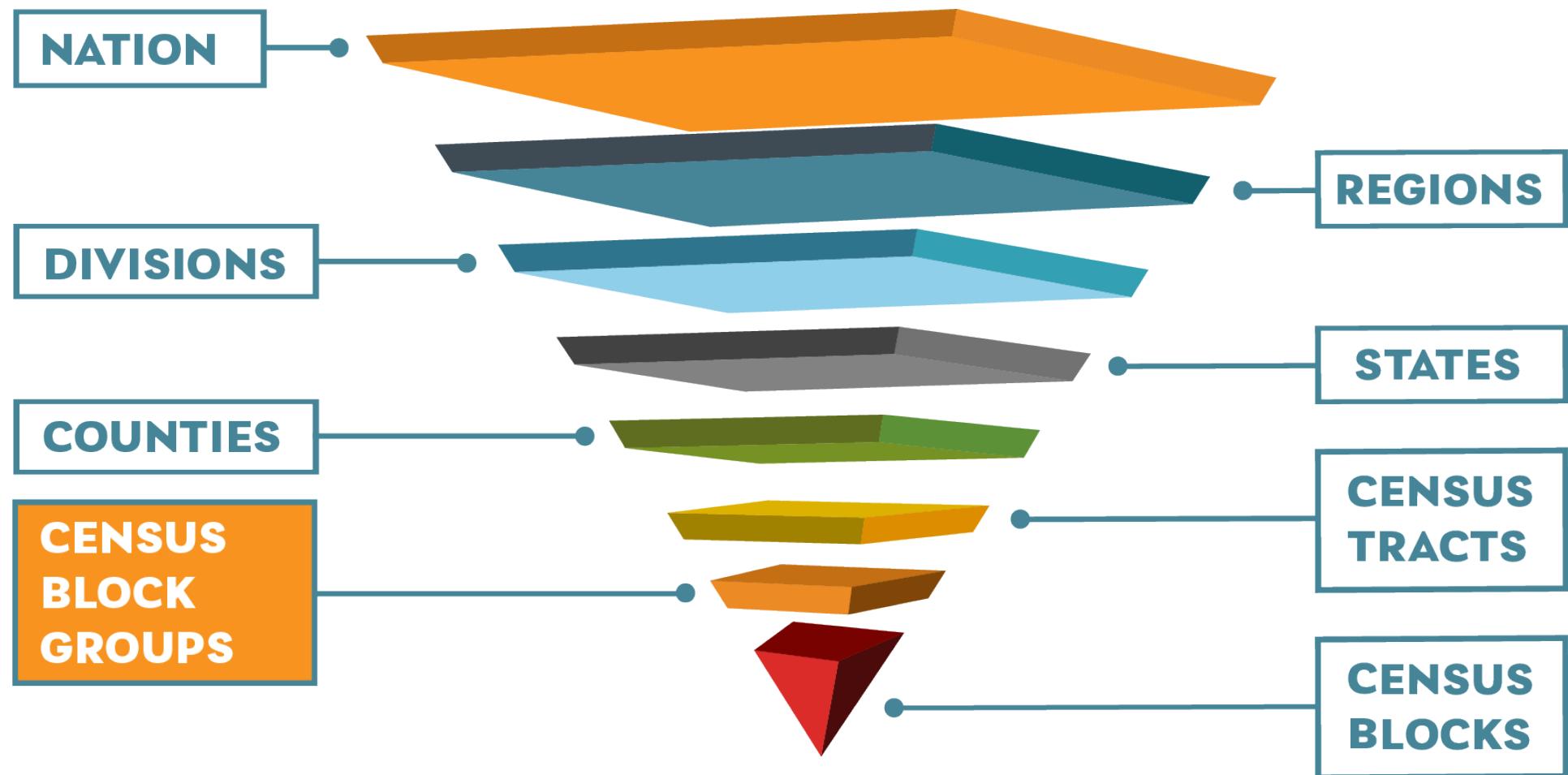
A low-income household is one whose income is low, relative to other households of the same size

### MINORITY POPULATIONS

A person who is black, Hispanic, American Indian, Alaskan Native or Asian American

## STEP 2: IDENTIFICATION OF GEOGRAPHICAL AREAS FOR ANALYSIS

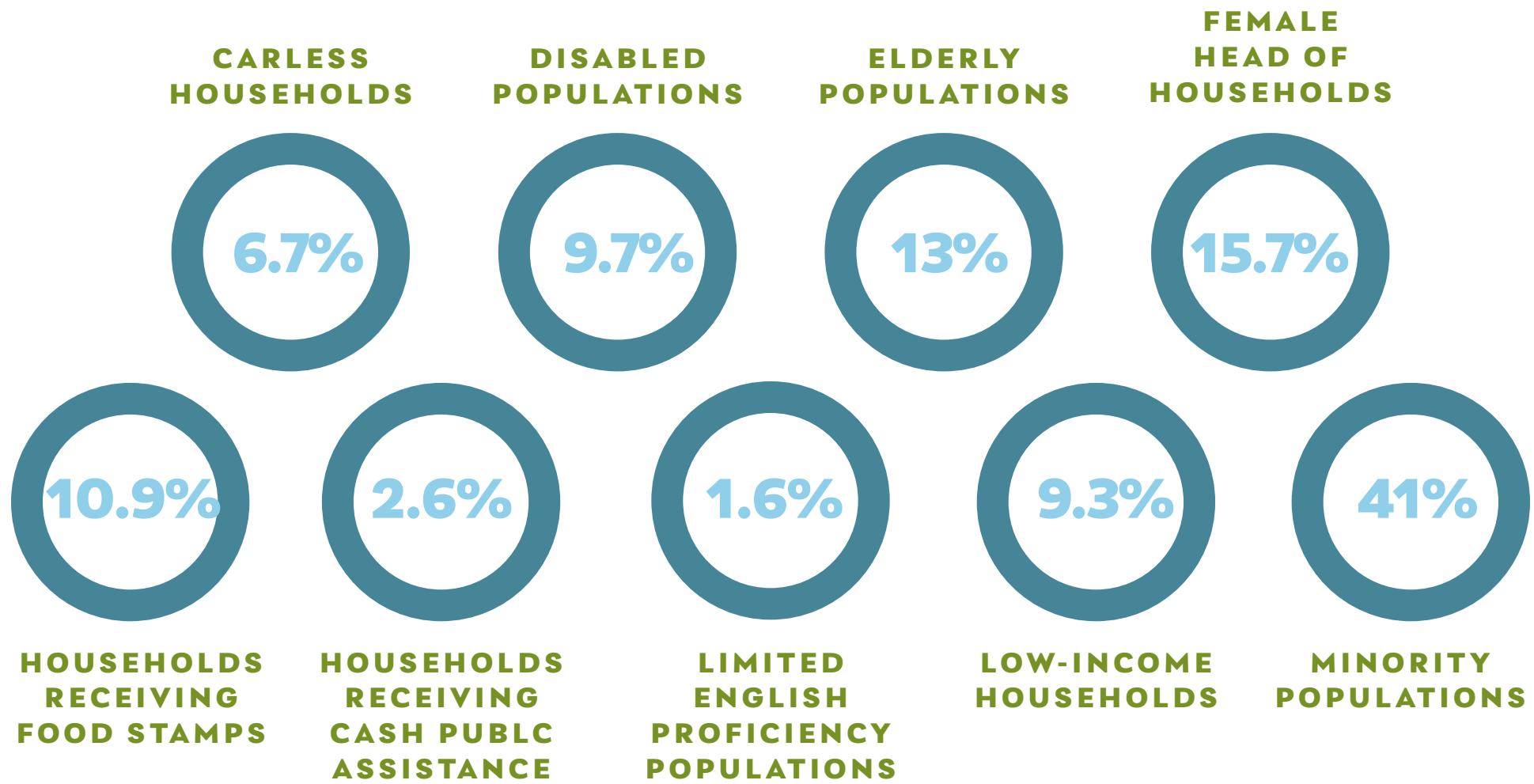
For this analysis, HRTPO staff used the smallest available geographic area, Census Block Groups, for the identified EJ Indicators. Census Block Groups are the second smallest geographic area for which the Bureau of the Census collects and tabulates decennial census data. Census Block Groups are a combination of smaller Census Blocks and generally contain between 600 and 3,000 people.



## STEP 3: IDENTIFICATION OF ENVIRONMENTAL JUSTICE COMMUNITIES

Using the Census American Community Survey 5-year Estimate data for 2012-2016, HRTPO staff calculated the regional averages for the nine Title VI/Environmental Justice Indicators.

The regional average percentages for each Title VI/Environmental Justice Indicator are below:



Next, HRTPO staff calculated the presence of Title VI/Environmental Justice populations in each of the region's Census Block Groups. This calculation was then compared to the regional average. Any Census Block Group with an average equal to or higher than the regional average percentage of the Title VI/Environmental Justice Indicator is identified as an Environmental Justice Community (See Appendix A).

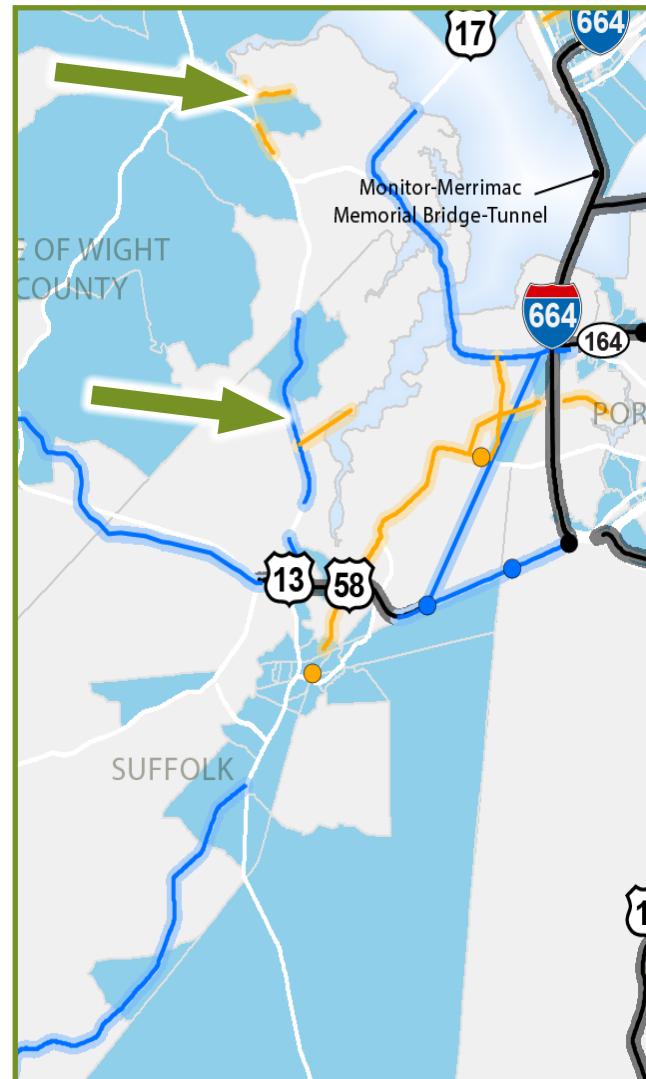
## STEP 4: ASSIGNMENT OF CANDIDATE PROJECT IMPACT EXTENT

2045 LRTP candidate projects were assigned an impact extent. Candidate Interstate projects were assigned a 2-mile impact extent while all other candidate projects were assigned a 1-mile impact extent. Project impact extents, or buffers, will be used to identify potentially impacted Environmental Justice communities, described in step 5.

### 2-MILE BUFFER EXAMPLE INTERSTATE



### 1-MILE BUFFER EXAMPLE NON-INTERSTATE



## STEP 5: IDENTIFICATION OF POTENTIALLY IMPACTED ENVIRONMENTAL JUSTICE COMMUNITIES

After the candidate project buffers were produced, a two-part process was applied to analyze the potential impact of the 2045 LRTP candidate projects on Environmental Justice communities in Hampton Roads.

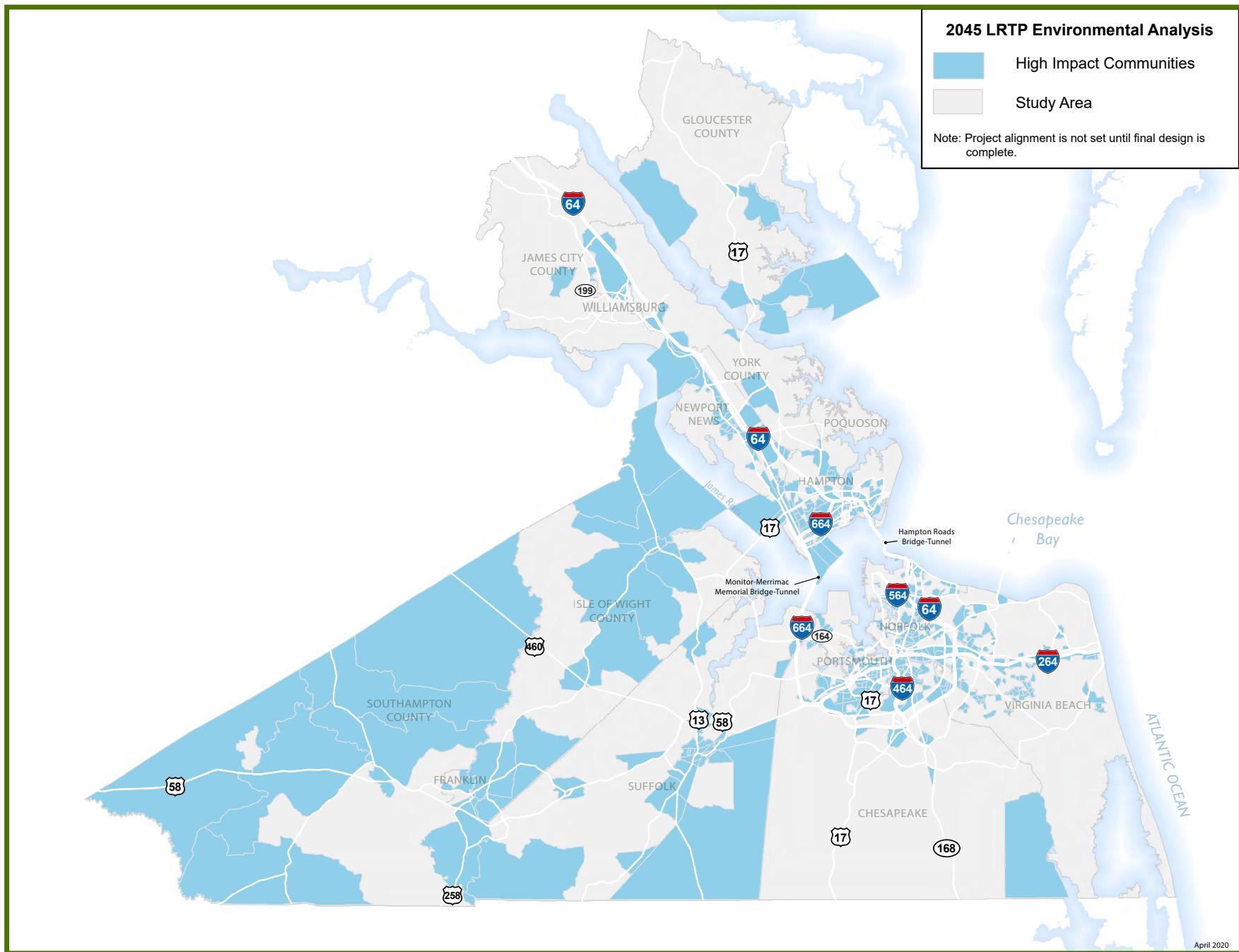
First, High Impact Environmental Justice Communities were identified, defined as Census Block Groups that contain FIVE OR MORE Environmental Justice Communities within the same Block Group. An overlay analysis was conducted quantifying the number of High Impact Environmental Justice Communities that intersected a candidate project's buffer.

Next, if more than 50% of the total Census Block Groups within the project's buffer are High Impact Environmental Justice Communities (five or more Environmental Justice Communities within the same Census Block Group), these candidate projects are noted as "High Impact" candidate projects.

Appendix B summarizes the 2045 LRTP candidate projects identified as having a high impact on Environmental Justice Communities, indicating total number of High Impact Environmental Justice Communities and by Environmental Justice Indicator.

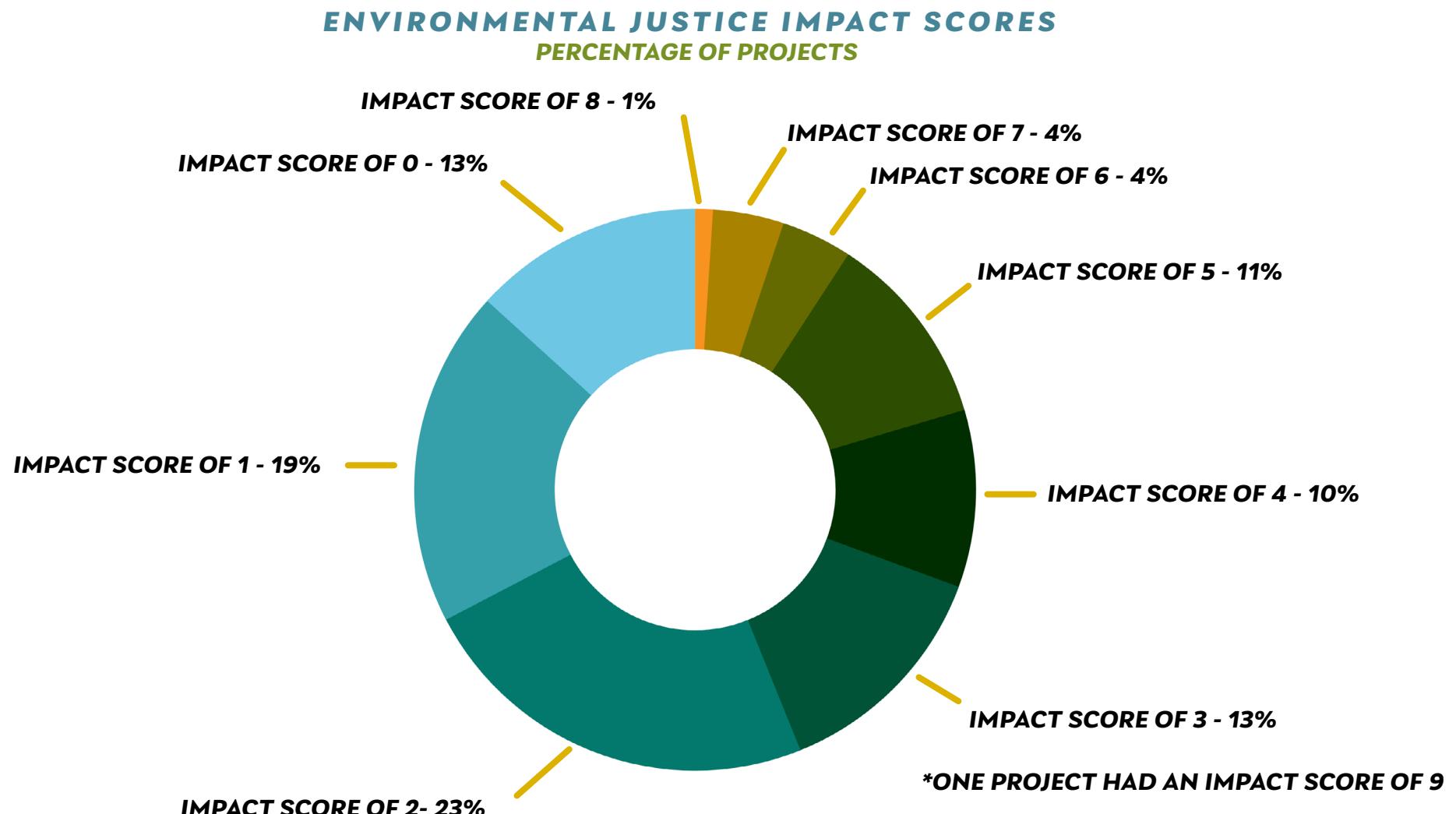


## HIGH IMPACT ENVIRONMENTAL JUSTICE COMMUNITIES MAP



## STEP 6: DETERMINATION OF ENVIRONMENTAL JUSTICE IMPACT SCORE

To determine the Environmental Justice Impact Score, the Environmental Justice Community for each Environmental Justice Indicator was analyzed within each candidate project buffer. If more than 50% of the Block Groups within a candidate project buffer are comprised of an Environmental Justice Community, this was noted as being highly affected by the potential project. The Environmental Justice Impact Score represents the sum of the nine Environmental Justice Indicators that are highly affected by the candidate project. Environmental Justice Impact Scores range from a high of 9 to a low of 0.



Appendix C summarizes the Environmental Justice Impact Score and the highly affected Environmental Justice Community for each 2045 LRTP candidate project.

## STEP 7: DEVELOPMENT AND IMPLEMENTATION OF ENVIRONMENTAL JUSTICE PUBLIC PARTICIPATION STRATEGIES FOR THE 2045 LRTP CANDIDATE PROJECTS

The HRTPO works to engage all who live, work and play in Hampton Roads, with our long-range transportation planning process. By establishing a public involvement program dedicated to creating citizen awareness and providing public input, the HRTPO has achieved a mechanism through which the public is involved in transportation decision-making. In communities comprised of traditionally underrepresented populations, specifically minority and/or low-income individuals, our public involvement approach is tailored to reflect the community's potential barriers to participation, such as lack of access to transportation, alternative work hours, and language barriers.

It is important to note, specific outreach approaches should be considered for each community. Listed below are outreach strategies HRTPO staff implements:

- 1 Publish ads and notices in newspapers, radio and other media, particularly media targeted to minority populations and low-income populations.
- 2 Develop ongoing stakeholder relations with community organizations, civic leagues, higher learning institutions, places of worship and businesses.
- 3 Develop language-outreach strategies, as determined by the HRTPO Limited English Proficiency (LEP) Plan.
- 4 Hold public meetings in locations that are accessible to transit and occur during non-traditional meeting times.
- 5 Regularly convene the HRTPO Environmental Justice Roundtable Meeting Group to ensure that community needs are considered.
- 6 Community Conversations
- 7 Coordination with schools
- 8 Social Media
- 9 Utilize the HRTPO Community Advisory Committee to provide a community overview of HRTPO programs and policies.

| POTENTIAL STRATEGIES FOR REACHING TRADITIONALLY UNDERREPRESENTED POPULATIONS |          |            |                                   |          |         |         |                    |                          |
|--|----------|------------|-----------------------------------|----------|---------|---------|--------------------|--------------------------|
|  | MINORITY | LOW-INCOME | LIMITED ENGLISH PROFICIENCY (LEP) | DISABLED | ELDERLY | CARLESS | PUBLIC ASSISTANCE* | FEMALE HEAD OF HOUSEHOLD |
| TARGETED ADS AND NOTICE  | ●        | ●          | ●                                 |          | ●       |         |                    |                          |
| LANGUAGE OUTREACH STRATEGIES   | ●        | ●          | ●                                 |          |         |         |                    |                          |
| TRANSIT ACCESSIBLE MEETINGS  | ●        | ●          |                                   | ●        | ●       | ●       | ●                  |                          |
| CONVENIENT MEETING TIMES AND LOCALS  |          | ●          |                                   |          | ●       | ●       | ●                  | ●                        |
| PARTNERSHIPS WITH OTHER ORGANIZATIONS  | ●        | ●          | ●                                 | ●        | ●       | ●       | ●                  |                          |
| COMMUNITY CONVERSATIONS  | ●        | ●          | ●                                 | ●        | ●       | ●       | ●                  | ●                        |
| COORDINATION WITH SCHOOLS  | ●        | ●          | ●                                 | ●        |         |         | ●                  | ●                        |

\* Public Assistance captures both Households Receiving Cash Public Assistance and Households Receiving Food Stamps Environmental Justice Indicators

HRTPO staff will continue to develop and improve the Title VI/Environmental Justice Methodology to benefit Environmental Justice communities throughout the Hampton Roads region. The Environmental Justice Impact Scores that have been developed for the 2045 LRTP candidate projects will be shared with the HRTPO and their advisory/technical committees for their consideration. These Environmental Justice Impact Scores depict degrees of impact and not specific types of impact, as both positive and negative impacts could be associated with each specific project. Strategic enhanced public involvement strategies will be implemented in Environmental Justice communities that are highly affected by projects.

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# APPENDIX A: 2045 LRTP CANDIDATE PROJECTS AND ENVIRONMENTAL JUSTICE COMMUNITY MAPS

The following maps display the physical location of the 2045 LRTP candidate projects and their proximity to identified Environmental Justice communities. There are maps for each of the nine Environmental Justice indicators, categorized by Roadway, Active Transportation, and Transit.

**ROADWAY CANDIDATE PROJECTS AND ENVIRONMENTAL JUSTICE INDICATORS**

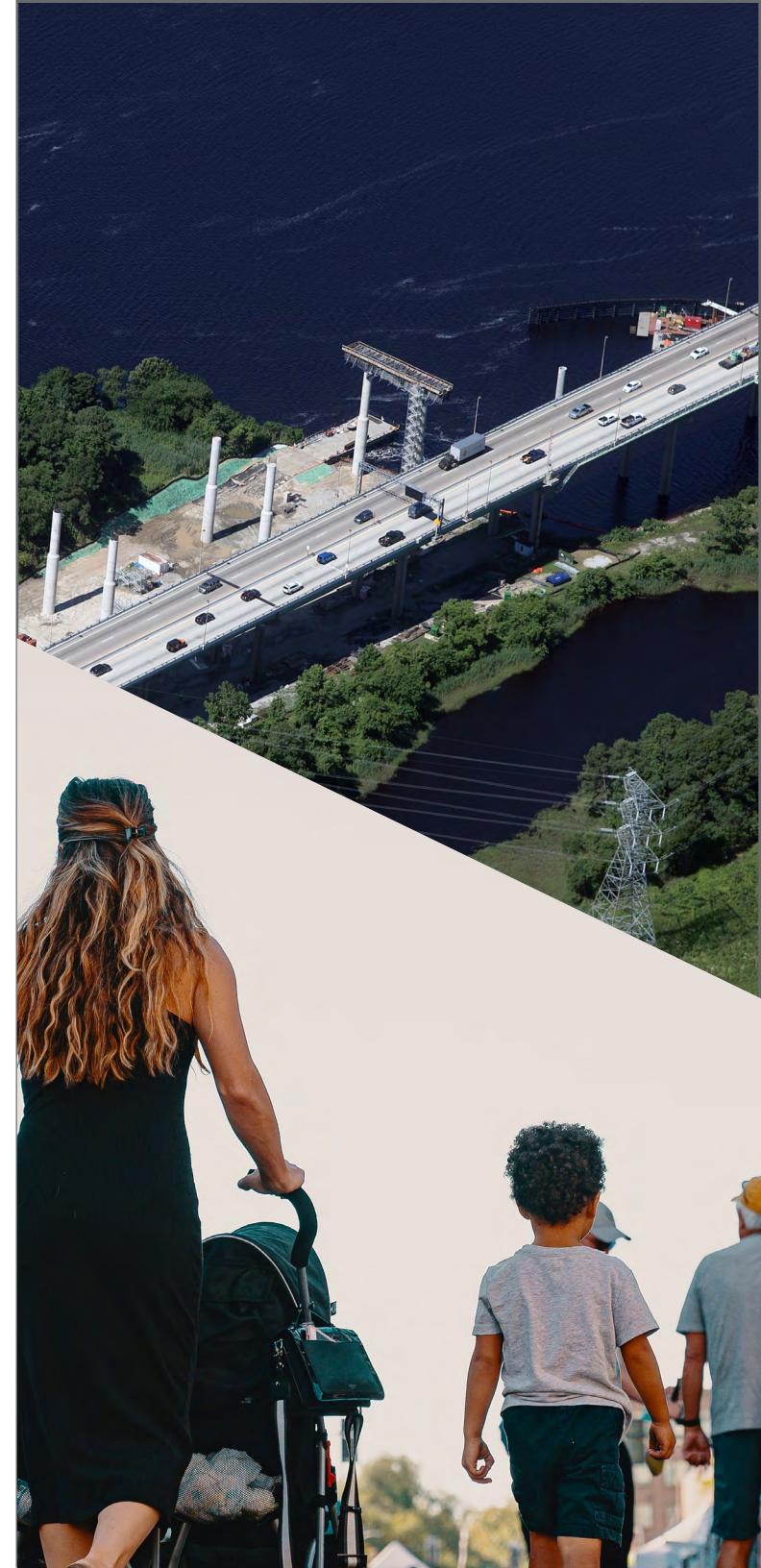
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**ACTIVE TRANSPORTATION CANDIDATE PROJECTS AND ENVIRONMENTAL JUSTICE INDICATORS**

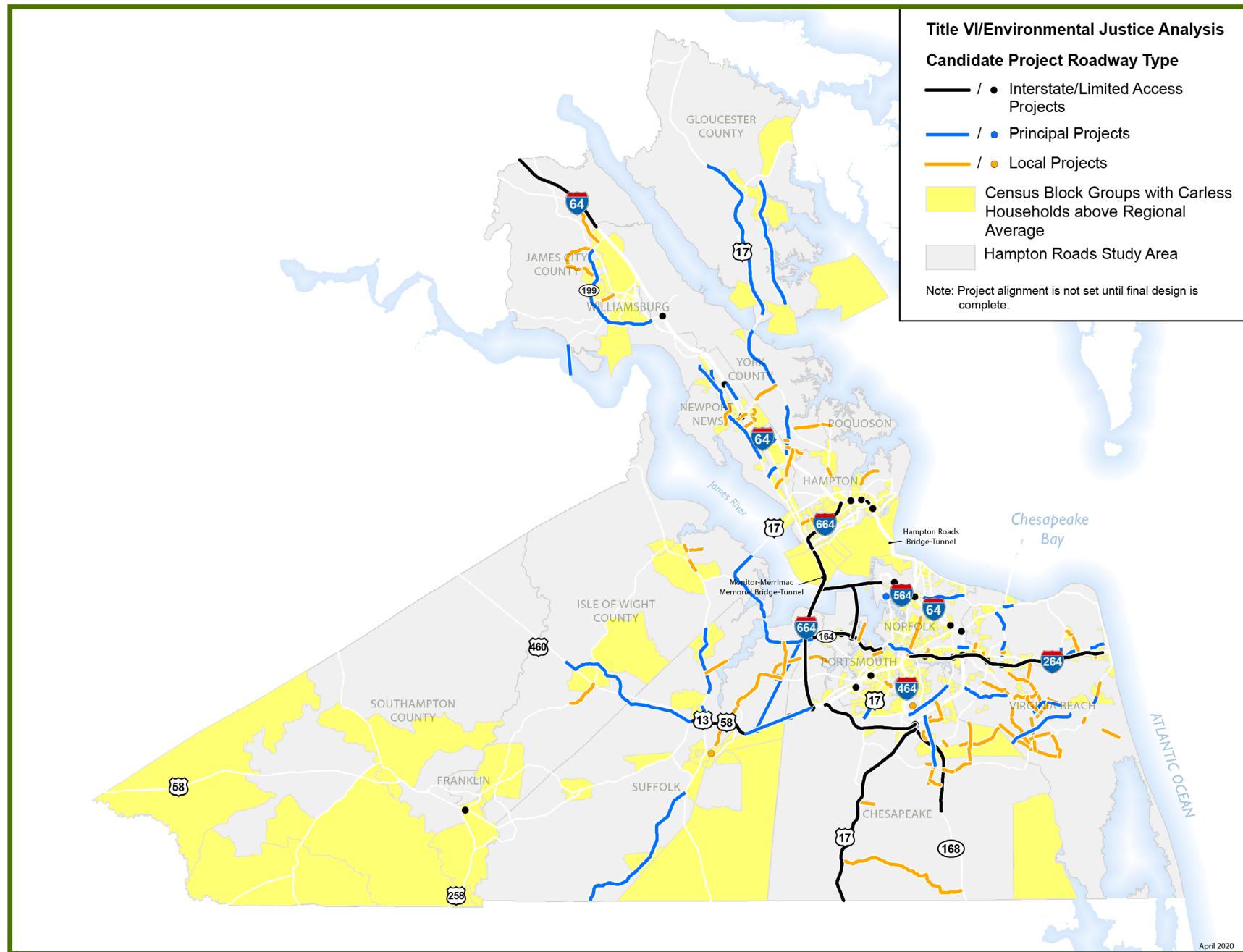
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**TRANSIT CANDIDATE PROJECTS AND ENVIRONMENTAL JUSTICE INDICATORS**

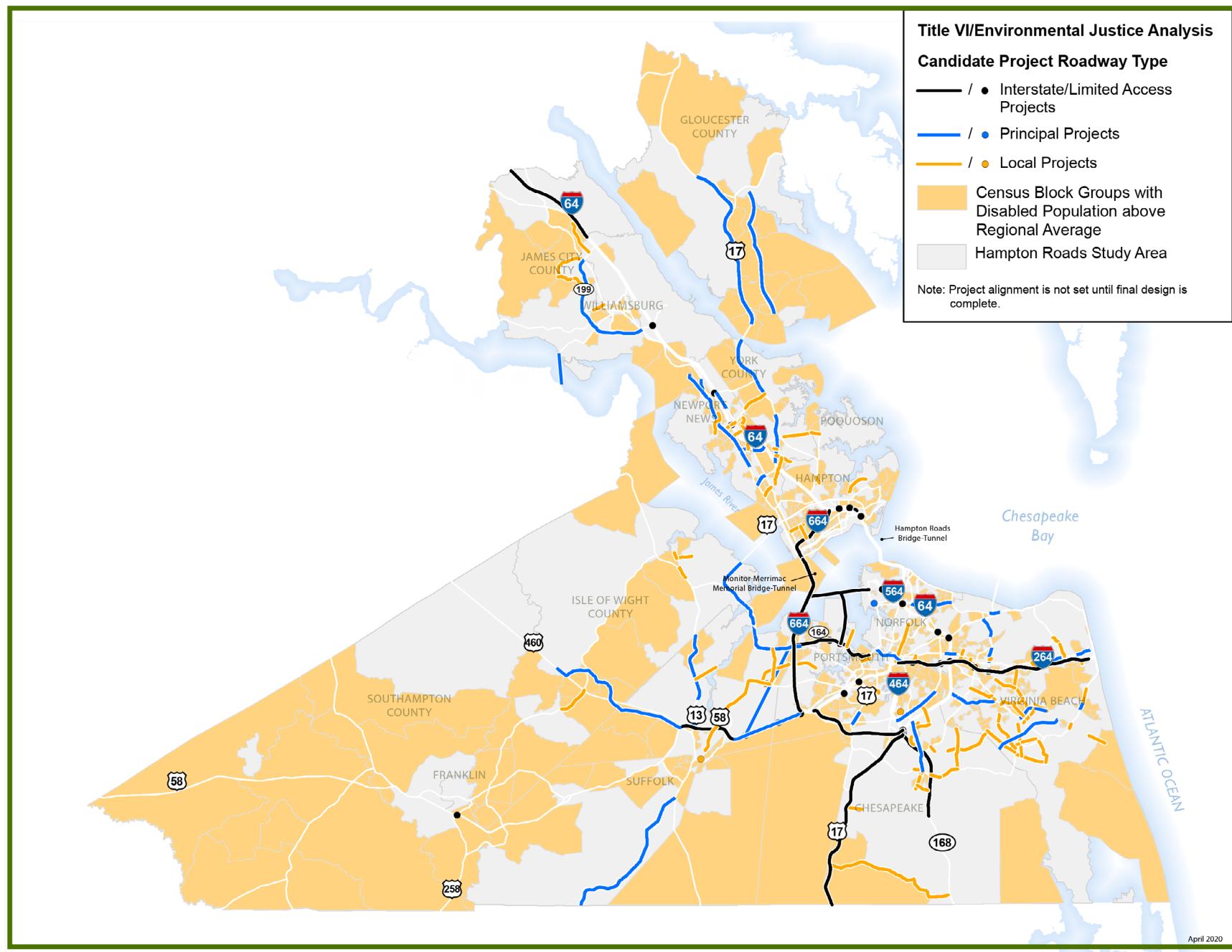
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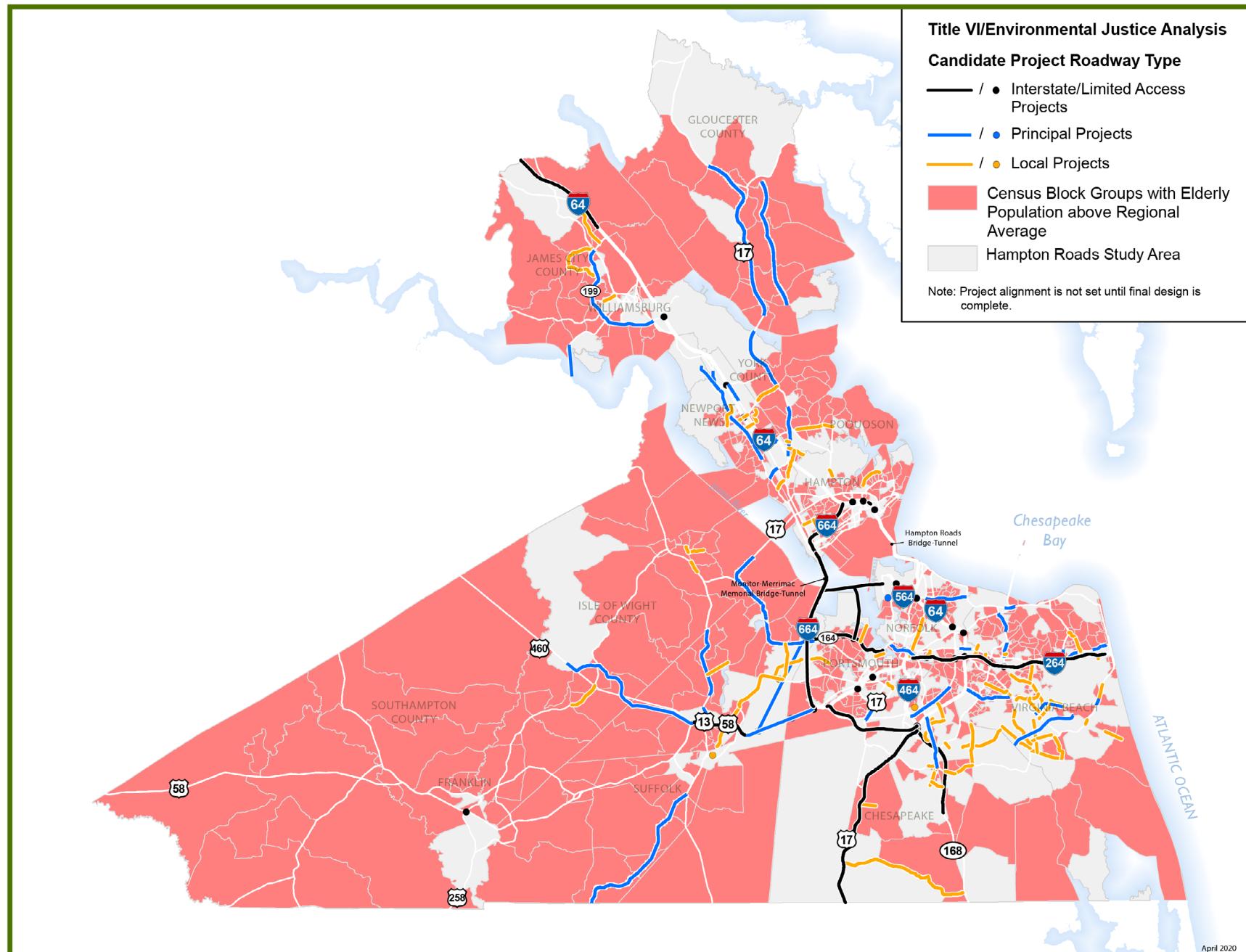
## MAP R-1: ROADWAY CANDIDATE PROJECTS/CARLESS HOUSEHOLDS



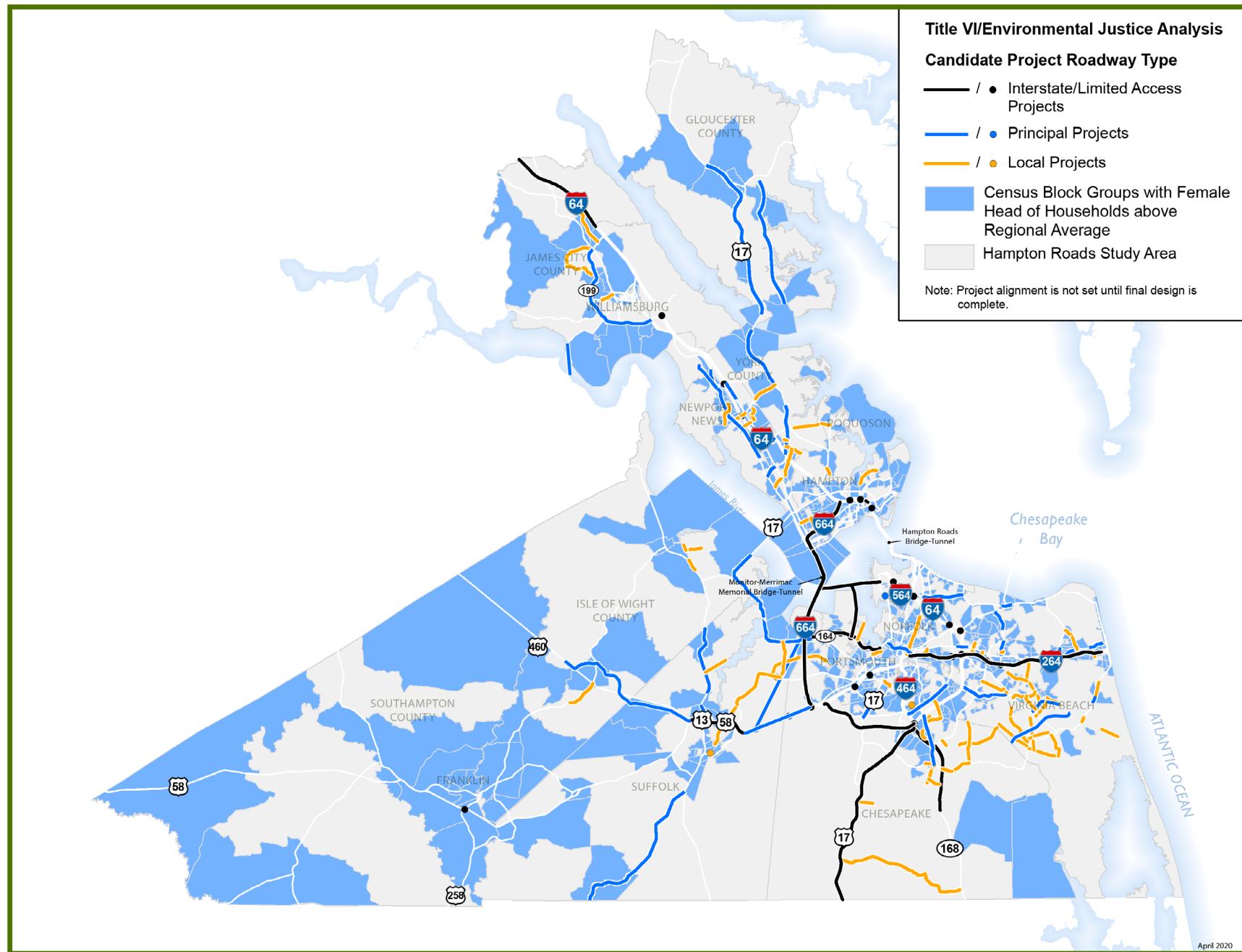
## MAP R-2: ROADWAY CANDIDATE PROJECTS/DISABLED POPULATIONS



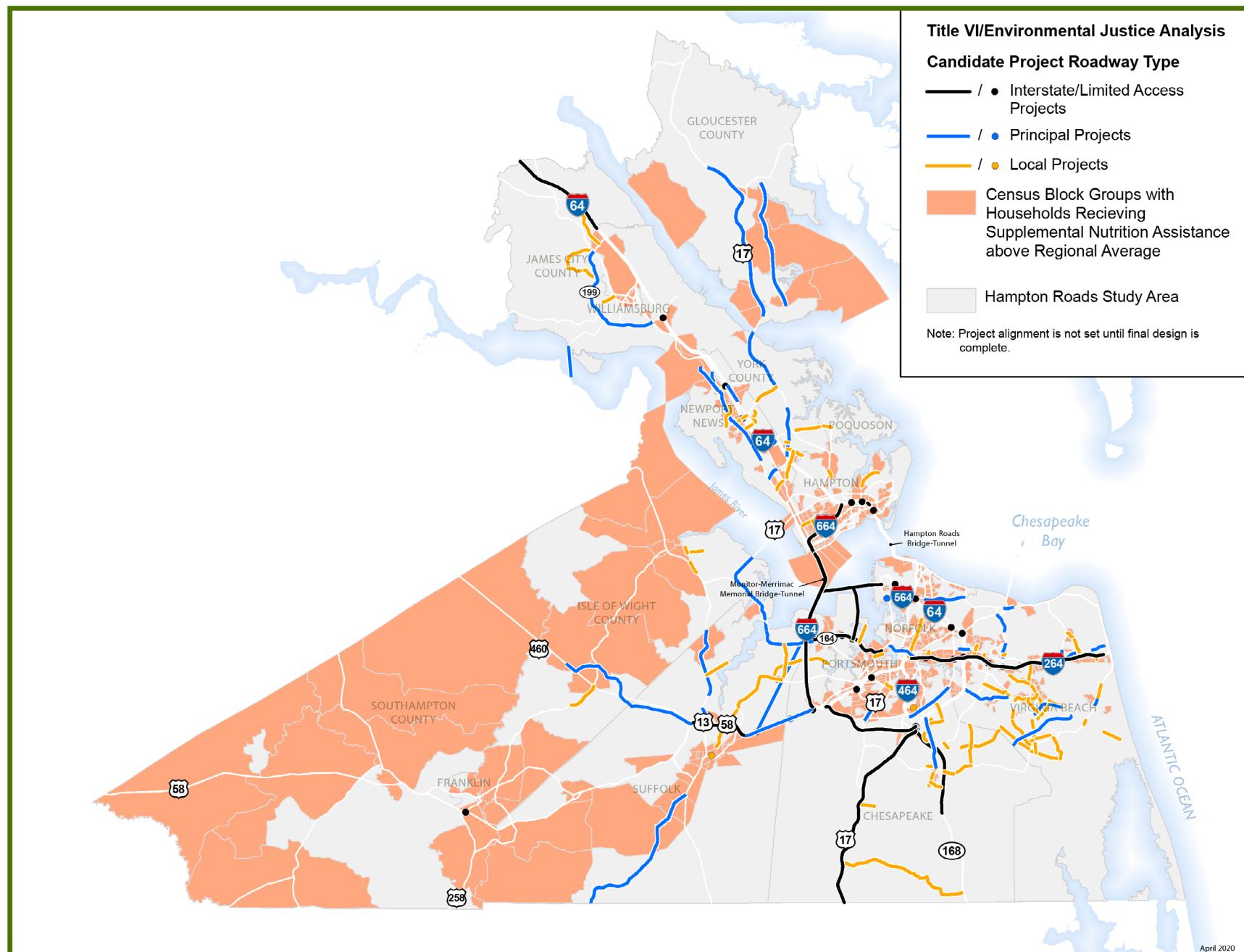
## MAP R-3: ROADWAY CANDIDATE PROJECTS/ELDERLY POPULATIONS



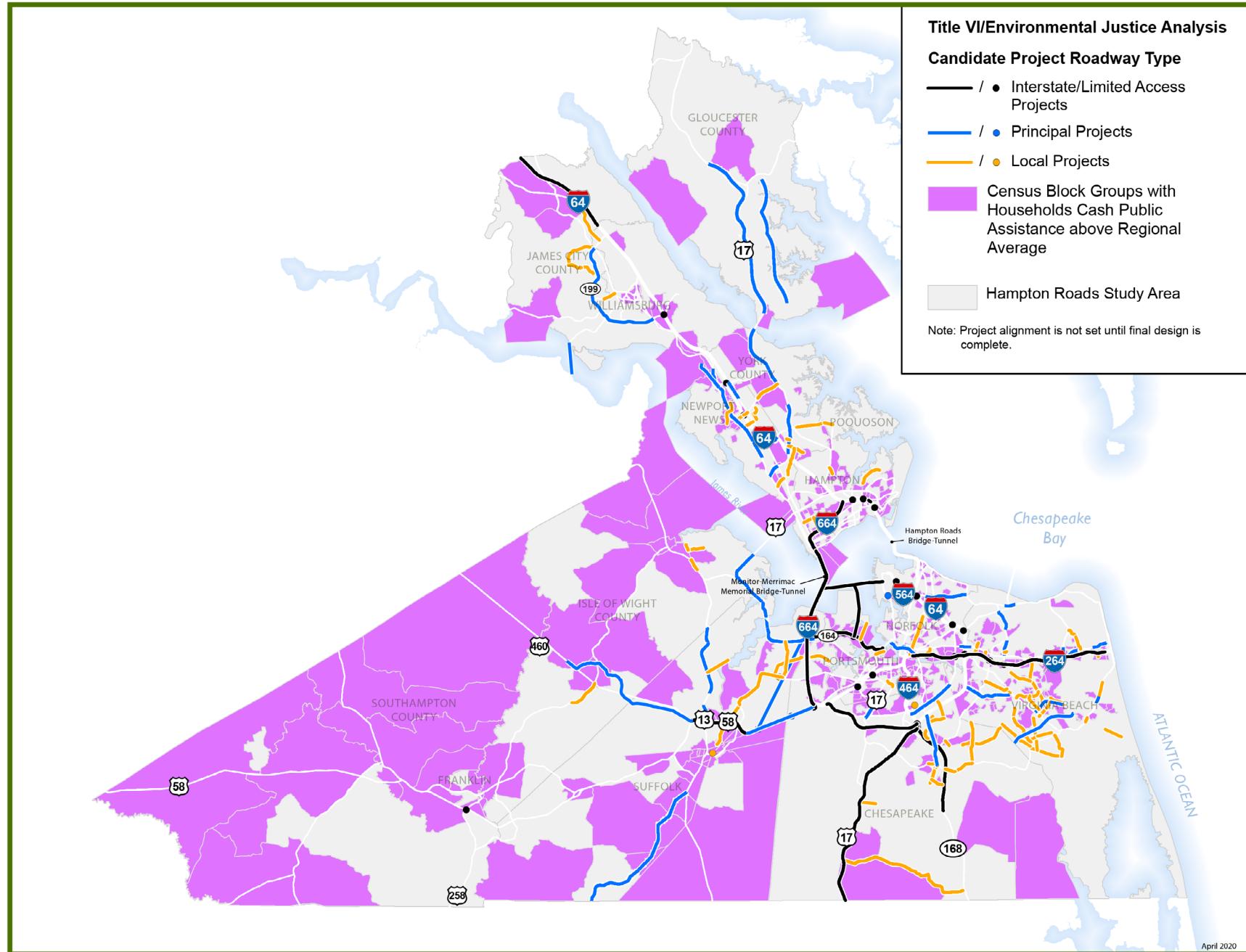
## MAP R-4: ROADWAY CANDIDATE PROJECTS/FEMALE HEAD OF HOUSEHOLDS



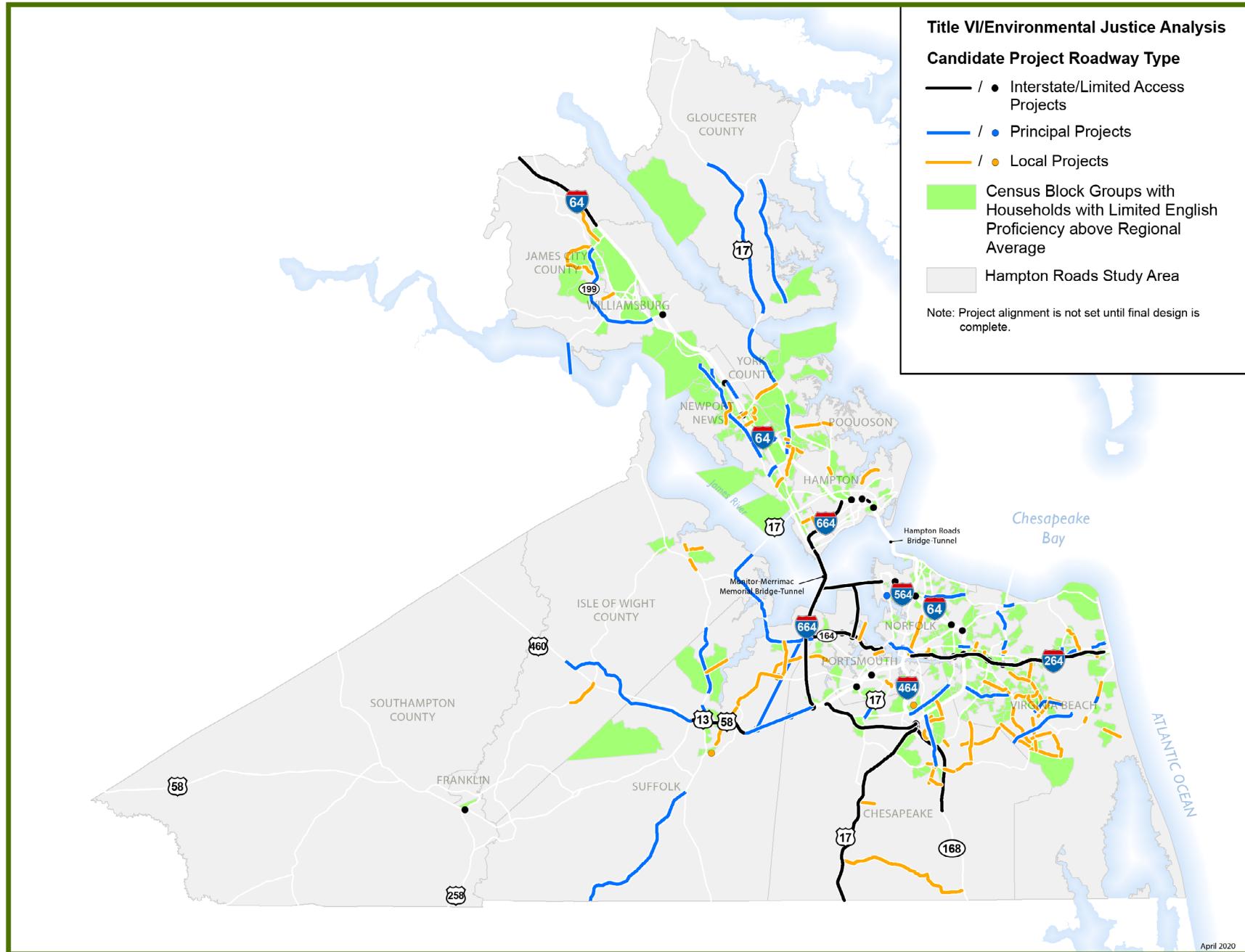
## MAP R-5: ROADWAY CANDIDATE PROJECTS/HOUSEHOLDS RECEIVING FOOD STAMPS



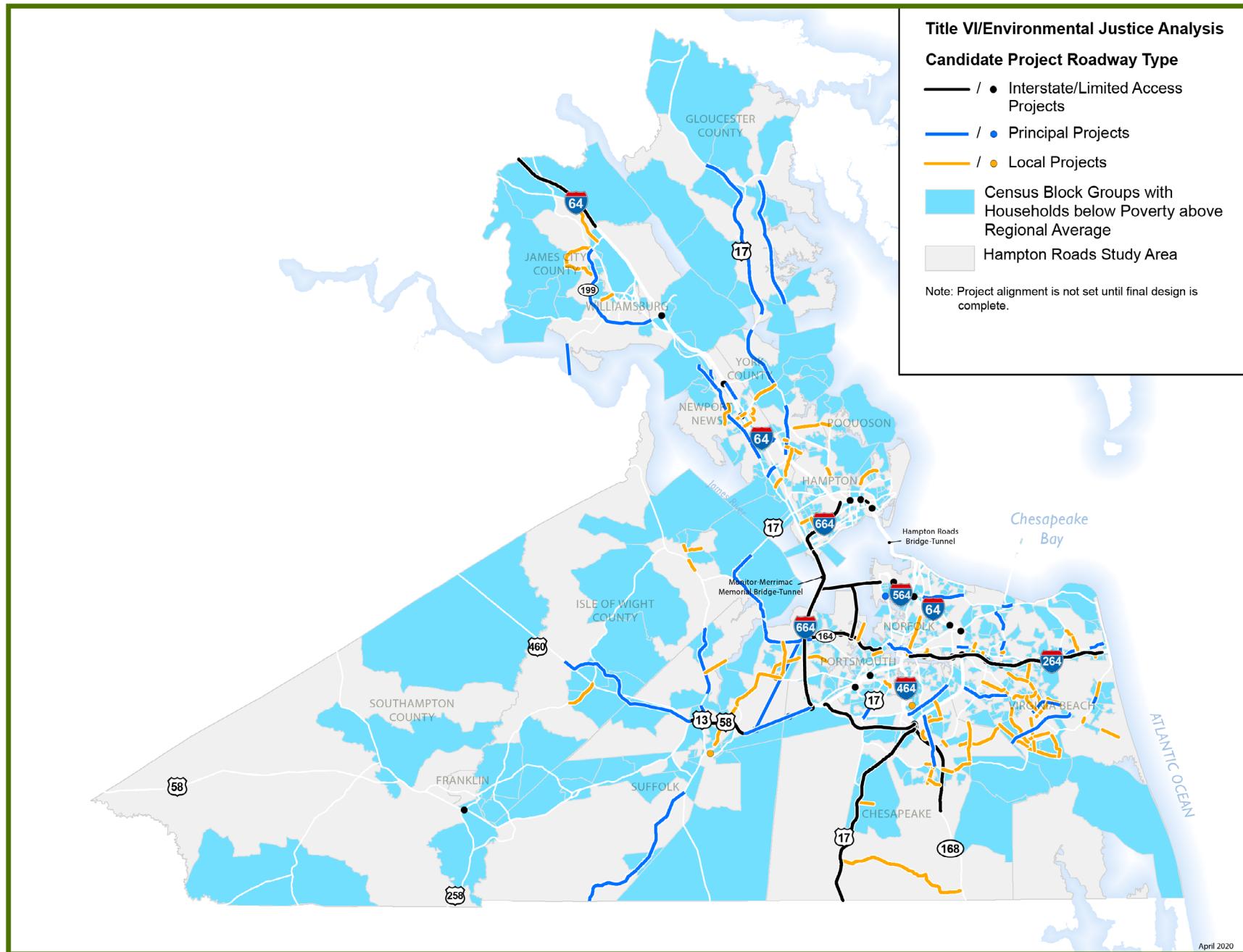
## MAP R-6: ROADWAY CANDIDATE PROJECTS/HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE



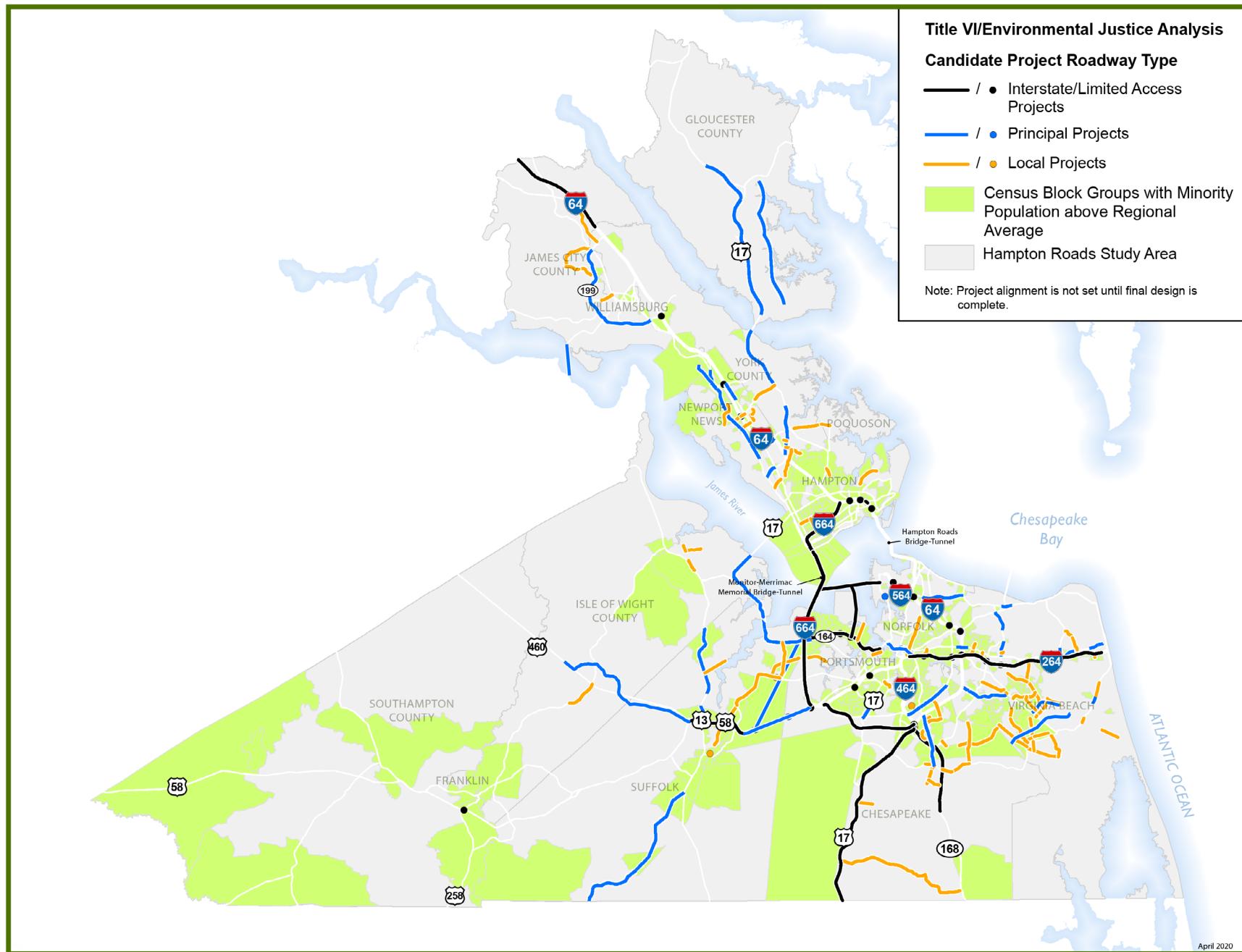
## MAP R-7: ROADWAY CANDIDATE PROJECTS/LIMITED ENGLISH PROFICIENCY POPULATIONS



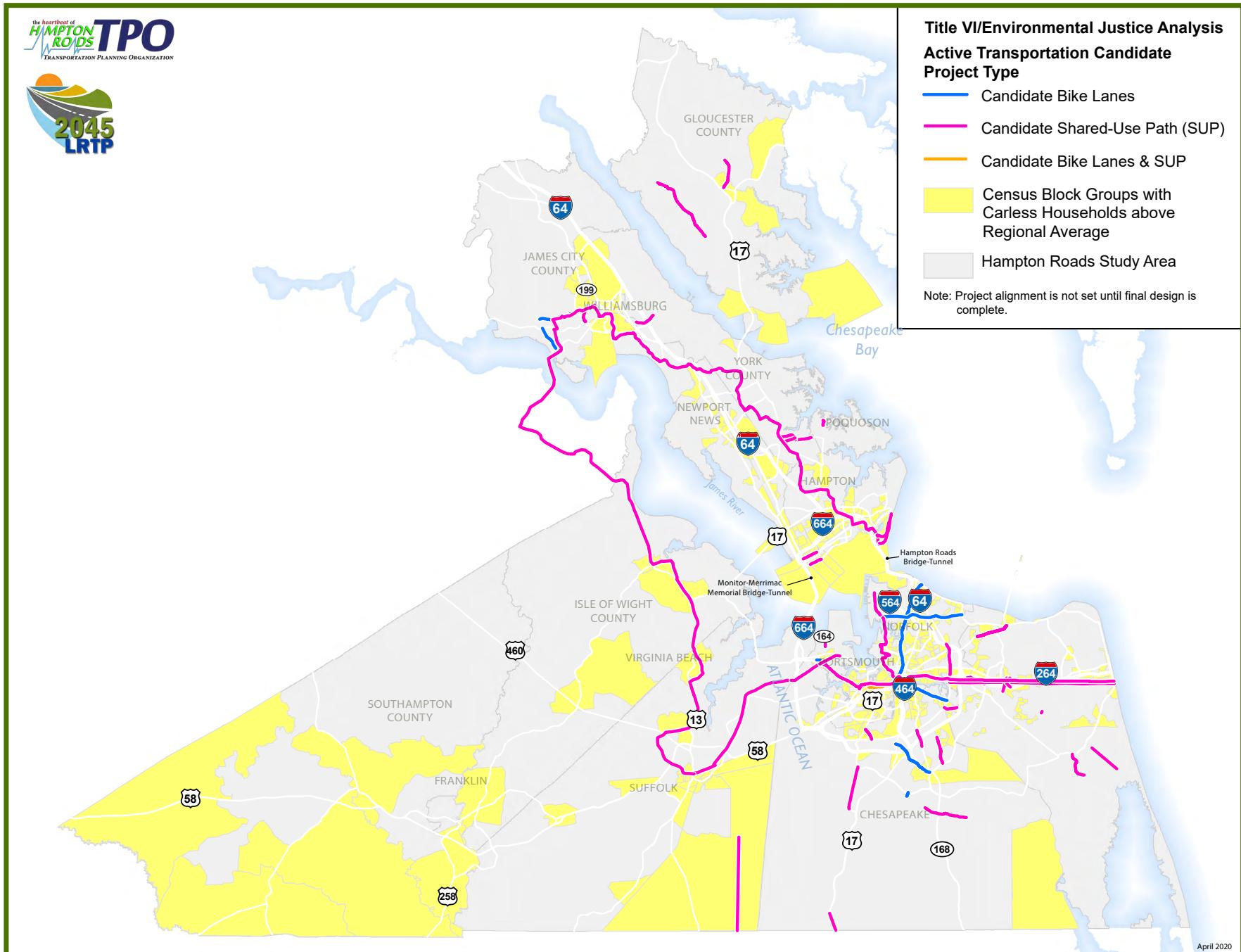
## MAP R-8: ROADWAY CANDIDATE PROJECTS/LOW-INCOME HOUSEHOLDS



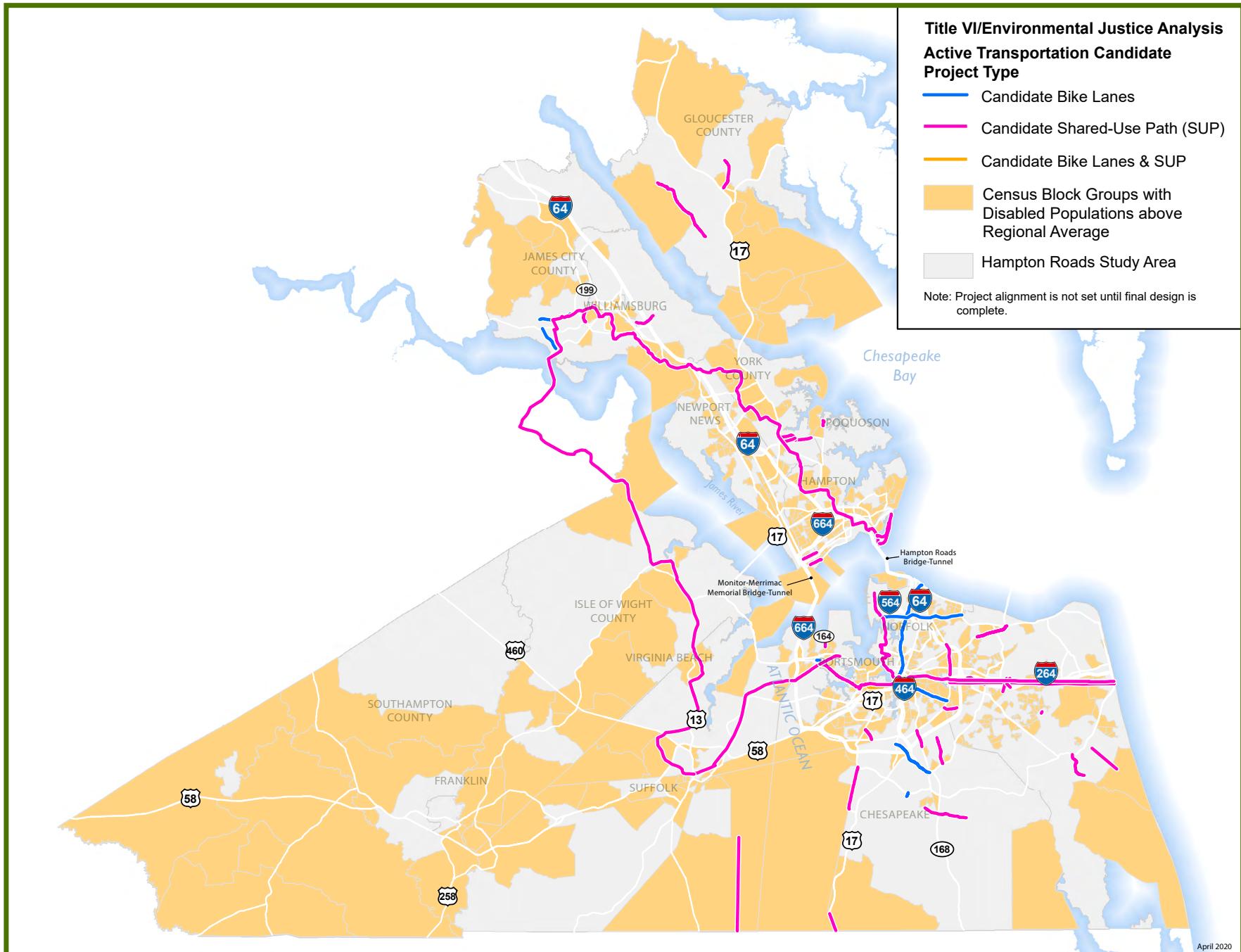
## MAP R-9: ROADWAY CANDIDATE PROJECTS/MINORITY POPULATIONS



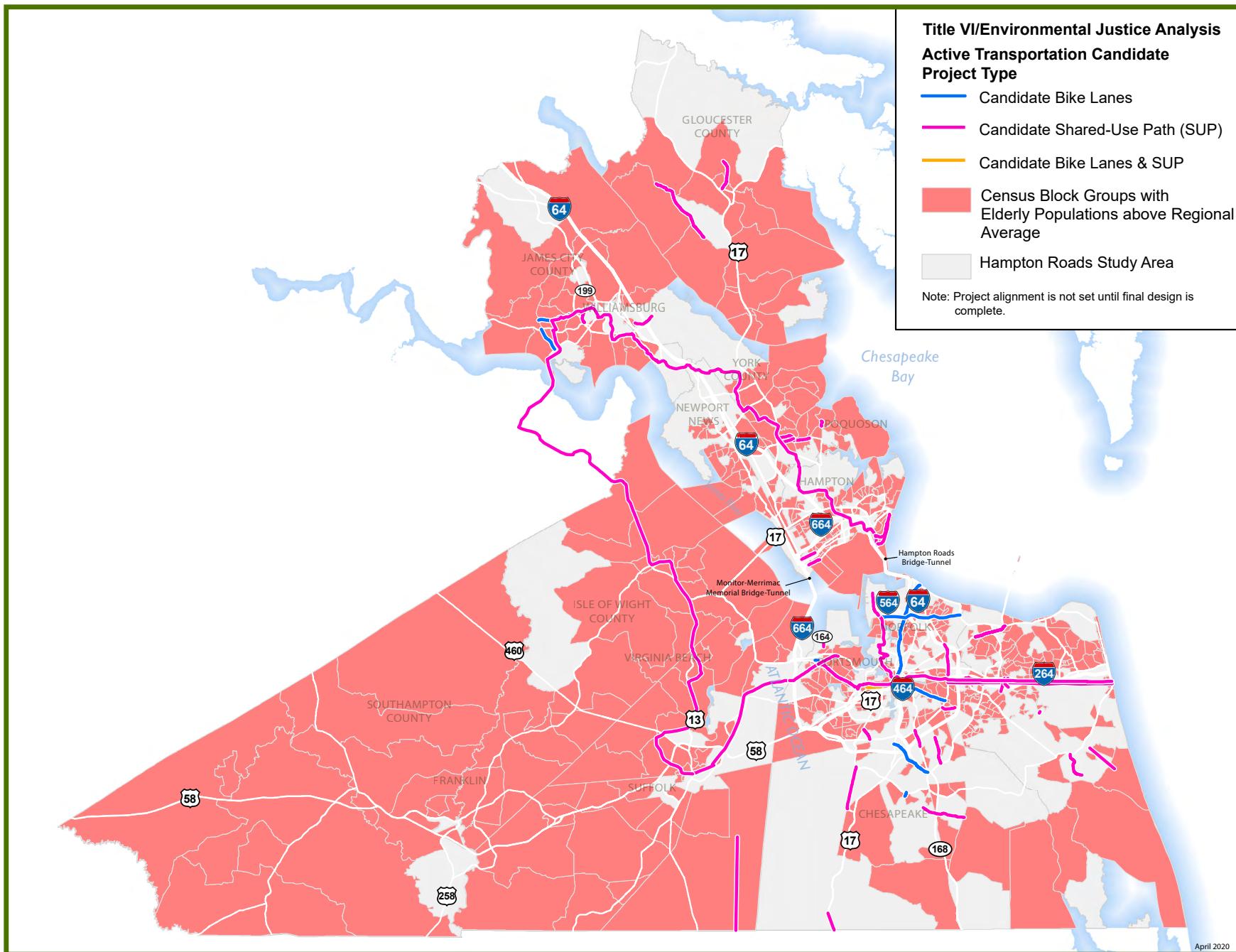
## MAP A-1: ACTIVE TRANSPORTATION CANDIDATE PROJECTS/CARLESS HOUSEHOLDS



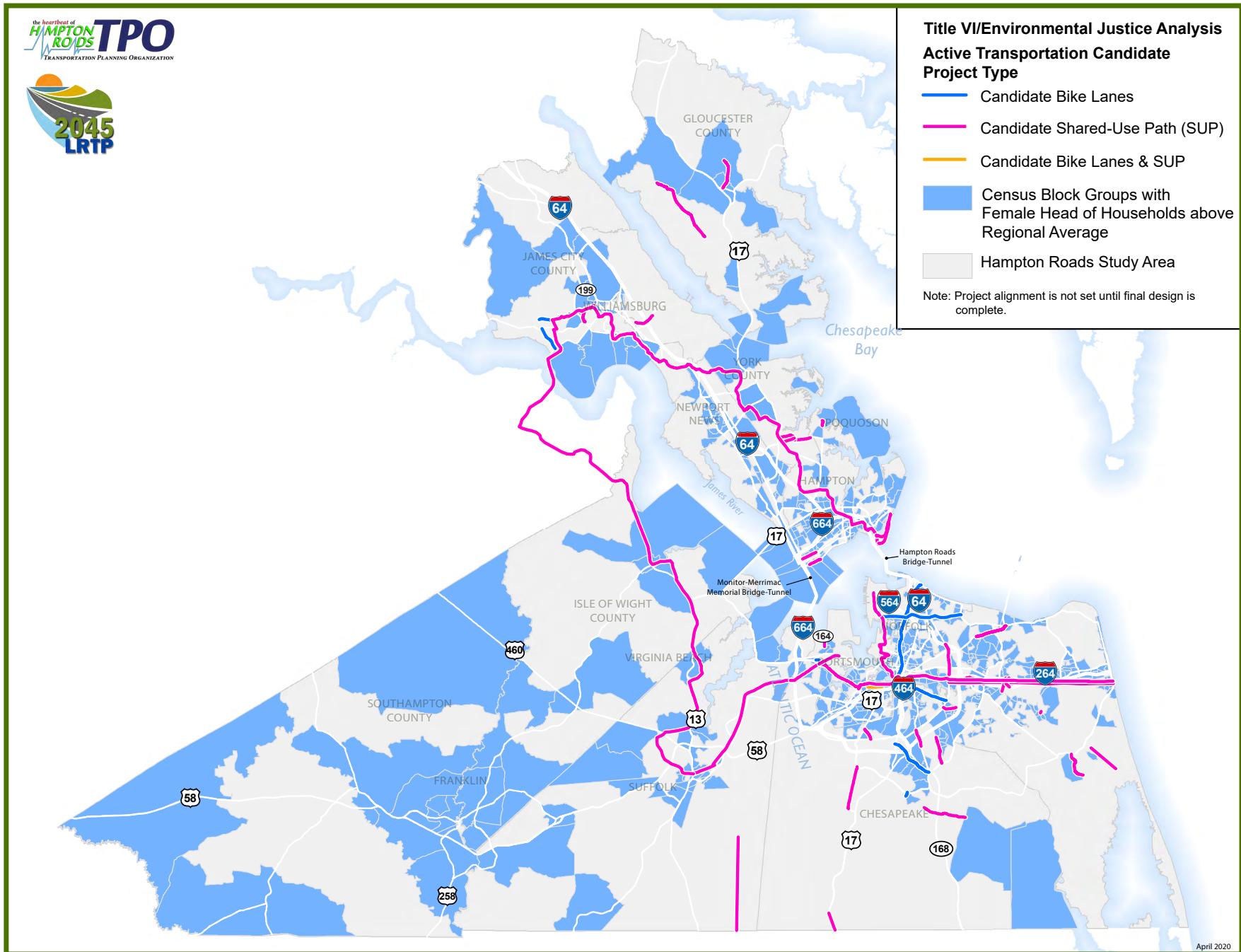
## MAP A-2: ACTIVE TRANSPORTATION CANDIDATE PROJECTS/DISABLED POPULATIONS



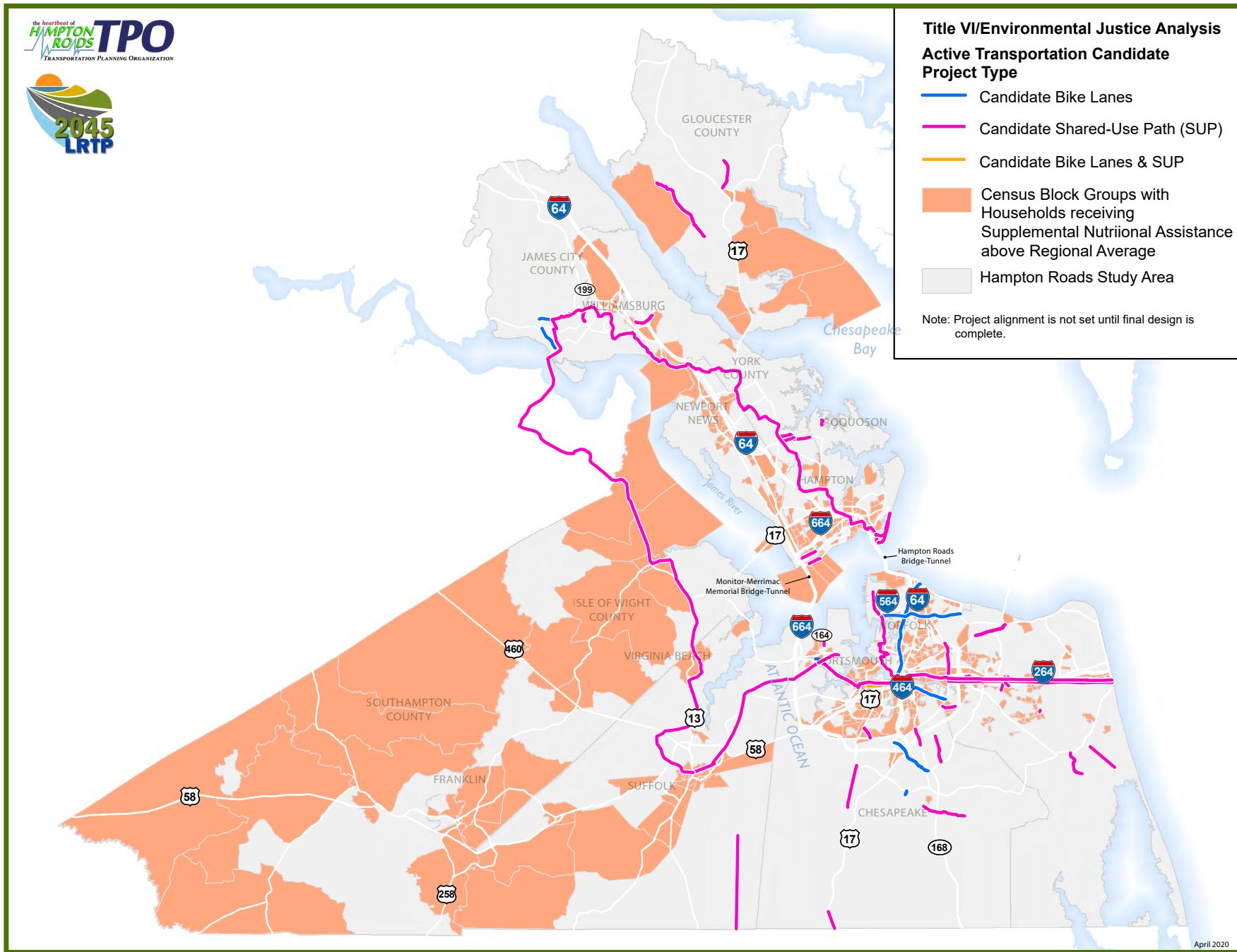
## MAP A-3: ACTIVE TRANSPORTATION CANDIDATE PROJECTS/ELDERLY POPULATIONS



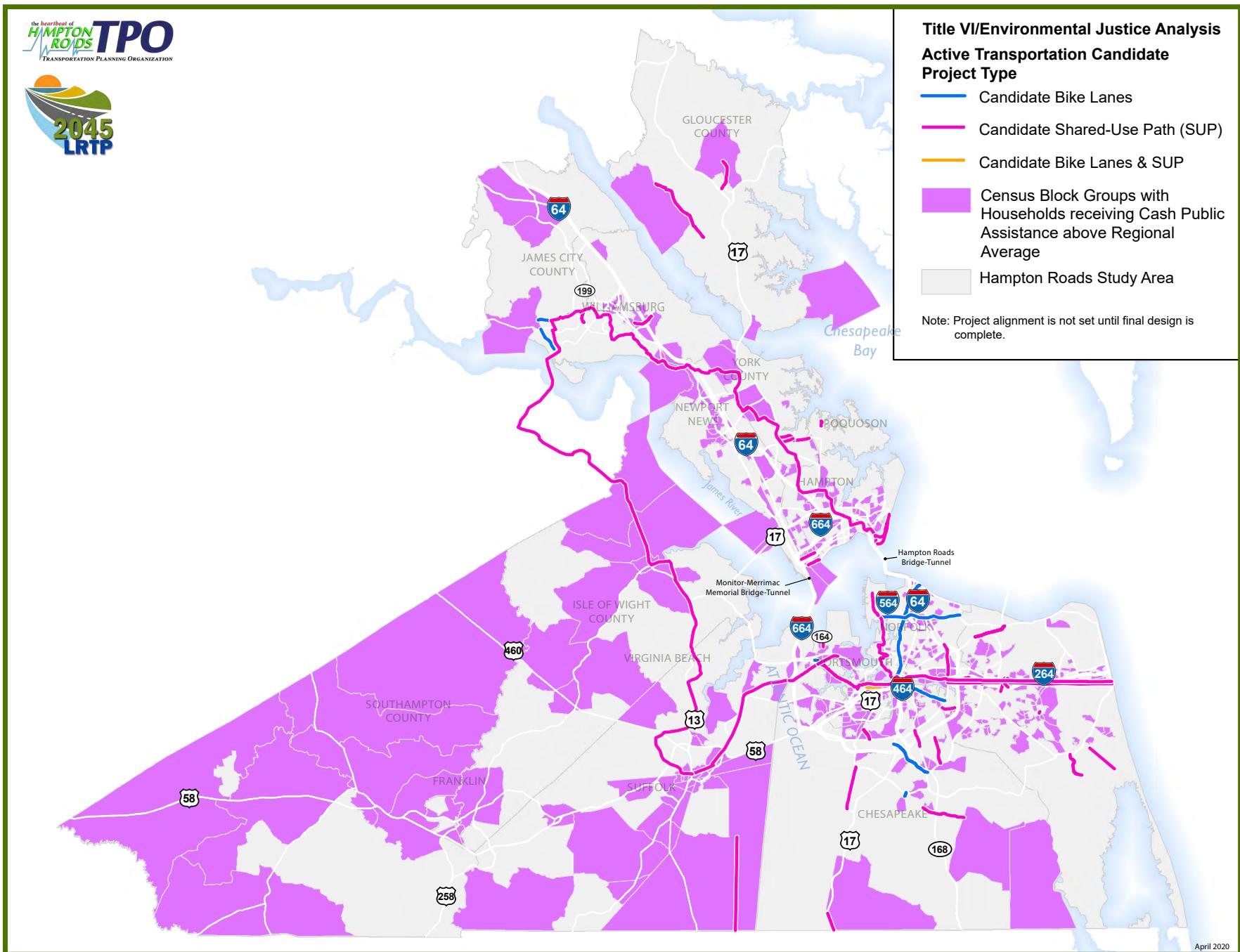
## MAP A-4: ACTIVE TRANSPORTATION CANDIDATE PROJECTS/FEMALE HEAD OF HOUSEHOLDS



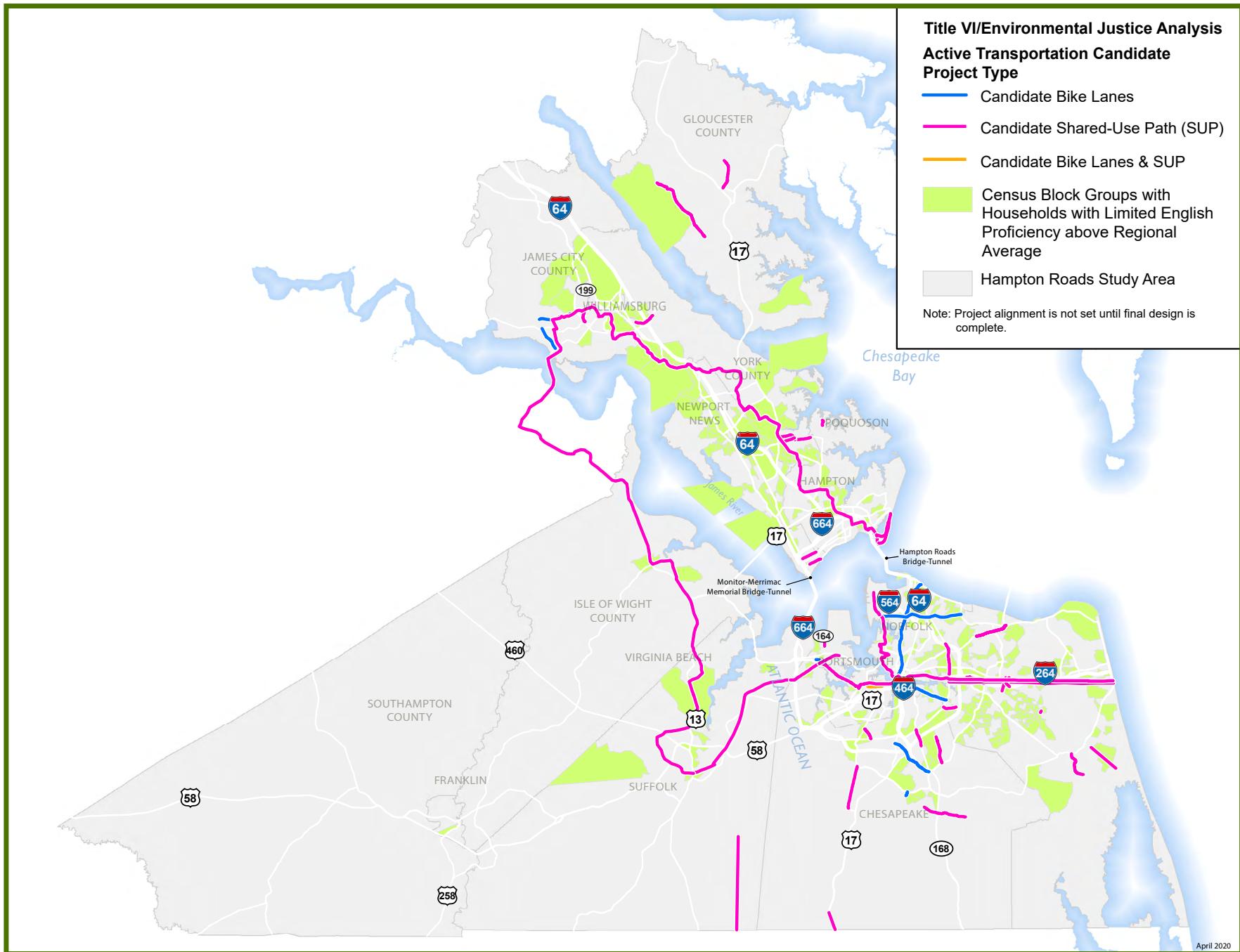
## MAP A-5: ACTIVE TRANSPORTATION CANDIDATE PROJECTS/HOUSEHOLDS RECEIVING FOOD STAMPS



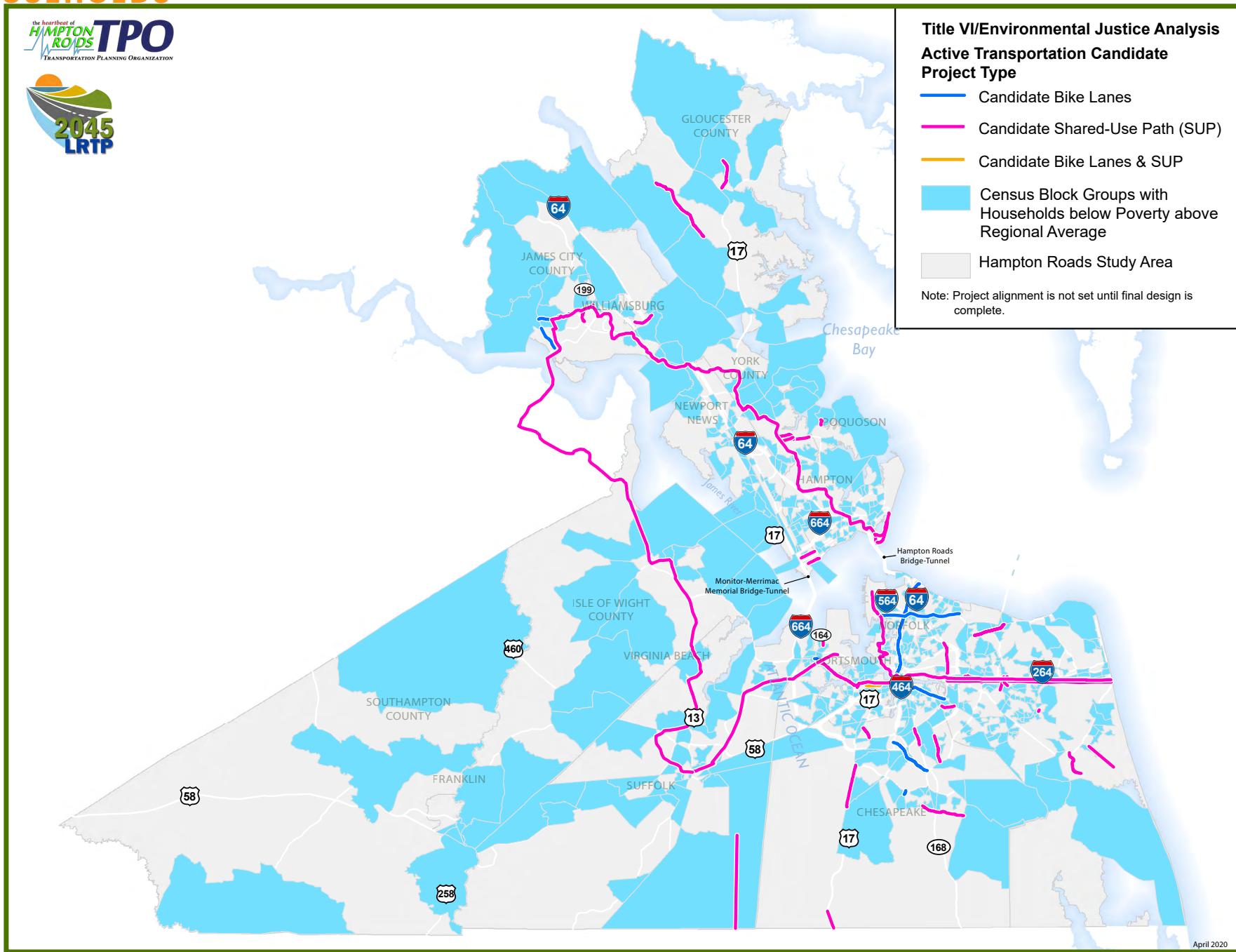
## MAP A-6: ACTIVE TRANSPORTATION CANDIDATE PROJECTS/HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE



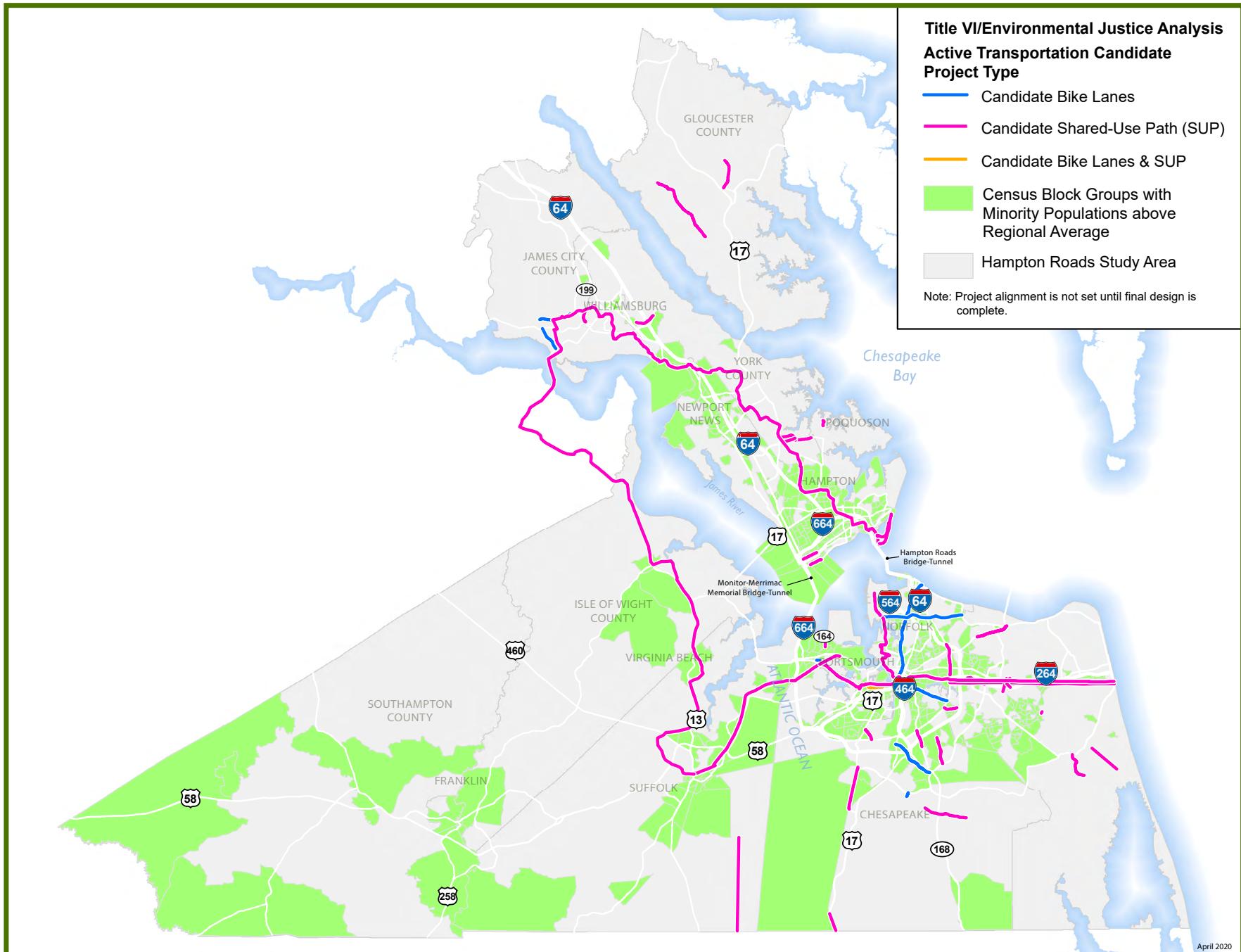
## MAP A-7: ACTIVE TRANSPORTATION CANDIDATE PROJECTS/LIMITED ENGLISH PROFICIENCY POPULATIONS



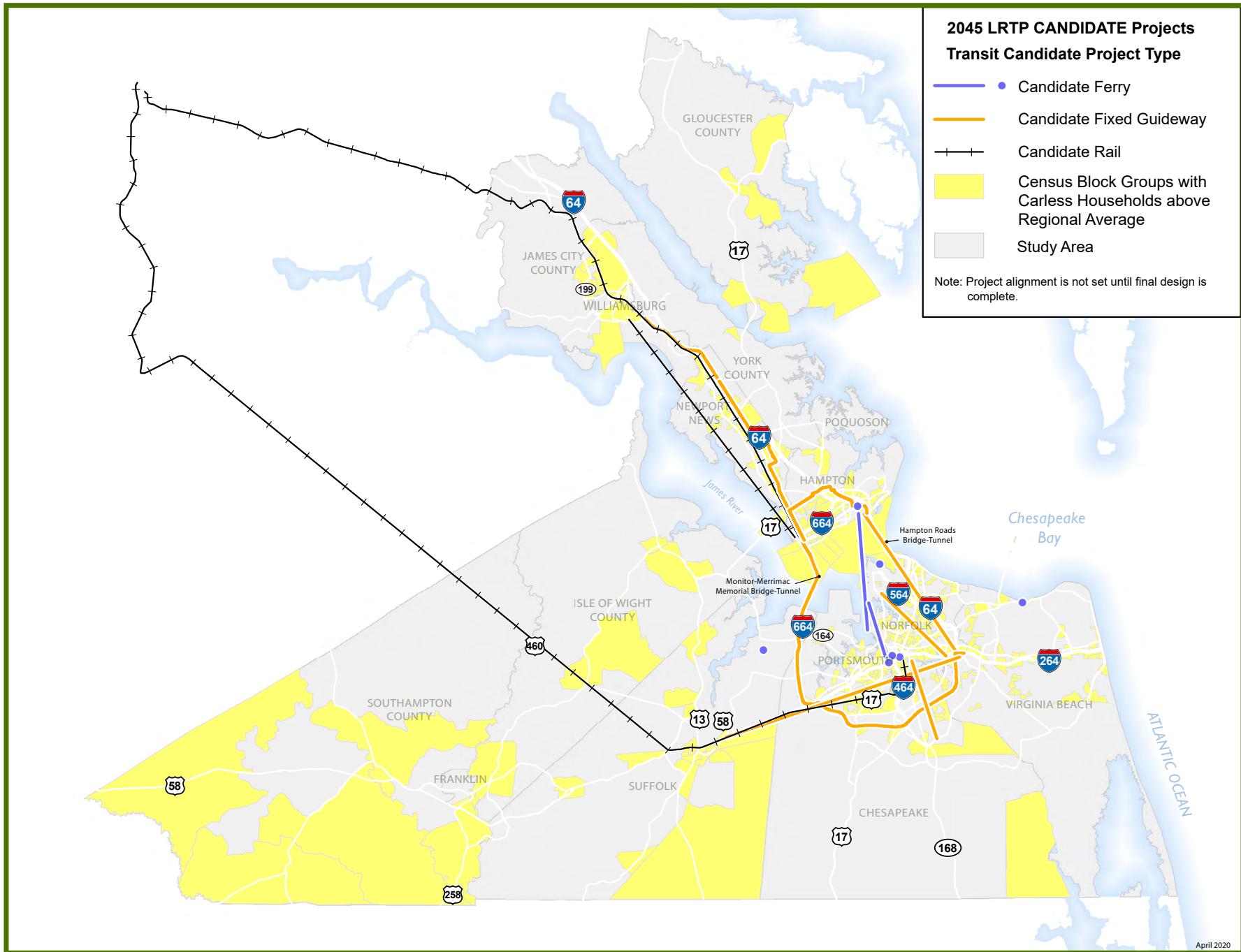
## MAP A-8: ACTIVE TRANSPORTATION CANDIDATE PROJECTS/LOW-INCOME HOUSEHOLDS



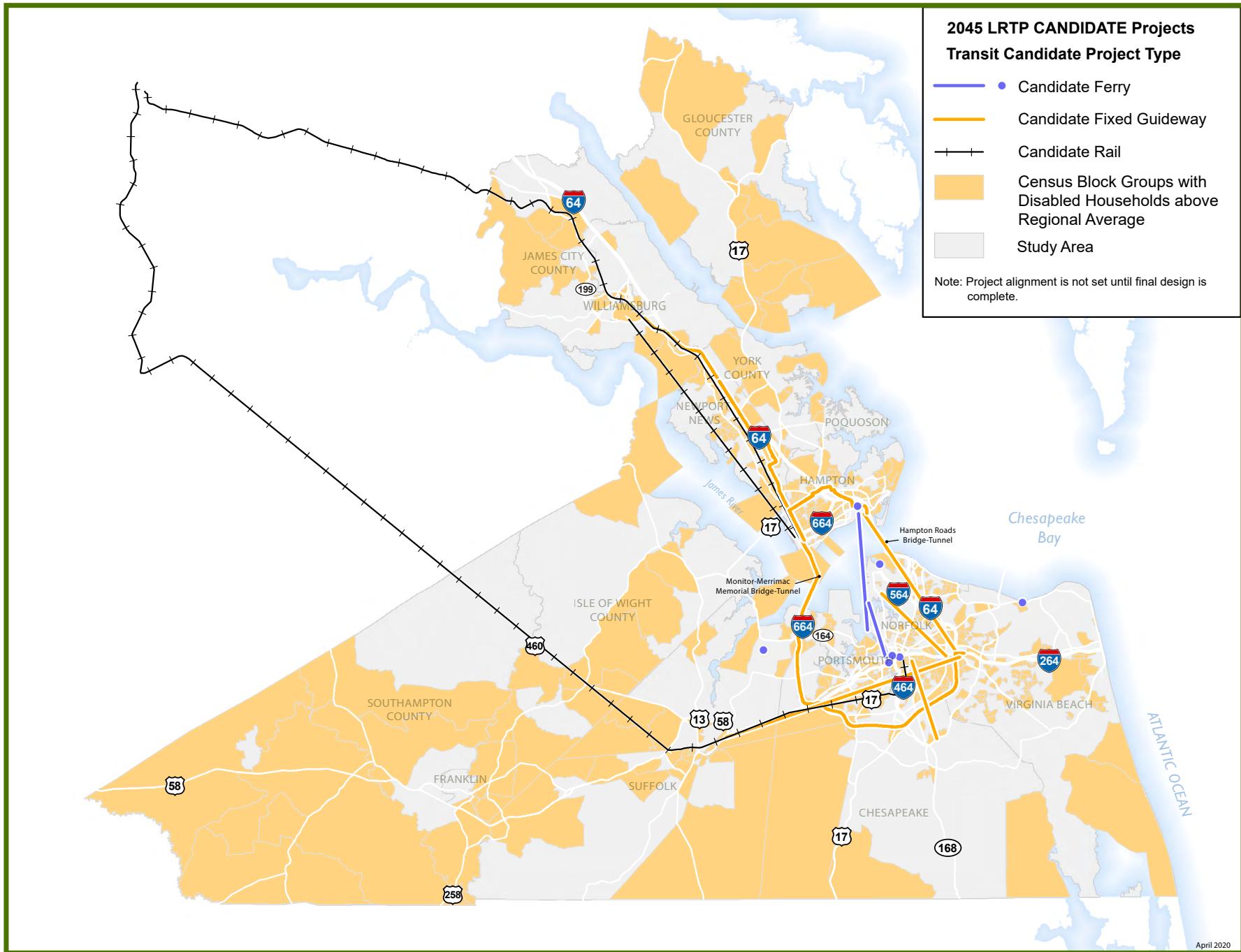
## MAP A-9: ACTIVE TRANSPORTATION CANDIDATE PROJECTS/MINORITY POPULATIONS



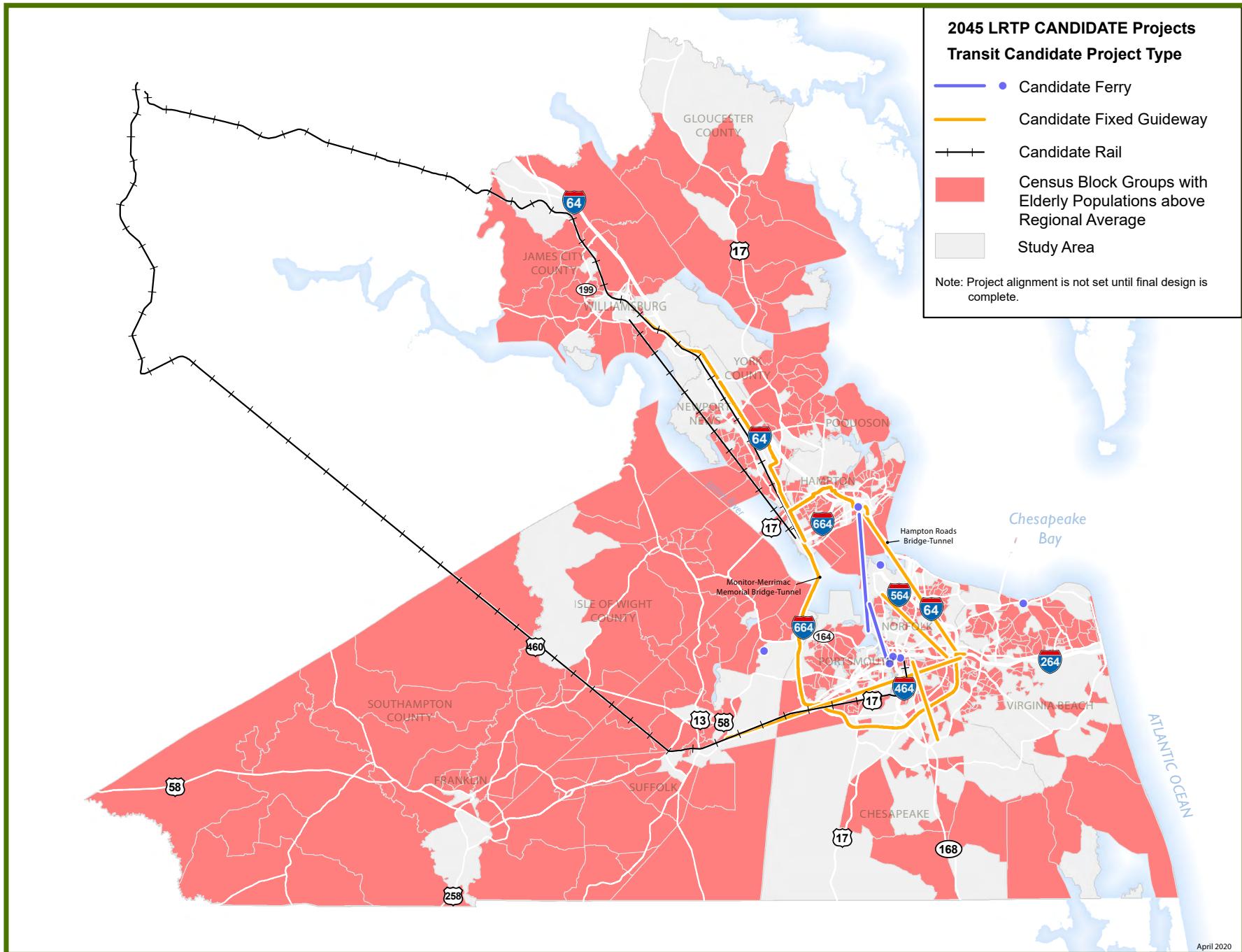
## MAP T-1: TRANSIT CANDIDATE PROJECTS/CARLESS HOUSEHOLDS



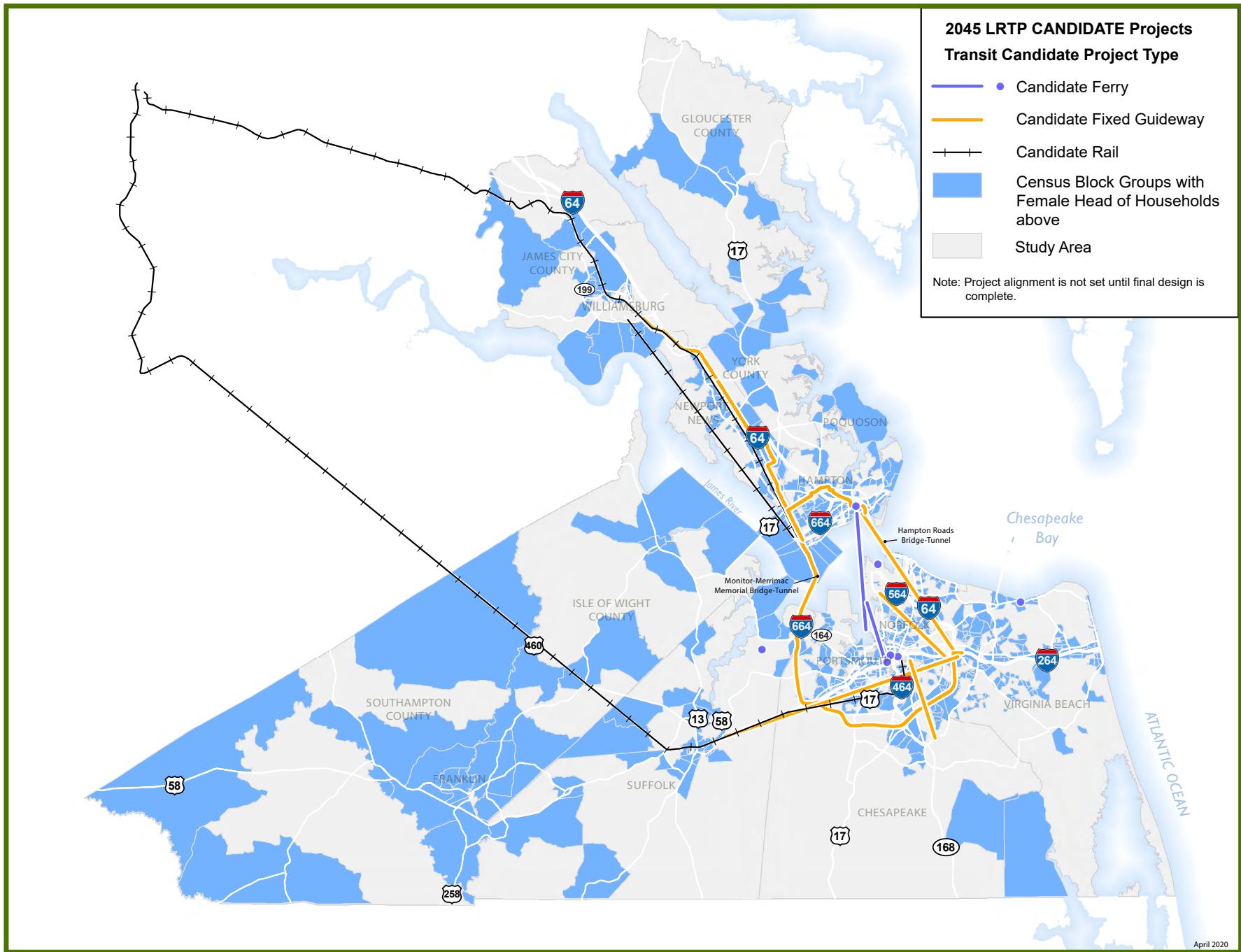
## MAP T-2: TRANSIT CANDIDATE PROJECTS/DISABLED POPULATIONS



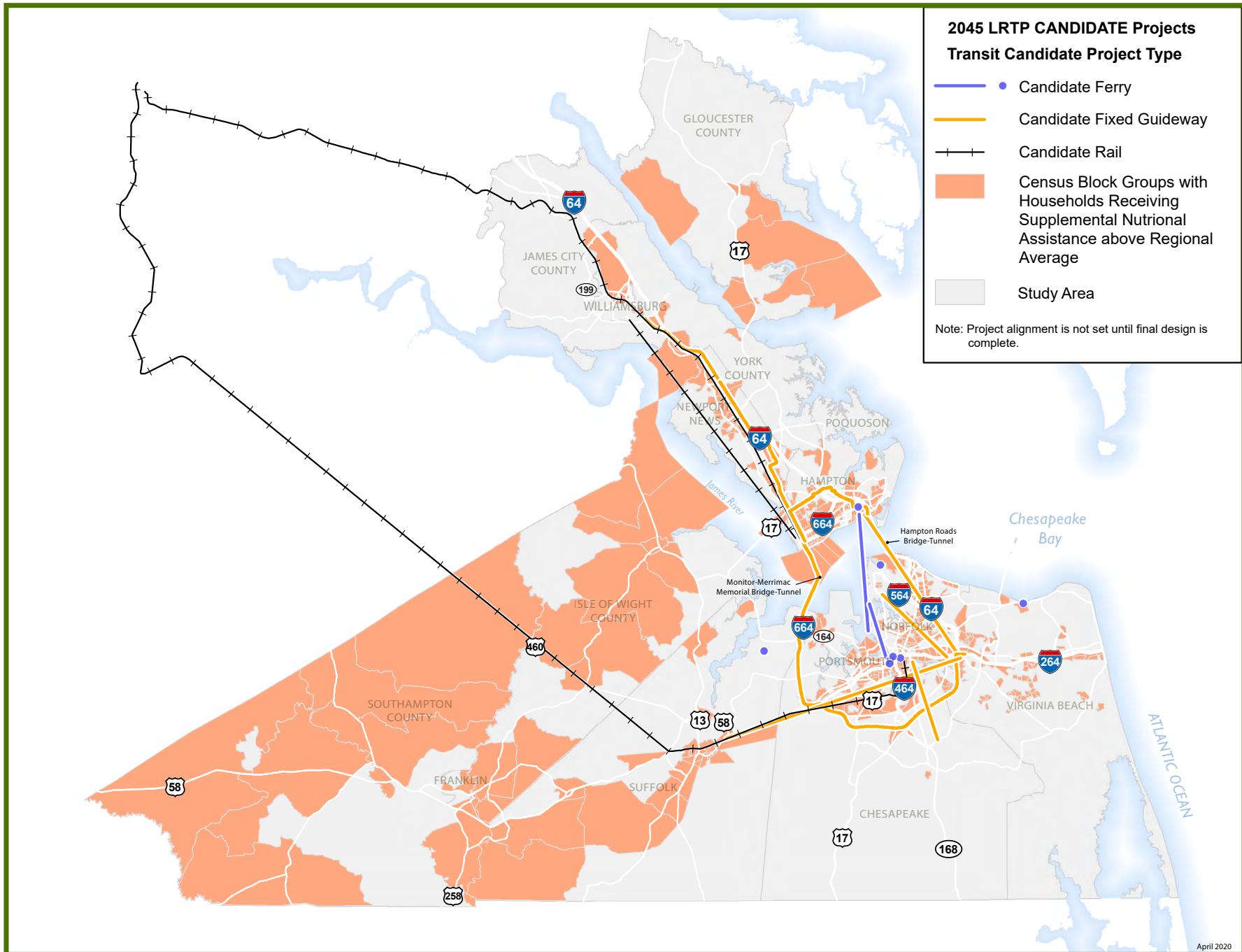
## MAP T-3: TRANSIT CANDIDATE PROJECTS/ELDERLY POPULATIONS



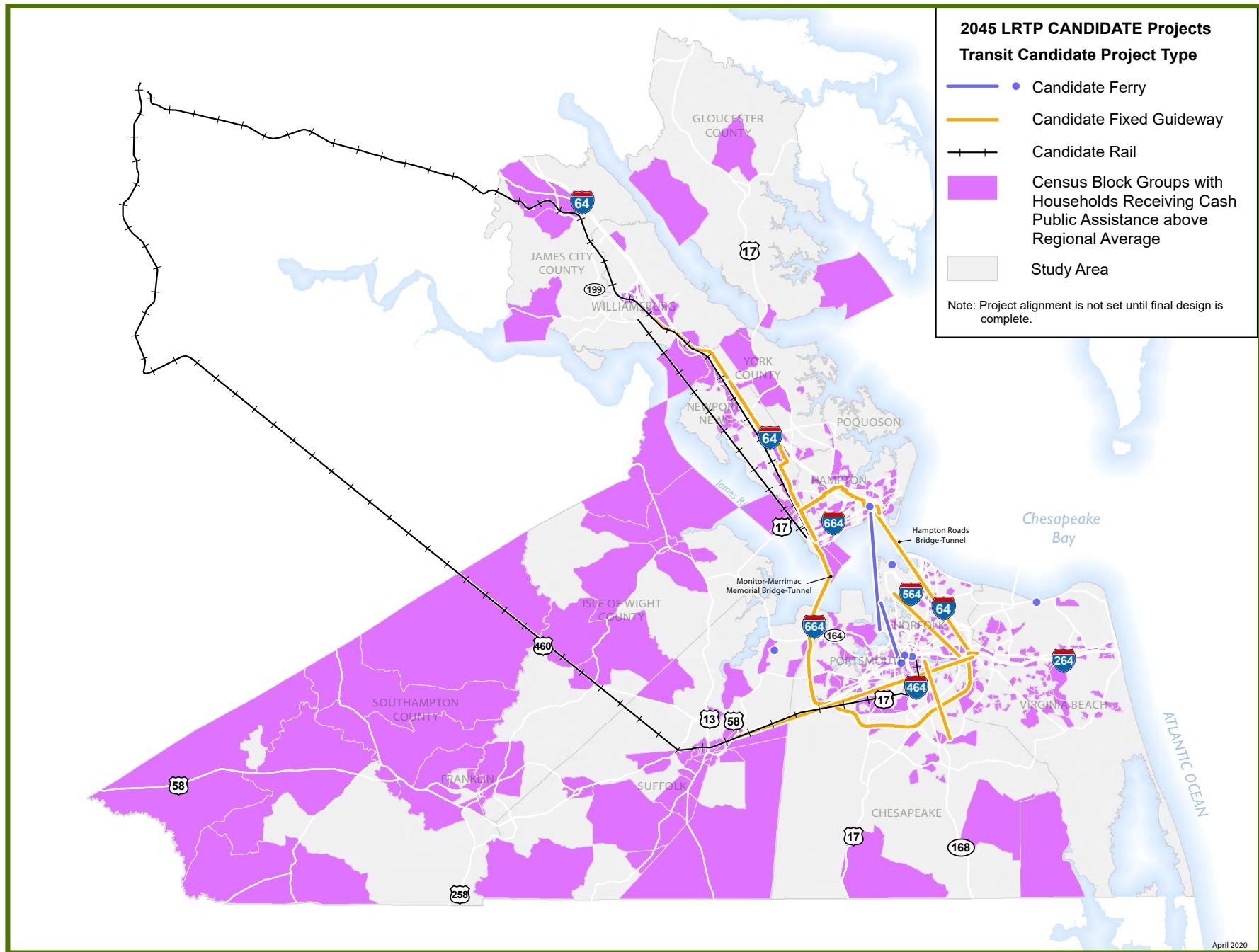
## MAP T-4: TRANSIT CANDIDATE PROJECTS/FEMALE HEAD OF HOUSEHOLDS



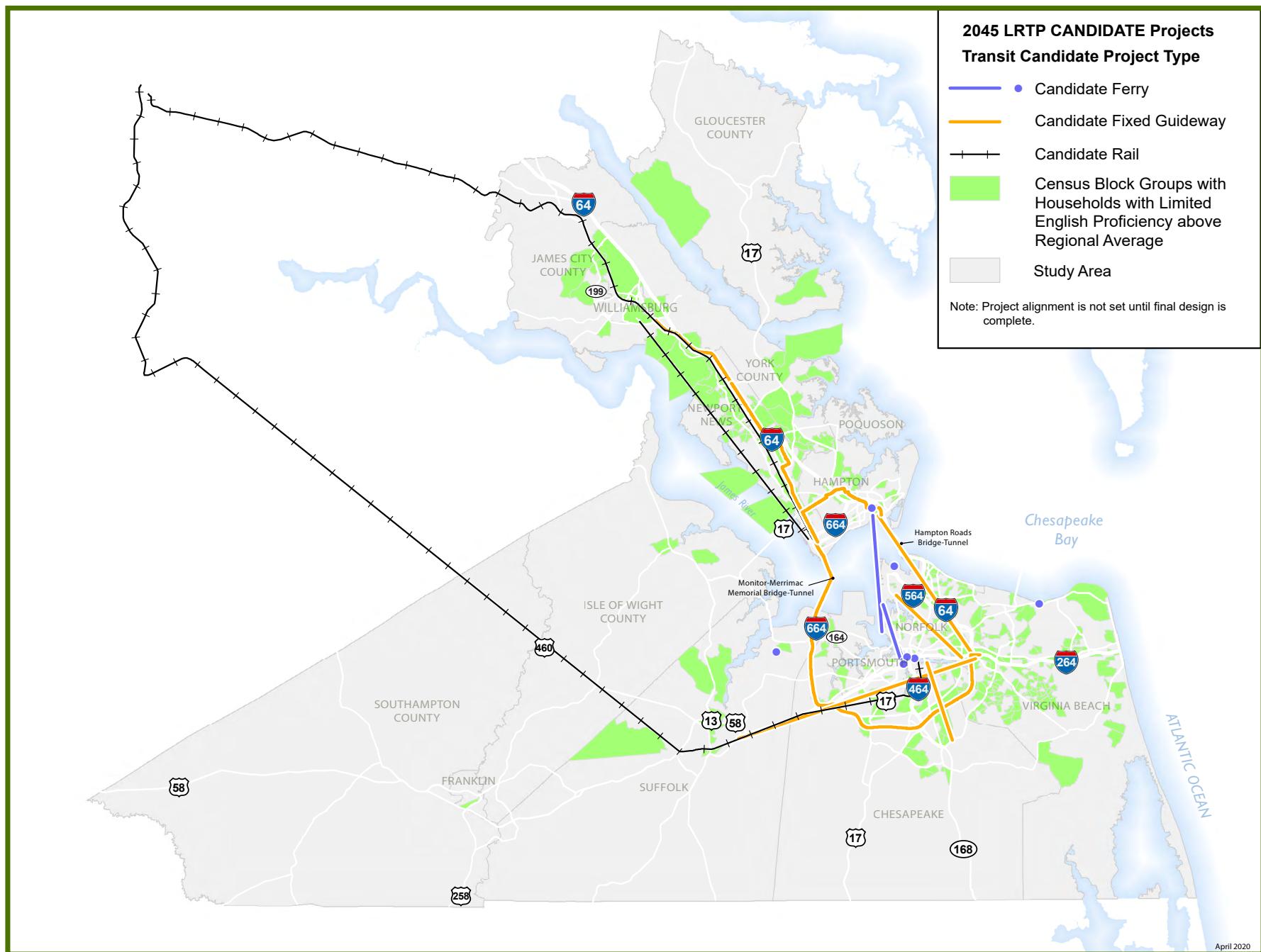
## MAP T-5: TRANSIT CANDIDATE PROJECTS/HOUSEHOLDS RECEIVING FOOD STAMPS



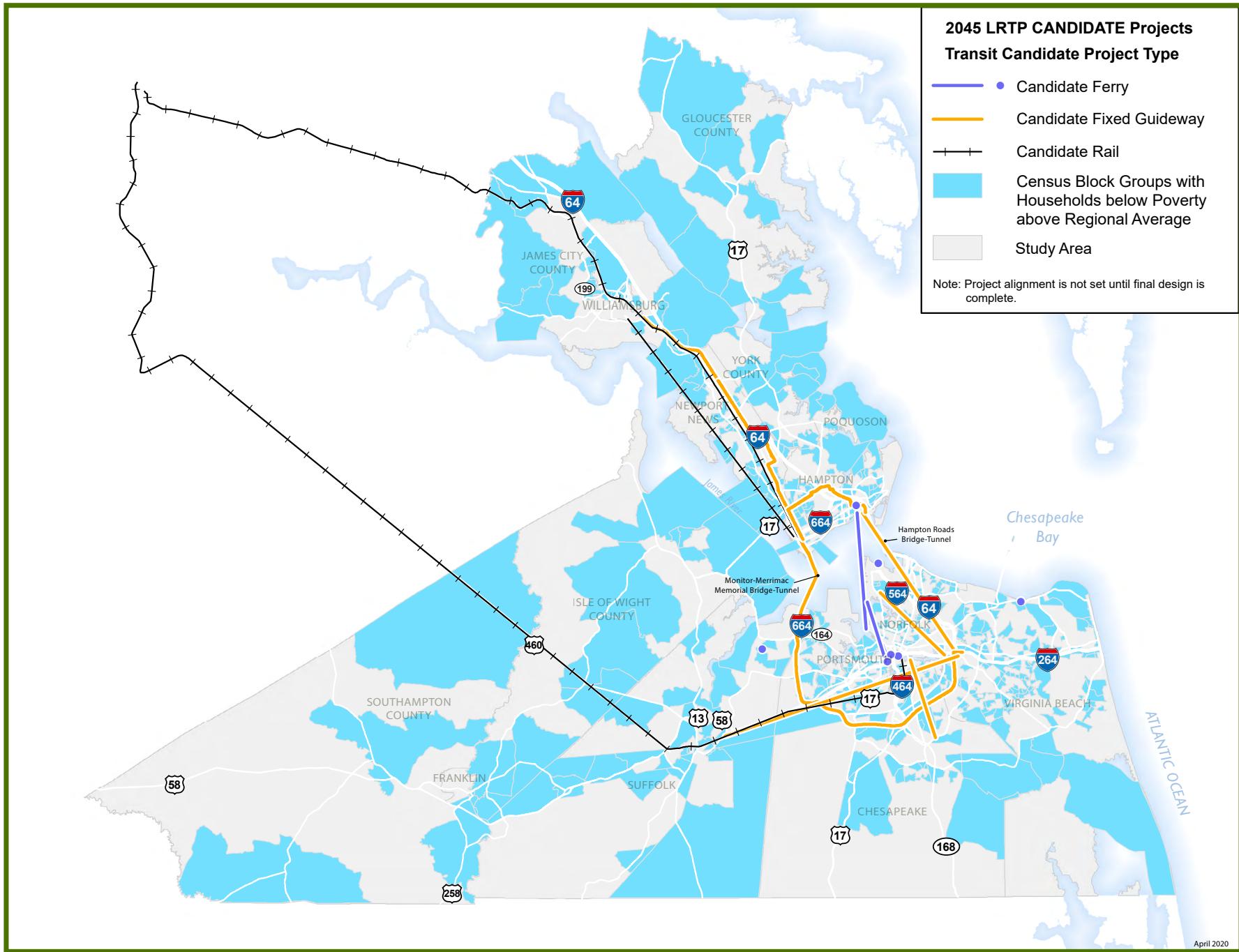
## MAP T-6: TRANSIT CANDIDATE PROJECTS/HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE



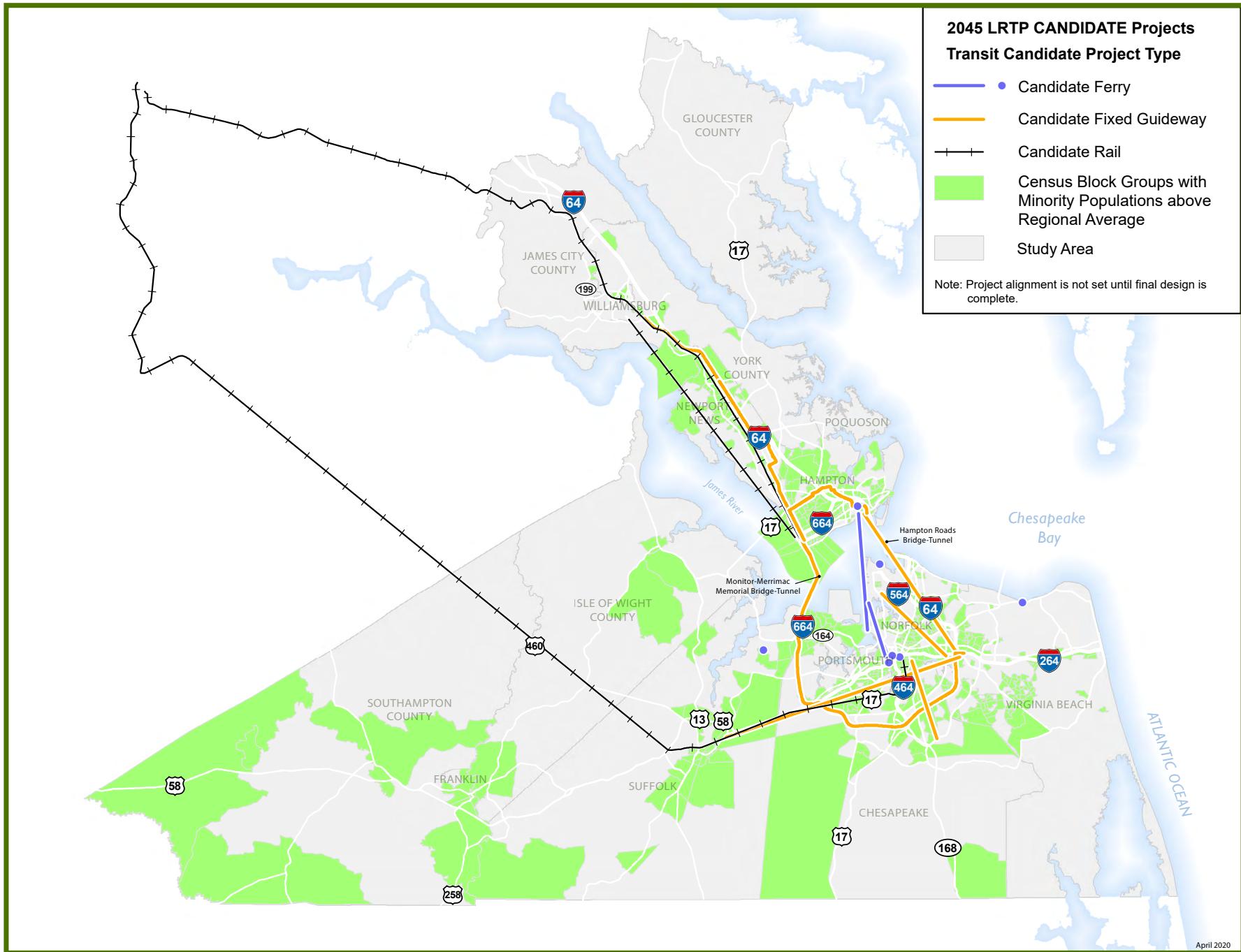
## MAP T-7: TRANSIT CANDIDATE PROJECTS/LIMITED ENGLISH PROFICIENCY POPULATIONS



## MAP T-8: TRANSIT CANDIDATE PROJECTS/LOW-INCOME HOUSEHOLDS



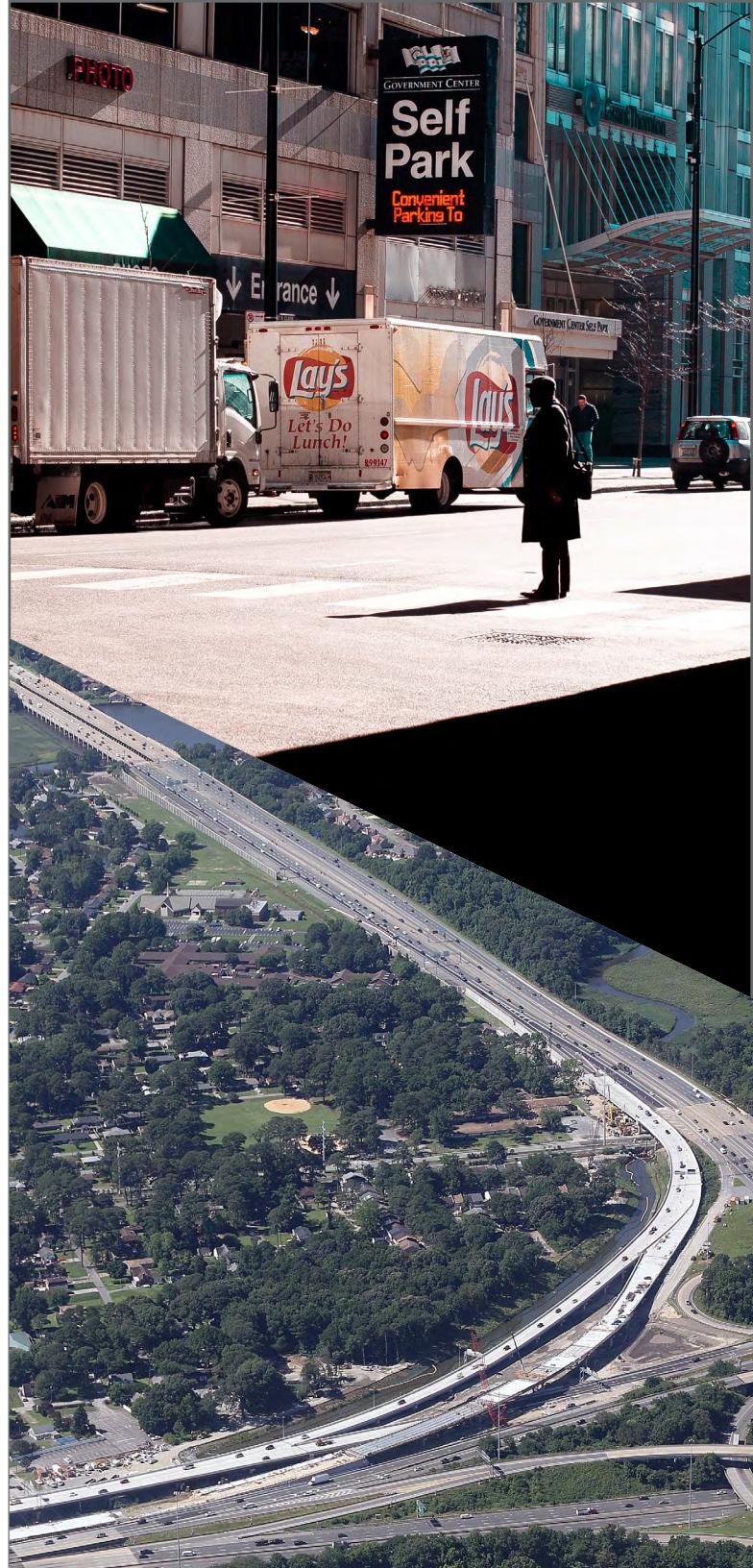
## MAP T-9: TRANSIT CANDIDATE PROJECTS/MINORITY POPULATIONS



April 2020

## APPENDIX B: ENVIRONMENTAL JUSTICE OVERLAY ANALYSIS WITH 2045 LRTP CANDIDATE PROJECTS

Appendix B contains the results of the overlay analysis that was conducted quantifying the number of Census Block Groups that contain FIVE OR MORE Environmental Justice Communities (High Impact Environmental Justice Communities) that intersect a candidate project's buffer. Candidate projects for which over 50% of the total Census Block Groups within the project buffer are identified as High Impact Environmental Justice Communities are noted as projects with a "High Impact" on Environmental Justice Communities ([highlighted in orange](#)).



## APPENDIX B: ENVIRONMENTAL JUSTICE OVERLAY ANALYSIS WITH 2045 LRTP CANDIDATE PROJECTS

| 2045 ID   | 2045 LRTP CANDIDATE PROJECTS                                | LOCALITY             | PROJECT CATEGORY | TOTAL BLOCK GROUPS ASSOCIATED WITH PROJECT | TOTAL BLOCK GROUPS WITH 5 OR MORE ENVIRONMENTAL JUSTICE COMMUNITIES | NUMBER OF BLOCK GROUPS WITH CARLESS HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH DISABLED POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH ELDERLY POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH FEMALE HEAD OF HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH HOUSEHOLD RECEIVING CASH PUBLIC ASSISTANCE ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH HOUSEHOLDS RECEIVED FOOD STAMPS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH LOW-INCOME HOUSEHOLDS ABOVE REGIONAL AVERAGE           | NUMBER OF BLOCK GROUPS WITH MINORITY POPULATIONS ABOVE REGIONAL AVERAGE |     |
|-----------|---|----------------------|------------------|--|---|---|---|--|--|---|--|--|---|-----|
|           |   |                      |                  |  |   |   |   |  |  |   |  | NUMBER OF BLOCK GROUPS WITH HOUSEHOLDS RECEIVED FOOD STAMPS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH MINORITY POPULATIONS ABOVE REGIONAL AVERAGE |     |
| 2045-401  | I-564 Connector and VA-164 Connector                        | Multi-jurisdictional | Bridge/Tunnel    | 44   | 15  | 16  | 18  | 18   | 20   | 13  | 18   | 5  | 17  | 21  |
| 2045-402  | I-664/MMMBT   | Multi-jurisdictional | Bridge/Tunnel    | 130  | 72  | 55  | 69  | 65   | 79   | 54  | 67   | 19   | 64  | 98  |
| 2045-403  | I-664/MMMBT   | Multi-jurisdictional | Bridge/Tunnel    | 54   | 33  | 28  | 30  | 20   | 34   | 25  | 32   | 6  | 26  | 46  |
| 2045-404  | James River Bridge  | Multi-jurisdictional | Bridge/Tunnel    | 5  | 2   | 1   | 2   | 4  | 3  | 1   | 2  | 0  | 1   | 2   |
| 2045-405  | Sidney Bertram Hazelwood Sr. Bridge                         | Multi-jurisdictional | Bridge/Tunnel    | 5  | 0   | 0   | 1   | 4  | 1  | 0   | 1  | 0  | 2   | 0   |
| 2045-406  | I-64 Southside Widening Including High Rise Bridge Phase II | Multi-jurisdictional | Bridge/Tunnel    | 55   | 25  | 16  | 26  | 28   | 26   | 22  | 20   | 16   | 26  | 30  |
| 2045-407  | I-64 Bridge over Hampton River - EB Only                    | Hampton              | Bridge/Tunnel    | 48   | 26  | 23  | 23  | 26   | 31   | 18  | 27   | 7  | 24  | 35  |
| 2045-408  | Kings Hwy Bridge  | Suffolk              | Bridge/Tunnel    | 5  | 1   | 1   | 2   | 4  | 1  | 1   | 1  | 1  | 3   | 1   |
| 2045-409  | Mills Godwin Bridge   | Suffolk              | Bridge/Tunnel    | 7  | 0   | 0   | 2   | 6  | 2  | 1   | 1  | 0  | 2   | 0   |
| 2045-101  | Denbigh Blvd (Rte 173)                                      | Multi-jurisdictional | Highway          | 13   | 3   | 2   | 5   | 7  | 4  | 3   | 0  | 7  | 8   | 4   |
| 2045-102  | Denbigh Blvd (Rte 173)                                      | Multi-jurisdictional | Highway          | 11   | 3   | 2   | 5   | 5  | 4  | 3   | 0  | 6  | 6   | 4   |
| 2045-103  | Godwin Blvd - Phase 2                                       | Multi-jurisdictional | Highway          | 4  | 1   | 1   | 1   | 4  | 1  | 0   | 1  | 1  | 1   | 1   |
| 2045-104  | I-264 Widening  | Multi-jurisdictional | Highway          | 261  | 110   | 106   | 115   | 116  | 149  | 94  | 109  | 85   | 109   | 117 |
| 2045-108  | I-64 Express Lanes Network                                  | Multi-jurisdictional | Highway          | 414  | 206   | 162   | 194   | 198  | 222  | 146   | 175  | 155  | 190   | 231 |
| 2045-108  | I-64 Express Lanes Network - PT Shoulders along Segment 1   | Multi-jurisdictional | Highway          | 137  | 76  | 62  | 62  | 60   | 75   | 49  | 71   | 58   | 60  | 80  |
| 2045-108A | I-64 Express Lanes Network - Segment 4                      | Multi-jurisdictional | Highway          | 154  | 79  | 58  | 79  | 80   | 84   | 50  | 65   | 49   | 74  | 94  |
| 2045-109  | I-664 Widening  | Multi-jurisdictional | Highway          | 47   | 12  | 3   | 16  | 21   | 17   | 12  | 9  | 8  | 22  | 23  |
| 2045-110  | I-664 Widening  | Multi-jurisdictional | Highway          | 83   | 60  | 52  | 53  | 44   | 62   | 42  | 58   | 11   | 42  | 75  |
| 2045-111  | Mooretown Rd Extension                                      | Multi-jurisdictional | Highway          | 9  | 2   | 3   | 3   | 6  | 3  | 3   | 2  | 3  | 4   | 1   |
| 2045-112  | Newtown Road  | Multi-jurisdictional | Highway          | 21   | 12  | 7   | 13  | 8  | 15   | 8   | 11   | 11   | 9   | 16  |
| 2045-113  | Route 199   | Multi-jurisdictional | Highway          | 25   | 4   | 8   | 9   | 18   | 12   | 3   | 3  | 11   | 9   | 3   |
| 2045-114  | Greenbelt - Phase I   | Virginia Beach       | Highway          | 12   | 0   | 1   | 2   | 2  | 0  | 4   | 0  | 1  | 2   | 1   |
| 2045-114A | Greenbelt - Phase II  | Virginia Beach       | Highway          | 9  | 0   | 1   | 0   | 0  | 0  | 3   | 0  | 2  | 3   | 3   |
| 2045-116  | US 460/58/13 Connector                                      | Multi-jurisdictional | Highway          | 19   | 7   | 5   | 9   | 11   | 5  | 9   | 7  | 1  | 10  | 11  |

## APPENDIX B: ENVIRONMENTAL JUSTICE OVERLAY ANALYSIS WITH 2045 LRTP CANDIDATE PROJECTS CONTINUED

| 2045 ID  | 2045 LRTP CANDIDATE PROJECTS                 | LOCALITY             | PROJECT CATEGORY | TOTAL BLOCK GROUPS ASSOCIATED WITH PROJECT | NUMBER OF BLOCK GROUPS WITH MINORITY POPULATIONS ABOVE REGIONAL AVERAGE  |    |  |    |  |    |  |   |  |    |
|----------|--|----------------------|------------------|--|--|----|--|----|--|----|--|---|--|----|
|          |  |                      |                  |  | NUMBER OF BLOCK GROUPS WITH LOW-INCOME HOUSEHOLDS ABOVE REGIONAL AVERAGE |    | NUMBER OF BLOCK GROUPS WITH LIMITED ENGLISH PROFICIENCY POPULATIONS ABOVE REGIONAL AVERAGE |    | NUMBER OF BLOCK GROUPS WITH HOUSEHOLDS RECEIVED FOOD STAMPS ABOVE REGIONAL AVERAGE |    | NUMBER OF BLOCK GROUPS WITH FEMALE HEAD OF HOUSEHOLDS ABOVE REGIONAL AVERAGE |   | NUMBER OF BLOCK GROUPS WITH ELDERLY POPULATIONS ABOVE REGIONAL AVERAGE |    |
| 2045-117 | US Route 460                                 | Multi-jurisdictional | Highway          | 13   | 2  | 3  | 6  | 9  | 6  | 4  | 2  | 1 | 6  | 4  |
| 2045-118 | US Route 60                                  | Multi-jurisdictional | Highway          | 10   | 6  | 3  | 5  | 0  | 4  | 5  | 6  | 8 | 6  | 9  |
| 2045-119 | VA-164 Widening                              | Multi-jurisdictional | Highway          | 45   | 14   | 12 | 18   | 19 | 24   | 14 | 16   | 5 | 20   | 24 |
| 2045-120 | Victory Blvd (Rte 171)                       | Multi-jurisdictional | Highway          | 16   | 0  | 0  | 3  | 10 | 2  | 1  | 0  | 6 | 4  | 0  |
| 2045-121 | Victory Blvd (Rte 171)                       | Multi-jurisdictional | Highway          | 12   | 0  | 0  | 2  | 7  | 3  | 1  | 0  | 1 | 5  | 0  |
| 2045-122 | Battlefield Blvd                             | Chesapeake           | Highway          | 27   | 7  | 5  | 9  | 10 | 12   | 8  | 5  | 7 | 13   | 12 |
| 2045-123 | Ballahack Rd                                 | Chesapeake           | Highway          | 4  | 0  | 0  | 2  | 1  | 0  | 1  | 0  | 0 | 0  | 2  |
| 2045-124 | Bruce Rd                                     | Chesapeake           | Highway          | 16   | 3  | 1  | 4  | 10 | 8  | 5  | 1  | 3 | 6  | 6  |
| 2045-125 | Cedar Rd                                     | Chesapeake           | Highway          | 14   | 1  | 2  | 3  | 5  | 4  | 2  | 1  | 5 | 6  | 3  |
| 2045-126 | Centerville TnPk                             | Chesapeake           | Highway          | 19   | 2  | 2  | 4  | 8  | 4  | 5  | 0  | 4 | 7  | 5  |
| 2045-127 | Centerville TnPk - Phase I                   | Chesapeake           | Highway          | 9  | 0  | 1  | 0  | 3  | 0  | 1  | 0  | 0 | 4  | 1  |
| 2045-128 | Centerville TnPk - Phase II                  | Chesapeake           | Highway          | 13   | 2  | 2  | 4  | 6  | 4  | 5  | 0  | 4 | 4  | 5  |
| 2045-129 | Chesapeake Expressway Widening               | Chesapeake           | Highway          | 32   | 6  | 4  | 7  | 10 | 11   | 6  | 4  | 7 | 14   | 11 |
| 2045-130 | Chesapeake Regional Airport Access Rd        | Chesapeake           | Highway          | 2  | 0  | 0  | 1  | 1  | 0  | 0  | 0  | 0 | 1  | 1  |
| 2045-131 | Eden Way Extended                            | Chesapeake           | Highway          | 9  | 1  | 4  | 1  | 4  | 7  | 2  | 0  | 2 | 4  | 4  |
| 2045-132 | Elbow Rd                                     | Chesapeake           | Highway          | 11   | 1  | 1  | 3  | 2  | 0  | 1  | 0  | 3 | 7  | 4  |
| 2045-133 | Elbow Rd - Phase 1 West - existing alignment | Chesapeake           | Highway          | 9  | 1  | 1  | 2  | 1  | 0  | 1  | 0  | 3 | 6  | 4  |
| 2045-134 | Elbow Rd - Phase 2 East - existing alignment | Chesapeake           | Highway          | 5  | 0  | 1  | 1  | 2  | 0  | 1  | 0  | 0 | 2  | 1  |
| 2045-135 | G.W. Hwy (US 17)                             | Chesapeake           | Highway          | 17   | 11   | 9  | 11   | 8  | 8  | 10 | 11   | 5 | 8  | 10 |
| 2045-136 | Green Tree Rd Extension                      | Chesapeake           | Highway          | 11   | 2  | 3  | 2  | 3  | 4  | 3  | 1  | 3 | 4  | 5  |
| 2045-137 | Greenbrier Pkwy                              | Chesapeake           | Highway          | 14   | 4  | 5  | 5  | 9  | 8  | 3  | 1  | 3 | 6  | 8  |
| 2045-138 | Hanbury Rd                                   | Chesapeake           | Highway          | 15   | 1  | 0  | 3  | 5  | 2  | 2  | 1  | 4 | 7  | 0  |
| 2045-139 | I-664 Widening                               | Chesapeake           | Highway          | 21   | 5  | 1  | 8  | 11 | 8  | 6  | 3  | 4 | 10   | 9  |

## APPENDIX B: ENVIRONMENTAL JUSTICE OVERLAY ANALYSIS WITH 2045 LRTP CANDIDATE PROJECTS CONTINUED

| 2045 ID  | 2045 LRTP CANDIDATE PROJECTS                      | LOCALITY             | PROJECT CATEGORY | TOTAL BLOCK GROUPS ASSOCIATED WITH PROJECT | TOTAL BLOCK GROUPS WITH 5 OR MORE ENVIRONMENTAL JUSTICE COMMUNITIES | NUMBER OF BLOCK GROUPS WITH CARLESS HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH DISABLED POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH ELDERLY POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH FEMALE HEAD OF HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS RECEIVING CASH PUBLIC ASSISTANCE ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS RECEIVING FOOD STAMPS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH LIMITED ENGLISH PROFICIENCY POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH LOW-INCOME HOUSEHOLDS ABOVE REGIONAL AVERAGE |    |
|----------|---|----------------------|------------------|--|---|---|---|--|--|--|---|--|--|----|
|          |   |                      |                  |  |   |   |   |  |  |  |   |  |  |    |
| 2045-140 | I-87  | Chesapeake           | Highway          | 34   | 9   | 7   | 8   | 10   | 13   | 11   | 7   | 8  | 16   | 16 |
| 2045-141 | Johnstown Rd - Phase 1                            | Chesapeake           | Highway          | 15   | 1   | 2   | 3   | 5  | 4  | 3  | 1   | 4  | 7  | 3  |
| 2045-142 | Johnstown Rd - Phase 2                            | Chesapeake           | Highway          | 15   | 1   | 0   | 3   | 6  | 3  | 3  | 1   | 4  | 7  | 1  |
| 2045-143 | Johnstown Rd - Phase 3                            | Chesapeake           | Highway          | 12   | 1   | 0   | 3   | 5  | 2  | 2  | 1   | 4  | 6  | 0  |
| 2045-144 | Military Hwy                                      | Chesapeake           | Highway          | 29   | 14  | 12  | 16  | 16   | 19   | 11   | 10  | 11   | 14   | 18 |
| 2045-145 | Military Hwy                                      | Chesapeake           | Highway          | 12   | 17  | 15  | 19  | 18   | 23   | 14   | 14  | 13   | 18   | 23 |
| 2045-146 | Military Hwy                                      | Chesapeake           | Highway          | 38   | 17  | 15  | 19  | 18   | 23   | 14   | 14  | 13   | 18   | 23 |
| 2045-147 | Mt Pleasant Rd, Phase 1                           | Chesapeake           | Highway          | 15   | 1   | 1   | 3   | 5  | 2  | 2  | 1   | 2  | 7  | 2  |
| 2045-148 | Mt Pleasant Rd, Phase 2                           | Chesapeake           | Highway          | 11   | 1   | 1   | 1   | 3  | 0  | 0  | 0   | 1  | 5  | 1  |
| 2045-149 | Volvo Pkwy Extended                               | Chesapeake           | Highway          | 12   | 4   | 3   | 3   | 4  | 8  | 3  | 2   | 4  | 6  | 8  |
| 2045-150 | Volvo Pkwy Widening                               | Chesapeake           | Highway          | 13   | 2   | 5   | 2   | 5  | 9  | 2  | 1   | 2  | 6  | 6  |
| 2045-151 | G.W. Mem Hwy (US 17)                              | Gloucester           | Highway          | 14   | 4   | 3   | 10  | 13   | 7  | 1  | 6   | 1  | 6  | 0  |
| 2045-152 | G.W. Mem Hwy (US 17)                              | Gloucester           | Highway          | 8  | 1   | 2   | 4   | 7  | 5  | 1  | 1   | 0  | 4  | 0  |
| 2045-153 | Proposed parallel facility for Route 17           | Gloucester           | Highway          | 11   | 3   | 3   | 7   | 8  | 4  | 1  | 3   | 1  | 5  | 0  |
| 2045-154 | Coliseum Dr Extension B                           | Hampton              | Highway          | 11   | 6   | 4   | 5   | 4  | 6  | 4  | 4   | 4  | 5  | 10 |
| 2045-155 | Little Back River Rd                              | Hampton              | Highway          | 23   | 7   | 6   | 10  | 18   | 11   | 7  | 8   | 2  | 11   | 10 |
| 2045-156 | Benns Church Blvd                                 | Isle of Wight County | Highway          | 7  | 3   | 3   | 3   | 7  | 2  | 3  | 2   | 1  | 3  | 1  |
| 2045-157 | US 17/Carrollton Blvd (part of Route 17 corridor) | Isle of Wight County | Highway          | 6  | 0   | 0   | 1   | 6  | 2  | 0  | 1   | 0  | 3  | 0  |
| 2045-158 | US 258  | Isle of Wight County | Highway          | 4  | 1   | 1   | 3   | 4  | 2  | 1  | 1   | 0  | 2  | 0  |
| 2045-159 | Centerville Rd                                    | James City County    | Highway          | 6  | 2   | 2   | 3   | 5  | 3  | 0  | 1   | 4  | 4  | 0  |
| 2045-160 | I-64 Peninsula Widening Segment 4                 | Multi-jurisdictional | Highway          | 10   | 2   | 3   | 4   | 7  | 4  | 3  | 2   | 3  | 5  | 1  |
| 2045-161 | Longhill Rd (Phase 2)                             | James City County    | Highway          | 8  | 2   | 4   | 3   | 6  | 4  | 0  | 0   | 5  | 4  | 1  |
| 2045-162 | Longhill Rd (Phase 3)                             | James City County    | Highway          | 6  | 1   | 2   | 3   | 5  | 2  | 0  | 0   | 4  | 3  | 0  |

## APPENDIX B: ENVIRONMENTAL JUSTICE OVERLAY ANALYSIS WITH 2045 LRTP CANDIDATE PROJECTS CONTINUED

| 2045 ID  | 2045 LRTP CANDIDATE PROJECTS                     | LOCALITY     | PROJECT CATEGORY | TOTAL BLOCK GROUPS<br>ASSOCIATED WITH PROJECT | TOTAL BLOCK GROUPS<br>WITH 5 OR MORE<br>ENVIRONMENTAL JUSTICE<br>COMMUNITIES | NUMBER OF BLOCK GROUPS<br>WITH CARELESS<br>HOUSEHOLDS ABOVE<br>REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS<br>WITH DISABLED<br>POPULATIONS ABOVE<br>REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS<br>WITH ELDERLY<br>POPULATIONS ABOVE<br>REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS<br>WITH FEMALE HEAD OF<br>HOUSEHOLDS ABOVE<br>REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS<br>WITH HOUSEHOLD<br>RECEIVING CASH PUBLIC<br>ASSISTANCE ABOVE<br>REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS<br>WITH LIMITED ENGLISH<br>POPULATIONS ABOVE<br>REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS<br>WITH LOW-INCOME<br>POPULATIONS ABOVE<br>REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS<br>WITH MINORITY<br>POPULATIONS ABOVE<br>REGIONAL AVERAGE |    |
|----------|--|--------------|------------------|---|--|---|--|---|---|---|---|--|--|----|
|          |  |              |                  |   |  |   |  |   |   |   |   |  |  |    |
| 2045-163 | Bland Blvd Widening                              | Newport News | Highway          | 24  | 14   | 10  | 15   | 11  | 13  | 8   | 11  | 14   | 10   | 12 |
| 2045-164 | Briarfield Rd                                    | Newport News | Highway          | 20  | 17   | 13  | 15   | 12  | 17  | 9   | 16  | 3  | 11   | 20 |
| 2045-165 | Chestnut Ave                                     | Newport News | Highway          | 29  | 26   | 23  | 22   | 16  | 23  | 18  | 25  | 3  | 17   | 29 |
| 2045-166 | Denbigh Blvd Widening Phase I                    | Newport News | Highway          | 23  | 15   | 12  | 15   | 7   | 15  | 10  | 13  | 15   | 12   | 16 |
| 2045-167 | Denbigh Blvd Widening Phase II                   | Newport News | Highway          | 20  | 12   | 11  | 12   | 5   | 13  | 8   | 10  | 12   | 12   | 15 |
| 2045-168 | Harpersville Rd Widening                         | Newport News | Highway          | 16  | 8  | 4   | 10   | 8   | 7   | 4   | 7   | 7  | 8  | 6  |
| 2045-169 | Harpersville Rd Widening                         | Newport News | Highway          | 14  | 4  | 4   | 6  | 5   | 7   | 4   | 3   | 9  | 6  | 5  |
| 2045-170 | J. Clyde Morris Blvd Widening                    | Newport News | Highway          | 20  | 8  | 7   | 12   | 9   | 10  | 6   | 7   | 9  | 10   | 7  |
| 2045-171 | J. Clyde Morris Blvd / G.W. Hwy (US 17) Widening | Newport News | Highway          | 16  | 5  | 5   | 8  | 5   | 7   | 5   | 4   | 9  | 6  | 8  |
| 2045-173 | Jefferson Ave Widening Phase I                   | Newport News | Highway          | 19  | 5  | 7   | 7  | 2   | 10  | 5   | 8   | 9  | 6  | 14 |
| 2045-174 | Jefferson Ave Widening Phase II                  | Newport News | Highway          | 17  | 6  | 6   | 8  | 0   | 8   | 6   | 9   | 8  | 6  | 14 |
| 2045-175 | Liberty Pkwy Extension                           | Newport News | Highway          | 18  | 9  | 8   | 9  | 8   | 10  | 3   | 6   | 10   | 7  | 6  |
| 2045-176 | Lucas Creek Rd Extension                         | Newport News | Highway          | 27  | 14   | 12  | 15   | 9   | 15  | 11  | 14  | 17   | 11   | 18 |
| 2045-178 | Oyster Point Rd Widening                         | Newport News | Highway          | 18  | 8  | 6   | 6  | 8   | 9   | 4   | 5   | 11   | 9  | 7  |
| 2045-179 | Oyster Point Rd Phase I Widening                 | Newport News | Highway          | 17  | 8  | 7   | 8  | 8   | 9   | 3   | 5   | 9  | 6  | 5  |
| 2045-180 | Oyster Point Rd Phase II Widening                | Newport News | Highway          | 19  | 9  | 7   | 11   | 9   | 9   | 3   | 7   | 10   | 7  | 7  |
| 2045-181 | Oyster Point Rd Phase III Widening               | Newport News | Highway          | 19  | 9  | 8   | 10   | 9   | 10  | 3   | 6   | 10   | 8  | 6  |
| 2045-182 | Patrick Henry Dr/Siemens Way Widening            | Newport News | Highway          | 21  | 9  | 9   | 9  | 8   | 11  | 6   | 7   | 11   | 9  | 11 |
| 2045-183 | Saunders Rd Widening                             | Newport News | Highway          | 19  | 5  | 5   | 7  | 5   | 8   | 4   | 4   | 9  | 8  | 9  |
| 2045-184 | Turnberry Blvd Extension                         | Newport News | Highway          | 16  | 6  | 6   | 6  | 6   | 9   | 5   | 3   | 10   | 9  | 9  |
| 2045-186 | Warwick Blvd Widening Phase I                    | Newport News | Highway          | 26  | 11   | 9   | 13   | 12  | 12  | 5   | 9   | 11   | 12   | 10 |
| 2045-187 | Warwick Blvd Widening Phase II                   | Newport News | Highway          | 28  | 17   | 11  | 19   | 14  | 13  | 8   | 13  | 16   | 12   | 14 |
| 2045-188 | Warwick Blvd Widening Phase III                  | Newport News | Highway          | 30  | 18   | 13  | 20   | 14  | 17  | 13  | 16  | 19   | 11   | 17 |

## APPENDIX B: ENVIRONMENTAL JUSTICE OVERLAY ANALYSIS WITH 2045 LRTP CANDIDATE PROJECTS CONTINUED

| 2045 ID  | 2045 LRTP CANDIDATE PROJECTS       | LOCALITY     | PROJECT CATEGORY | TOTAL BLOCK GROUPS<br>ASSOCIATED WITH PROJECT | TOTAL BLOCK GROUPS<br>WITH 5 OR MORE<br>ENVIRONMENTAL JUSTICE<br>COMMUNITIES | REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS<br>WITH MINORITY<br>POPULATIONS ABOVE<br>REGIONAL AVERAGE  |   |   |   |   |   |  |   |   |   |
|----------|------------------------------------|--------------|------------------|---|--|------------------|---|---|---|---|---|---|--|---|---|---|
|          |                                    |              |                  |   |  |                  | NUMBER OF BLOCK GROUPS<br>WITH LOW-INCOME<br>HOUSEHOLDS ABOVE<br>REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS<br>WITH LIMITED ENGLISH<br>POPULATIONS ABOVE<br>REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS<br>WITH HOUSEHOLDS<br>RECEIVED FOOD STAMPS<br>ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS<br>WITH HOUSEHOLD<br>RECEIVING CASH PUBLIC<br>ASSISTANCE ABOVE<br>REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS<br>WITH FEMALE HEAD OF<br>HOUSEHOLDS ABOVE<br>REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS<br>WITH ELDERLY<br>POPULATIONS ABOVE<br>REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS<br>WITH DISABLED<br>POPULATIONS ABOVE<br>REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS<br>WITH CARELESS<br>HOUSEHOLDS ABOVE<br>REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS<br>WITH HOUSEHOLDS<br>ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS<br>WITH HOUSEHOLDS<br>ABOVE REGIONAL AVERAGE |
| 2045-189 | Warwick Blvd Widening Phase IV     | Newport News | Highway          | 22  | 12   | 10               | 11  | 7   | 14  | 10  | 12  | 15  | 8  | 16  |   |   |
| 2045-190 | Warwick Blvd Widening Phase V      | Newport News | Highway          | 23  | 10   | 7                | 8   | 6   | 12  | 9   | 12  | 14  | 7  | 19  |   |   |
| 2045-191 | Warwick Blvd Widening Phase VI     | Newport News | Highway          | 12  | 6  | 4                | 6   | 0   | 6   | 5   | 7   | 8   | 5  | 11  |   |   |
| 2045-192 | Ballentine Blvd                    | Norfolk      | Highway          | 22  | 17   | 17               | 15  | 10  | 13  | 8   | 17  | 4   | 5  | 19  |   | 19  |
| 2045-193 | Brambleton Ave                     | Norfolk      | Highway          | 47  | 29   | 36               | 27  | 16  | 33  | 21  | 30  | 5   | 19   | 32  |   |   |
| 2045-195 | Little Creek Rd                    | Norfolk      | Highway          | 48  | 28   | 24               | 21  | 24  | 23  | 19  | 26  | 20  | 24   | 21  |   |   |
| 2045-196 | Monticello Ave                     | Norfolk      | Highway          | 32  | 18   | 25               | 19  | 11  | 27  | 13  | 18  | 4   | 14   | 19  |   |   |
| 2045-197 | Newtown Rd                         | Norfolk      | Highway          | 22  | 13   | 7                | 13  | 8   | 14  | 9   | 12  | 12  | 7  | 17  |   |   |
| 2045-198 | Tidewater Dr                       | Norfolk      | Highway          | 61  | 45   | 48               | 32  | 24  | 41  | 24  | 44  | 12  | 24   | 48  |   |   |
| 2045-199 | Virginia Beach Blvd                | Norfolk      | Highway          | 21  | 13   | 7                | 14  | 7   | 12  | 10  | 13  | 12  | 7  | 18  |   |   |
| 2045-200 | Elm Ave Realignment Project        | Portsmouth   | Highway          | 21  | 19   | 18               | 13  | 9   | 15  | 12  | 17  | 3   | 10   | 19  |   |   |
| 2045-201 | Harper Ave                         | Portsmouth   | Highway          | 19  | 7  | 10               | 8   | 10  | 14  | 6   | 10  | 1   | 8  | 7   |   |   |
| 2045-202 | Battery Park Rd                    | Smithfield   | Highway          | 9   | 5  | 3                | 3   | 9   | 5   | 5   | 4   | 2   | 5  | 2   |   |   |
| 2045-203 | S. Church St                       | Smithfield   | Highway          | 8   | 5  | 3                | 3   | 8   | 4   | 5   | 4   | 2   | 4  | 2   |   |   |
| 2045-204 | Bridge Rd (US 17)                  | Suffolk      | Highway          | 27  | 5  | 1                | 9   | 10  | 9   | 5   | 4   | 4   | 13   | 15  |   |   |
| 2045-205 | Bridge Rd (US 17)                  | Suffolk      | Highway          | 7   | 0  | 0                | 2   | 6   | 2   | 0   | 1   | 0   | 3  | 0   |   |   |
| 2045-207 | Godwin Blvd                        | Suffolk      | Highway          | 11  | 2  | 2                | 2   | 7   | 5   | 2   | 1   | 3   | 5  | 5   |   |   |
| 2045-208 | Godwin Blvd - Phase 1              | Suffolk      | Highway          | 7   | 1  | 2                | 1   | 6   | 3   | 1   | 1   | 1   | 4  | 1   |   |   |
| 2045-209 | Nansemond Pkwy (Rte 337)           | Suffolk      | Highway          | 11  | 1  | 0                | 2   | 5   | 2   | 3   | 0   | 0   | 5  | 4   |   |   |
| 2045-210 | Suffolk/ US 58 Bypass              | Suffolk      | Highway          | 15  | 4  | 3                | 4   | 7   | 5   | 6   | 4   | 2   | 6  | 11  |   |   |
| 2045-211 | Whaleyville Blvd (US 13) - Phase 1 | Suffolk      | Highway          | 4   | 3  | 2                | 1   | 4   | 1   | 3   | 1   | 0   | 2  | 2   |   |   |
| 2045-212 | Whaleyville Blvd (US 13) - Phase 2 | Suffolk      | Highway          | 7   | 5  | 3                | 3   | 6   | 3   | 6   | 4   | 0   | 4  | 4   |   |   |
| 2045-213 | Wilroy Rd (Rte 642)                | Suffolk      | Highway          | 23  | 14   | 11               | 8   | 8   | 13  | 16  | 14  | 4   | 11   | 17  |   |   |

## APPENDIX B: ENVIRONMENTAL JUSTICE OVERLAY ANALYSIS WITH 2045 LRTP CANDIDATE PROJECTS CONTINUED

| 2045 ID  | 2045 LRTP CANDIDATE PROJECTS   | LOCALITY       | PROJECT CATEGORY | TOTAL BLOCK GROUPS ASSOCIATED WITH PROJECT | TOTAL BLOCK GROUPS WITH 5 OR MORE ENVIRONMENTAL JUSTICE COMMUNITIES | NUMBER OF BLOCK GROUPS WITH MINORITY POPULATIONS ABOVE REGIONAL AVERAGE  |   |  |  |  |   |  |  |  |  |
|----------|--------------------------------|----------------|------------------|--|---|--|---|--|--|--|---|--|--|--|--|
|          |                                |                |                  |  |   | NUMBER OF BLOCK GROUPS WITH LOW-INCOME HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH LIMITED ENGLISH PROFICIENCY HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH HOUSEHOLDS RECEIVED FOOD STAMPS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH FEMALE HEAD OF HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH ELDERLY POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH DISABLED POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH CARELESS HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE ABOVE REGIONAL AVERAGE |
| 2045-214 | Wilroy Rd (Rte 642)            | Suffolk        | Highway          | 11   | 3   | 1  | 2   | 5  | 4  | 6  | 3   | 2  | 4  | 8  |  |
| 2045-215 | Birdneck Road                  | Virginia Beach | Highway          | 21   | 5   | 9  | 6   | 6  | 15   | 6  | 6   | 6  | 7  | 3  |  |
| 2045-216 | Clearfield Ave                 | Virginia Beach | Highway          | 23   | 11  | 5  | 13  | 8  | 11   | 9  | 12  | 10   | 10   | 14   |  |
| 2045-217 | Dam Neck Road - Phase I        | Virginia Beach | Highway          | 19   | 8   | 1  | 6   | 2  | 7  | 10   | 7   | 8  | 10   | 12   |  |
| 2045-218 | Dam Neck Road - Phase II       | Virginia Beach | Highway          | 18   | 6   | 1  | 5   | 2  | 6  | 9  | 5   | 9  | 7  | 9  |  |
| 2045-219 | Dam Neck Road - Phase III      | Virginia Beach | Highway          | 13   | 2   | 2  | 3   | 2  | 3  | 6  | 3   | 5  | 4  | 3  |  |
| 2045-220 | Drakesmile Extended - Phase I  | Virginia Beach | Highway          | 13   | 2   | 1  | 3   | 1  | 3  | 7  | 3   | 5  | 4  | 4  |  |
| 2045-221 | Drakesmile Extended - Phase II | Virginia Beach | Highway          | 11   | 1   | 0  | 1   | 1  | 3  | 7  | 2   | 3  | 3  | 4  |  |
| 2045-222 | Ferrell Pkwy                   | Virginia Beach | Highway          | 31   | 11  | 3  | 10  | 16   | 11   | 13   | 4   | 19   | 12   | 14   |  |
| 2045-223 | Ferrell Pkwy                   | Virginia Beach | Highway          | 33   | 9   | 2  | 12  | 18   | 10   | 10   | 5   | 20   | 10   | 16   |  |
| 2045-224 | Ferrell Pkwy                   | Virginia Beach | Highway          | 34   | 11  | 2  | 14  | 15   | 9  | 10   | 7   | 19   | 12   | 17   |  |
| 2045-225 | First Colonial Rd              | Virginia Beach | Highway          | 20   | 4   | 5  | 4   | 11   | 13   | 5  | 5   | 7  | 6  | 3  |  |
| 2045-226 | First Colonial Rd              | Virginia Beach | Highway          | 15   | 2   | 2  | 1   | 14   | 6  | 3  | 2   | 5  | 3  | 0  |  |
| 2045-227 | General Booth Blvd             | Virginia Beach | Highway          | 12   | 2   | 2  | 5   | 2  | 1  | 4  | 3   | 3  | 6  | 1  |  |
| 2045-228 | General Booth Blvd             | Virginia Beach | Highway          | 13   | 2   | 3  | 6   | 3  | 2  | 3  | 3   | 4  | 5  | 1  |  |
| 2045-229 | General Booth Blvd             | Virginia Beach | Highway          | 12   | 0   | 0  | 1   | 3  | 1  | 2  | 0   | 2  | 4  | 0  |  |
| 2045-23  | Shoulders Hill Rd (Rte 626)    | Suffolk        | Highway          | 12   | 1   | 0  | 2   | 4  | 3  | 2  | 0   | 1  | 3  | 4  |  |
| 2045-230 | Holland Rd                     | Virginia Beach | Highway          | 42   | 20  | 10   | 21  | 15   | 18   | 17   | 15  | 21   | 25   | 20   |  |
| 2045-231 | Holland Road                   | Virginia Beach | Highway          | 42   | 15  | 5  | 17  | 11   | 15   | 18   | 15  | 21   | 19   | 24   |  |
| 2045-232 | I-264 Preferred Alternative    | Virginia Beach | Highway          | 94   | 26  | 18   | 37  | 50   | 45   | 25   | 25  | 37   | 42   | 29   |  |
| 2045-233 | Independence Blvd              | Virginia Beach | Highway          | 25   | 5   | 3  | 7   | 14   | 14   | 3  | 3   | 8  | 12   | 3  |  |
| 2045-234 | Independence Blvd              | Virginia Beach | Highway          | 37   | 9   | 6  | 12  | 19   | 20   | 9  | 8   | 13   | 16   | 7  |  |
| 2045-235 | Indian River Rd                | Virginia Beach | Highway          | 33   | 14  | 5  | 13  | 19   | 14   | 15   | 6   | 21   | 12   | 13   |  |

## APPENDIX B: ENVIRONMENTAL JUSTICE OVERLAY ANALYSIS WITH 2045 LRTP CANDIDATE PROJECTS CONTINUED

| 2045 ID  | 2045 LRTP CANDIDATE PROJECTS      | LOCALITY       | PROJECT CATEGORY | TOTAL BLOCK GROUPS ASSOCIATED WITH PROJECT | TOTAL BLOCK GROUPS WITH 5 OR MORE ENVIRONMENTAL JUSTICE COMMUNITIES |                              | NUMBER OF BLOCK GROUPS WITH CARLESS HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH DISABLED POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH FEMALE HEAD OF HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH ELDERLY POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH HOUSEHOLD RECEIVING CASH PUBLIC ASSISTANCE ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH LIMITED ENGLISH PROFICIENCY POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH HOUSEHOLDS RECEIVED FOOD STAMPS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH HOUSEHOLD RECEIVING CASH PUBLIC ASSISTANCE ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH MINORITY POPULATIONS ABOVE REGIONAL AVERAGE |    |
|----------|-----------------------------------|----------------|------------------|--|---|------------------------------|---|---|--|--|---|--|--|---|---|----|
|          |                                   |                |                  |  | 2045 ID   | 2045 LRTP CANDIDATE PROJECTS | LOCALITY  | PROJECT CATEGORY  | TOTAL BLOCK GROUPS ASSOCIATED WITH PROJECT                                   | TOTAL BLOCK GROUPS WITH 5 OR MORE ENVIRONMENTAL JUSTICE COMMUNITIES    |   |  |  |   |   |    |
| 2045-236 | Indian River Rd                   | Virginia Beach | Highway          | 22   | 11  | 7                            | 9   | 14  | 13   | 9  | 7   | 13   | 9  | 11  | 11  | 11 |
| 2045-237 | Indian River Rd                   | Virginia Beach | Highway          | 7  | 0   | 1                            | 0   | 1   | 1  | 0  | 0   | 1  | 4  | 2   | 2   | 2  |
| 2045-238 | Indian River Road                 | Virginia Beach | Highway          | 13   | 1   | 1                            | 3   | 1   | 0  | 2  | 0   | 5  | 7  | 8   | 7   | 8  |
| 2045-239 | Jeanne St                         | Virginia Beach | Highway          | 25   | 7   | 5                            | 8   | 11  | 13   | 6  | 7   | 10   | 12   | 6   | 12  | 6  |
| 2045-240 | Landstown Rd - Phase I            | Virginia Beach | Highway          | 7  | 2   | 0                            | 3   | 0   | 1  | 3  | 1   | 1  | 2  | 5   | 2   | 5  |
| 2045-241 | Landstown Rd Extended - Phase II  | Virginia Beach | Highway          | 6  | 0   | 0                            | 0   | 1   | 0  | 2  | 0   | 1  | 2  | 2   | 2   | 2  |
| 2045-242 | Landstown Rd Extended - Phase III | Virginia Beach | Highway          | 4  | 0   | 0                            | 0   | 1   | 0  | 1  | 0   | 1  | 2  | 2   | 2   | 2  |
| 2045-243 | Landstown Rd Extended - Phase IV  | Virginia Beach | Highway          | 4  | 0   | 0                            | 0   | 0   | 1  | 0  | 0   | 1  | 3  | 1   | 3   | 1  |
| 2045-244 | Laskin Road - Phase IB            | Virginia Beach | Highway          | 22   | 6   | 11                           | 5   | 8   | 15   | 7  | 5   | 7  | 9  | 3   | 9   | 3  |
| 2045-245 | Laskin Road - Phase II            | Virginia Beach | Highway          | 19   | 5   | 11                           | 3   | 8   | 13   | 6  | 5   | 5  | 9  | 3   | 9   | 3  |
| 2045-246 | Laskin Road - Phase III           | Virginia Beach | Highway          | 21   | 4   | 4                            | 5   | 10  | 15   | 8  | 4   | 8  | 7  | 3   | 7   | 3  |
| 2045-247 | London Bridge Road                | Virginia Beach | Highway          | 15   | 3   | 2                            | 4   | 3   | 4  | 6  | 4   | 6  | 5  | 4   | 5   | 4  |
| 2045-248 | Lynnhaven Pkwy                    | Virginia Beach | Highway          | 49   | 18  | 5                            | 20  | 12  | 14   | 17   | 15  | 25   | 24   | 31  | 24  | 31 |
| 2045-250 | Nimmo Pkwy - Phase II             | Virginia Beach | Highway          | 6  | 0   | 0                            | 0   | 1   | 0  | 2  | 0   | 1  | 3  | 2   | 3   | 2  |
| 2045-251 | Nimmo Pkwy - Phase III            | Virginia Beach | Highway          | 5  | 0   | 0                            | 0   | 1   | 0  | 1  | 0   | 1  | 3  | 2   | 3   | 2  |
| 2045-252 | Nimmo Pkwy - Phase VIIB           | Virginia Beach | Highway          | 9  | 0   | 0                            | 1   | 3   | 1  | 0  | 0   | 2  | 2  | 0   | 2   | 0  |
| 2045-253 | North Great Neck                  | Virginia Beach | Highway          | 23   | 5   | 5                            | 4   | 12  | 14   | 8  | 4   | 9  | 9  | 4   | 9   | 4  |
| 2045-254 | North Lynnhaven Rd                | Virginia Beach | Highway          | 20   | 5   | 3                            | 7   | 10  | 10   | 7  | 5   | 4  | 10   | 5   | 10  | 5  |
| 2045-255 | Princess Anne Commons Rd A        | Virginia Beach | Highway          | 7  | 0   | 0                            | 1   | 0   | 0  | 3  | 0   | 2  | 1  | 3   | 1   | 3  |
| 2045-256 | Princess Anne Road                | Virginia Beach | Highway          | 25   | 7   | 3                            | 9   | 10  | 8  | 5  | 6   | 11   | 10   | 14  | 10  | 14 |
| 2045-257 | Providence Road                   | Virginia Beach | Highway          | 41   | 11  | 5                            | 16  | 23  | 14   | 8  | 7   | 21   | 15   | 17  | 15  | 17 |
| 2045-258 | Rosemont Rd                       | Virginia Beach | Highway          | 47   | 18  | 11                           | 20  | 20  | 19   | 18   | 17  | 22   | 23   | 21  | 23  | 21 |
| 2045-259 | Rosemont Road - Phase V           | Virginia Beach | Highway          | 32   | 15  | 5                            | 15  | 5   | 10   | 11   | 11  | 17   | 15   | 24  | 15  | 24 |

## APPENDIX B: ENVIRONMENTAL JUSTICE OVERLAY ANALYSIS WITH 2045 LRTP CANDIDATE PROJECTS CONTINUED

| 2045 ID  | 2045 LRTP CANDIDATE PROJECTS                           | LOCALITY             | PROJECT CATEGORY | TOTAL BLOCK GROUPS ASSOCIATED WITH PROJECT | TOTAL BLOCK GROUPS WITH 5 OR MORE ENVIRONMENTAL JUSTICE COMMUNITIES | NUMBER OF BLOCK GROUPS WITH CARELESS HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH CARLESS HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH DISABLED POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH ELDERLY POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH FEMALE HEAD OF HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH HOUSEHOLDS RECEIVED FOOD STAMPS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH MINORITY POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH LOW-INCOME HOUSEHOLDS ABOVE REGIONAL AVERAGE |
|----------|--|----------------------|------------------|--|---|--|---|---|--|--|--|--|---|--|
|          |  |                      |                  |  |   |  |   |   |  |  |  |  |   |  |
| 2045-260 | Salem Road   | Virginia Beach       | Highway          | 14   | 3   | 0  | 5   | 2   | 1  | 2  | 1  | 5  | 9   | 9  |
| 2045-261 | Salem Road   | Virginia Beach       | Highway          | 22   | 6   | 1  | 10  | 3   | 3  | 5  | 3  | 9  | 10  | 16   |
| 2045-262 | Shore Drive - Phase II                                 | Virginia Beach       | Highway          | 14   | 2   | 3  | 3   | 6   | 8  | 0  | 2  | 3  | 7   | 1  |
| 2045-263 | West Neck Rd   | Virginia Beach       | Highway          | 6  | 0   | 0  | 0   | 1   | 1  | 1  | 0  | 1  | 3   | 1  |
| 2045-264 | Monticello Ave   | Williamsburg         | Highway          | 10   | 2   | 6  | 3   | 6   | 6  | 2  | 3  | 3  | 4   | 1  |
| 2045-265 | Commonwealth Dr Extension                              | York County          | Highway          | 14   | 5   | 4  | 5   | 8   | 5  | 3  | 3  | 10   | 6   | 4  |
| 2045-266 | G.W. Mem Hwy (US 17)                                   | York County          | Highway          | 10   | 2   | 1  | 6   | 6   | 5  | 4  | 2  | 2  | 5   | 1  |
| 2045-267 | G.W. Mem Hwy (US 17)                                   | York County          | Highway          | 6  | 2   | 0  | 3   | 6   | 2  | 2  | 0  | 3  | 5   | 0  |
| 2045-268 | J. Clyde Morris Blvd/G.W. Mem Hwy (US 17)              | York County          | Highway          | 20   | 6   | 4  | 8   | 13  | 7  | 4  | 3  | 12   | 9   | 4  |
| 2045-269 | Harpersville Rd Widening                               | Newport News         | Highway          | 28   | 14  | 10   | 16  | 11  | 13   | 9  | 12   | 15   | 14  | 14   |
| 2045-116 | US 460/58/13 Connector - Regional Landfill Interchange | Multi-jurisdictional | Interchange      | 3  | 1   | 1  | 1   | 0   | 0  | 2  | 2  | 0  | 1   | 3  |
| 2045-301 | I-64/I-264 Interchange Phase IIIA                      | Multi-jurisdictional | Interchange      | 38   | 19  | 12   | 25  | 19  | 20   | 14   | 19   | 17   | 11  | 23   |
| 2045-302 | I-64/I-264 Interchange Phase IIIB                      | Multi-jurisdictional | Interchange      | 38   | 19  | 12   | 25  | 19  | 20   | 14   | 19   | 17   | 11  | 23   |
| 2045-303 | I-64/I-264 Interchange Phase IIIC                      | Multi-jurisdictional | Interchange      | 38   | 19  | 12   | 25  | 19  | 20   | 14   | 19   | 17   | 11  | 23   |
| 2045-304 | I-64/I-264 Interchange Phase IIID                      | Multi-jurisdictional | Interchange      | 38   | 19  | 12   | 25  | 19  | 20   | 14   | 19   | 17   | 11  | 23   |
| 2045-305 | I-64/I-264 Interchange Phase IIIE                      | Multi-jurisdictional | Interchange      | 38   | 19  | 12   | 25  | 19  | 20   | 14   | 19   | 17   | 11  | 23   |
| 2045-306 | I-64/I-264 Interchange Phase IIIF                      | Multi-jurisdictional | Interchange      | 38   | 19  | 12   | 25  | 19  | 20   | 14   | 19   | 17   | 11  | 23   |
| 2045-307 | US 58/258 Interchange                                  | Multi-jurisdictional | Interchange      | 5  | 3   | 3  | 3   | 3   | 5  | 3  | 3  | 1  | 3   | 4  |
| 2045-308 | Bowers Hill Interchange                                | Multi-jurisdictional | Interchange      | 9  | 3   | 1  | 4   | 7   | 3  | 3  | 3  | 1  | 5   | 3  |
| 2045-309 | I-64/I-464 Loop Ramp (I-64 to I-464 South)             | Chesapeake           | Interchange      | 23   | 10  | 7  | 7   | 9   | 13   | 9  | 7  | 7  | 12  | 13   |
| 2045-310 | I-64/I-464/US 17 Interchange                           | Chesapeake           | Interchange      | 23   | 9   | 7  | 6   | 8   | 12   | 8  | 7  | 8  | 12  | 12   |
| 2045-311 | I-64 at Lasalle Ave                                    | Hampton              | Interchange      | 44   | 28  | 24   | 25  | 24  | 31   | 18   | 26   | 8  | 17  | 36   |
| 2045-312 | I-64 at N. King St                                     | Hampton              | Interchange      | 46   | 27  | 22   | 24  | 26  | 30   | 20   | 27   | 8  | 25  | 33   |

## APPENDIX B: ENVIRONMENTAL JUSTICE OVERLAY ANALYSIS WITH 2045 LRTP CANDIDATE PROJECTS CONTINUED

| 2045 ID  | 2045 LRTP CANDIDATE PROJECTS  | LOCALITY             | PROJECT CATEGORY | TOTAL BLOCK GROUPS ASSOCIATED WITH PROJECT | TOTAL BLOCK GROUPS WITH 5 OR MORE ENVIRONMENTAL JUSTICE COMMUNITIES | NUMBER OF BLOCK GROUPS WITH CARELESS HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH FEMALE HEAD OF HOUSEHOLD ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH ELDERLY POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH DISABLED POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH HOUSEHOLDS RECEIVING CASH/PUBLIC ASSISTANCE ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH HOUSEHOLDS RECEIVED FOOD STAMPS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH LIMITED ENGLISH PROFICIENCY POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH LOW-INCOME HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH MINORITY POPULATIONS ABOVE REGIONAL AVERAGE |
|----------|---|----------------------|------------------|--|---|--|---|--|---|--|--|--|--|---|
|          |   |                      |                  |  |   |  |   |  |   |  |  |  |  |   |
| 2045-313 | I-64 at Settlers Landing Rd   | Hampton              | Interchange      | 39   | 22  | 20   | 20  | 17   | 26  | 17   | 23   | 5  | 18   | 30  |
| 2045-314 | I-64/Denbigh Blvd Interchange Project   | Newport News         | Interchange      | 47   | 23  | 17   | 27  | 20   | 24  | 17   | 19   | 28   | 19   | 25  |
| 2045-315 | I-64/Fort Eustis Blvd Interchange   | Newport News         | Interchange      | 23   | 8   | 6  | 12  | 3  | 11  | 9  | 10   | 11   | 10   | 16  |
| 2045-316 | Air Terminal Interchange  | Norfolk              | Interchange      | 5  | 1   | 2  | 2   | 0  | 1   | 0  | 3  | 1  | 3  | 2   |
| 2045-317 | HRBT - I-564/I-64 Interchange Improvements                                    | Multi-jurisdictional | Interchange      | 58   | 37  | 32   | 22  | 23   | 33  | 23   | 36   | 24   | 27   | 32  |
| 2045-318 | I-264 at Ballentine Blvd Diverging Diamond Interchange                        | Norfolk              | Interchange      | 60   | 44  | 43   | 38  | 21   | 38  | 30   | 43   | 15   | 24   | 48  |
| 2045-319 | I-264/Military Hwy Interchange  | Norfolk              | Interchange      | 39   | 21  | 17   | 27  | 23   | 17  | 16   | 21   | 16   | 12   | 23  |
| 2045-320 | I-64/Northampton Blvd Interchange - EB Traffic from Northampton Blvd to I-264 | Norfolk              | Interchange      | 41   | 22  | 15   | 19  | 17   | 20  | 17   | 20   | 20   | 16   | 32  |
| 2045-321 | Military Hwy at I-64 -- New EB On-Ramp  | Norfolk              | Interchange      | 45   | 25  | 23   | 25  | 19   | 22  | 17   | 23   | 22   | 17   | 33  |
| 2045-322 | Cedar Ln and VA-164 Interchange   | Portsmouth           | Interchange      | 10   | 4   | 3  | 5   | 6  | 3   | 5  | 3  | 1  | 3  | 6   |
| 2045-323 | Frederick Blvd and I-264 Interchange  | Portsmouth           | Interchange      | 58   | 42  | 42   | 36  | 24   | 42  | 31   | 43   | 7  | 32   | 40  |
| 2045-324 | Victory Blvd and I-264 Interchange  | Portsmouth           | Interchange      | 53   | 38  | 33   | 37  | 27   | 37  | 27   | 35   | 9  | 31   | 37  |
| 2045-325 | VIG Interchange   | Portsmouth           | Interchange      | 6  | 1   | 2  | 3   | 5  | 1   | 2  | 1  | 0  | 0  | 2   |
| 2045-326 | I-264 at Independence Blvd  | Virginia Beach       | Interchange      | 59   | 16  | 14   | 21  | 32   | 30  | 15   | 13   | 25   | 26   | 16  |
| 2045-327 | I-264 at Rosemont Rd  | Virginia Beach       | Interchange      | 55   | 14  | 12   | 20  | 27   | 27  | 16   | 15   | 19   | 24   | 17  |
| 2045-328 | Merging/Diverging Lane Improvements at I-64 W and Route 199 (Exit 242)        | York County          | Interchange      | 11   | 3   | 1  | 5   | 4  | 2   | 5  | 4  | 6  | 6  | 4   |
| 2045-601 | VA-164 Extension  | Multi-jurisdictional | Intermodal       | 19   | 3   | 1  | 5   | 4  | 6   | 4  | 2  | 2  | 6  | 10  |
| 2045-602 | Portlock Rd Railroad Overpass   | Chesapeake           | Intermodal       | 12   | 7   | 5  | 6   | 5  | 6   | 5  | 6  | 4  | 7  | 8   |
| 2045-603 | Hampton Blvd at Terminal Blvd   | Norfolk              | Intermodal       | 11   | 4   | 2  | 3   | 3  | 6   | 2  | 4  | 2  | 6  | 6   |
| 2045-604 | Craney Island Access Rd   | Portsmouth           | Intermodal       | 11   | 2   | 2  | 3   | 4  | 3   | 2  | 3  | 0  | 4  | 2   |
| 2045-605 | Finney Ave Flyover  | Suffolk              | Intermodal       | 18   | 15  | 13   | 9   | 6  | 12  | 13   | 14   | 4  | 9  | 14  |
| 2045-606 | Nansemond Pkwy (Rte 337)  | Suffolk              | Intermodal       | 4  | 1   | 0  | 1   | 0  | 1   | 1  | 0  | 0  | 2  | 3   |
| 2045-607 | North Suffolk Connector Rd  | Suffolk              | Intermodal       | 13   | 1   | 0  | 2   | 3  | 4   | 3  | 0  | 2  | 5  | 6   |

## APPENDIX B: ENVIRONMENTAL JUSTICE OVERLAY ANALYSIS WITH 2045 LRTP CANDIDATE PROJECTS CONTINUED

| 2045 ID    | 2045 LRTP CANDIDATE PROJECTS  | LOCALITY             | PROJECT CATEGORY      | TOTAL BLOCK GROUPS ASSOCIATED WITH PROJECT | TOTAL BLOCK GROUPS WITH 5 OR MORE ENVIRONMENTAL JUSTICE COMMUNITIES | REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH CARELESS HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH DISABLED POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH ELDERLY POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH FEMALE HEAD OF HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH HOUSEHOLD RECEIVING CASH PUBLIC ASSISTANCE ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH HOUSEHOLDS RECEIVED FOOD STAMPS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH MINORITY POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH LOW-INCOME HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH PROFESSIONAL POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH REGIONAL AVERAGE |
|------------|---|----------------------|-----------------------|--|---|------------------|--|---|--|--|---|--|---|--|---|--|
|            |   |                      |                       |  |   |                  |  |   |  |  |   |  |   |  |   |  |
| 2045-504   | Ferry Service   | Multi-jurisdictional | Transit               | 35   | 14  | 14               | 11   | 8   | 17   | 9  | 19  | 3  | 16  | 17   |   |  |
| 2045-505   | Ferry Service   | Multi-jurisdictional | Transit               | 29   | 11  | 18               | 12   | 13  | 21   | 11   | 12  | 3  | 11  | 12   |   |  |
| 2045-506   | High-Speed and Intercity Passenger Rail - DRPT Tier I EIS ROD - Preferred Alternative | Multi-jurisdictional | Transit               | 136  | 69  | 57               | 76   | 56  | 72   | 50   | 65  | 56   | 69  | 76   |   |  |
| 2045-506   | High-Speed and Intercity Passenger Rail - DRPT Tier I EIS ROD - Preferred Alternative | Multi-jurisdictional | Transit               | 114  | 69  | 57               | 76   | 56  | 72   | 50   | 65  | 56   | 69  | 76   |   |  |
| 2045-508   | High -Speed Water Taxis System  | Multi-jurisdictional | Transit               | 41   | 18  | 4                | 15   | 19  | 25   | 17   | 22  | 4  | 16  | 26   |   |  |
| 2045-509   | Peninsula Commuter Rail   | Multi-jurisdictional | Transit               | 65   | 31  | 26               | 35   | 35  | 31   | 26   | 30  | 23   | 29  | 34   |   |  |
| 2045-511A  | Peninsula High Capacity Transit Extension - Alt 3                                     | Multi-jurisdictional | Transit               | 88   | 55  | 45               | 53   | 40  | 52   | 35   | 48  | 30   | 47  | 59   |   |  |
| 2045-511A1 | Peninsula High Capacity Transit Extension - Alt 3 (Future)                            | Multi-jurisdictional | Transit               | 43   | 20  | 18               | 21   | 11  | 21   | 13   | 19  | 23   | 18  | 28   |   |  |
| 2045-511B  | Peninsula High Capacity Transit Extension - Alt 6                                     | Multi-jurisdictional | Transit               | 93   | 66  | 55               | 61   | 45  | 67   | 48   | 62  | 17   | 47  | 81   |   |  |
| 2045-511B1 | Peninsula High Capacity Transit Extension - Alt 6 (Future)                            | Multi-jurisdictional | Transit               | 16   | 12  | 10               | 10   | 6   | 11   | 9  | 13  | 2  | 7   | 12   |   |  |
| 2045-513   | Southside Ferry Service   | Multi-jurisdictional | Transit               | 31   | 21  | 24               | 17   | 15  | 23   | 17   | 21  | 3  | 10  | 25   |   |  |
| 2045-514   | Tide Light Rail Expansion - Hampton Veterans Center                                   | Multi-jurisdictional | Transit               | 101  | 60  | 50               | 50   | 41  | 52   | 46   | 61  | 44   | 41  | 59   |   |  |
| 2045-515   | Tide Light Rail Expansion - Williamsburg to Hampton/ VA Beach                         | Multi-jurisdictional | Transit               | 227  | 112   | 81               | 117  | 94  | 116  | 85   | 99  | 85   | 113   | 144  |   |  |
| 2045-516   | High Capacity Transit Extension to Greenbrier Area                                    | Chesapeake           | Transit               | 56   | 30  | 30               | 28   | 24  | 32   | 24   | 24  | 8  | 24  | 35   |   |  |
| 2045-517   | Elizabeth River Ferry Expansion   | Norfolk              | Transit               | 44   | 14  | 23               | 13   | 16  | 22   | 16   | 16  | 6  | 17  | 18   |   |  |
| 2045-518   | Naval Station Norfolk Transit Extension   | Norfolk              | Transit               | 76   | 43  | 43               | 32   | 32  | 42   | 24   | 40  | 27   | 31  | 51   |   |  |
| 2045-519   | Tide Light Rail Expansion - Suffolk   | Suffolk              | Transit               | 102  | 72  | 60               | 67   | 50  | 58   | 58   | 66  | 21   | 51  | 75   |   |  |
| 2045-701   | Bike Lanes on Indian River Rd   | Multi-jurisdictional | Active Transportation | 36   | 25  | 23               | 23   | 15  | 21   | 17   | 22  | 8  | 18  | 26   |   |  |
| 2045-702   | Bike Lanes on Indian River Rd   | Multi-jurisdictional | Active Transportation | 37   | 26  | 22               | 24   | 16  | 22   | 18   | 23  | 8  | 18  | 27   |   |  |
| 2045-703   | Bike Path Along Shore Dr/Hampton Blvd/Little Creek Rd                                 | Multi-jurisdictional | Active Transportation | 68   | 37  | 30               | 28   | 32  | 34   | 22   | 33  | 27   | 34  | 32   |   |  |
| 2045-704   | Birthplace of America Trail   | Multi-jurisdictional | Active Transportation | 167  | 67  | 59               | 69   | 87  | 84   | 65   | 63  | 45   | 74  | 79   |   |  |
| 2045-707   | South Hampton Roads Trail: Complete Trail (Suffolk to VB)                             | Multi-jurisdictional | Active Transportation | 274  | 121   | 123              | 117  | 117   | 157  | 108  | 120   | 61   | 117   | 136  |   |  |
| 2045-708   | South Hampton Roads Trail: Virginia Beach (Bike Trails/Lanes Along Light Rail Tracks) | Multi-jurisdictional | Active Transportation | 100  | 33  | 33               | 36   | 50  | 56   | 36   | 32  | 37   | 38  | 26   |   |  |

## APPENDIX B: ENVIRONMENTAL JUSTICE OVERLAY ANALYSIS WITH 2045 LRTP CANDIDATE PROJECTS CONTINUED

| 2045 ID  | 2045 LRTP CANDIDATE PROJECTS                                    | LOCALITY             | PROJECT CATEGORY      | TOTAL BLOCK GROUPS ASSOCIATED WITH PROJECT | TOTAL BLOCK GROUPS WITH 5 OR MORE ENVIRONMENTAL JUSTICE COMMUNITIES | NUMBER OF BLOCK GROUPS WITH CARELESS HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH DISABLED POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH ELDERLY POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH FEMALE HEAD OF HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH HOUSEHOLDS RECEIVED FOOD STAMPS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH LIMITED ENGLISH PROFICIENCY POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH LOW-INCOME HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH MINORITY POPULATIONS ABOVE REGIONAL AVERAGE |
|----------|---|----------------------|-----------------------|--|---|--|---|--|--|--|--|--|--|---|
|          |   |                      |                       |  |   |  |   |  |  |  |  |  |  |   |
| 2045-709 | Southside Bike Trail  | Multi-jurisdictional | Active Transportation | 184  | 73  | 77   | 78  | 91   | 108  | 67   | 72   | 47   | 70   | 72  |
| 2045-711 | VA/NC Dismal Swamp Bike/Walk Trail Connection                   | Multi-jurisdictional | Active Transportation | 2  | 1   | 1  | 1   | 2  | 0  | 1  | 0  | 0  | 0  | 1   |
| 2045-712 | Battlefield Blvd  | Chesapeake           | Active Transportation | 14   | 7   | 4  | 7   | 7  | 9  | 5  | 5  | 4  | 8  | 9   |
| 2045-713 | Bike lane along Great Bridge Blvd                               | Chesapeake           | Active Transportation | 24   | 8   | 7  | 4   | 6  | 12   | 9  | 6  | 8  | 12   | 13  |
| 2045-714 | Bike lane on Waters Rd  | Chesapeake           | Active Transportation | 8  | 0   | 0  | 0   | 2  | 2  | 3  | 0  | 3  | 4  | 1   |
| 2045-715 | Construct multi-use path along Etheridge Manor Blvd/ Hanbury Rd | Chesapeake           | Active Transportation | 20   | 1   | 0  | 3   | 6  | 3  | 3  | 1  | 4  | 10   | 0   |
| 2045-716 | Construct multi-use path along George Washington Hwy            | Chesapeake           | Active Transportation | 9  | 1   | 1  | 2   | 2  | 0  | 1  | 0  | 1  | 4  | 3   |
| 2045-717 | Construct multi-use path along Greenbrier Pkwy                  | Chesapeake           | Active Transportation | 15   | 3   | 5  | 4   | 6  | 7  | 4  | 0  | 4  | 6  | 5   |
| 2045-718 | Construct multi-use path along Shell Rd/Canal Rd                | Chesapeake           | Active Transportation | 17   | 11  | 10   | 10  | 7  | 9  | 11   | 11   | 6  | 8  | 10  |
| 2045-719 | Construct multi-use path trail along Dismal Swamp Canal         | Chesapeake           | Active Transportation | 2  | 0   | 0  | 2   | 0  | 0  | 1  | 0  | 0  | 0  | 1   |
| 2045-720 | South Hampton Roads Trail: Western Branch Phase 1               | Chesapeake           | Active Transportation | 23   | 8   | 4  | 9   | 12   | 11   | 9  | 6  | 4  | 12   | 14  |
| 2045-721 | South Hampton Roads Trail: Western Branch Phase 2               | Chesapeake           | Active Transportation | 9  | 2   | 0  | 3   | 4  | 4  | 3  | 1  | 2  | 4  | 5   |
| 2045-722 | Hickory Fork Rd   | Gloucester           | Active Transportation | 5  | 1   | 0  | 1   | 4  | 2  | 1  | 1  | 1  | 3  | 0   |
| 2045-723 | Multi-Use Path along Roaring Spring Rd                          | Gloucester           | Active Transportation | 6  | 1   | 2  | 2   | 5  | 4  | 1  | 1  | 0  | 3  | 0   |
| 2045-724 | Five Mile Loop Trail  | Hampton              | Active Transportation | 16   | 6   | 7  | 10  | 9  | 11   | 5  | 6  | 3  | 4  | 9   |
| 2045-725 | Bike Lanes on Centerville Rd that connect to Capital Trail      | James City County    | Active Transportation | 5  | 0   | 0  | 0   | 4  | 1  | 1  | 0  | 0  | 2  | 0   |
| 2045-726 | Monticello Ave Bike Lane  | James City County    | Active Transportation | 9  | 0   | 1  | 1   | 8  | 2  | 1  | 0  | 1  | 3  | 0   |
| 2045-727 | 16th St Revitalization  | Newport News         | Active Transportation | 24   | 18  | 20   | 15  | 13   | 18   | 15   | 19   | 1  | 11   | 22  |
| 2045-728 | Multi-use path on 25th St                                       | Newport News         | Active Transportation | 30   | 23  | 24   | 19  | 15   | 22   | 17   | 24   | 2  | 14   | 28  |
| 2045-729 | Multi-use path on 26th St                                       | Newport News         | Active Transportation | 30   | 23  | 24   | 19  | 15   | 22   | 17   | 24   | 2  | 14   | 28  |
| 2045-730 | Multi-use path on 27th St                                       | Newport News         | Active Transportation | 30   | 23  | 24   | 19  | 15   | 22   | 17   | 24   | 2  | 14   | 28  |
| 2045-731 | Multi-use path on 28th St                                       | Newport News         | Active Transportation | 31   | 24  | 25   | 20  | 15   | 23   | 17   | 25   | 2  | 15   | 29  |
| 2045-732 | Bike Lanes on Granby St   | Norfolk              | Active Transportation | 104  | 60  | 67   | 44  | 35   | 66   | 43   | 60   | 32   | 44   | 62  |

## APPENDIX B: ENVIRONMENTAL JUSTICE OVERLAY ANALYSIS WITH 2045 LRTP CANDIDATE PROJECTS CONTINUED

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|----------|---|----------------|-----------------------|--|---|---|---|---|--|--|--|--|----|--|----|---|
|          |   |                |                       |  |   | WITH CARLESS HOUSEHOLDS ABOVE REGIONAL AVERAGE                        | NUMBER OF BLOCK GROUPS WITH DISABLED POPULATIONS ABOVE REGIONAL AVERAGE | WITH FEMALE HEAD OF HOUSEHOLDS ABOVE REGIONAL AVERAGE                   | NUMBER OF BLOCK GROUPS WITH HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE ABOVE REGIONAL AVERAGE | WITH HOUSEHOLDS RECEIVED FOOD STAMPS ABOVE REGIONAL AVERAGE                  | NUMBER OF BLOCK GROUPS WITH HOUSEHOLDS RECEIVED FOOD STAMPS ABOVE REGIONAL AVERAGE | WITH MINORITY POPULATIONS ABOVE REGIONAL AVERAGE   |    |  |    |   |
| 2045-733 | Bike/ pedestrian Access to Naval Station Norfolk via Hampton Blvd                       | Norfolk        | Active Transportation | 13   | 4   | 4   | 4   | 4   | 6  | 2  | 5  | 2  | 6  | 6  | 6  | 6   |
| 2045-734 | Extend Elizabeth River Trail to Naval Station Norfolk                                   | Norfolk        | Active Transportation | 13   | 4   | 4   | 4   | 4   | 6  | 2  | 5  | 2  | 6  | 6  | 6  | 6   |
| 2045-735 | Military Hwy Bike Access  | Norfolk        | Active Transportation | 28   | 15  | 10  | 16  | 12  | 10   | 10   | 12   | 15   | 10 | 21   | 21 | 21  |
| 2045-736 | Bike Path on Hunts Neck Rd (Rte 172)  | Poquoson       | Active Transportation | 5  | 0   | 0   | 2   | 4   | 2  | 0  | 0  | 0  | 0  | 2  | 0  | 0   |
| 2045-737 | Bike lanes on Churchland Blvd   | Portsmouth     | Active Transportation | 24   | 8   | 4   | 9   | 13  | 9  | 10   | 7  | 4  | 12 | 16   | 16 | 16  |
| 2045-738 | Complete High St  | Portsmouth     | Active Transportation | 30   | 21  | 23  | 21  | 13  | 23   | 17   | 24   | 3  | 15 | 23   | 23 | 23  |
| 2045-739 | Portsmouth Rail-to-Trail  | Portsmouth     | Active Transportation | 21   | 7   | 4   | 7   | 12  | 8  | 8  | 7  | 4  | 10 | 13   | 13 | 13  |
| 2045-740 | Twin Pines Rd Shared Use Path   | Portsmouth     | Active Transportation | 13   | 5   | 3   | 7   | 4   | 5  | 6  | 6  | 2  | 6  | 11   | 11 | 11  |
| 2045-741 | Rail-to-Trail (Suffolk Seaboard Coastline Trail, part of the South Hampton Roads Trail) | Suffolk        | Active Transportation | 34   | 20  | 17  | 15  | 12  | 16   | 22   | 18   | 5  | 18 | 22   | 22 | 22  |
| 2045-742 | Greenwich Rd conversion to Shared Use Path  | Virginia Beach | Active Transportation | 28   | 13  | 9   | 13  | 13  | 16   | 9  | 11   | 15   | 11 | 15   | 15 | 15  |
| 2045-743 | Level Green Powerline Corridor  | Virginia Beach | Active Transportation | 25   | 13  | 9   | 16  | 16  | 13   | 10   | 8  | 12   | 12 | 13   | 13 | 13  |
| 2045-744 | Nimmo Trail   | Virginia Beach | Active Transportation | 14   | 0   | 0   | 2   | 4   | 1  | 2  | 0  | 3  | 3  | 0  | 0  | 0   |
| 2045-745 | Northampton Blvd Right-of-Way   | Virginia Beach | Active Transportation | 25   | 6   | 6   | 5   | 13  | 16   | 2  | 3  | 8  | 12 | 5  | 5  | 5   |
| 2045-746 | Scarborough Bridge  | Virginia Beach | Active Transportation | 24   | 10  | 1   | 12  | 7   | 7  | 11   | 9  | 14   | 11 | 11   | 11 | 11  |
| 2045-747 | Seaboard Rd Shared Use Path and land acquisition  | Virginia Beach | Active Transportation | 11   | 0   | 0   | 2   | 2   | 1  | 2  | 0  | 1  | 6  | 0  | 0  | 0   |
| 2045-748 | Thalia Creek Greenway - Phase IV  | Virginia Beach | Active Transportation | 24   | 7   | 8   | 5   | 13  | 15   | 7  | 5  | 9  | 11 | 4  | 4  | 4   |
| 2045-749 | Thalia Creek Greenway - Phase V   | Virginia Beach | Active Transportation | 24   | 6   | 8   | 5   | 14  | 13   | 8  | 5  | 9  | 9  | 2  | 2  | 2   |
| 2045-750 | Thalia Creek Greenway - Phase VI  | Virginia Beach | Active Transportation | 27   | 7   | 8   | 6   | 14  | 16   | 7  | 5  | 10   | 13 | 5  | 5  | 5   |
| 2045-751 | Virginia Beach Trail  | Virginia Beach | Active Transportation | 91   | 29  | 28  | 32  | 44  | 51   | 31   | 27   | 35   | 36 | 23   | 23 | 23  |
| 2045-752 | Walkway at Virginia Beach Town Center Over I-264  | Virginia Beach | Active Transportation | 33   | 11  | 9   | 10  | 16  | 19   | 11   | 7  | 13   | 16 | 7  | 7  | 7   |
| 2045-753 | Carter's Grove Country Rd Shared Use Path   | Williamsburg   | Active Transportation | 11   | 3   | 3   | 4   | 6   | 4  | 5  | 4  | 5  | 4  | 4  | 4  | 4   |
| 2045-754 | Monticello Ave Shared-Use Path  | Williamsburg   | Active Transportation | 10   | 2   | 6   | 3   | 6   | 6  | 2  | 3  | 3  | 4  | 1  | 1  | 1   |
| 2045-755 | Strawberry Plains Rd Shared Use Path  | Williamsburg   | Active Transportation | 11   | 0   | 4   | 3   | 9   | 6  | 0  | 0  | 2  | 3  | 0  | 0  | 0   |

## APPENDIX B: ENVIRONMENTAL JUSTICE OVERLAY ANALYSIS WITH 2045 LRTP CANDIDATE PROJECTS CONTINUED

| 2045 ID  | 2045 LRTP CANDIDATE PROJECTS            | LOCALITY    | PROJECT CATEGORY      | TOTAL BLOCK GROUPS ASSOCIATED WITH PROJECT | NUMBER OF BLOCK GROUPS WITH MINORITY POPULATIONS ABOVE REGIONAL AVERAGE                    |  |   |  |  |   |   |   |   |
|----------|---|-------------|-----------------------|--|--|--|---|--|--|---|---|---|---|
|          |   |             |                       |  | NUMBER OF BLOCK GROUPS WITH LIMITED ENGLISH PROFICIENCY POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH HOUSEHOLDS RECEIVED FOOD STAMPS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH HOUSEHOLD RECEIVING CASH PUBLIC ASSISTANCE ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH FEMALE HEAD OF HOUSEHOLDS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH ELDERLY POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH DISABLED POPULATIONS ABOVE REGIONAL AVERAGE | NUMBER OF BLOCK GROUPS WITH CARLESS HOUSEHOLDS ABOVE REGIONAL AVERAGE | TOTAL BLOCK GROUPS WITH 5 OR MORE ENVIRONMENTAL JUSTICE COMMUNITIES |   |
| 2045-756 | Penniman Rd (Sidewalk / Multi Use Path) | York County | Active Transportation | 8  | 2  | 2  | 1   | 1  | 2  | 3   | 0   | 4   | 3 |
| 2045-757 | Shared Use Path - Yorktown Road         | York County | Active Transportation | 10   | 0  | 0  | 0   | 7  | 1  | 0   | 0   | 0   | 0 |
| 2045-758 | Shared Use Path Along Yorktown Rd       | York County | Active Transportation | 12   | 1  | 0  | 2   | 9  | 2  | 1   | 1   | 0   | 7 |
| 2045-759 | Victory Boulevard Shared Use Path       | York County | Active Transportation | 12   | 0  | 0  | 3   | 8  | 3  | 1   | 1   | 0   | 4 |

## APPENDIX C: 2045 LRTP CANDIDATE PROJECTS ENVIRONMENTAL JUSTICE IMPACT SCORE

Appendix C summarizes the Environmental Justice Impact Score and the highly affected Environmental Justice Communities for each 2045 LRTP candidate project. If more than 50% of the Block Groups within a candidate project buffer are comprised of an Environmental Justice Community, this was noted as being highly affected by the potential project. The Environmental Justice Impact Score represents the sum of the nine Environmental Justice Indicators that are highly affected by the candidate project. Environmental Justice Impact Scores range from a high of 9 to a low of 0.



## APPENDIX C: 2045 LRTP CANDIDATE PROJECTS ENVIRONMENTAL JUSTICE IMPACT SCORE

| 2045 ID   | 2045 LRTP CANDIDATE PROJECTS                                | LOCALITY             | PROJECT CATEGORY | ENVIRONMENTAL JUSTICE IMPACT SCORE | CARLESS HOUSEHOLDS | DISABLED POPULATIONS | ELDERLY POPULATIONS | FEMALE HEAD OF HOUSEHOLDS | HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE | HOUSEHOLDS RECEIVED FOOD STAMPS | LIMITED ENGLISH PROFICIENCY POPULATIONS | LOW-INCOME HOUSEHOLDS | MINORITY POPULATIONS |
|-----------|---|----------------------|------------------|------------------------------------|--------------------|----------------------|---------------------|---------------------------|---|---------------------------------|---|-----------------------|----------------------|
| 2045-401  | I-564 Connector and VA-164 Connector                        | Multi-jurisdictional | Bridge/Tunnel    | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-402  | I-664/MMMBT   | Multi-jurisdictional | Bridge/Tunnel    | 5                                  |                    | ●                    | ●                   | ●                         |   | ●                               |   |                       | ●                    |
| 2045-403  | I-664/MMMBT   | Multi-jurisdictional | Bridge/Tunnel    | 5                                  | ●                  | ●                    |                     | ●                         |   | ●                               |   |                       | ●                    |
| 2045-404  | James River Bridge  | Multi-jurisdictional | Bridge/Tunnel    | 2                                  |                    |                      | ●                   | ●                         |   |                                 |   |                       |                      |
| 2045-405  | Sidney Bertram Hazelwood Sr. Bridge                         | Multi-jurisdictional | Bridge/Tunnel    | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |
| 2045-406  | I-64 Southside Widening Including High Rise Bridge Phase II | Multi-jurisdictional | Bridge/Tunnel    | 2                                  |                    |                      | ●                   |                           |   |                                 |   |                       | ●                    |
| 2045-407  | I-64 Bridge over Hampton River - EB Only                    | Hampton              | Bridge/Tunnel    | 5                                  |                    |                      | ●                   | ●                         |   | ●                               |   | ●                     | ●                    |
| 2045-408  | Kings Hwy Bridge  | Suffolk              | Bridge/Tunnel    | 2                                  |                    |                      | ●                   |                           |   |                                 |   | ●                     |                      |
| 2045-409  | Mills Godwin Bridge   | Suffolk              | Bridge/Tunnel    | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |
| 2045-101  | Denbigh Blvd (Rte 173)                                      | Multi-jurisdictional | Highway          | 3                                  |                    |                      | ●                   |                           |   |                                 | ●                                       | ●                     |                      |
| 2045-102  | Denbigh Blvd (Rte 173)                                      | Multi-jurisdictional | Highway          | 2                                  |                    |                      |                     |                           |   |                                 | ●                                       | ●                     |                      |
| 2045-103  | Godwin Blvd - Phase 2                                       | Multi-jurisdictional | Highway          | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |
| 2045-104  | I-264 Widening  | Multi-jurisdictional | Highway          | 1                                  |                    |                      |                     | ●                         |   |                                 |   |                       |                      |
| 2045-108  | I-64 Express Lanes Network                                  | Multi-jurisdictional | Highway          | 2                                  |                    |                      |                     | ●                         |   |                                 |   |                       | ●                    |
| 2045-108  | I-64 Express Lanes Network - PT Shoulders along Segment 1   | Multi-jurisdictional | Highway          | 3                                  |                    |                      |                     | ●                         |   | ●                               |   |                       | ●                    |
| 2045-108A | I-64 Express Lanes Network - Segment 4                      | Multi-jurisdictional | Highway          | 4                                  |                    | ●                    | ●                   | ●                         |   |                                 |   |                       | ●                    |
| 2045-109  | I-664 Widening  | Multi-jurisdictional | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-110  | I-664 Widening  | Multi-jurisdictional | Highway          | 8                                  | ●                  | ●                    | ●                   | ●                         | ●   | ●                               |   | ●                     | ●                    |
| 2045-111  | Mooretown Rd Extension                                      | Multi-jurisdictional | Highway          | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |
| 2045-112  | Newtown Road  | Multi-jurisdictional | Highway          | 5                                  |                    | ●                    |                     |                           | ●   | ●                               | ●                                       |                       | ●                    |
| 2045-113  | Route 199   | Multi-jurisdictional | Highway          | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |
| 2045-114  | Greenbelt - Phase I   | Virginia Beach       | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-114A | Greenbelt - Phase II  | Virginia Beach       | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-116  | US 460/58/13 Connector                                      | Multi-jurisdictional | Highway          | 3                                  |                    |                      | ●                   |                           |   |                                 |   | ●                     | ●                    |
| 2045-117  | US Route 460  | Multi-jurisdictional | Highway          | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |
| 2045-118  | US Route 60   | Multi-jurisdictional | Highway          | 6                                  |                    | ●                    |                     |                           |   | ●                               | ●                                       | ●                     | ●                    |
| 2045-119  | VA-164 Widening   | Multi-jurisdictional | Highway          | 2                                  |                    |                      |                     |                           | ●   |                                 |   |                       | ●                    |
| 2045-120  | Victory Blvd (Rte 171)                                      | Multi-jurisdictional | Highway          | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |
| 2045-121  | Victory Blvd (Rte 171)                                      | Multi-jurisdictional | Highway          | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |
| 2045-122  | Battlefield Blvd  | Chesapeake           | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-123  | Ballahack Rd  | Chesapeake           | Highway          | 2                                  |                    | ●                    |                     |                           |   |                                 |   |                       | ●                    |
| 2045-124  | Bruce Rd  | Chesapeake           | Highway          | 2                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |

## APPENDIX C: 2045 LRTP CANDIDATE PROJECTS ENVIRONMENTAL JUSTICE IMPACT SCORE CONTINUED

| 2045 ID  | 2045 LRTP CANDIDATE PROJECTS                 | LOCALITY             | PROJECT CATEGORY | ENVIRONMENTAL JUSTICE IMPACT SCORE | CARLESS HOUSEHOLDS | DISABLED POPULATIONS | ELDERLY POPULATIONS | FEMALE HEAD OF HOUSEHOLDS | HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE | HOUSEHOLDS RECEIVED FOOD STAMPS | LIMITED ENGLISH PROFICIENCY POPULATIONS | LOW-INCOME HOUSEHOLDS | MINORITY POPULATIONS |
|----------|--|----------------------|------------------|------------------------------------|--------------------|----------------------|---------------------|---------------------------|---|---------------------------------|---|-----------------------|----------------------|
| 2045-125 | Cedar Rd                                     | Chesapeake           | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-126 | Centerville Tnpk                             | Chesapeake           | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-127 | Centerville Tnpk - Phase I                   | Chesapeake           | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-128 | Centerville Tnpk - Phase II                  | Chesapeake           | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-129 | Chesapeake Expressway Widening               | Chesapeake           | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-130 | Chesapeake Regional Airport Access Rd        | Chesapeake           | Highway          | 4                                  |                    | ●                    | ●                   |                           |   |                                 |   | ●                     | ●                    |
| 2045-131 | Eden Way Extended                            | Chesapeake           | Highway          | 1                                  |                    |                      |                     | ●                         |   |                                 |   |                       |                      |
| 2045-132 | Elbow Rd                                     | Chesapeake           | Highway          | 1                                  |                    |                      |                     |                           |   |                                 |   | ●                     |                      |
| 2045-133 | Elbow Rd - Phase 1 West - existing alignment | Chesapeake           | Highway          | 1                                  |                    |                      |                     |                           |   |                                 |   | ●                     |                      |
| 2045-134 | Elbow Rd - Phase 2 East - existing alignment | Chesapeake           | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-135 | G.W. Hwy (US 17)                             | Chesapeake           | Highway          | 5                                  | ●                  | ●                    |                     |                           | ●   | ●                               |   |                       | ●                    |
| 2045-136 | Green Tree Rd Extension                      | Chesapeake           | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-137 | Greenbrier Pkwy                              | Chesapeake           | Highway          | 3                                  |                    |                      | ●                   | ●                         |   |                                 |   |                       | ●                    |
| 2045-138 | Hanbury Rd                                   | Chesapeake           | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-139 | I-664 Widening                               | Chesapeake           | Highway          | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |
| 2045-140 | I-87   | Chesapeake           | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-141 | Johnstown Rd - Phase 1                       | Chesapeake           | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-142 | Johnstown Rd - Phase 2                       | Chesapeake           | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-143 | Johnstown Rd - Phase 3                       | Chesapeake           | Highway          | 1                                  |                    |                      |                     |                           |   |                                 |   | ●                     |                      |
| 2045-144 | Military Hwy                                 | Chesapeake           | Highway          | 4                                  |                    | ●                    | ●                   | ●                         |   |                                 |   |                       | ●                    |
| 2045-145 | Military Hwy                                 | Chesapeake           | Highway          | 9                                  | ●                  | ●                    | ●                   | ●                         | ●   | ●                               | ●                                       | ●                     | ●                    |
| 2045-146 | Military Hwy                                 | Chesapeake           | Highway          | 3                                  |                    | ●                    |                     | ●                         |   |                                 |   |                       | ●                    |
| 2045-147 | Mt Pleasant Rd, Phase 1                      | Chesapeake           | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-148 | Mt Pleasant Rd, Phase 2                      | Chesapeake           | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-149 | Volvo Pkwy Extended                          | Chesapeake           | Highway          | 3                                  |                    |                      |                     | ●                         |   |                                 |   | ●                     | ●                    |
| 2045-150 | Volvo Pkwy Widening                          | Chesapeake           | Highway          | 1                                  |                    |                      |                     | ●                         |   |                                 |   |                       |                      |
| 2045-151 | G.W. Mem Hwy (US 17)                         | Gloucester           | Highway          | 3                                  |                    | ●                    | ●                   | ●                         |   |                                 |   |                       |                      |
| 2045-152 | G.W. Mem Hwy (US 17)                         | Gloucester           | Highway          | 4                                  |                    | ●                    | ●                   | ●                         |   |                                 |   | ●                     |                      |
| 2045-153 | Proposed parallel facility for Route 17      | Gloucester           | Highway          | 2                                  |                    | ●                    | ●                   |                           |   |                                 |   |                       |                      |
| 2045-154 | Coliseum Dr Extension B                      | Hampton              | Highway          | 2                                  |                    |                      |                     | ●                         |   |                                 |   |                       | ●                    |
| 2045-155 | Little Back River Rd                         | Hampton              | Highway          | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |
| 2045-156 | Benns Church Blvd                            | Isle of Wight County | Highway          | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |

## APPENDIX C: 2045 LRTP CANDIDATE PROJECTS ENVIRONMENTAL JUSTICE IMPACT SCORE CONTINUED

| 2045 ID  | 2045 LRTP CANDIDATE PROJECTS                      | LOCALITY             | PROJECT CATEGORY | ENVIRONMENTAL JUSTICE IMPACT SCORE | CARLESS HOUSEHOLDS | DISABLED POPULATIONS | ELDERLY POPULATIONS | FEMALE HEAD OF HOUSEHOLDS | HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE | HOUSEHOLDS RECEIVED FOOD STAMPS | LIMITED ENGLISH PROFICIENCY POPULATIONS | LOW-INCOME HOUSEHOLDS | MINORITY POPULATIONS |
|----------|---|----------------------|------------------|------------------------------------|--------------------|----------------------|---------------------|---------------------------|---|---------------------------------|---|-----------------------|----------------------|
| 2045-157 | US 17/Carrollton Blvd (part of Route 17 corridor) | Isle of Wight County | Highway          | 2                                  |                    |                      | ●                   |                           |   |                                 |   | ●                     |                      |
| 2045-158 | US 258  | Isle of Wight County | Highway          | 4                                  |                    | ●                    | ●                   | ●                         |   |                                 |   | ●                     |                      |
| 2045-159 | Centerville Rd                                    | James City County    | Highway          | 5                                  |                    | ●                    | ●                   | ●                         |   |                                 | ●                                       | ●                     |                      |
| 2045-160 | I-64 Peninsula Widening Segment 4                 | Multi-jurisdictional | Highway          | 2                                  |                    |                      | ●                   |                           |   |                                 |   | ●                     |                      |
| 2045-161 | Longhill Rd (Phase 2)                             | James City County    | Highway          | 5                                  | ●                  |                      | ●                   | ●                         |   |                                 | ●                                       | ●                     |                      |
| 2045-162 | Longhill Rd (Phase 3)                             | James City County    | Highway          | 4                                  |                    | ●                    | ●                   |                           |   |                                 | ●                                       | ●                     |                      |
| 2045-163 | Bland Blvd Widening                               | Newport News         | Highway          | 4                                  |                    | ●                    |                     |                           |   |                                 | ●                                       |                       | ●                    |
| 2045-164 | Briarfield Rd                                     | Newport News         | Highway          | 7                                  | ●                  | ●                    | ●                   | ●                         |   | ●                               |   | ●                     | ●                    |
| 2045-165 | Chestnut Ave                                      | Newport News         | Highway          | 8                                  | ●                  | ●                    | ●                   | ●                         | ●   | ●                               |   | ●                     | ●                    |
| 2045-166 | Denbigh Blvd Widening Phase I                     | Newport News         | Highway          | 7                                  | ●                  | ●                    |                     |                           |   | ●                               | ●                                       | ●                     | ●                    |
| 2045-167 | Denbigh Blvd Widening Phase II                    | Newport News         | Highway          | 7                                  | ●                  | ●                    |                     |                           |   | ●                               | ●                                       | ●                     | ●                    |
| 2045-168 | Harpersville Rd Widening                          | Newport News         | Highway          | 3                                  |                    | ●                    | ●                   |                           |   |                                 |   | ●                     |                      |
| 2045-169 | Harpersville Rd Widening                          | Newport News         | Highway          | 2                                  |                    |                      |                     |                           |   |                                 | ●                                       |                       |                      |
| 2045-170 | J. Clyde Morris Blvd Widening                     | Newport News         | Highway          | 3                                  |                    | ●                    |                     |                           |   |                                 |   | ●                     |                      |
| 2045-171 | J. Clyde Morris Blvd / G.W. Hwy (US 17) Widening  | Newport News         | Highway          | 3                                  |                    | ●                    |                     |                           |   |                                 | ●                                       |                       | ●                    |
| 2045-173 | Jefferson Ave Widening Phase I                    | Newport News         | Highway          | 2                                  |                    |                      |                     |                           | ●   |                                 |   |                       | ●                    |
| 2045-174 | Jefferson Ave Widening Phase II                   | Newport News         | Highway          | 2                                  |                    |                      |                     |                           |   | ●                               |   |                       | ●                    |
| 2045-175 | Liberty Pkwy Extension                            | Newport News         | Highway          | 3                                  |                    | ●                    |                     |                           | ●   |                                 |   | ●                     |                      |
| 2045-176 | Lucas Creek Rd Extension                          | Newport News         | Highway          | 5                                  |                    | ●                    |                     |                           | ●   |                                 | ●                                       | ●                     | ●                    |
| 2045-178 | Oyster Point Rd Widening                          | Newport News         | Highway          | 3                                  |                    |                      |                     |                           | ●   |                                 | ●                                       |                       | ●                    |
| 2045-179 | Oyster Point Rd Phase I Widening                  | Newport News         | Highway          | 2                                  |                    |                      |                     |                           | ●   |                                 | ●                                       |                       |                      |
| 2045-180 | Oyster Point Rd Phase II Widening                 | Newport News         | Highway          | 2                                  |                    | ●                    |                     |                           |   |                                 | ●                                       |                       |                      |
| 2045-181 | Oyster Point Rd Phase III Widening                | Newport News         | Highway          | 3                                  |                    | ●                    |                     |                           | ●   |                                 | ●                                       |                       |                      |
| 2045-182 | Patrick Henry Dr/Siemens Way Widening             | Newport News         | Highway          | 3                                  |                    |                      |                     |                           | ●   |                                 | ●                                       |                       | ●                    |
| 2045-183 | Saunders Rd Widening                              | Newport News         | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-184 | Turnberry Blvd Extension                          | Newport News         | Highway          | 4                                  |                    |                      |                     |                           | ●   |                                 | ●                                       | ●                     | ●                    |
| 2045-186 | Warwick Blvd Widening Phase I                     | Newport News         | Highway          | 1                                  |                    | ●                    |                     |                           |   |                                 |   |                       |                      |
| 2045-187 | Warwick Blvd Widening Phase II                    | Newport News         | Highway          | 4                                  |                    | ●                    | ●                   |                           |   |                                 | ●                                       |                       | ●                    |
| 2045-188 | Warwick Blvd Widening Phase III                   | Newport News         | Highway          | 5                                  |                    | ●                    |                     |                           | ●   |                                 | ●                                       | ●                     | ●                    |
| 2045-189 | Warwick Blvd Widening Phase IV                    | Newport News         | Highway          | 5                                  |                    | ●                    |                     |                           | ●   |                                 | ●                                       | ●                     | ●                    |
| 2045-190 | Warwick Blvd Widening Phase V                     | Newport News         | Highway          | 4                                  |                    |                      |                     |                           | ●   |                                 | ●                                       | ●                     | ●                    |
| 2045-191 | Warwick Blvd Widening Phase VI                    | Newport News         | Highway          | 5                                  |                    | ●                    |                     |                           | ●   |                                 | ●                                       | ●                     | ●                    |

## APPENDIX C: 2045 LRTP CANDIDATE PROJECTS ENVIRONMENTAL JUSTICE IMPACT SCORE CONTINUED

| 2045 ID  | 2045 LRTP CANDIDATE PROJECTS       | LOCALITY       | PROJECT CATEGORY | ENVIRONMENTAL JUSTICE IMPACT SCORE | CARLESS HOUSEHOLDS | DISABLED POPULATIONS | ELDERLY POPULATIONS | FEMALE HEAD OF HOUSEHOLDS | HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE | HOUSEHOLDS RECEIVED FOOD STAMPS | LIMITED ENGLISH PROFICIENCY POPULATIONS | LOW-INCOME HOUSEHOLDS | MINORITY POPULATIONS |
|----------|------------------------------------|----------------|------------------|------------------------------------|--------------------|----------------------|---------------------|---------------------------|---|---------------------------------|---|-----------------------|----------------------|
| 2045-192 | Ballentine Blvd                    | Norfolk        | Highway          | 5                                  | ●                  | ●                    |                     | ●                         |   | ●                               |   |                       | ●                    |
| 2045-193 | Brambleton Ave                     | Norfolk        | Highway          | 5                                  | ●                  | ●                    |                     | ●                         |   | ●                               |   |                       | ●                    |
| 2045-195 | Little Creek Rd                    | Norfolk        | Highway          | 4                                  | ●                  |                      | ●                   |                           |   | ●                               |   | ●                     |                      |
| 2045-196 | Monticello Ave                     | Norfolk        | Highway          | 5                                  | ●                  | ●                    |                     | ●                         |   | ●                               |   |                       | ●                    |
| 2045-197 | Newtown Rd                         | Norfolk        | Highway          | 5                                  |                    | ●                    |                     | ●                         |   | ●                               | ●                                       |                       | ●                    |
| 2045-198 | Tidewater Dr                       | Norfolk        | Highway          | 5                                  | ●                  | ●                    |                     | ●                         |   | ●                               |   |                       | ●                    |
| 2045-199 | Virginia Beach Blvd                | Norfolk        | Highway          | 5                                  |                    | ●                    |                     | ●                         |   | ●                               | ●                                       |                       | ●                    |
| 2045-200 | Elm Ave Realignment Project        | Portsmouth     | Highway          | 6                                  | ●                  | ●                    |                     | ●                         | ●   | ●                               |   |                       | ●                    |
| 2045-201 | Harper Ave                         | Portsmouth     | Highway          | 4                                  | ●                  |                      | ●                   | ●                         |   | ●                               |   |                       |                      |
| 2045-202 | Battery Park Rd                    | Smithfield     | Highway          | 4                                  |                    |                      | ●                   | ●                         | ●   |                                 |   | ●                     |                      |
| 2045-203 | S. Church St                       | Smithfield     | Highway          | 5                                  |                    |                      | ●                   | ●                         | ●   | ●                               |   | ●                     |                      |
| 2045-204 | Bridge Rd (US 17)                  | Suffolk        | Highway          | 1                                  |                    |                      |                     |                           |   |                                 |   |                       | ●                    |
| 2045-205 | Bridge Rd (US 17)                  | Suffolk        | Highway          | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |
| 2045-207 | Godwin Blvd                        | Suffolk        | Highway          | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |
| 2045-208 | Godwin Blvd - Phase 1              | Suffolk        | Highway          | 2                                  |                    |                      | ●                   |                           |   |                                 |   | ●                     |                      |
| 2045-209 | Nansemond Pkwy (Rte 337)           | Suffolk        | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-210 | Suffolk/ US 58 Bypass              | Suffolk        | Highway          | 1                                  |                    |                      |                     |                           |   |                                 |   |                       | ●                    |
| 2045-211 | Whaleyville Blvd (US 13) - Phase 1 | Suffolk        | Highway          | 5                                  | ●                  |                      | ●                   |                           | ●   |                                 |   | ●                     | ●                    |
| 2045-212 | Whaleyville Blvd (US 13) - Phase 2 | Suffolk        | Highway          | 5                                  |                    |                      | ●                   |                           | ●   | ●                               |   | ●                     | ●                    |
| 2045-213 | Wilroy Rd (Rte 642)                | Suffolk        | Highway          | 4                                  |                    |                      |                     | ●                         | ●   | ●                               |   |                       | ●                    |
| 2045-214 | Wilroy Rd (Rte 642)                | Suffolk        | Highway          | 2                                  |                    |                      |                     |                           | ●   | ●                               |   |                       | ●                    |
| 2045-215 | Birdneck Road                      | Virginia Beach | Highway          | 1                                  |                    |                      |                     | ●                         |   |                                 |   |                       |                      |
| 2045-216 | Clearfield Ave                     | Virginia Beach | Highway          | 3                                  |                    | ●                    |                     |                           |   | ●                               |   |                       | ●                    |
| 2045-217 | Dam Neck Road - Phase I            | Virginia Beach | Highway          | 3                                  |                    |                      |                     |                           | ●   |                                 |   | ●                     | ●                    |
| 2045-218 | Dam Neck Road - Phase II           | Virginia Beach | Highway          | 3                                  |                    |                      |                     |                           | ●   |                                 | ●                                       |                       | ●                    |
| 2045-219 | Dam Neck Road - Phase III          | Virginia Beach | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-220 | Drakesmile Extended - Phase I      | Virginia Beach | Highway          | 1                                  |                    |                      |                     |                           | ●   |                                 |   |                       |                      |
| 2045-221 | Drakesmile Extended - Phase II     | Virginia Beach | Highway          | 1                                  |                    |                      |                     |                           | ●   |                                 |   |                       |                      |
| 2045-222 | Ferrell Pkwy                       | Virginia Beach | Highway          | 2                                  |                    |                      | ●                   |                           |   |                                 | ●                                       |                       |                      |
| 2045-223 | Ferrell Pkwy                       | Virginia Beach | Highway          | 2                                  |                    |                      | ●                   |                           |   |                                 | ●                                       |                       |                      |
| 2045-224 | Ferrell Pkwy                       | Virginia Beach | Highway          | 2                                  |                    |                      |                     | ●                         |   | ●                               |   |                       | ●                    |
| 2045-225 | First Colonial Rd                  | Virginia Beach | Highway          | 2                                  |                    |                      | ●                   | ●                         |   |                                 |   |                       |                      |

## APPENDIX C: 2045 LRTP CANDIDATE PROJECTS ENVIRONMENTAL JUSTICE IMPACT SCORE CONTINUED

| 2045 ID  | 2045 LRTP CANDIDATE PROJECTS      | LOCALITY       | PROJECT CATEGORY | ENVIRONMENTAL JUSTICE IMPACT SCORE | CARLESS HOUSEHOLDS | DISABLED POPULATIONS | ELDERLY POPULATIONS | FEMALE HEAD OF HOUSEHOLDS | HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE | HOUSEHOLDS RECEIVED FOOD STAMPS | LIMITED ENGLISH PROFICIENCY POPULATIONS | LOW-INCOME HOUSEHOLDS | MINORITY POPULATIONS |
|----------|-----------------------------------|----------------|------------------|------------------------------------|--------------------|----------------------|---------------------|---------------------------|---|---------------------------------|---|-----------------------|----------------------|
| 2045-226 | First Colonial Rd                 | Virginia Beach | Highway          | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |
| 2045-227 | General Booth Blvd                | Virginia Beach | Highway          | 1                                  |                    |                      |                     |                           |   |                                 |   | ●                     |                      |
| 2045-228 | General Booth Blvd                | Virginia Beach | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-229 | General Booth Blvd                | Virginia Beach | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-23  | Shoulders Hill Rd (Rte 626)       | Suffolk        | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-230 | Holland Rd                        | Virginia Beach | Highway          | 3                                  |                    | ●                    |                     |                           |   |                                 | ●                                       | ●                     |                      |
| 2045-231 | Holland Road                      | Virginia Beach | Highway          | 2                                  |                    |                      |                     |                           |   |                                 | ●                                       |                       | ●                    |
| 2045-232 | I-264 Preferred Alternative       | Virginia Beach | Highway          | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |
| 2045-233 | Independence Blvd                 | Virginia Beach | Highway          | 2                                  |                    |                      | ●                   | ●                         |   |                                 |   |                       |                      |
| 2045-234 | Independence Blvd                 | Virginia Beach | Highway          | 2                                  |                    |                      | ●                   | ●                         |   |                                 |   |                       |                      |
| 2045-235 | Indian River Rd                   | Virginia Beach | Highway          | 2                                  |                    |                      | ●                   |                           |   |                                 | ●                                       |                       |                      |
| 2045-236 | Indian River Rd                   | Virginia Beach | Highway          | 4                                  |                    |                      | ●                   | ●                         |   |                                 | ●                                       |                       | ●                    |
| 2045-237 | Indian River Rd                   | Virginia Beach | Highway          | 1                                  |                    |                      |                     |                           |   |                                 |   | ●                     |                      |
| 2045-238 | Indian River Road                 | Virginia Beach | Highway          | 2                                  |                    |                      |                     |                           |   |                                 |   | ●                     | ●                    |
| 2045-239 | Jeanne St                         | Virginia Beach | Highway          | 1                                  |                    |                      |                     |                           | ●   |                                 |   |                       |                      |
| 2045-240 | Landstown Rd - Phase I            | Virginia Beach | Highway          | 1                                  |                    |                      |                     |                           |   |                                 |   |                       | ●                    |
| 2045-241 | Landstown Rd Extended - Phase II  | Virginia Beach | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-242 | Landstown Rd Extended - Phase III | Virginia Beach | Highway          | 2                                  |                    |                      |                     |                           |   |                                 |   | ●                     | ●                    |
| 2045-243 | Landstown Rd Extended - Phase IV  | Virginia Beach | Highway          | 1                                  |                    |                      |                     |                           |   |                                 |   | ●                     |                      |
| 2045-244 | Laskin Road - Phase IB            | Virginia Beach | Highway          | 2                                  | ●                  |                      |                     |                           | ●   |                                 |   |                       |                      |
| 2045-245 | Laskin Road - Phase II            | Virginia Beach | Highway          | 2                                  | ●                  |                      |                     |                           | ●   |                                 |   |                       |                      |
| 2045-246 | Laskin Road - Phase III           | Virginia Beach | Highway          | 1                                  |                    |                      |                     |                           | ●   |                                 |   |                       |                      |
| 2045-247 | London Bridge Road                | Virginia Beach | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-248 | Lynnhaven Pkwy                    | Virginia Beach | Highway          | 2                                  |                    |                      |                     |                           |   |                                 | ●                                       |                       | ●                    |
| 2045-250 | Nimmo Pkwy - Phase II             | Virginia Beach | Highway          | 1                                  |                    |                      |                     |                           |   |                                 |   | ●                     |                      |
| 2045-251 | Nimmo Pkwy - Phase III            | Virginia Beach | Highway          | 1                                  |                    |                      |                     |                           |   |                                 |   | ●                     |                      |
| 2045-252 | Nimmo Pkwy - Phase VIIB           | Virginia Beach | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-253 | North Great Neck                  | Virginia Beach | Highway          | 2                                  |                    |                      | ●                   | ●                         |   |                                 |   |                       |                      |
| 2045-254 | North Lynnhaven Rd                | Virginia Beach | Highway          | 3                                  |                    |                      | ●                   | ●                         |   |                                 |   | ●                     |                      |
| 2045-255 | Princess Anne Commons Rd A        | Virginia Beach | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-256 | Princess Anne Road                | Virginia Beach | Highway          | 1                                  |                    |                      |                     |                           |   |                                 |   |                       | ●                    |
| 2045-257 | Providence Road                   | Virginia Beach | Highway          | 2                                  |                    |                      | ●                   |                           |   |                                 | ●                                       |                       |                      |

## APPENDIX C: 2045 LRTP CANDIDATE PROJECTS ENVIRONMENTAL JUSTICE IMPACT SCORE CONTINUED

| 2045 ID  | 2045 LRTP CANDIDATE PROJECTS                           | LOCALITY             | PROJECT CATEGORY | ENVIRONMENTAL JUSTICE IMPACT SCORE | CARLESS HOUSEHOLDS | DISABLED POPULATIONS | ELDERLY POPULATIONS | FEMALE HEAD OF HOUSEHOLDS | HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE | HOUSEHOLDS RECEIVED FOOD STAMPS | LIMITED ENGLISH PROFICIENCY POPULATIONS | LOW-INCOME HOUSEHOLDS | MINORITY POPULATIONS |   |
|----------|--|----------------------|------------------|------------------------------------|--------------------|----------------------|---------------------|---------------------------|---|---------------------------------|---|-----------------------|----------------------|---|
| 2045-258 | Rosemont Rd  | Virginia Beach       | Highway          | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |   |
| 2045-259 | Rosemont Road - Phase V                                | Virginia Beach       | Highway          | 2                                  |                    |                      |                     |                           |   |                                 | ●                                       |                       |                      | ● |
| 2045-260 | Salem Road   | Virginia Beach       | Highway          | 2                                  |                    |                      |                     |                           |   |                                 |   | ●                     | ●                    |   |
| 2045-261 | Salem Road   | Virginia Beach       | Highway          | 1                                  |                    |                      |                     |                           |   |                                 |   |                       |                      | ● |
| 2045-262 | Shore Drive - Phase II                                 | Virginia Beach       | Highway          | 2                                  |                    |                      |                     | ●                         |   |                                 |   | ●                     |                      |   |
| 2045-263 | West Neck Rd   | Virginia Beach       | Highway          | 1                                  |                    |                      |                     |                           |   |                                 |   | ●                     |                      |   |
| 2045-264 | Monticello Ave   | Williamsburg         | Highway          | 3                                  | ●                  |                      |                     | ●                         | ●   |                                 |   |                       |                      |   |
| 2045-265 | Commonwealth Dr Extension                              | York County          | Highway          | 2                                  |                    |                      |                     | ●                         |   |                                 | ●                                       |                       |                      |   |
| 2045-266 | G.W. Mem Hwy (US 17)                                   | York County          | Highway          | 4                                  |                    | ●                    | ●                   | ●                         |   |                                 |   |                       | ●                    |   |
| 2045-267 | G.W. Mem Hwy (US 17)                                   | York County          | Highway          | 4                                  |                    | ●                    | ●                   |                           |   |                                 | ●                                       | ●                     |                      |   |
| 2045-268 | J. Clyde Morris Blvd/G.W. Mem Hwy (US 17)              | York County          | Highway          | 2                                  |                    |                      | ●                   |                           |   |                                 | ●                                       |                       |                      |   |
| 2045-269 | Harpersville Rd Widening                               | Newport News         | Highway          | 4                                  |                    | ●                    |                     |                           |   |                                 | ●                                       | ●                     | ●                    |   |
| 2045-116 | US 460/58/13 Connector - Regional Landfill Interchange | Multi-jurisdictional | Interchange      | 3                                  |                    |                      |                     |                           |   | ●                               | ●                                       |                       |                      | ● |
| 2045-301 | I-64/I-264 Interchange Phase IIIA                      | Multi-jurisdictional | Interchange      | 5                                  |                    | ●                    | ●                   | ●                         |   | ●                               |   |                       |                      | ● |
| 2045-302 | I-64/I-264 Interchange Phase IIIB                      | Multi-jurisdictional | Interchange      | 5                                  |                    | ●                    | ●                   | ●                         |   | ●                               |   |                       |                      | ● |
| 2045-303 | I-64/I-264 Interchange Phase IIIC                      | Multi-jurisdictional | Interchange      | 5                                  |                    | ●                    | ●                   | ●                         |   | ●                               |   |                       |                      | ● |
| 2045-304 | I-64/I-264 Interchange Phase IIID                      | Multi-jurisdictional | Interchange      | 5                                  |                    | ●                    | ●                   | ●                         |   | ●                               |   |                       |                      | ● |
| 2045-305 | I-64/I-264 Interchange Phase IIIE                      | Multi-jurisdictional | Interchange      | 5                                  |                    | ●                    | ●                   | ●                         |   | ●                               |   |                       |                      | ● |
| 2045-306 | I-64/I-264 Interchange Phase IIIF                      | Multi-jurisdictional | Interchange      | 5                                  |                    | ●                    | ●                   | ●                         |   | ●                               |   |                       |                      | ● |
| 2045-307 | US 58/258 Interchange                                  | Multi-jurisdictional | Interchange      | 8                                  | ●                  | ●                    | ●                   | ●                         | ●   | ●                               | ●                                       |                       | ●                    | ● |
| 2045-308 | Bowers Hill Interchange                                | Multi-jurisdictional | Interchange      | 2                                  |                    |                      |                     | ●                         |   |                                 |   |                       | ●                    |   |
| 2045-309 | I-64/I-464 Loop Ramp (I-64 to I-464 South)             | Chesapeake           | Interchange      | 3                                  |                    |                      |                     |                           | ●   |                                 |   |                       | ●                    | ● |
| 2045-310 | I-64/I-464/US 17 Interchange                           | Chesapeake           | Interchange      | 3                                  |                    |                      |                     |                           | ●   |                                 |   |                       | ●                    | ● |
| 2045-311 | I-64 at Lasalle Ave                                    | Hampton              | Interchange      | 6                                  | ●                  | ●                    | ●                   | ●                         | ●   | ●                               | ●                                       |                       |                      | ● |
| 2045-312 | I-64 at N. King St                                     | Hampton              | Interchange      | 6                                  |                    | ●                    | ●                   | ●                         | ●   | ●                               | ●                                       |                       | ●                    | ● |
| 2045-313 | I-64 at Settlers Landing Rd                            | Hampton              | Interchange      | 5                                  | ●                  | ●                    |                     |                           |   | ●                               | ●                                       |                       |                      | ● |
| 2045-314 | I-64/Denbigh Blvd Interchange Project                  | Newport News         | Interchange      | 4                                  |                    | ●                    |                     |                           | ●   |                                 |   | ●                     |                      | ● |
| 2045-315 | I-64/Fort Eustis Blvd Interchange                      | Newport News         | Interchange      | 2                                  |                    | ●                    |                     |                           |   |                                 |   |                       |                      | ● |
| 2045-316 | Air Terminal Interchange                               | Norfolk              | Interchange      | 2                                  |                    |                      |                     |                           |   | ●                               |   |                       | ●                    |   |
| 2045-317 | HRBT - I-564/I-64 Interchange Improvements             | Multi-jurisdictional | Interchange      | 4                                  | ●                  |                      |                     |                           | ●   | ●                               |   |                       |                      | ● |
| 2045-318 | I-264 at Ballentine Blvd Diverging Diamond Interchange | Norfolk              | Interchange      | 6                                  | ●                  | ●                    |                     |                           | ●   | ●                               |   |                       |                      | ● |
| 2045-319 | I-264/Military Hwy Interchange                         | Norfolk              | Interchange      | 4                                  |                    | ●                    | ●                   |                           |   | ●                               |   |                       |                      | ● |

## APPENDIX C: 2045 LRTP CANDIDATE PROJECTS ENVIRONMENTAL JUSTICE IMPACT SCORE CONTINUED

| 2045 ID    | 2045 LRTP CANDIDATE PROJECTS  | LOCALITY             | PROJECT CATEGORY | ENVIRONMENTAL JUSTICE IMPACT SCORE | CARLESS HOUSEHOLDS | DISABLED POPULATIONS | ELDERLY POPULATIONS | FEMALE HEAD OF HOUSEHOLDS | HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE | HOUSEHOLDS RECEIVED FOOD STAMPS | LIMITED ENGLISH PROFICIENCY POPULATIONS | LOW-INCOME HOUSEHOLDS | MINORITY POPULATIONS |
|------------|---|----------------------|------------------|------------------------------------|--------------------|----------------------|---------------------|---------------------------|---|---------------------------------|---|-----------------------|----------------------|
| 2045-320   | I-64/Northampton Blvd Interchange - EB Traffic from Northampton Blvd to I-264         | Norfolk              | Interchange      | 1                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-321   | Military Hwy at I-64 -- New EB On-Ramp  | Norfolk              | Interchange      | 4                                  | ●                  | ●                    |                     |                           |   | ●                               |   |                       | ●                    |
| 2045-322   | Cedar Ln and VA-164 Interchange   | Portsmouth           | Interchange      | 4                                  |                    | ●                    | ●                   |                           | ●   |                                 |   |                       | ●                    |
| 2045-323   | Frederick Blvd and I-264 Interchange  | Portsmouth           | Interchange      | 7                                  | ●                  | ●                    |                     | ●                         | ●   | ●                               |   | ●                     | ●                    |
| 2045-324   | Victory Blvd and I-264 Interchange  | Portsmouth           | Interchange      | 8                                  | ●                  | ●                    | ●                   | ●                         | ●   | ●                               |   | ●                     | ●                    |
| 2045-325   | VIG Interchange   | Portsmouth           | Interchange      | 2                                  |                    | ●                    | ●                   |                           |   |                                 |   |                       |                      |
| 2045-326   | I-264 at Independence Blvd  | Virginia Beach       | Interchange      | 2                                  |                    |                      | ●                   | ●                         |   |                                 |   |                       |                      |
| 2045-327   | I-264 at Rosemont Rd  | Virginia Beach       | Interchange      | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-328   | Merging/Diverging Lane Improvements at I-64 W and Route 199 (Exit 242)                | York County          | Interchange      | 2                                  |                    |                      |                     |                           |   |                                 | ●                                       | ●                     |                      |
| 2045-601   | VA-164 Extension  | Multi-jurisdictional | Intermodal       | 1                                  |                    |                      |                     |                           |   |                                 |   |                       | ●                    |
| 2045-602   | Portlock Rd Railroad Overpass   | Chesapeake           | Intermodal       | 5                                  |                    | ●                    |                     | ●                         |   | ●                               |   | ●                     | ●                    |
| 2045-603   | Hampton Blvd at Terminal Blvd   | Norfolk              | Intermodal       | 3                                  |                    |                      |                     | ●                         |   |                                 |   | ●                     | ●                    |
| 2045-604   | Craney Island Access Rd   | Portsmouth           | Intermodal       | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-605   | Finney Ave Flyover  | Suffolk              | Intermodal       | 7                                  | ●                  | ●                    |                     | ●                         | ●   | ●                               |   | ●                     | ●                    |
| 2045-606   | Nansemond Pkwy (Rte 337)  | Suffolk              | Intermodal       | 2                                  |                    |                      |                     |                           |   |                                 |   | ●                     | ●                    |
| 2045-607   | North Suffolk Connector Rd  | Suffolk              | Intermodal       | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-504   | Ferry Service   | Multi-jurisdictional | Transit          | 1                                  |                    |                      |                     |                           |   |                                 | ●                                       |                       |                      |
| 2045-505   | Ferry Service   | Multi-jurisdictional | Transit          | 2                                  | ●                  |                      |                     | ●                         |   |                                 |   |                       |                      |
| 2045-506   | High-Speed and Intercity Passenger Rail - DRPT Tier I EIS ROD - Preferred Alternative | Multi-jurisdictional | Transit          | 4                                  |                    | ●                    |                     | ●                         |   |                                 |   | ●                     | ●                    |
| 2045-506   | High-Speed and Intercity Passenger Rail - DRPT Tier I EIS ROD - Preferred Alternative | Multi-jurisdictional | Transit          | 6                                  | ●                  | ●                    |                     | ●                         |   | ●                               |   | ●                     | ●                    |
| 2045-508   | High Speed Water Taxis System   | Multi-jurisdictional | Transit          | 3                                  |                    |                      |                     | ●                         |   | ●                               |   |                       | ●                    |
| 2045-509   | Peninsula Commuter Rail   | Multi-jurisdictional | Transit          | 3                                  |                    | ●                    | ●                   | ●                         |   |                                 |   |                       | ●                    |
| 2045-511A  | Peninsula High Capacity Transit Extension - Alt 3                                     | Multi-jurisdictional | Transit          | 6                                  | ●                  | ●                    |                     | ●                         |   | ●                               |   | ●                     | ●                    |
| 2045-511A1 | Peninsula High Capacity Transit Extension - Alt 3 (Future)                            | Multi-jurisdictional | Transit          | 2                                  |                    |                      |                     |                           |   |                                 | ●                                       |                       | ●                    |
| 2045-511B  | Peninsula High Capacity Transit Extension - Alt 6                                     | Multi-jurisdictional | Transit          | 7                                  | ●                  | ●                    |                     | ●                         | ●   | ●                               |   | ●                     | ●                    |
| 2045-511B1 | Peninsula High Capacity Transit Extension - Alt 6 (Future)                            | Multi-jurisdictional | Transit          | 6                                  | ●                  | ●                    |                     | ●                         | ●   | ●                               |   |                       | ●                    |
| 2045-513   | Southside Ferry Service   | Multi-jurisdictional | Transit          | 6                                  | ●                  | ●                    |                     | ●                         | ●   | ●                               |   |                       | ●                    |
| 2045-514   | Tide Light Rail Expansion - Hampton Veterans Center                                   | Multi-jurisdictional | Transit          | 3                                  |                    |                      |                     | ●                         |   | ●                               |   |                       | ●                    |
| 2045-515   | Tide Light Rail Expansion - Williamsburg to Hampton/VA Beach                          | Multi-jurisdictional | Transit          | 3                                  |                    | ●                    |                     | ●                         |   |                                 |   |                       | ●                    |
| 2045-516   | High Capacity Transit Extension to Greenbrier Area                                    | Chesapeake           | Transit          | 4                                  | ●                  | ●                    |                     | ●                         |   |                                 |   |                       | ●                    |
| 2045-517   | Elizabeth River Ferry Expansion   | Norfolk              | Transit          | 2                                  | ●                  |                      |                     | ●                         |   |                                 |   |                       |                      |
| 2045-518   | Naval Station Norfolk Transit Extension   | Norfolk              | Transit          | 4                                  | ●                  |                      |                     | ●                         |   | ●                               |   |                       | ●                    |

## APPENDIX CD 2045 LRTP CANDIDATE PROJECTS ENVIRONMENTAL JUSTICE IMPACT SCORE CONTINUED

| 2045 ID  | 2045 LRTP CANDIDATE PROJECTS  | LOCALITY             | PROJECT CATEGORY      | ENVIRONMENTAL JUSTICE IMPACT SCORE | CARLESS HOUSEHOLDS | DISABLED POPULATIONS | ELDERLY POPULATIONS | FEMALE HEAD OF HOUSEHOLDS | HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE | HOUSEHOLDS RECEIVED FOOD STAMPS | LIMITED ENGLISH PROFICIENCY POPULATIONS | LOW-INCOME HOUSEHOLDS | MINORITY POPULATIONS |
|----------|---|----------------------|-----------------------|------------------------------------|--------------------|----------------------|---------------------|---------------------------|---|---------------------------------|---|-----------------------|----------------------|
| 2045-519 | Tide Light Rail Expansion - Suffolk   | Suffolk              | Transit               | 7                                  | ●                  | ●                    |                     | ●                         | ●   | ●                               |   | ●                     | ●                    |
| 2045-701 | Bike Lanes on Indian River Rd   | Multi-jurisdictional | Active Transportation | 6                                  | ●                  | ●                    |                     | ●                         |   | ●                               |   | ●                     | ●                    |
| 2045-702 | Bike Lanes on Indian River Rd   | Multi-jurisdictional | Active Transportation | 5                                  | ●                  | ●                    |                     | ●                         |   | ●                               |   |                       | ●                    |
| 2045-703 | Bike Path Along Shore Dr/Hampton Blvd/Little Creek Rd                                 | Multi-jurisdictional | Active Transportation | 2                                  |                    |                      |                     | ●                         |   |                                 |   | ●                     |                      |
| 2045-704 | Birthplace of America Trail   | Multi-jurisdictional | Active Transportation | 2                                  |                    |                      | ●                   | ●                         |   |                                 |   |                       |                      |
| 2045-707 | South Hampton Roads Trail: Complete Trail (Suffolk to VB)                             | Multi-jurisdictional | Active Transportation | 1                                  |                    |                      |                     | ●                         |   |                                 |   |                       |                      |
| 2045-708 | South Hampton Roads Trail: Virginia Beach (Bike Trails/Lanes Along Light Rail Tracks) | Multi-jurisdictional | Active Transportation | 2                                  |                    |                      | ●                   | ●                         |   |                                 |   |                       |                      |
| 2045-709 | Southside Bike Trail  | Multi-jurisdictional | Active Transportation | 1                                  |                    |                      |                     | ●                         |   |                                 |   |                       |                      |
| 2045-711 | VA/NC Dismal Swamp Bike/Walk Trail Connection   | Multi-jurisdictional | Active Transportation | 6                                  | ●                  | ●                    | ●                   |                           | ●   |                                 |   | ●                     | ●                    |
| 2045-712 | Battlefield Blvd  | Chesapeake           | Active Transportation | 5                                  |                    | ●                    | ●                   | ●                         |   |                                 |   | ●                     | ●                    |
| 2045-713 | Bike lane along Great Bridge Blvd   | Chesapeake           | Active Transportation | 3                                  |                    |                      |                     | ●                         |   |                                 |   | ●                     | ●                    |
| 2045-714 | Bike lane on Waters Rd  | Chesapeake           | Active Transportation | 1                                  |                    |                      |                     |                           |   |                                 |   | ●                     |                      |
| 2045-715 | Construct multi-use path along Etheridge Manor Blvd/ Hanbury Rd                       | Chesapeake           | Active Transportation | 1                                  |                    |                      |                     |                           |   |                                 |   | ●                     |                      |
| 2045-716 | Construct multi-use path along George Washington Hwy                                  | Chesapeake           | Active Transportation | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-717 | Construct multi-use path along Greenbrier Pkwy  | Chesapeake           | Active Transportation | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-718 | Construct multi-use path along Shell Rd/Canal Rd                                      | Chesapeake           | Active Transportation | 6                                  | ●                  | ●                    |                     | ●                         | ●   | ●                               |   |                       | ●                    |
| 2045-719 | Construct multi-use path trail along Dismal Swamp Canal                               | Chesapeake           | Active Transportation | 3                                  |                    | ●                    |                     |                           | ●   |                                 |   |                       | ●                    |
| 2045-720 | South Hampton Roads Trail: Western Branch Phase 1                                     | Chesapeake           | Active Transportation | 3                                  |                    |                      | ●                   |                           |   |                                 |   | ●                     | ●                    |
| 2045-721 | South Hampton Roads Trail: Western Branch Phase 2                                     | Chesapeake           | Active Transportation | 1                                  |                    |                      |                     |                           |   |                                 |   |                       | ●                    |
| 2045-722 | Hickory Fork Rd   | Gloucester           | Active Transportation | 2                                  |                    |                      | ●                   |                           |   |                                 |   | ●                     |                      |
| 2045-723 | Multi-Use Path along Roaring Spring Rd  | Gloucester           | Active Transportation | 3                                  |                    |                      | ●                   | ●                         |   |                                 |   | ●                     |                      |
| 2045-724 | Five Mile Loop Trail  | Hampton              | Active Transportation | 4                                  |                    | ●                    | ●                   | ●                         |   |                                 |   |                       | ●                    |
| 2045-725 | Bike Lanes on Centerville Rd that connect to Capital Trail                            | James City County    | Active Transportation | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |
| 2045-726 | Monticello Ave Bike Lane  | James City County    | Active Transportation | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |
| 2045-727 | 16th St Revitalization  | Newport News         | Active Transportation | 7                                  | ●                  | ●                    | ●                   | ●                         | ●   | ●                               |   |                       | ●                    |
| 2045-728 | Multi-use path on 25th St   | Newport News         | Active Transportation | 7                                  | ●                  | ●                    | ●                   | ●                         | ●   | ●                               |   |                       | ●                    |
| 2045-729 | Multi-use path on 26th St   | Newport News         | Active Transportation | 7                                  | ●                  | ●                    | ●                   | ●                         | ●   | ●                               |   |                       | ●                    |
| 2045-730 | Multi-use path on 27th St   | Newport News         | Active Transportation | 7                                  | ●                  | ●                    | ●                   | ●                         | ●   | ●                               |   |                       | ●                    |
| 2045-731 | Multi-use path on 28th St   | Newport News         | Active Transportation | 6                                  | ●                  | ●                    |                     | ●                         | ●   | ●                               |   |                       | ●                    |
| 2045-732 | Bike Lanes on Granby St   | Norfolk              | Active Transportation | 4                                  | ●                  |                      |                     | ●                         |   | ●                               |   |                       | ●                    |
| 2045-733 | Bike/ pedestrian Access to Naval Station Norfolk via Hampton Blvd                     | Norfolk              | Active Transportation | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-734 | Extend Elizabeth River Trail to Naval Station Norfolk                                 | Norfolk              | Active Transportation | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |

## APPENDIX C: 2045 LRTP CANDIDATE PROJECTS ENVIRONMENTAL JUSTICE IMPACT SCORE CONTINUED

| 2045 ID  | 2045 LRTP CANDIDATE PROJECTS  | LOCALITY       | PROJECT CATEGORY      | ENVIRONMENTAL JUSTICE IMPACT SCORE | CARLESS HOUSEHOLDS | DISABLED POPULATIONS | ELDERLY POPULATIONS | FEMALE HEAD OF HOUSEHOLDS | HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE | HOUSEHOLDS RECEIVED FOOD STAMPS | LIMITED ENGLISH PROFICIENCY POPULATIONS | LOW-INCOME HOUSEHOLDS | MINORITY POPULATIONS |
|----------|---|----------------|-----------------------|------------------------------------|--------------------|----------------------|---------------------|---------------------------|---|---------------------------------|---|-----------------------|----------------------|
| 2045-735 | Military Hwy Bike Access  | Norfolk        | Active Transportation | 3                                  |                    | ●                    |                     |                           |   |                                 | ●                                       |                       | ●                    |
| 2045-736 | Bike Path on Hunts Neck Rd (Rte 172)  | Poquoson       | Active Transportation | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |
| 2045-737 | Bike lanes on Churchland Blvd   | Portsmouth     | Active Transportation | 3                                  |                    |                      | ●                   |                           |   |                                 |   | ●                     | ●                    |
| 2045-738 | Complete High St  | Portsmouth     | Active Transportation | 7                                  | ●                  | ●                    |                     |                           | ●   | ●                               |   | ●                     | ●                    |
| 2045-739 | Portsmouth Rail-to-Trail  | Portsmouth     | Active Transportation | 2                                  |                    |                      | ●                   |                           |   |                                 |   |                       | ●                    |
| 2045-740 | Twin Pines Rd Shared Use Path   | Portsmouth     | Active Transportation | 2                                  |                    | ●                    |                     |                           |   |                                 |   |                       | ●                    |
| 2045-741 | Rail-to-Trail (Suffolk Seaboard Coastline Trail, part of the South Hampton Roads Trail) | Suffolk        | Active Transportation | 5                                  | ●                  |                      |                     |                           | ●   | ●                               |   | ●                     | ●                    |
| 2045-742 | Greenwich Rd conversion to Shared Use Path  | Virginia Beach | Active Transportation | 3                                  |                    |                      |                     | ●                         |   |                                 | ●                                       |                       | ●                    |
| 2045-743 | Level Green Powerline Corridor  | Virginia Beach | Active Transportation | 4                                  |                    | ●                    | ●                   | ●                         |   |                                 |   |                       | ●                    |
| 2045-744 | Nimmo Trail   | Virginia Beach | Active Transportation | 0                                  |                    |                      |                     |                           |   |                                 |   |                       |                      |
| 2045-745 | Northampton Blvd Right-of-Way   | Virginia Beach | Active Transportation | 2                                  |                    |                      | ●                   | ●                         |   |                                 |   |                       |                      |
| 2045-746 | Scarborough Bridge  | Virginia Beach | Active Transportation | 2                                  |                    | ●                    |                     |                           |   |                                 | ●                                       |                       |                      |
| 2045-747 | Seaboard Rd Shared Use Path and land acquisition  | Virginia Beach | Active Transportation | 1                                  |                    |                      |                     |                           |   |                                 |   |                       | ●                    |
| 2045-748 | Thalia Creek Greenway - Phase IV  | Virginia Beach | Active Transportation | 2                                  |                    |                      | ●                   | ●                         |   |                                 |   |                       |                      |
| 2045-749 | Thalia Creek Greenway - Phase V   | Virginia Beach | Active Transportation | 2                                  |                    |                      | ●                   | ●                         |   |                                 |   |                       |                      |
| 2045-750 | Thalia Creek Greenway - Phase VI  | Virginia Beach | Active Transportation | 2                                  |                    |                      | ●                   | ●                         |   |                                 |   |                       |                      |
| 2045-751 | Virginia Beach Trail  | Virginia Beach | Active Transportation | 1                                  |                    |                      |                     | ●                         |   |                                 |   |                       |                      |
| 2045-752 | Walkway at Virginia Beach Town Center Over I-264  | Virginia Beach | Active Transportation | 1                                  |                    |                      |                     | ●                         |   |                                 |   |                       |                      |
| 2045-753 | Carter's Grove Country Rd Shared Use Path   | Williamsburg   | Active Transportation | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |
| 2045-754 | Monticello Ave Shared-Use Path  | Williamsburg   | Active Transportation | 3                                  | ●                  |                      | ●                   | ●                         |   |                                 |   |                       |                      |
| 2045-755 | Strawberry Plains Rd Shared Use Path  | Williamsburg   | Active Transportation | 2                                  |                    |                      | ●                   | ●                         |   |                                 |   |                       |                      |
| 2045-756 | Penniman Rd (Sidewalk / Multi Use Path)   | York County    | Active Transportation | 3                                  |                    |                      |                     |                           | ●   |                                 | ●                                       | ●                     |                      |
| 2045-757 | Shared Use Path - Yorktown Road   | York County    | Active Transportation | 2                                  |                    |                      | ●                   |                           |   |                                 | ●                                       |                       |                      |
| 2045-758 | Shared Use Path Along Yorktown Rd   | York County    | Active Transportation | 2                                  |                    |                      | ●                   |                           |   |                                 | ●                                       |                       |                      |
| 2045-759 | Victory Boulevard Shared Use Path   | York County    | Active Transportation | 1                                  |                    |                      | ●                   |                           |   |                                 |   |                       |                      |

## APPENDIX D: COMMENTS RECEIVED

As part of the review process for the Title VI/Environmental Justice analysis of 2045 LRTP candidate projects, a technical review by LRTP Subcommittee members was requested prior to the public review of the analysis. As part of this technical review, comments were received from locality staff and addressed accordingly.

The report was made available for public review from May 26 – June 12, 2020. A comment was received, which was coordinated with appropriate locality staff and addressed accordingly.



## APPENDIX D: COMMENTS RECEIVED

### Public Comment

**Name: George Homewood, Norfolk**

**Date: 05/29/2020**

**Subject: Hampton Roads LRTP**

[Excerpt:]

Steve—

Likely a day late and several million dollars short, but I'd like to propose an active transportation project that will increase access to minority and elderly populations in James City County and Williamsburg—extending the Virginia Capital Trail spur from its current terminus at Eagle Way (Jamestown High School) to Strawberry Plains Road/John Tyler Lane just inside the City of Williamsburg. Other than on either side of Ironbound Road at 5 Forks and a few properties along Route 5 near Indian Springs Road, there is either existing right-of-way or significant front setbacks that would permit the VCT extension with relatively little impact to private property. While there are some mulch trails as part of the Mainland Farm-Greensprings system that eventually get to Clara Byrd Baker School, it is not the same access opportunity as the paved multi-use facility that an extension of the VCT would be and is only part of the way. It would also finish the trail along the full extent of Route 5 from Downtown Richmond to Williamsburg.

Thanks for adding to the pile of suggestions.

George M Homewood

### ***HRTPO Staff Response (06/02/2020)***

George,

After reaching out to both Williamsburg and James City County, HRTPO staff has concluded that the active transportation project suggestion

Appendix D

you submitted cannot be added to the 2045 LRTP candidate project list at this time because it is not consistent with either the Historic Triangle's Comprehensive Plan or the HRTPO's Linking Hampton Roads: A Regional Active Transportation Plan. Additionally, Paul Holt informed us that the County would not support an active transportation project along Route 5.

We appreciate your comments and feedback. Please let us know if you have further questions or concerns.

Thank you,

Steve Lambert

### Comment

[Excerpt:]

**Name: Carl Jackson, Portsmouth**

**Date: 05/19/2020**

**Subject: Re: DRAFT 2045 LRTP: be Title VI/Environmental Justice Candidate Project Evaluation Report – Request for Feedback**

Hey Steve,

This report looks great but I had a question about some stray projects mapped in the appendix. If you look at the Active Transportation Candidate Maps (A-1 - A-9), there appears to be a long horizontal shared use path along the I-264 corridor from VB to I-664 that doesn't match the route of the South Hampton Roads Trail particularly through Portsmouth. What project is this?

Also, I noticed that on the Transit Candidate Maps (T-1 - T-9) there are several ferry projects mapped showing ferry service between Portsmouth and the Peninsula. These may have been projects suggested by citizens but there has been no feasibility study and both

## APPENDIX D: COMMENTS RECEIVED

the City and HRT do not support this ferry service at this time.

Thanks.

Carl Jackson

### ***HRTPO Staff Response (05/20/2020)***

Good Morning Carl,

Hope you're doing well and staying safe. Thank you for reviewing this draft report and providing comments. As Steve alluded to yesterday, some of the initial alignments we were using for mapping were "placeholder" alignments that we're refining as we progress through project evaluation. We will make sure to refine these alignments where we can and re-do any analysis to account for these modifications.

For the transit projects you mentioned, for the 2045 LRTP, we currently have 5 "water mode" transit candidate projects (4 ferry, 1 high-speed water taxi system). These projects were either 2040 LRTP Vision/Study projects or public submissions. Only two of these projects include a termini in Portsmouth (2045-505 and 2045-513) and neither of these two candidate projects include suggestions to cross the Hampton Roads Harbor to the Peninsula. The table below reflects these "water mode" candidate projects.

Dale

| 2045 Candidate Project ID 2045-xx | Project Name                    | Project From Extent        | Project To Extent                        | Project Overview/Purpose   |
|-----------------------------------|---------------------------------|----------------------------|--|--|
| 2045-504                          | Ferry Service                   | Norfolk                    | Hampton                                  | New ferry service.   |
| 2045-505                          | Ferry Service                   | Old Towne (Portsmouth)     | Downtown Norfolk - Naval Station Norfolk | New ferry service.   |
| 2045-508                          | High-speed water taxi system    | N/A                        | N/A                                      | High speed 50+ passenger water taxi Lynnhaven to NAS to downtown Norfolk to downtown Hampton to Bennett Creek. |
| 2045-513                          | Southside Ferry Service         | Existing Service Locations | Various Locations                        | Provide ferry service to all of Southside - Norfolk, Chesapeake, Portsmouth, VA Beach                          |
| 2045-517                          | Elizabeth River Ferry Expansion | Current Service Location   | ODU and Naval Station Norfolk            | Expand ferry services to Old Dominion University and Naval Station Norfolk.                                    |