

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

TABLE OF CONTENTS

INTRODUCTION	PAGE 1
2045 LRTP VISION STATEMENT	PAGE 2
ENVIRONMENTAL JUSTICE DEFINITION	PAGE 3
ENVIRONMENTAL JUSTICE AND TITLE VI	PAGE 4
TITLE VI/ENVIRONMENTAL JUSTICE METHODOLOGY	PAGE 5
APPENDIX A: 2045 LRTP CANDIDATE PROJECTS AND ENVIRONMENTAL JUSTICE COMMUNITY MAPS	PAGE 16
APPENDIX B: ENVIRONMENTAL JUSTICE OVERLAY ANALYSIS WITH 2045 LRTP CANDIDATE PROJECTS	PAGE 44
APPENDIX C: 2045 LRTP CANDIDATE PROJECTS ENVIRONMENTAL JUSTICE IMPACT SCORE	PAGE 58
APPENDIX D: COMMENTS RECEIVED	PAGE 68



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

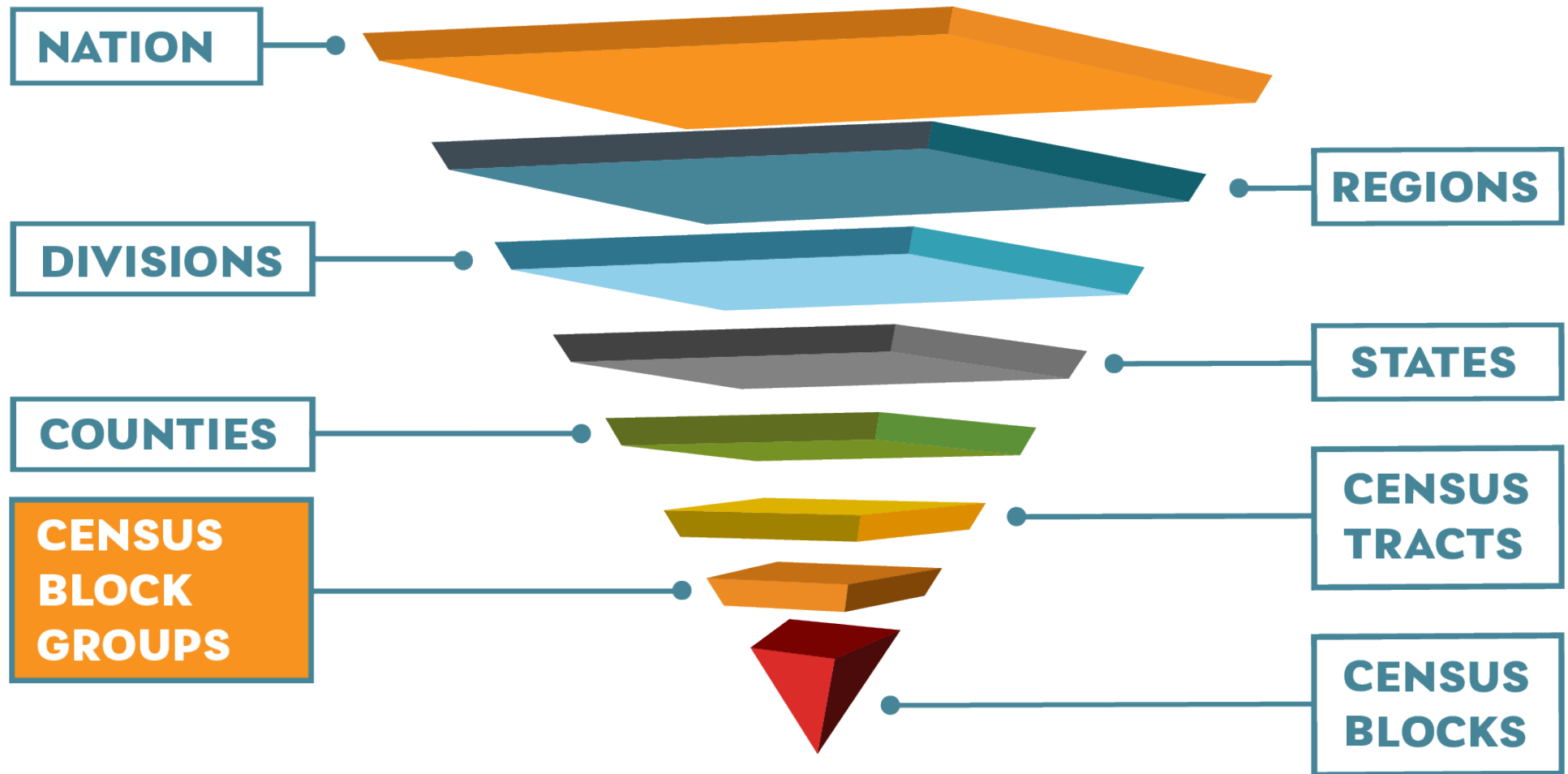
A low-income household
is one whose income is low,
relative to other households of
the same size

MINORITY POPULATIONS

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

STEP 2: IDENTIFICATION OF GEOGRAPHICAL AREAS FOR ANALYSIS

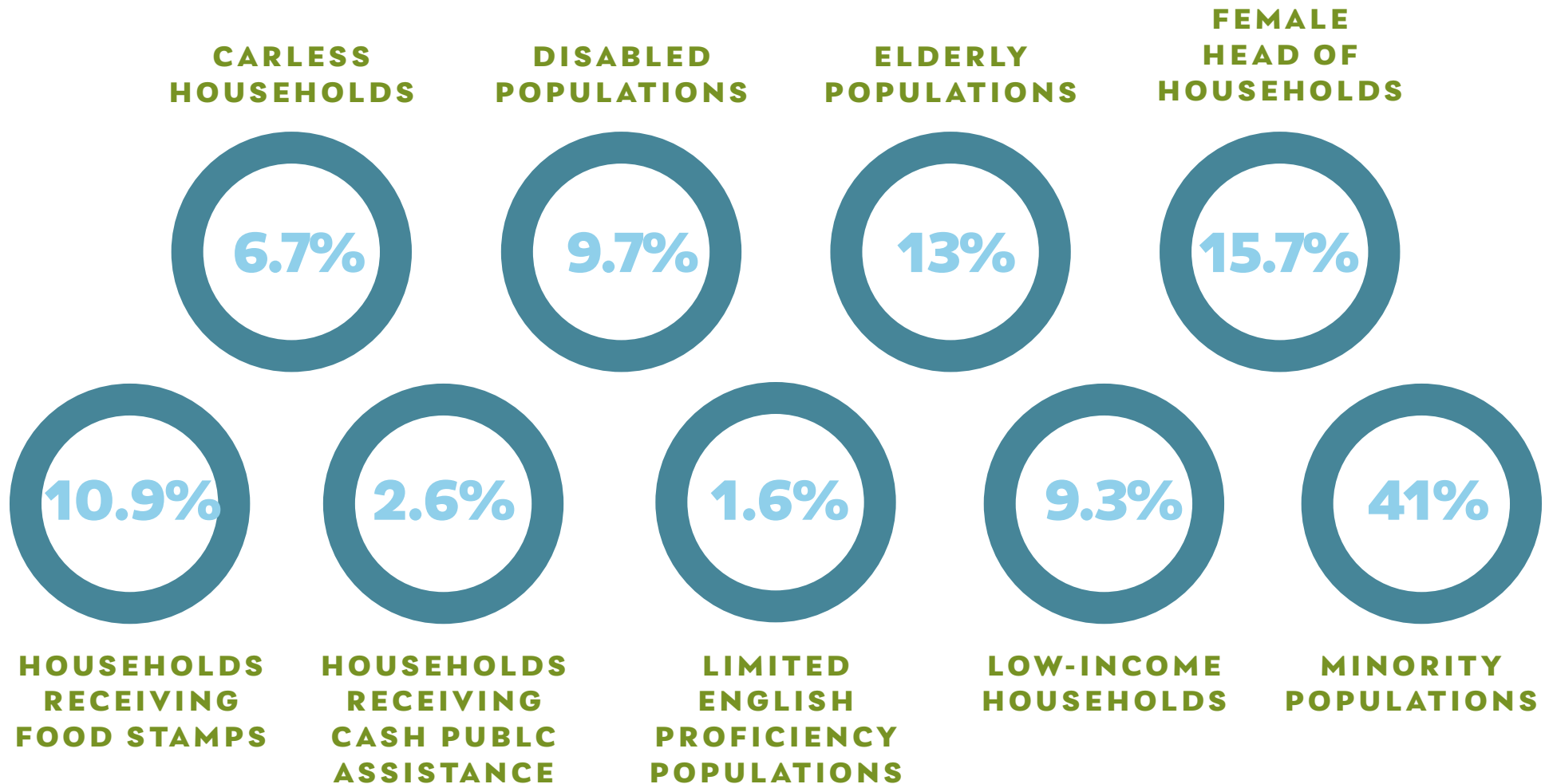
For this analysis, HRTPO staff used the smallest available geographic area, Census Block Groups, for the identified EJ Indicators. Census Block Groups are the second smallest geographic area for which the Bureau of the Census collects and tabulates decennial census data. Census Block Groups are a combination 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).

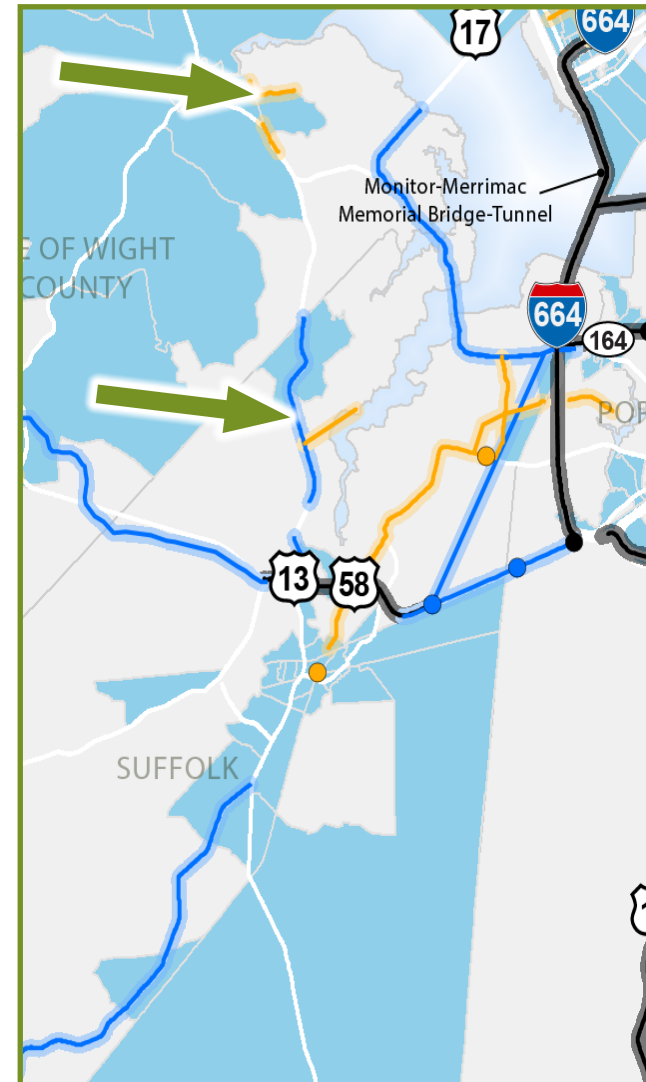
STEP 4: ASSIGNMENT OF CANDIDATE PROJECT IMPACT EXTENT

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.

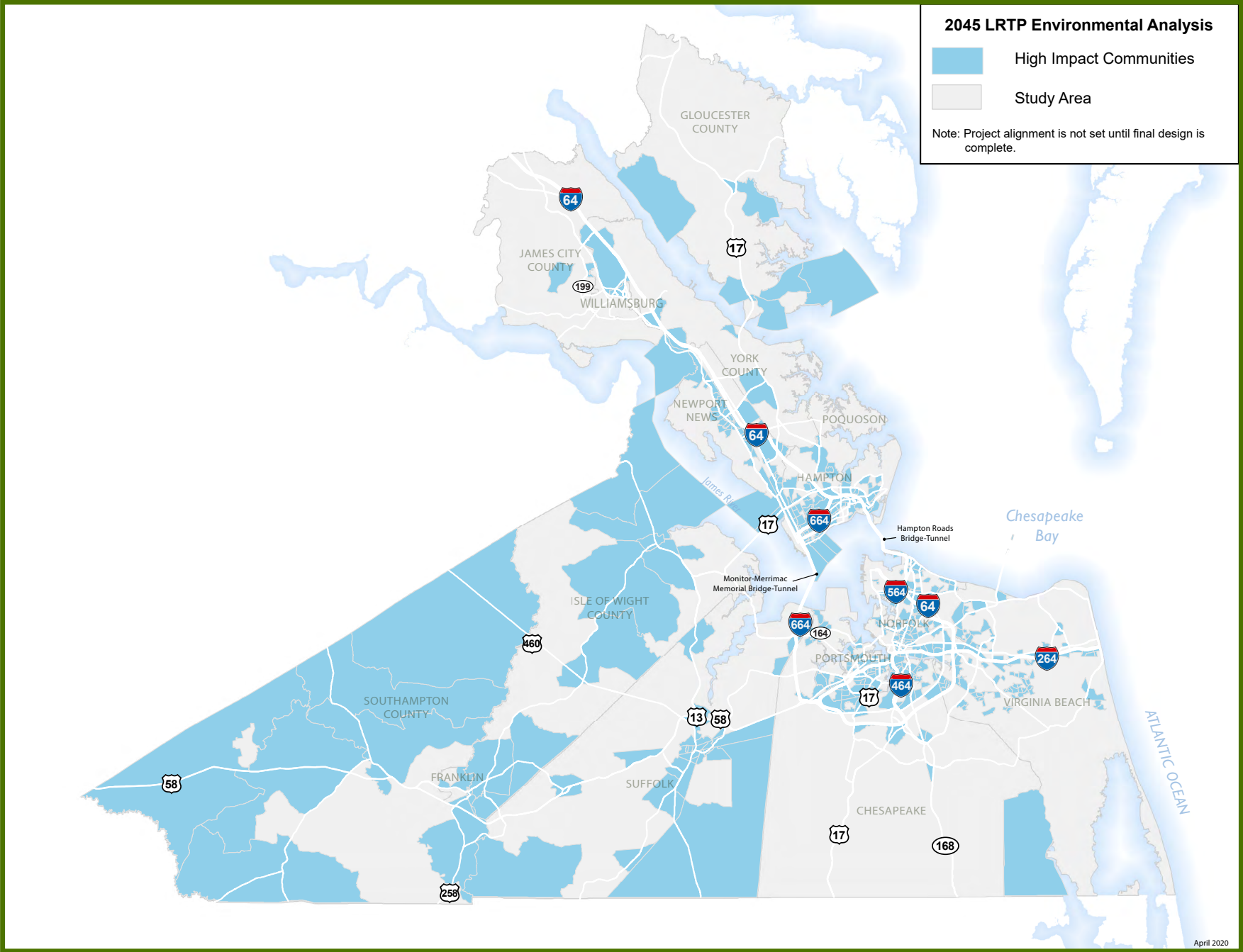
First, High Impact Environmental Justice Communities were identified, defined as Census Block Groups that contain FIVE OR MORE Environmental Justice Communities within the same Block Group. An overlay analysis was conducted quantifying the number of High Impact Environmental Justice Communities that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



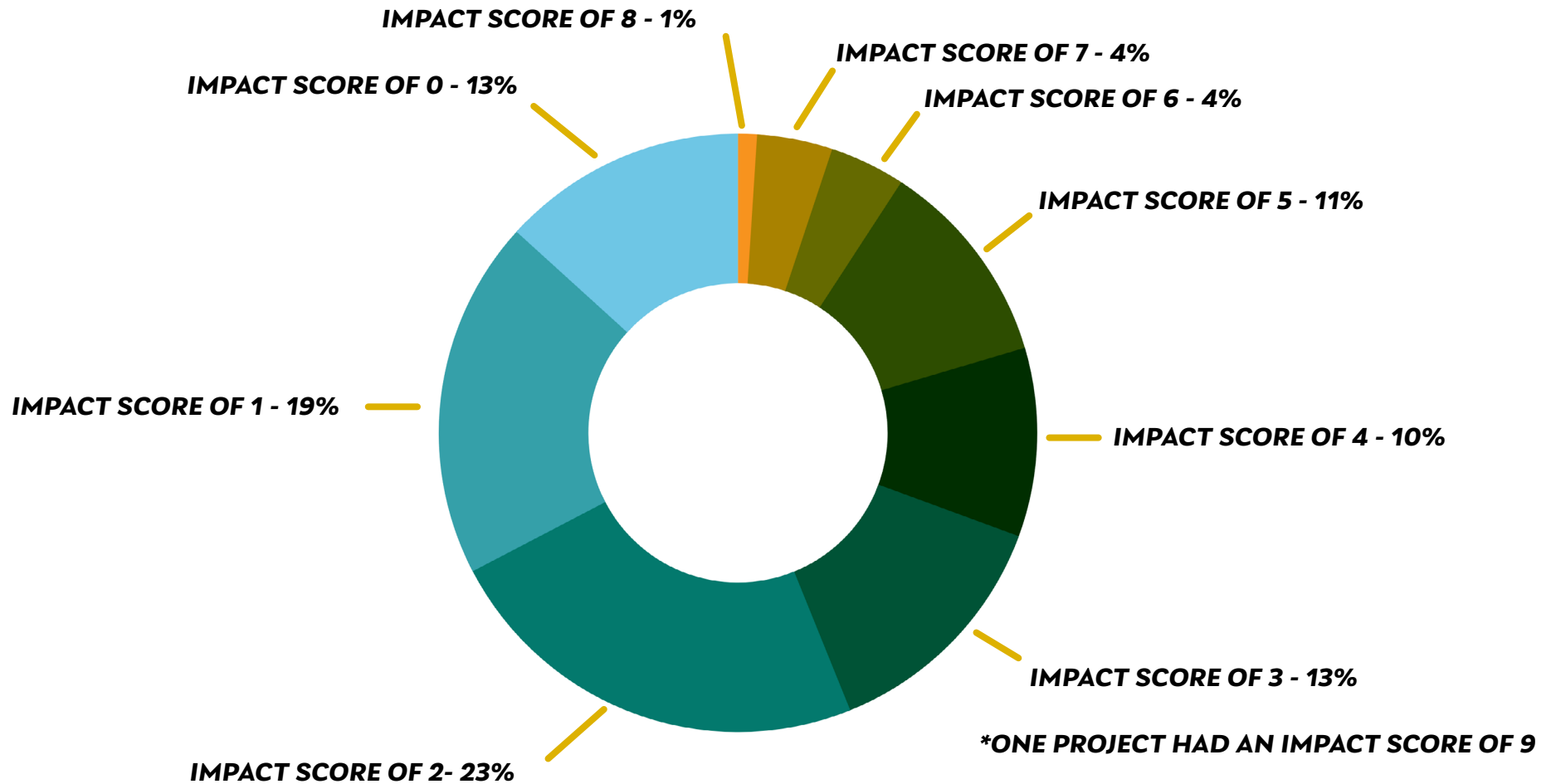
HIGH IMPACT ENVIRONMENTAL JUSTICE COMMUNITIES MAP



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.

ENVIRONMENTAL JUSTICE IMPACT SCORES PERCENTAGE OF PROJECTS



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

PAGE 17

ACTIVE TRANSPORTATION CANDIDATE PROJECTS AND ENVIRONMENTAL JUSTICE INDICATORS

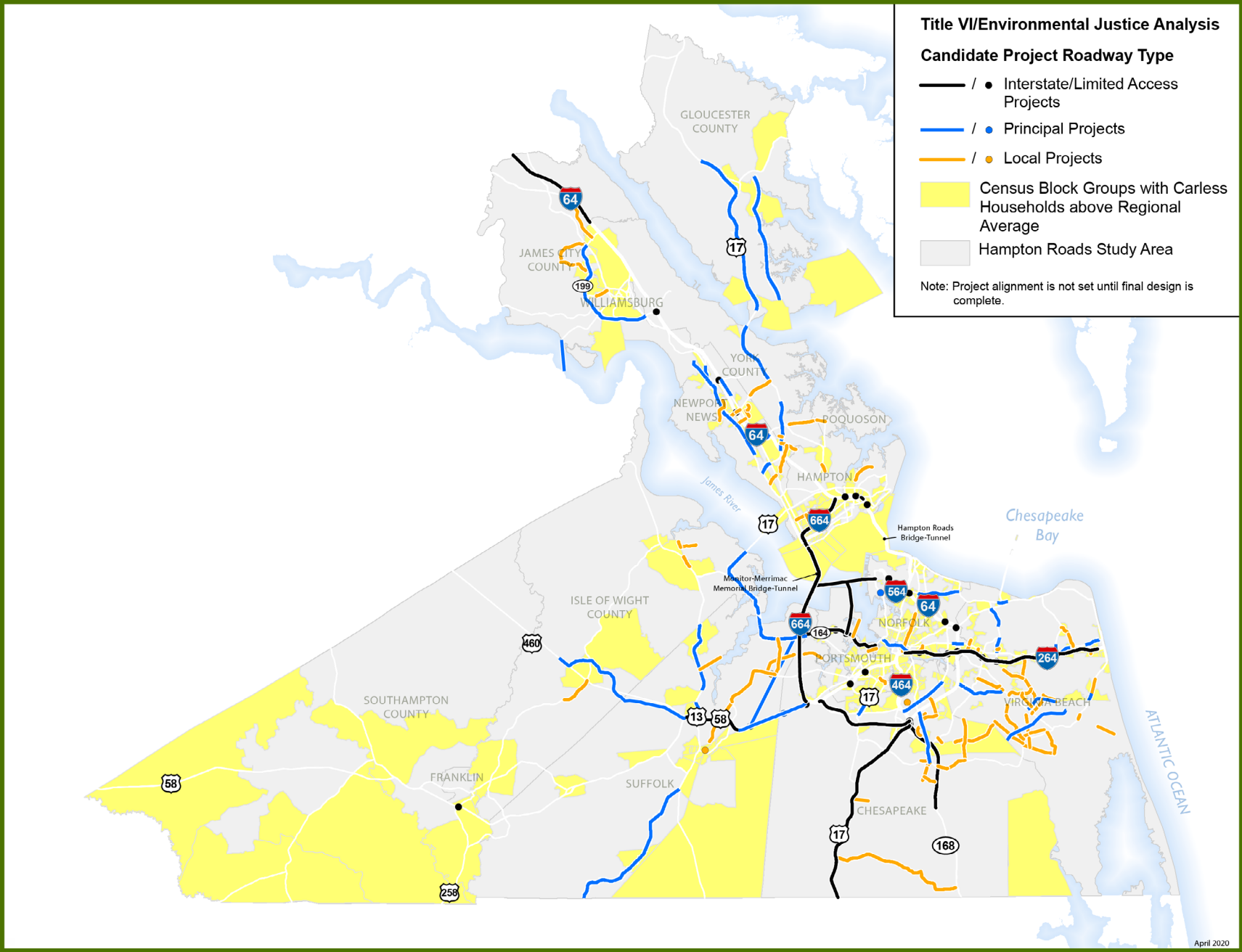
PAGE 26

TRANSIT CANDIDATE PROJECTS AND ENVIRONMENTAL JUSTICE INDICATORS

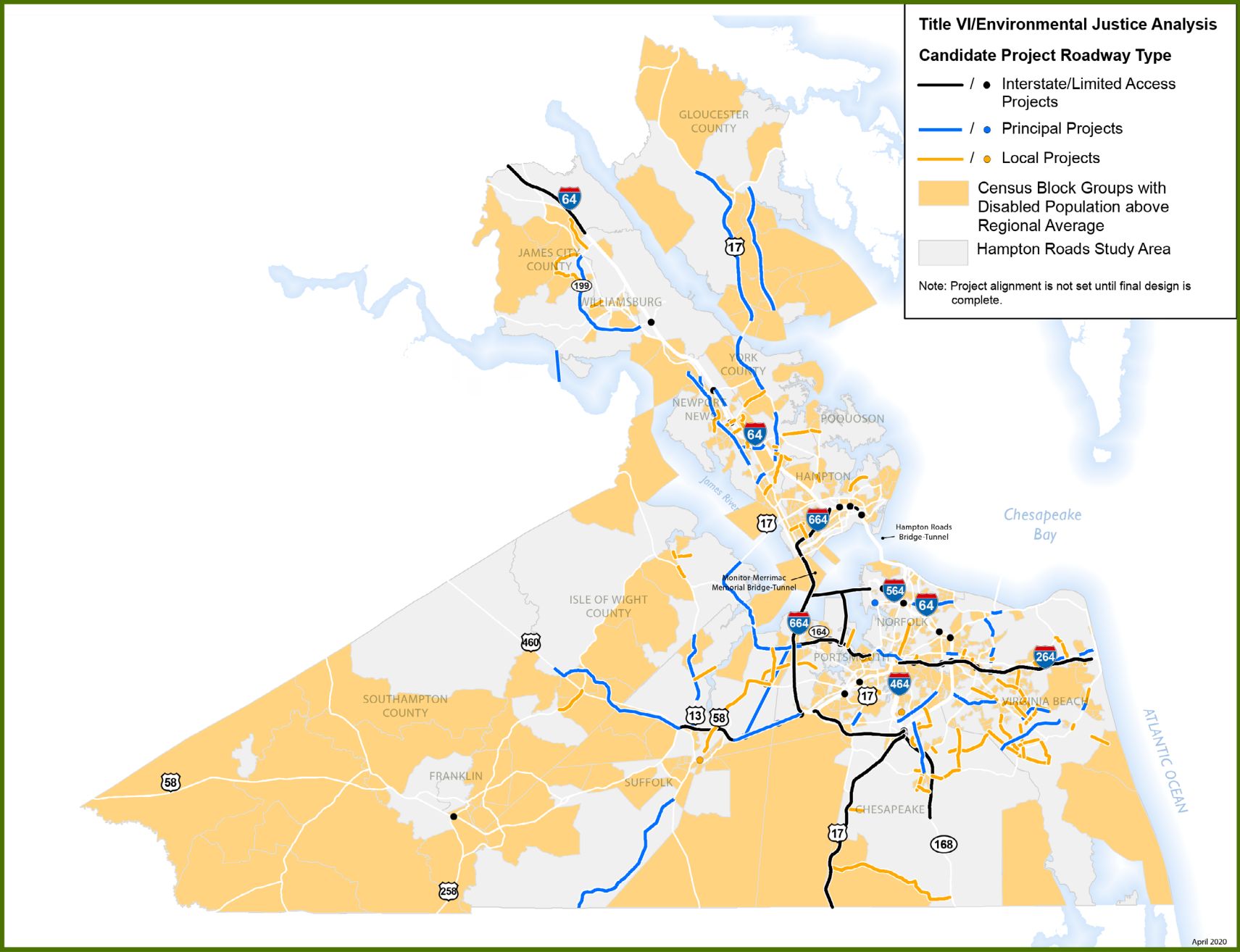
PAGE 35



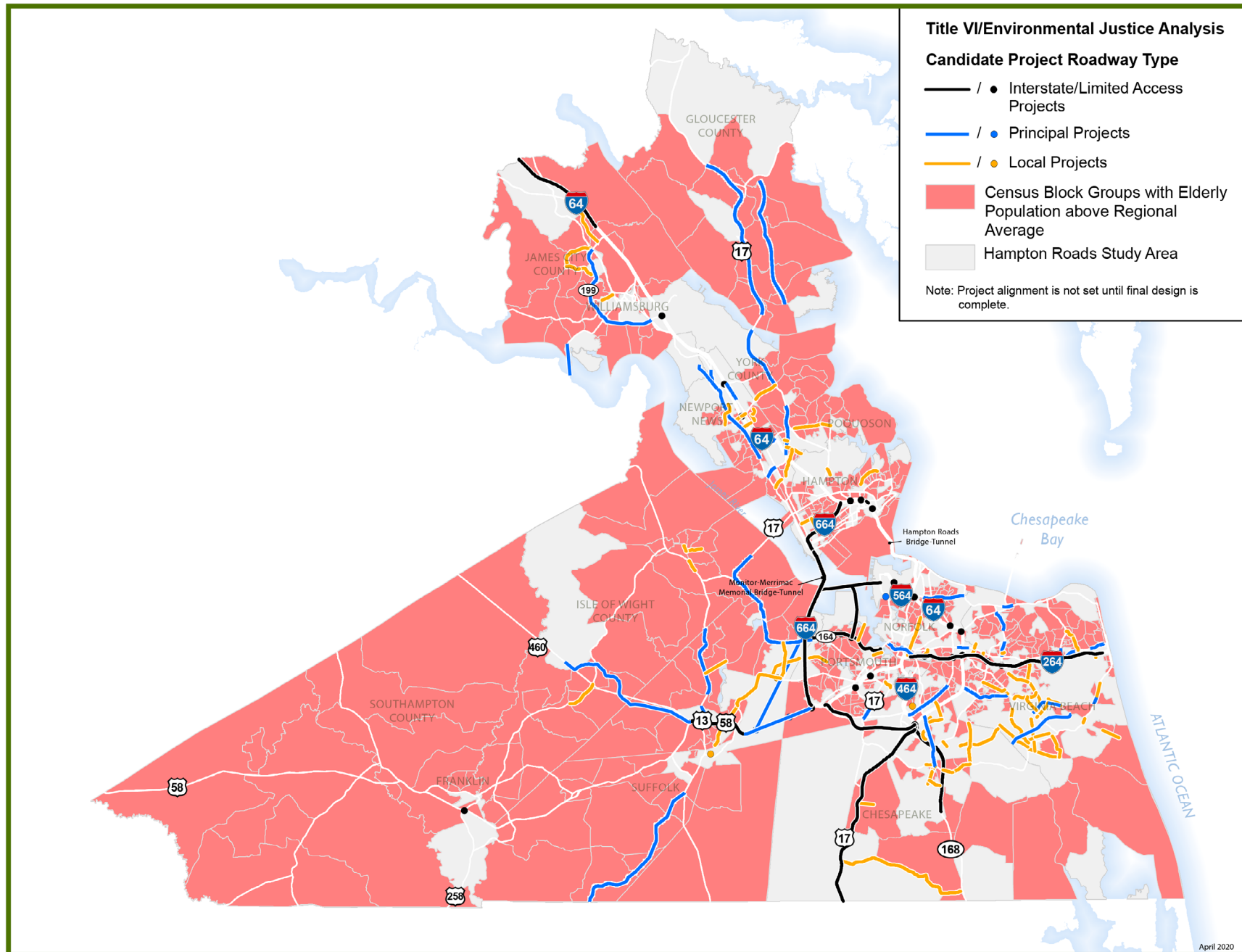
MAP R-1: ROADWAY CANDIDATE PROJECTS/CARLESS HOUSEHOLDS



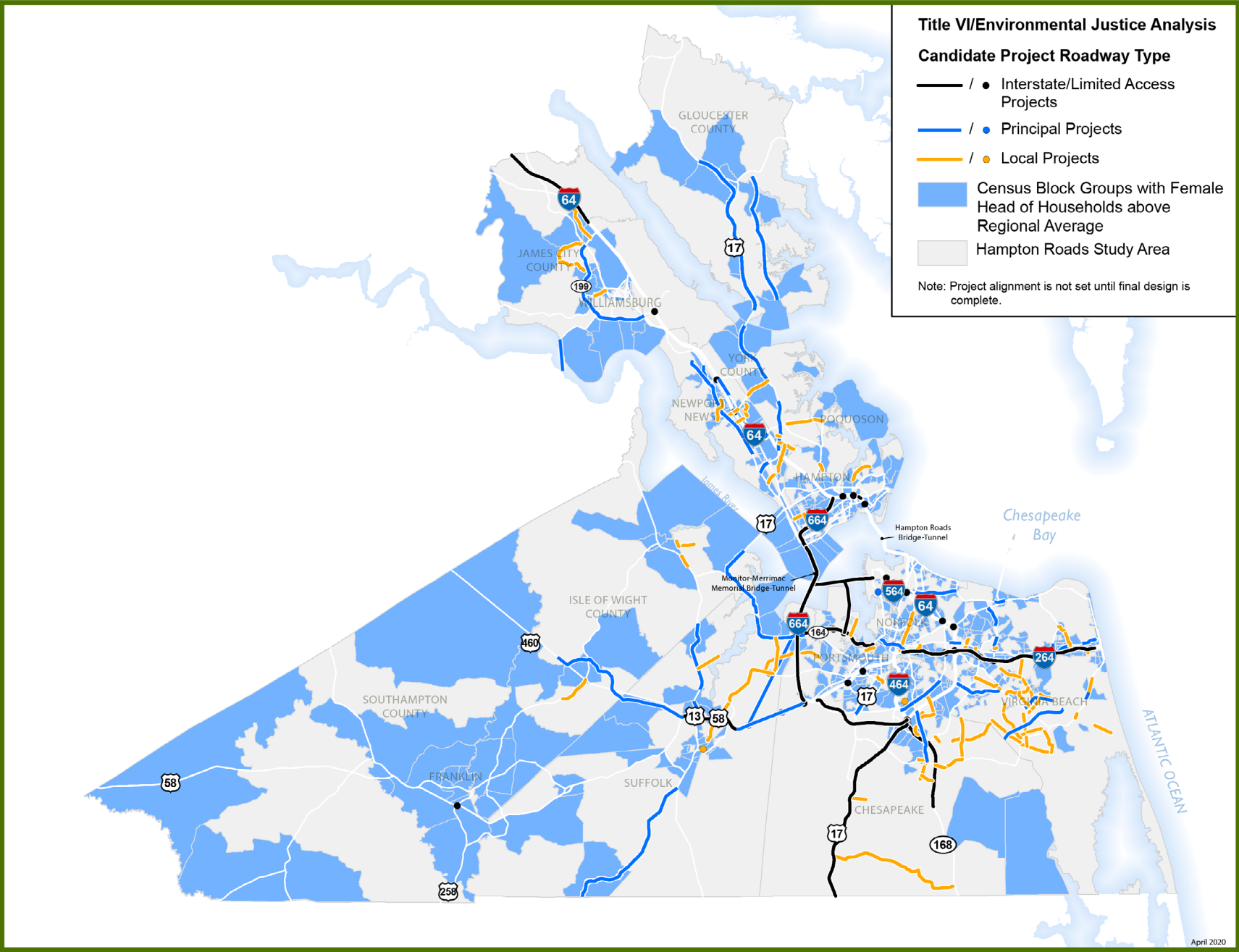
MAP R-2: ROADWAY CANDIDATE PROJECTS/DISABLED POPULATIONS



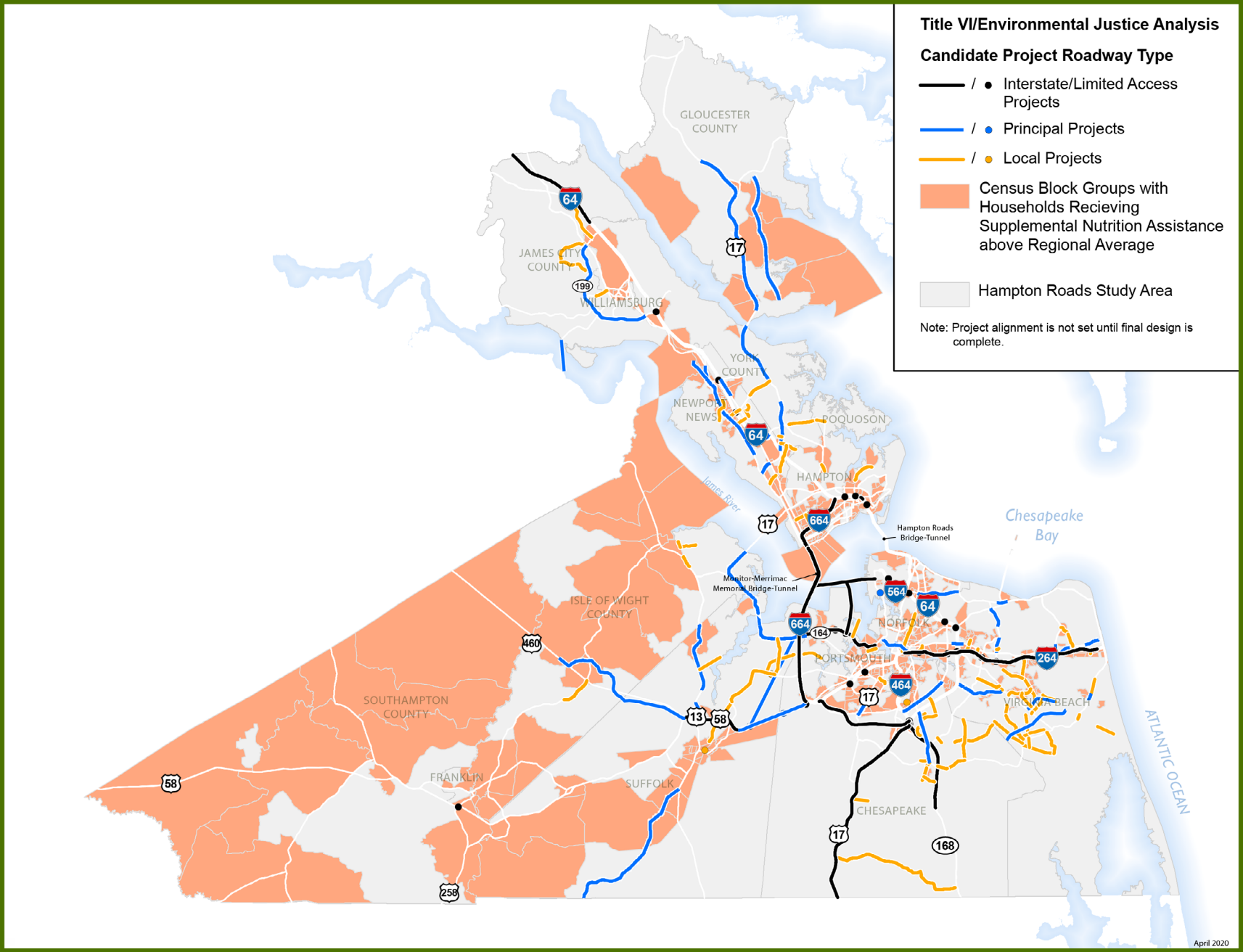
MAP R-3: ROADWAY CANDIDATE PROJECTS/ELDERLY POPULATIONS



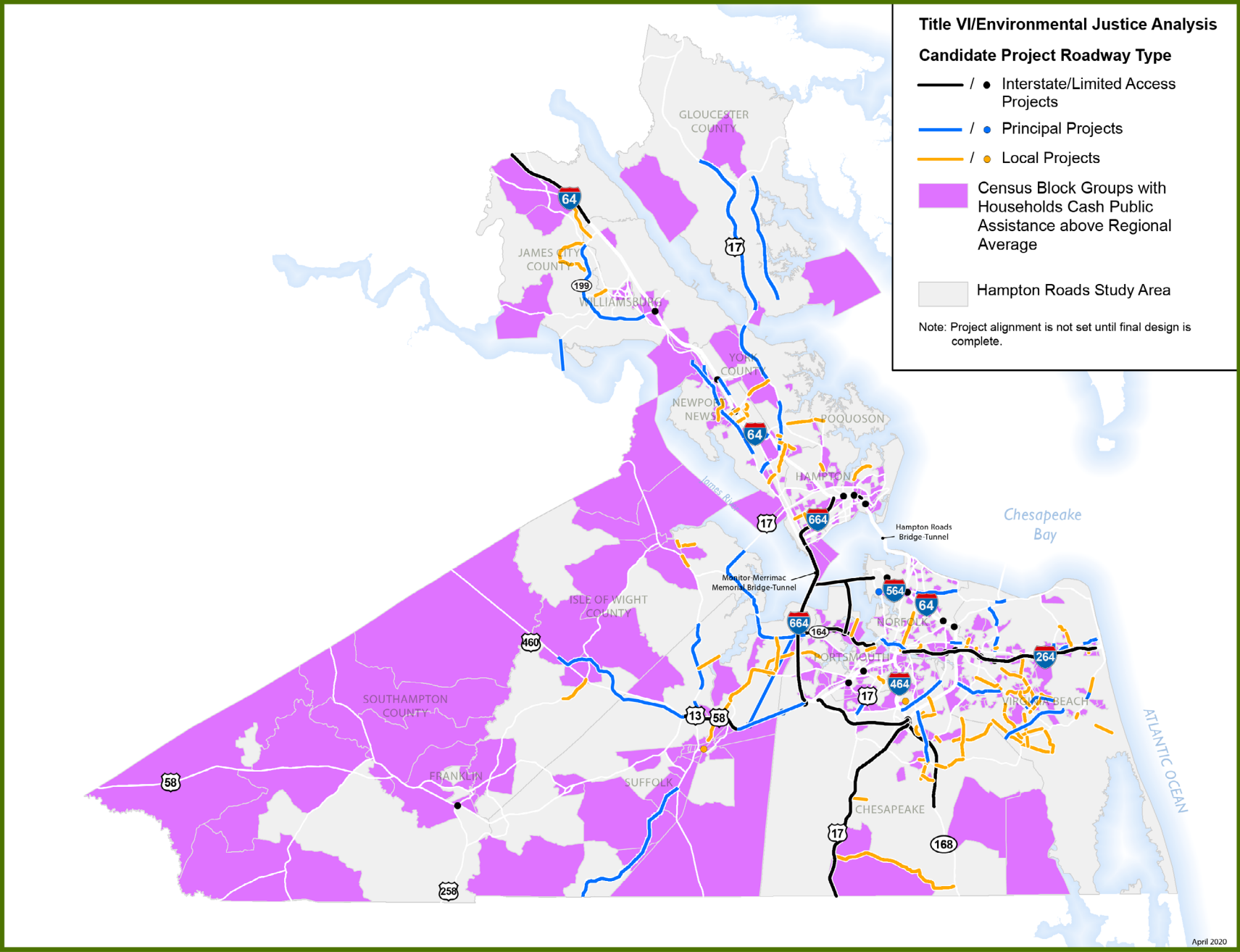
MAP R-4: ROADWAY CANDIDATE PROJECTS/FEMALE HEAD OF HOUSEHOLDS



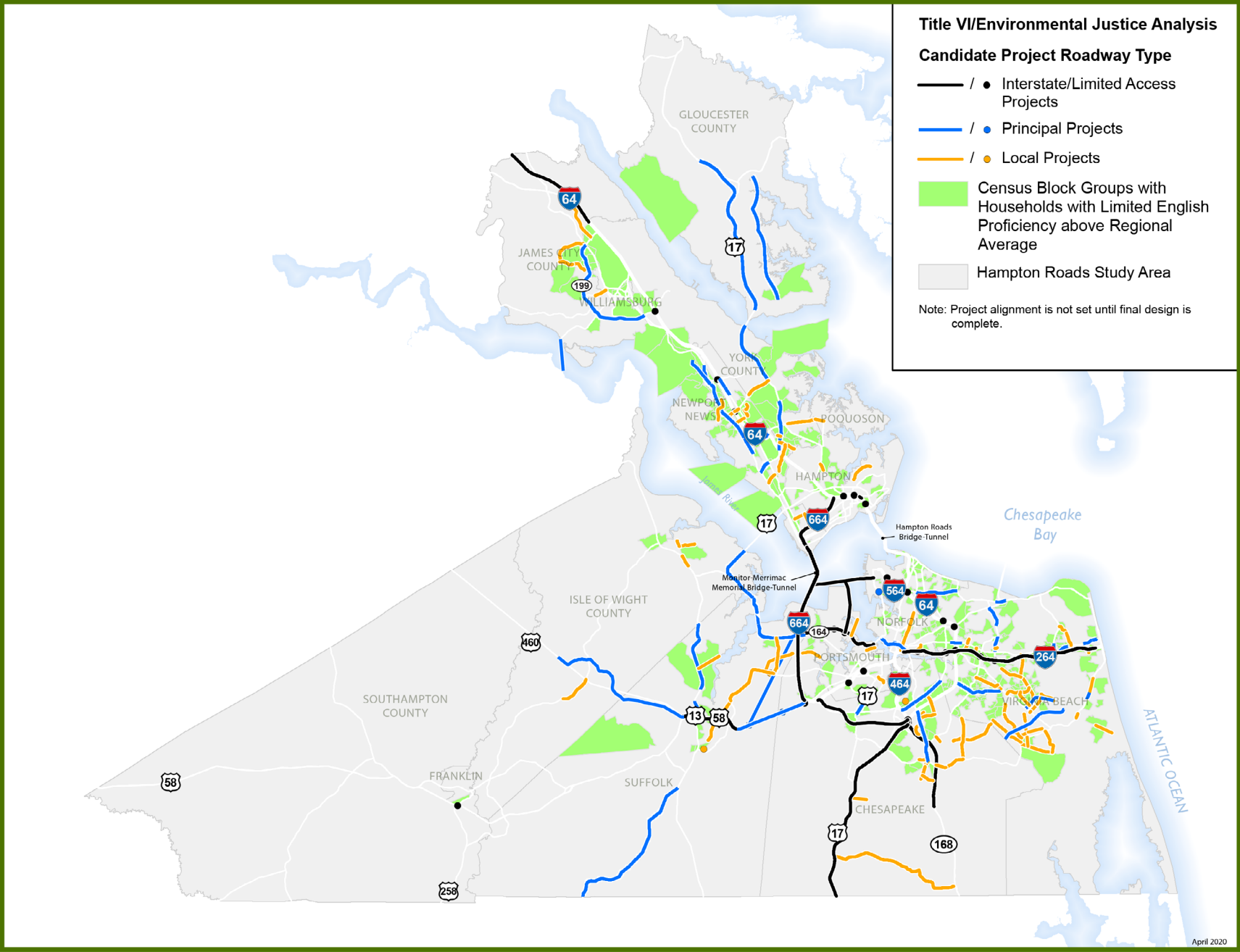
MAP R-5: ROADWAY CANDIDATE PROJECTS/HOUSEHOLDS RECEIVING FOOD STAMPS



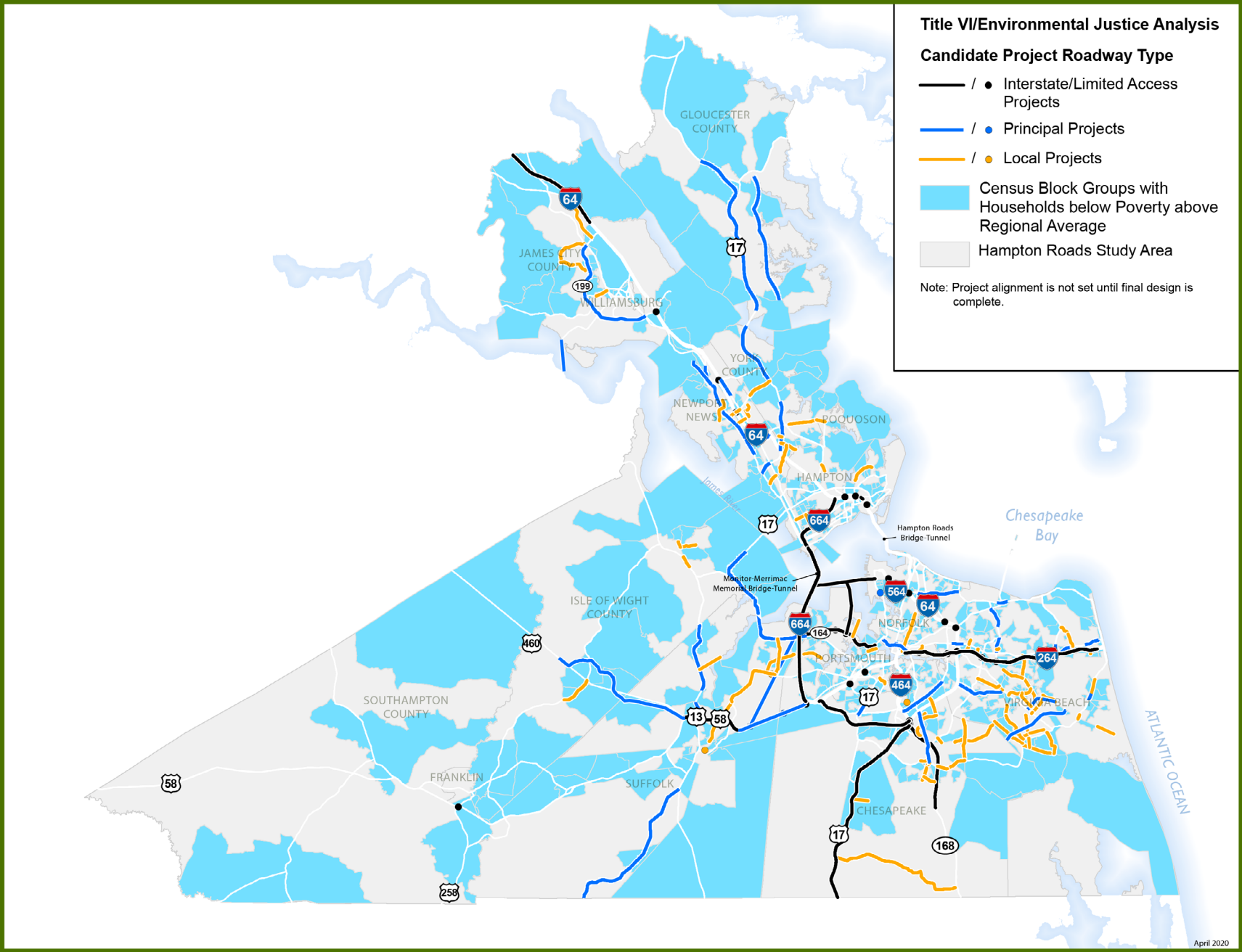
MAP R-6: ROADWAY CANDIDATE PROJECTS/HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE



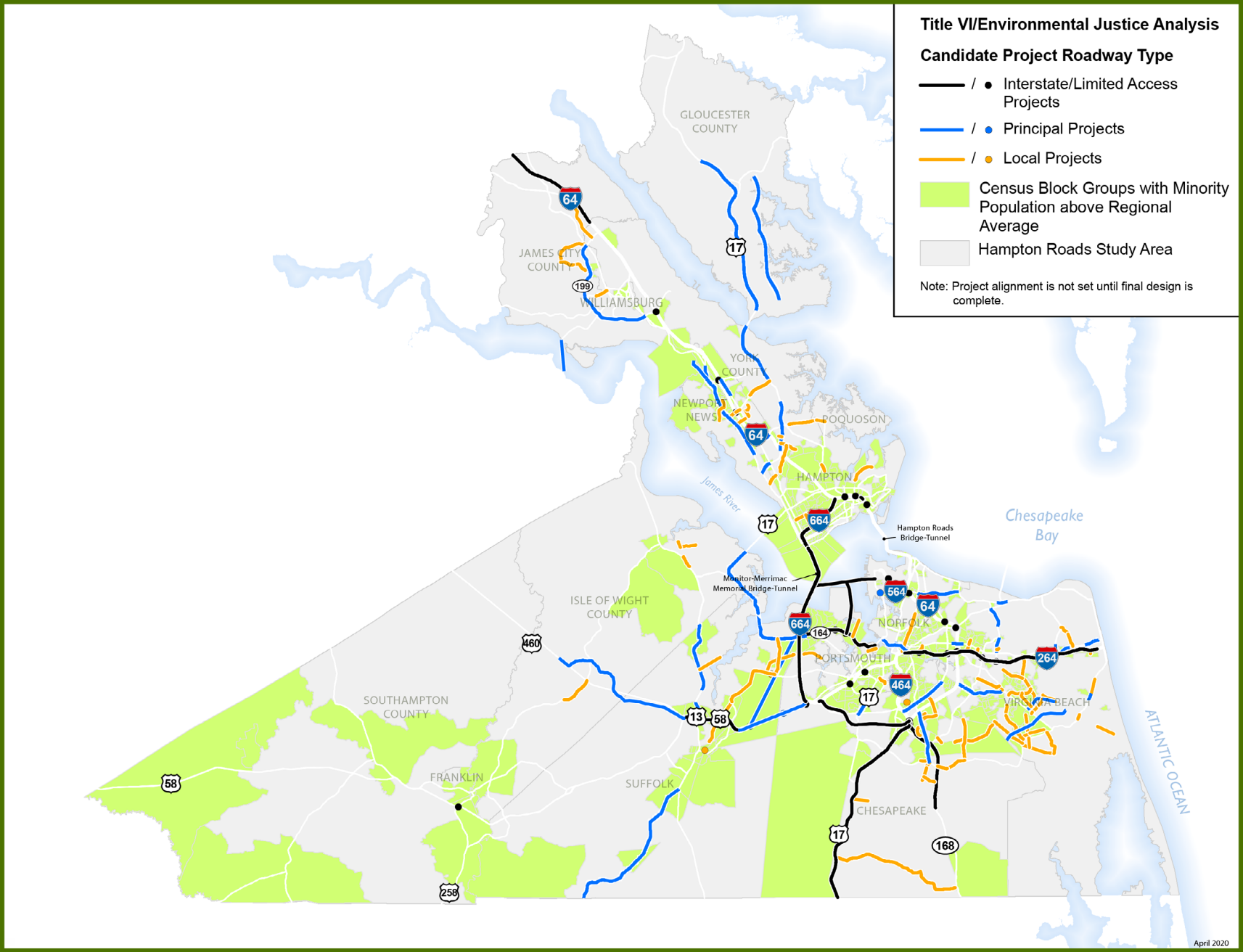
MAP R-7: ROADWAY CANDIDATE PROJECTS/LIMITED ENGLISH PROFICIENCY POPULATIONS



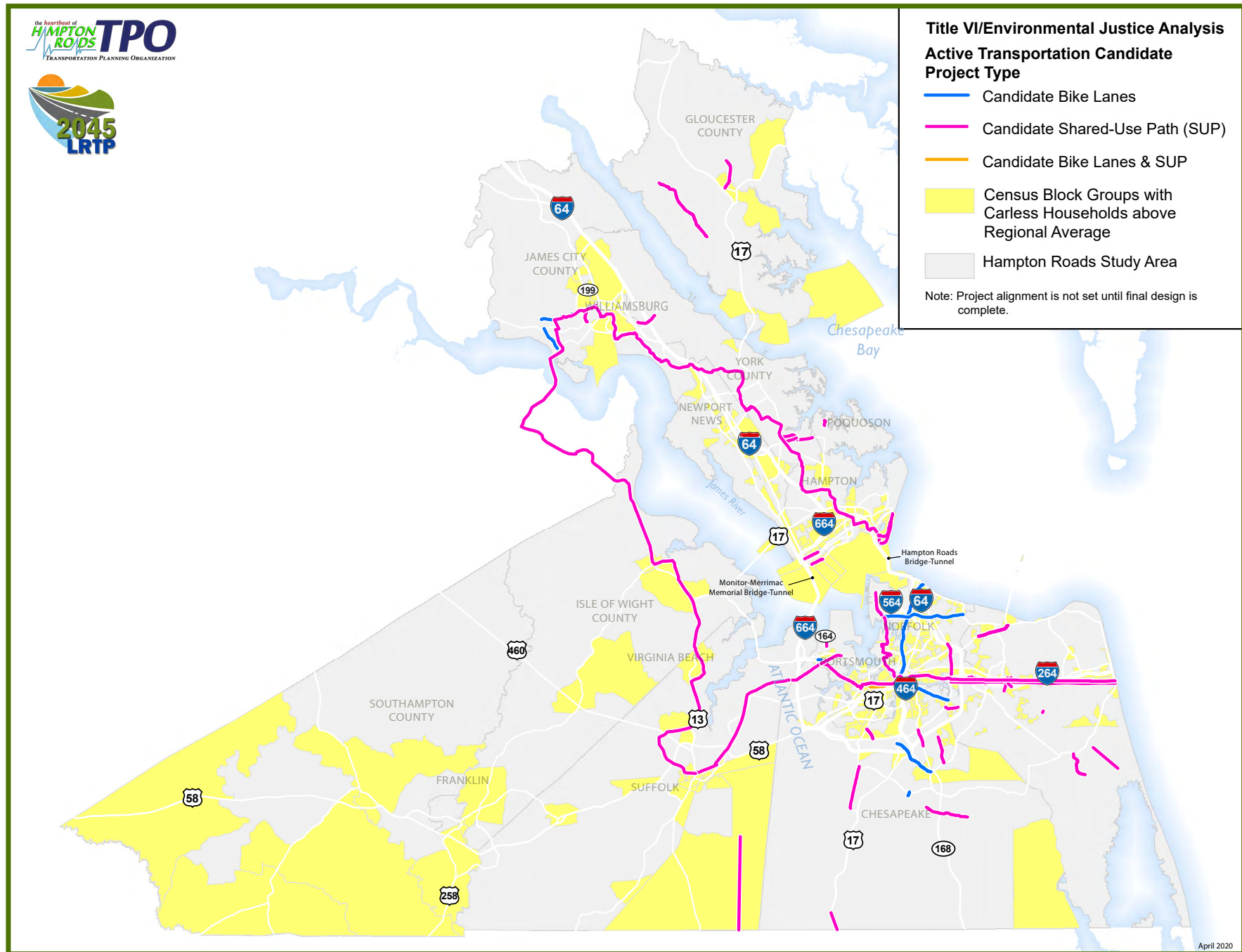
MAP R-8: ROADWAY CANDIDATE PROJECTS/LOW-INCOME HOUSEHOLDS



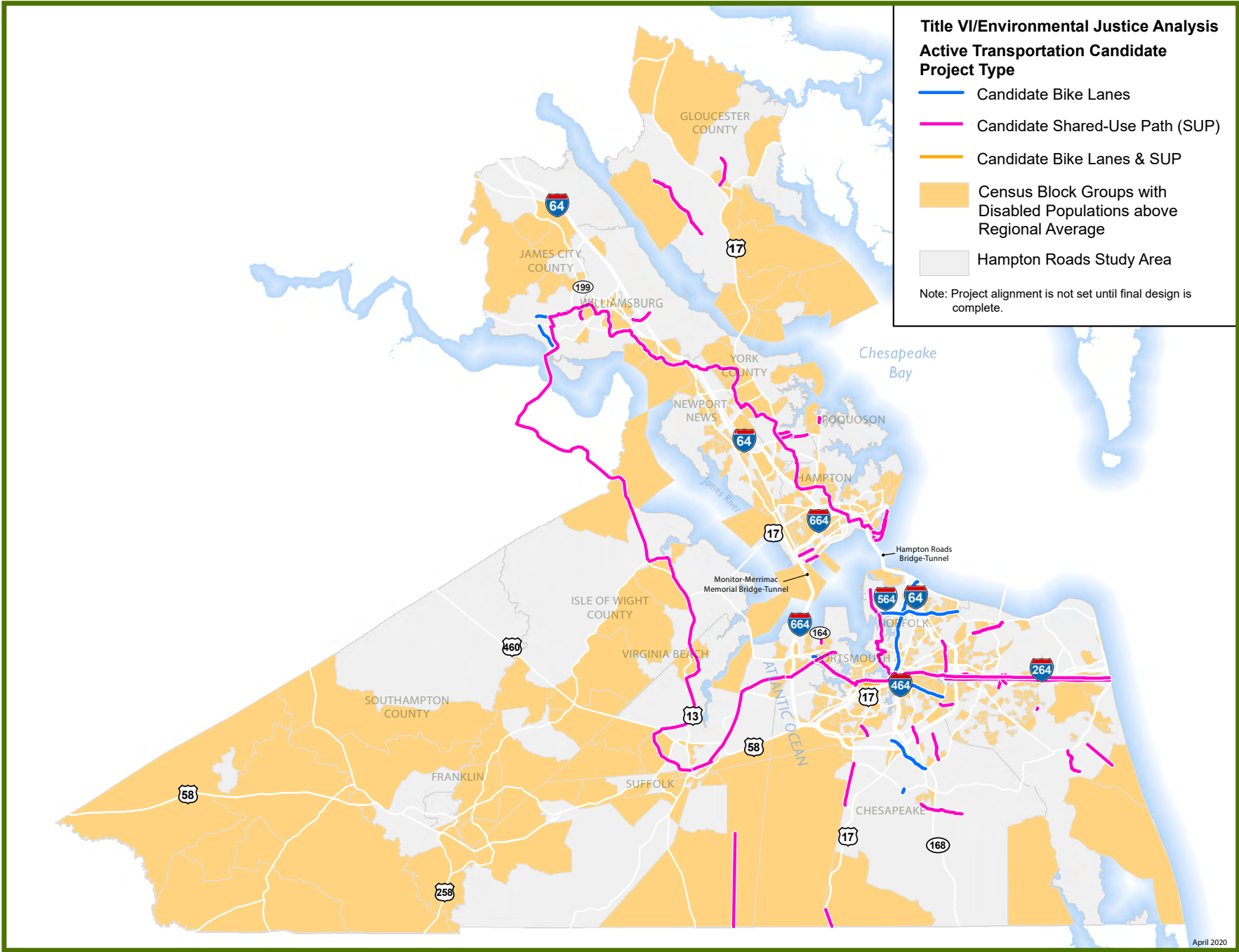
MAP R-9: ROADWAY CANDIDATE PROJECTS/MINORITY POPULATIONS



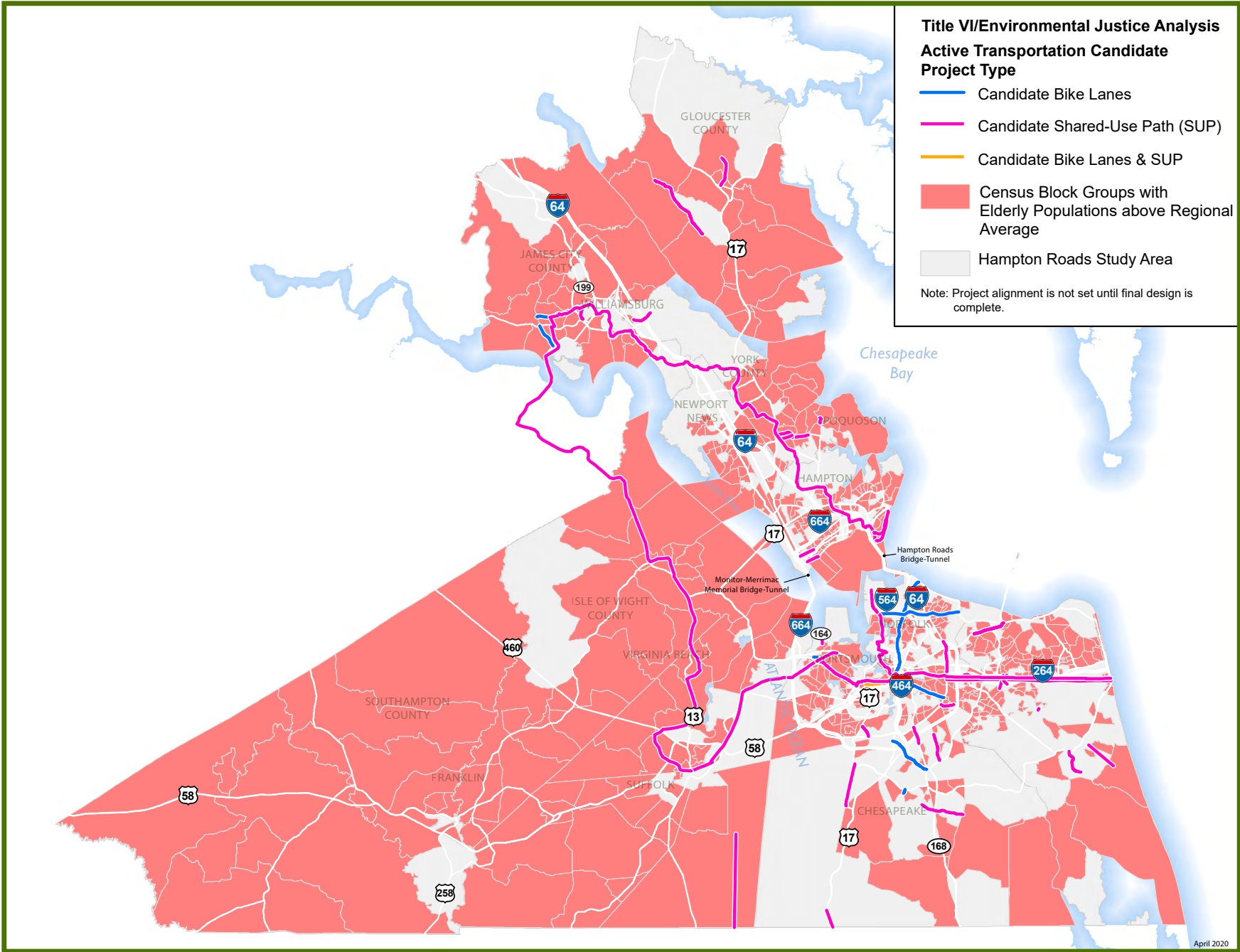
MAP A-1: ACTIVE TRANSPORTATION CANDIDATE PROJECTS/CARLESS HOUSEHOLDS



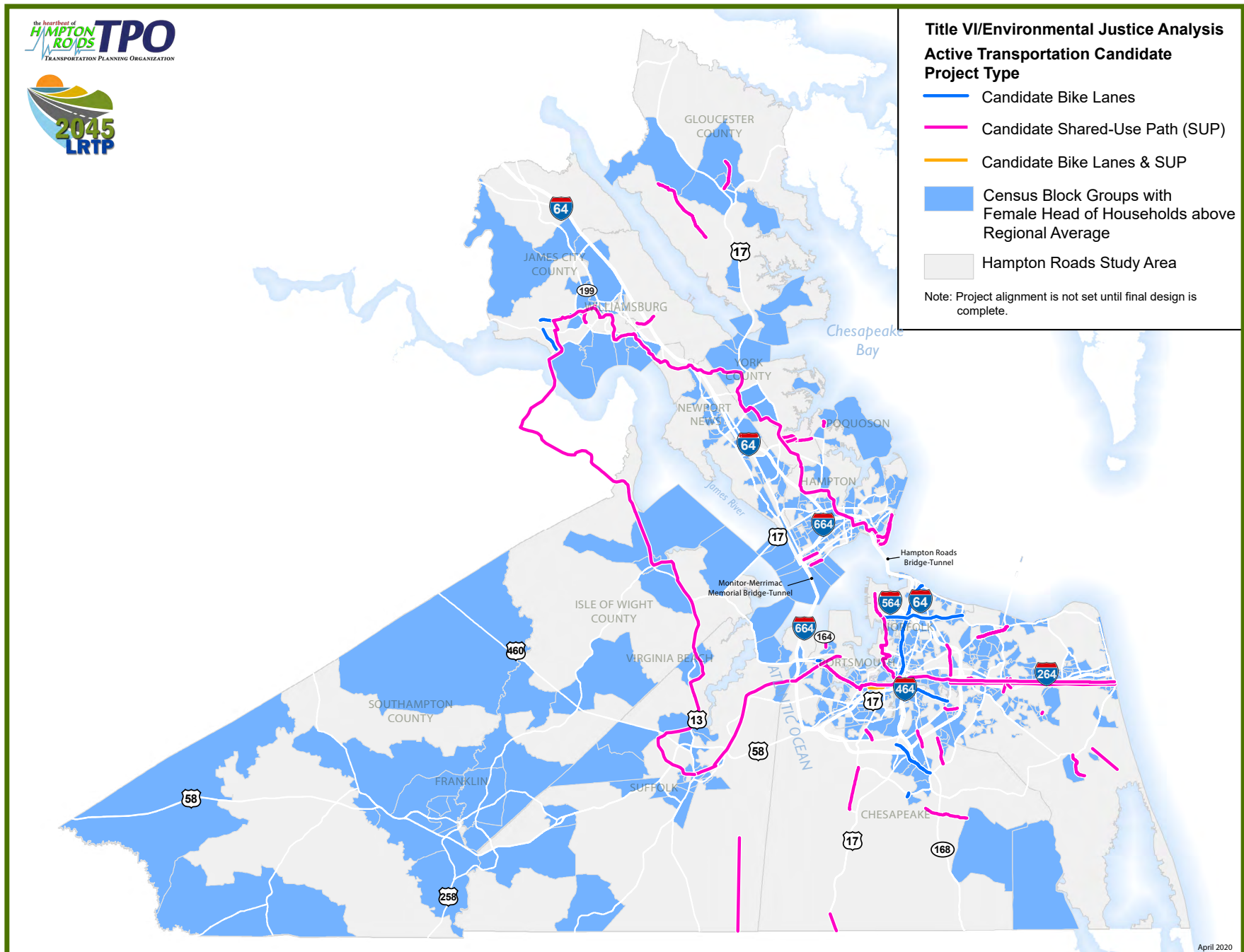
MAP A-2: ACTIVE TRANSPORTATION CANDIDATE PROJECTS/DISABLED POPULATIONS



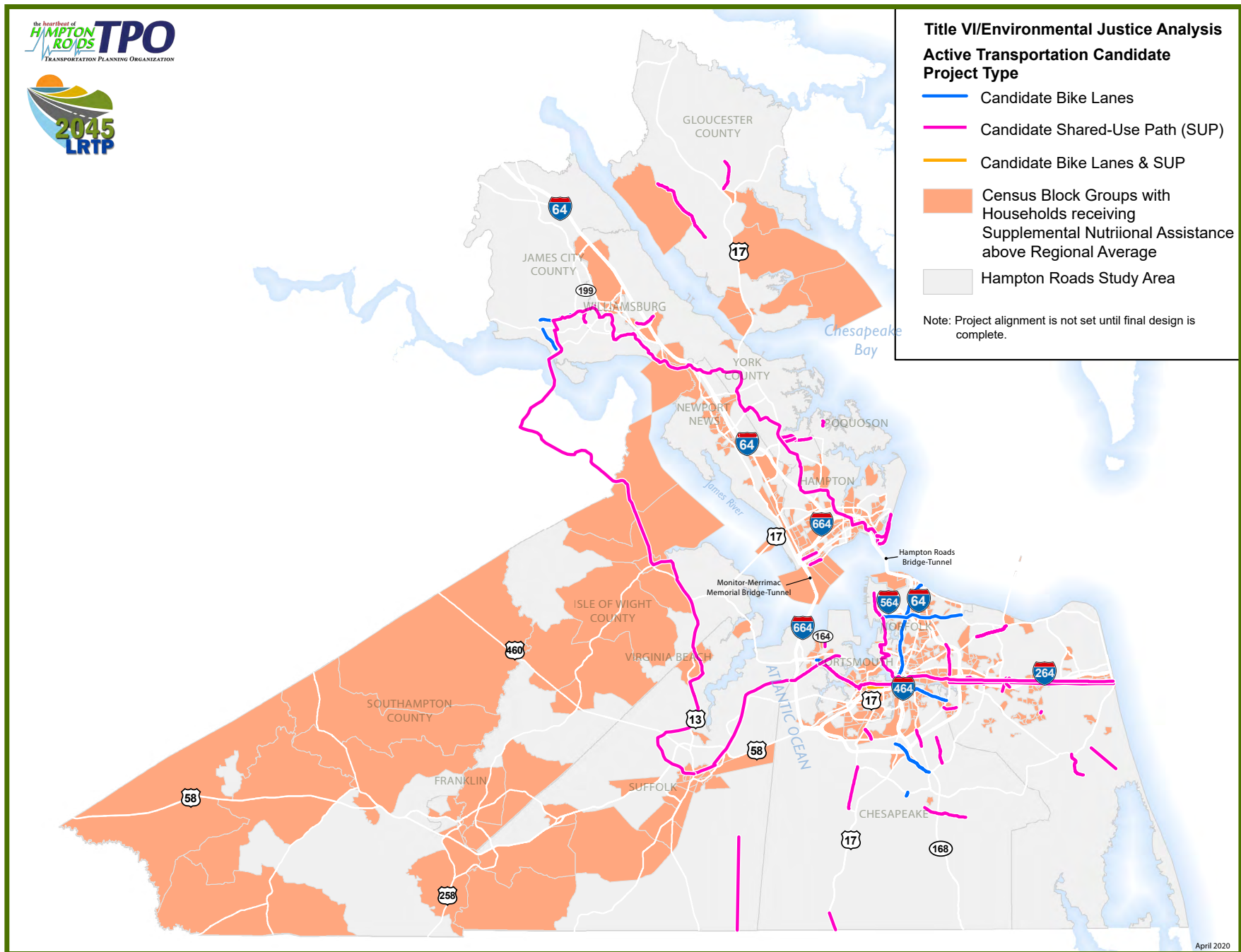
MAP A-3: ACTIVE TRANSPORTATION CANDIDATE PROJECTS/ELDERLY POPULATIONS



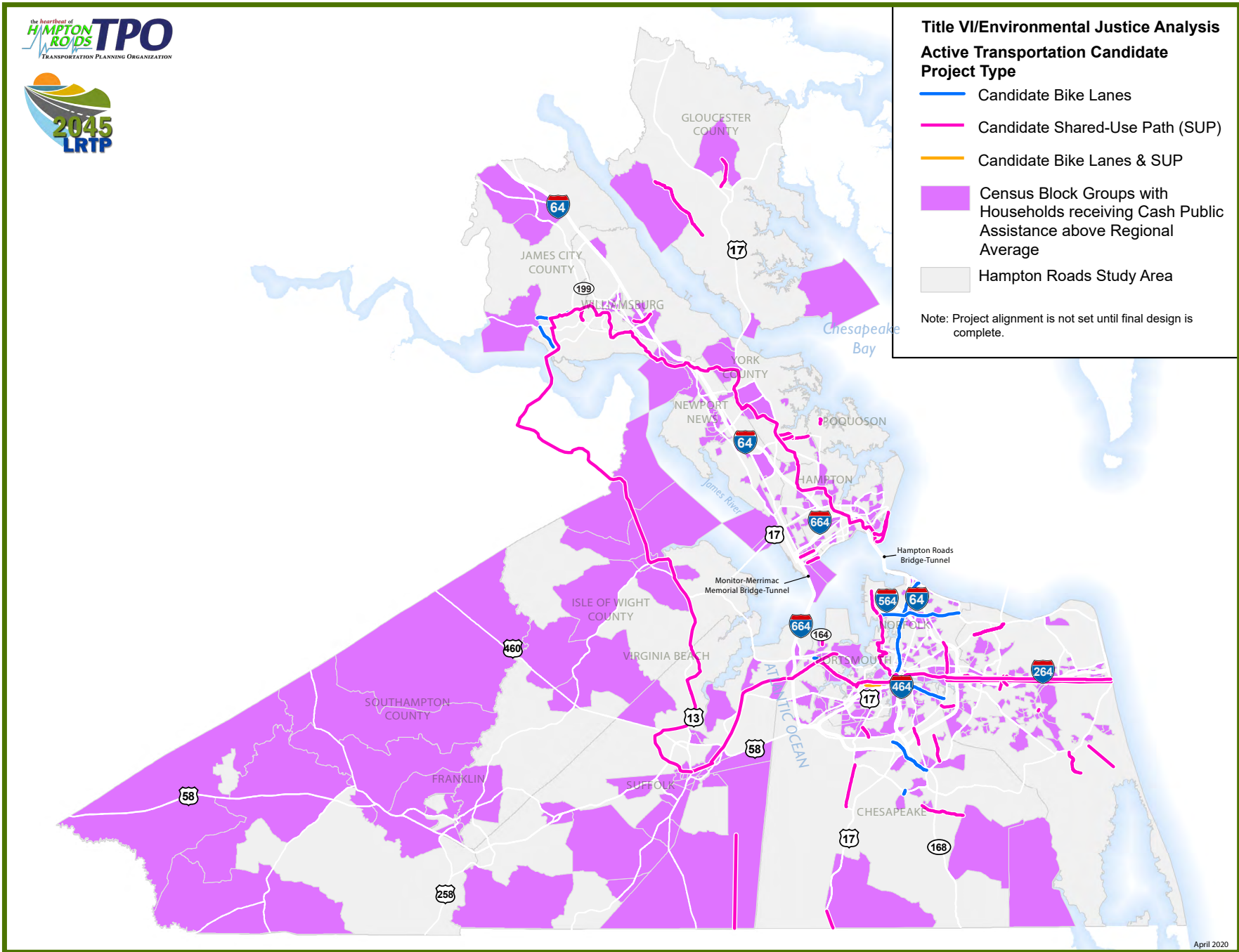
MAP A-4: ACTIVE TRANSPORTATION CANDIDATE PROJECTS/FEMALE HEAD OF HOUSEHOLDS



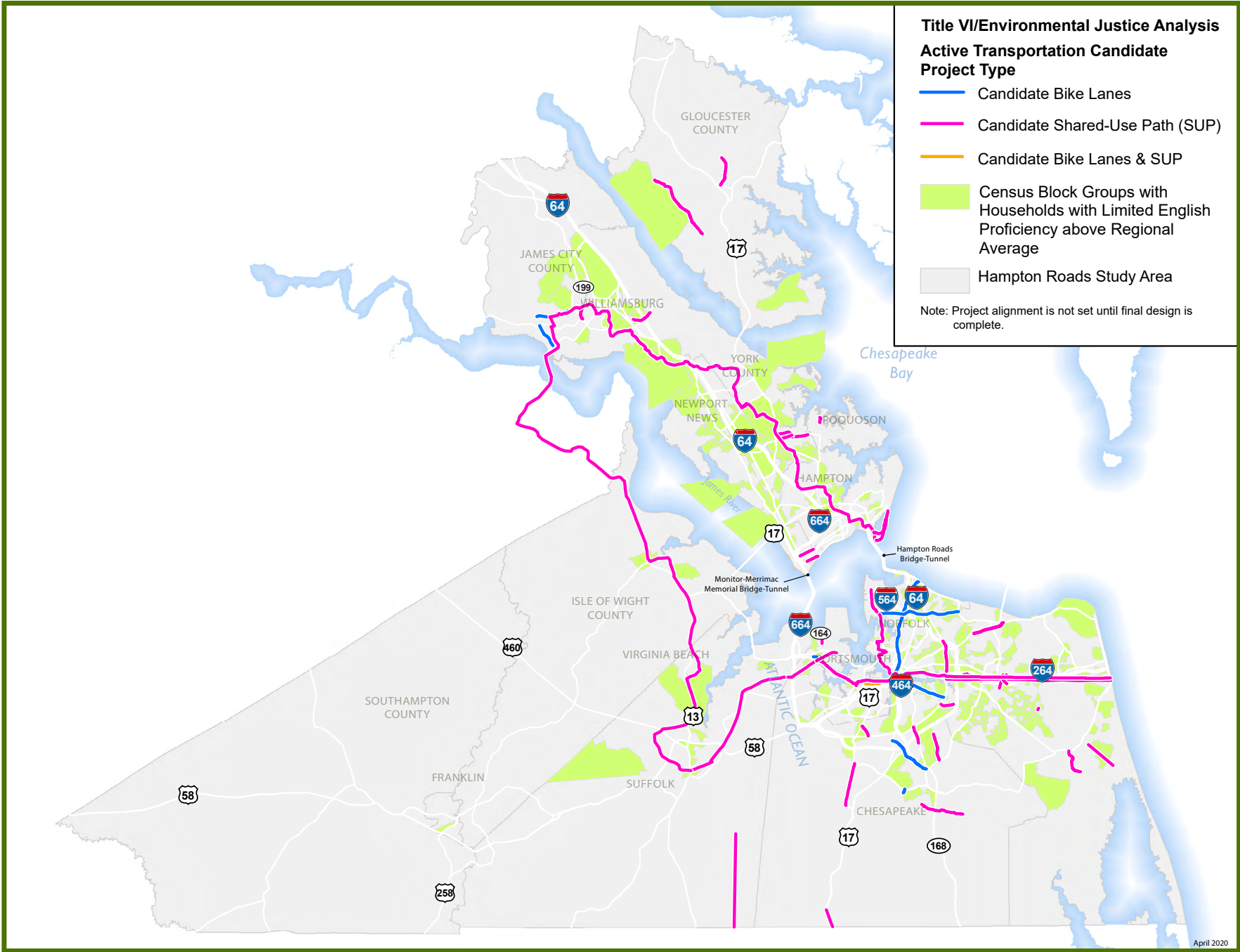
MAP A-5: ACTIVE TRANSPORTATION CANDIDATE PROJECTS/HOUSEHOLDS RECEIVING FOOD STAMPS



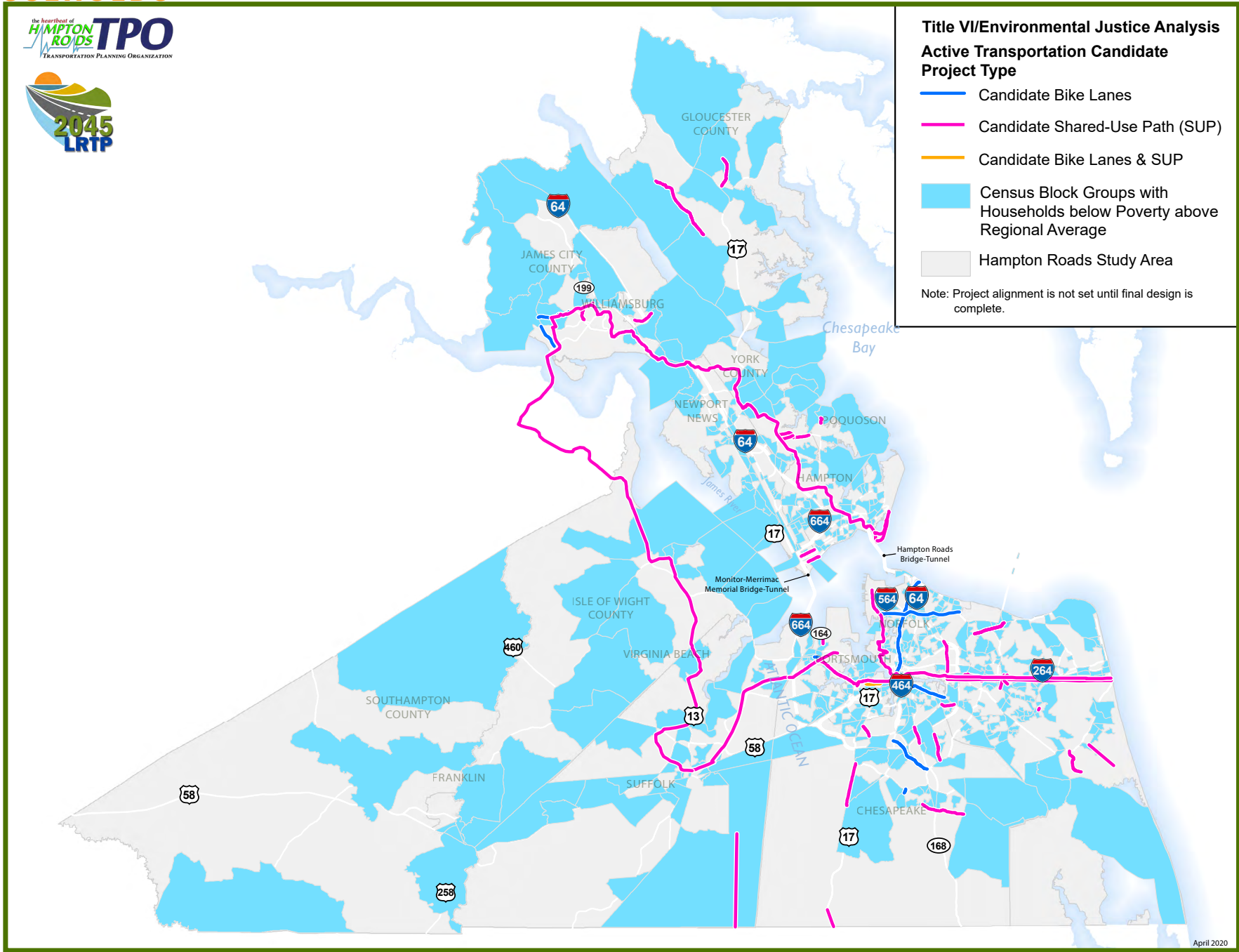
MAP A-6: ACTIVE TRANSPORTATION CANDIDATE PROJECTS/HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE



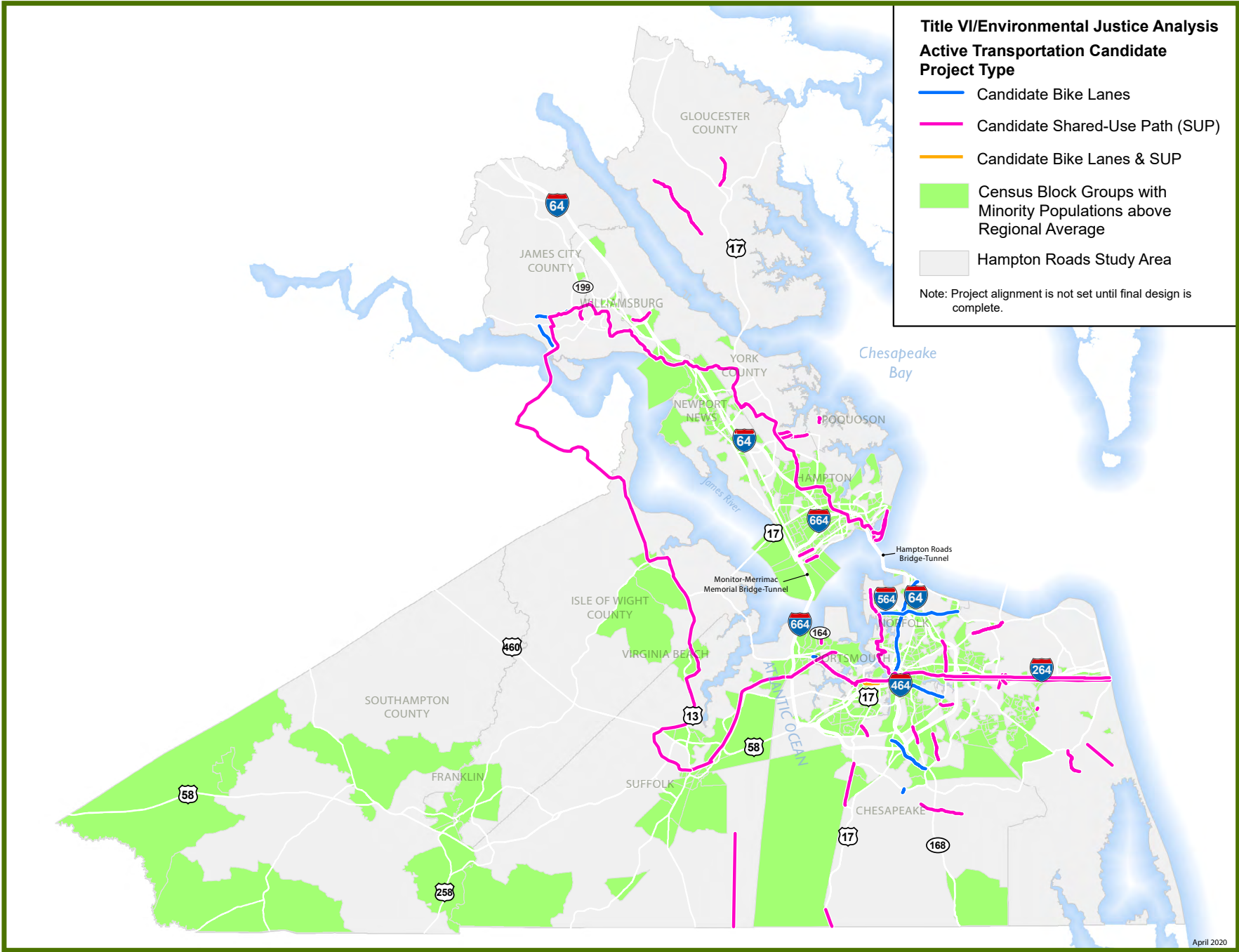
MAP A-7: ACTIVE TRANSPORTATION CANDIDATE PROJECTS/LIMITED ENGLISH PROFICIENCY POPULATIONS



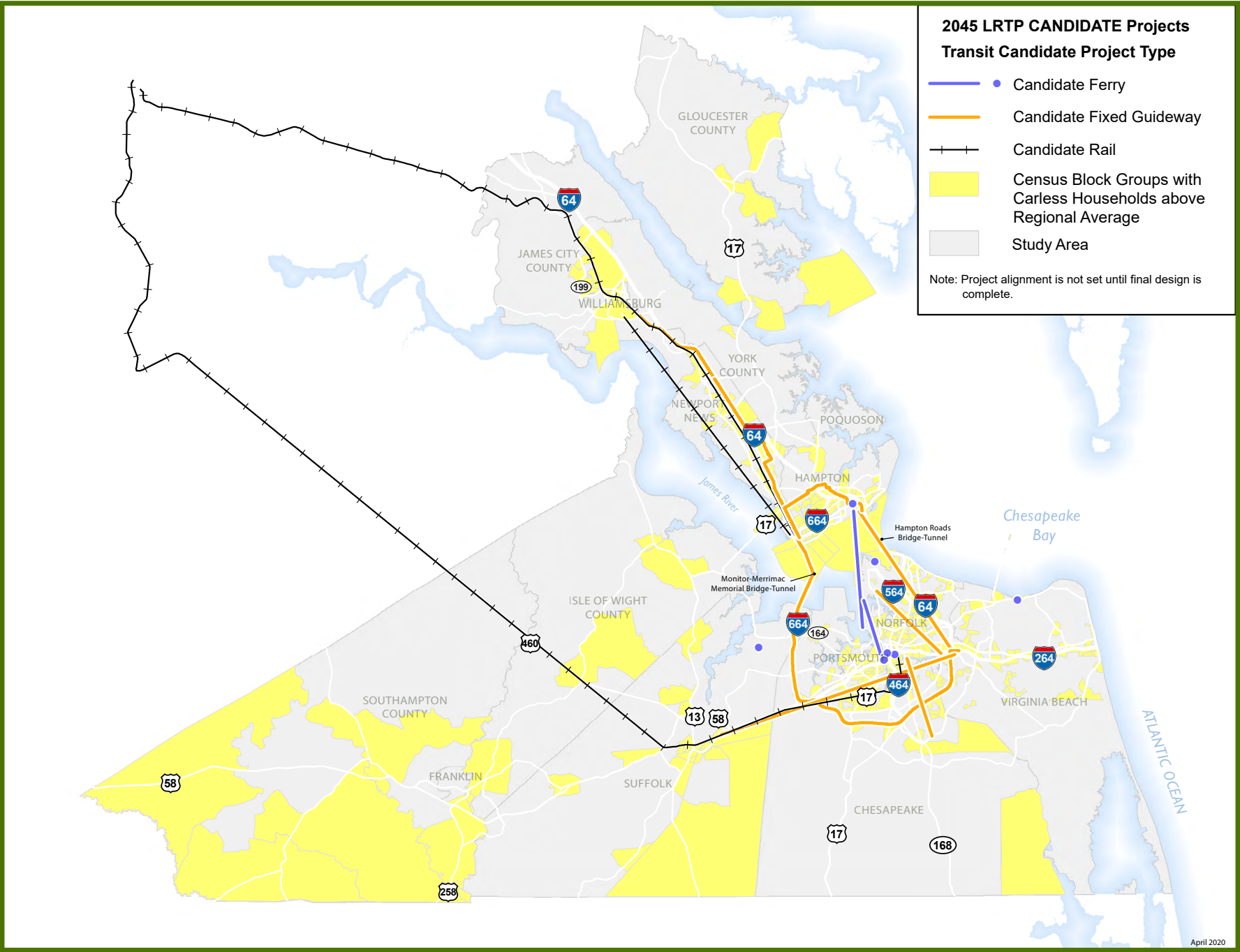
MAP A-8: ACTIVE TRANSPORTATION CANDIDATE PROJECTS/LOW-INCOME HOUSEHOLDS



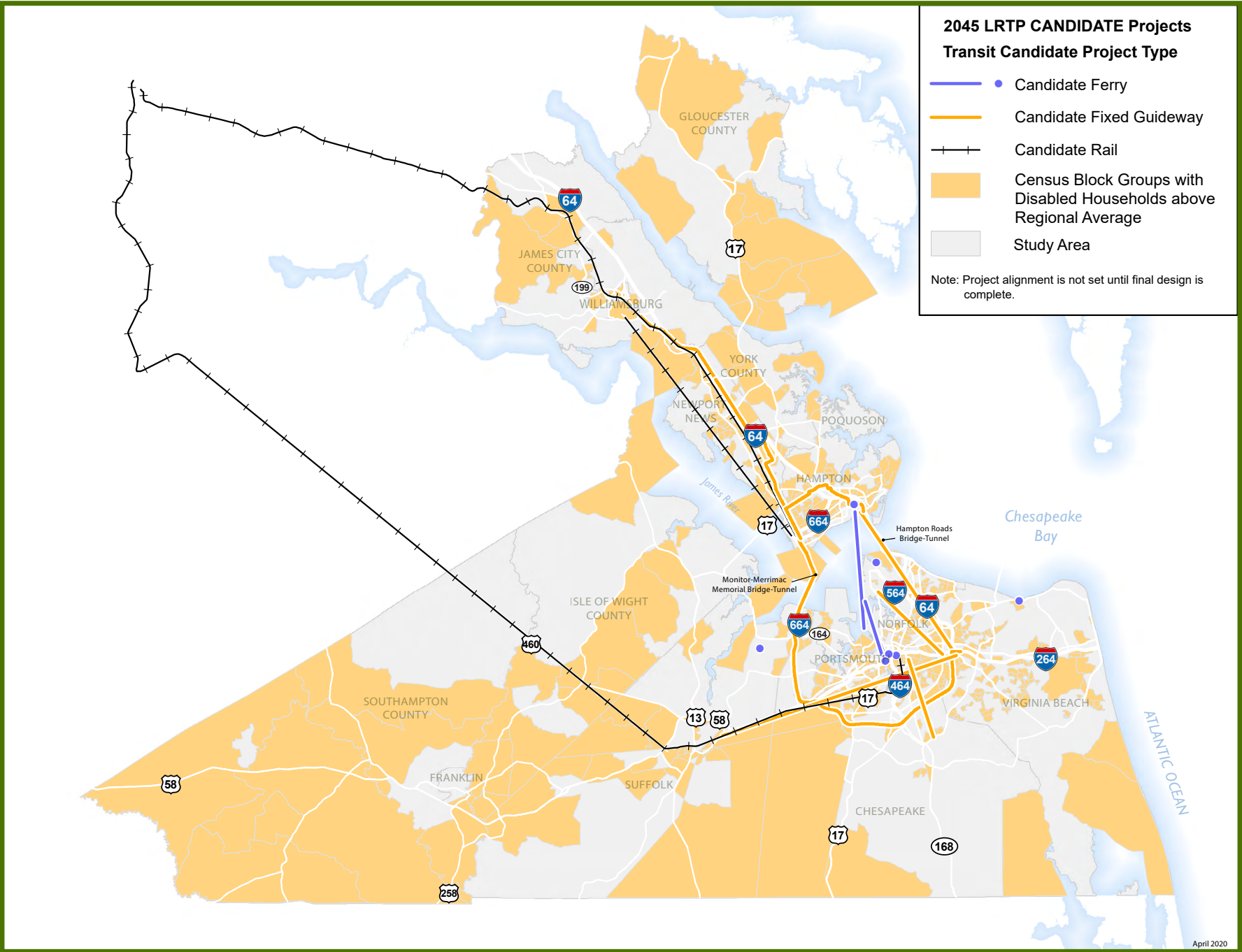
MAP A-9: ACTIVE TRANSPORTATION CANDIDATE PROJECTS/MINORITY POPULATIONS



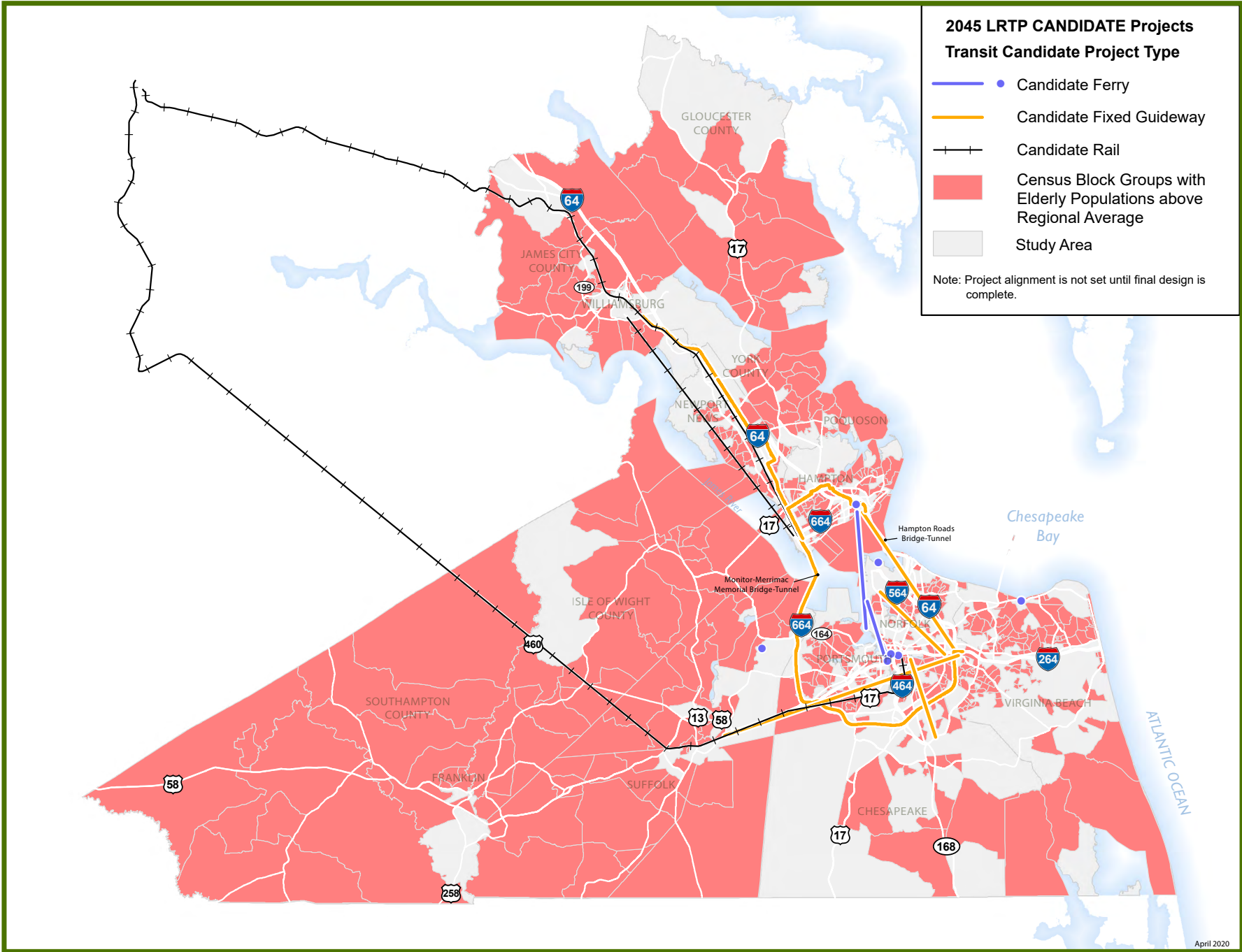
MAP T-1: TRANSIT CANDIDATE PROJECTS/CARLESS HOUSEHOLDS



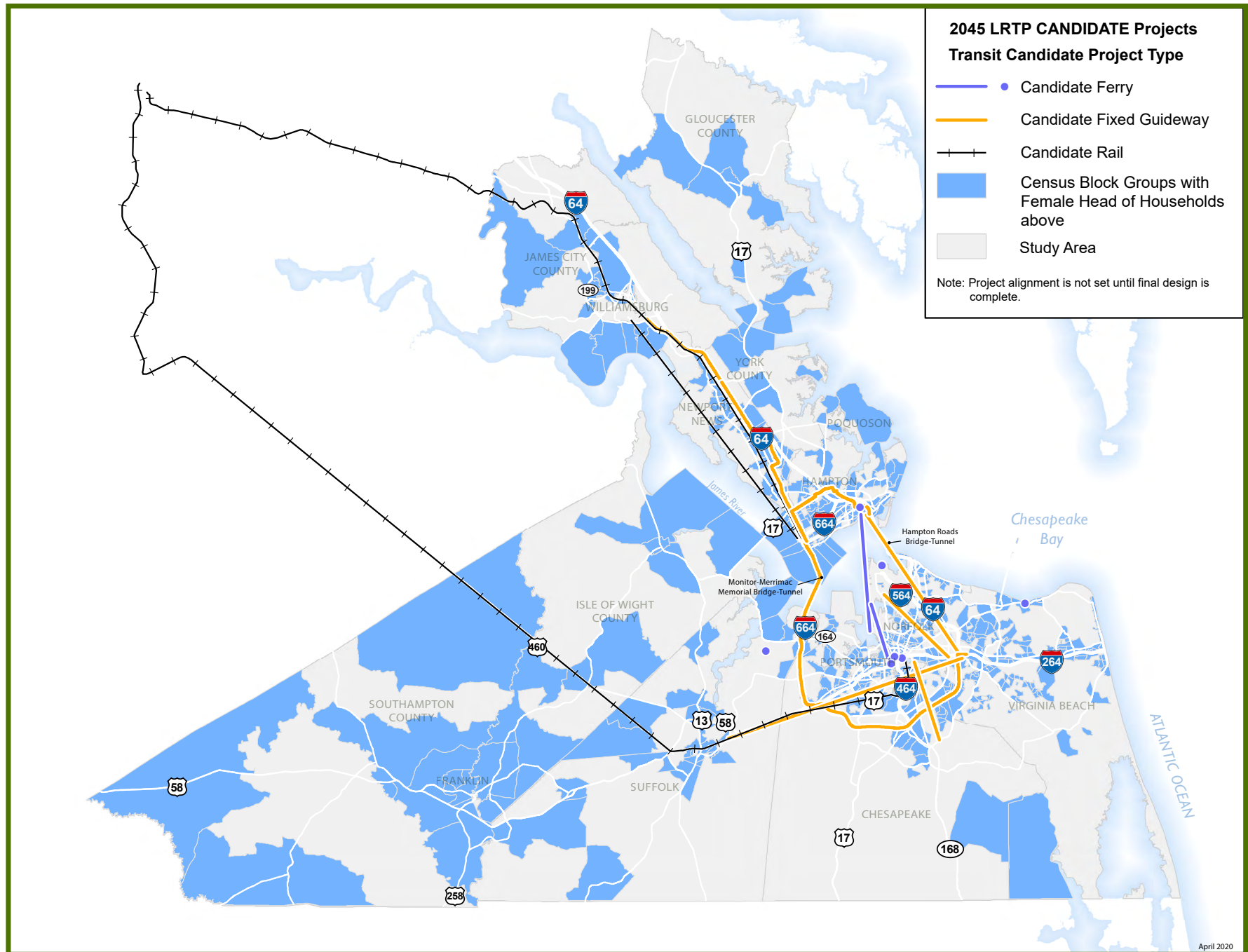
MAP T-2: TRANSIT CANDIDATE PROJECTS/DISABLED POPULATIONS



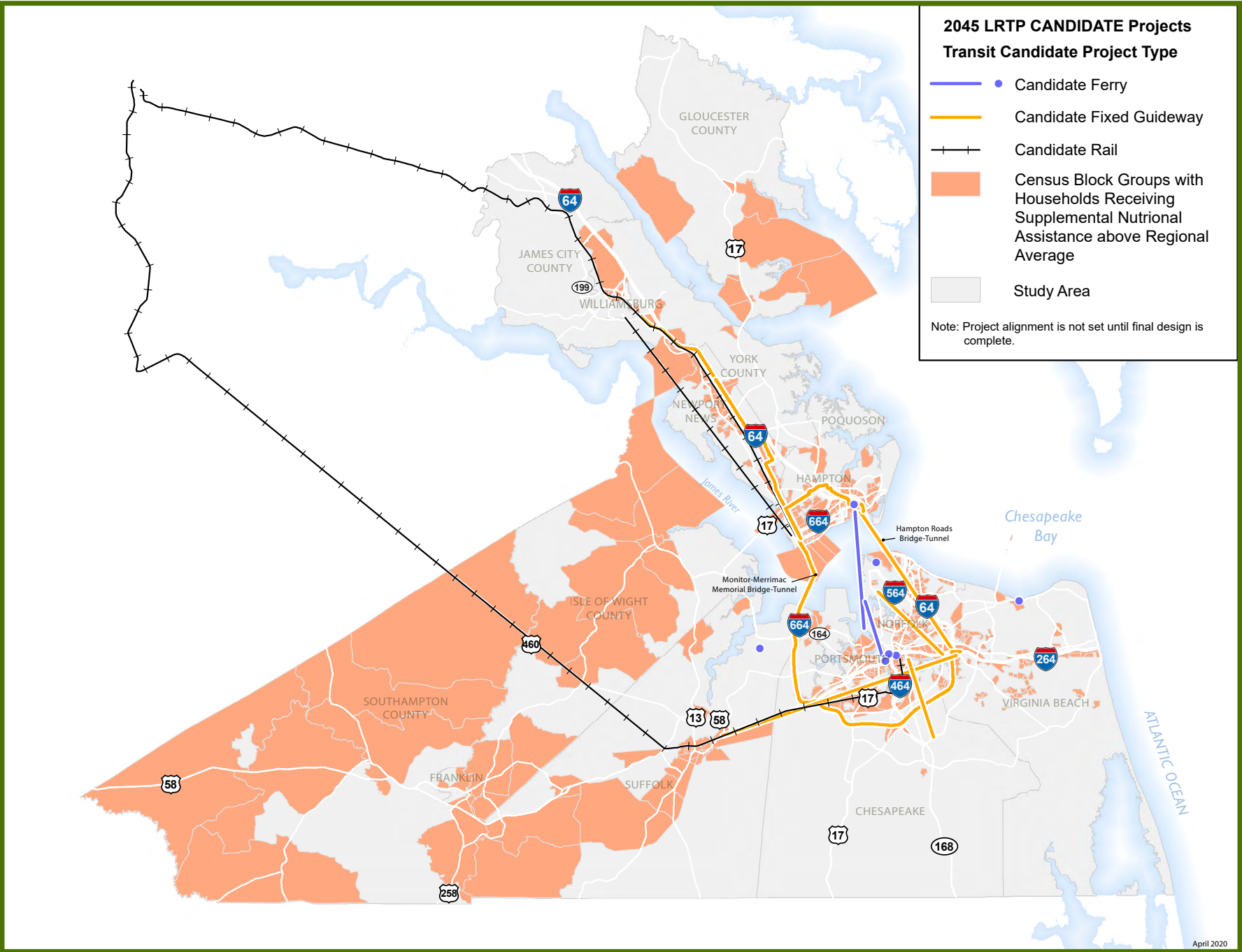
MAP T-3: TRANSIT CANDIDATE PROJECTS/ELDERLY POPULATIONS



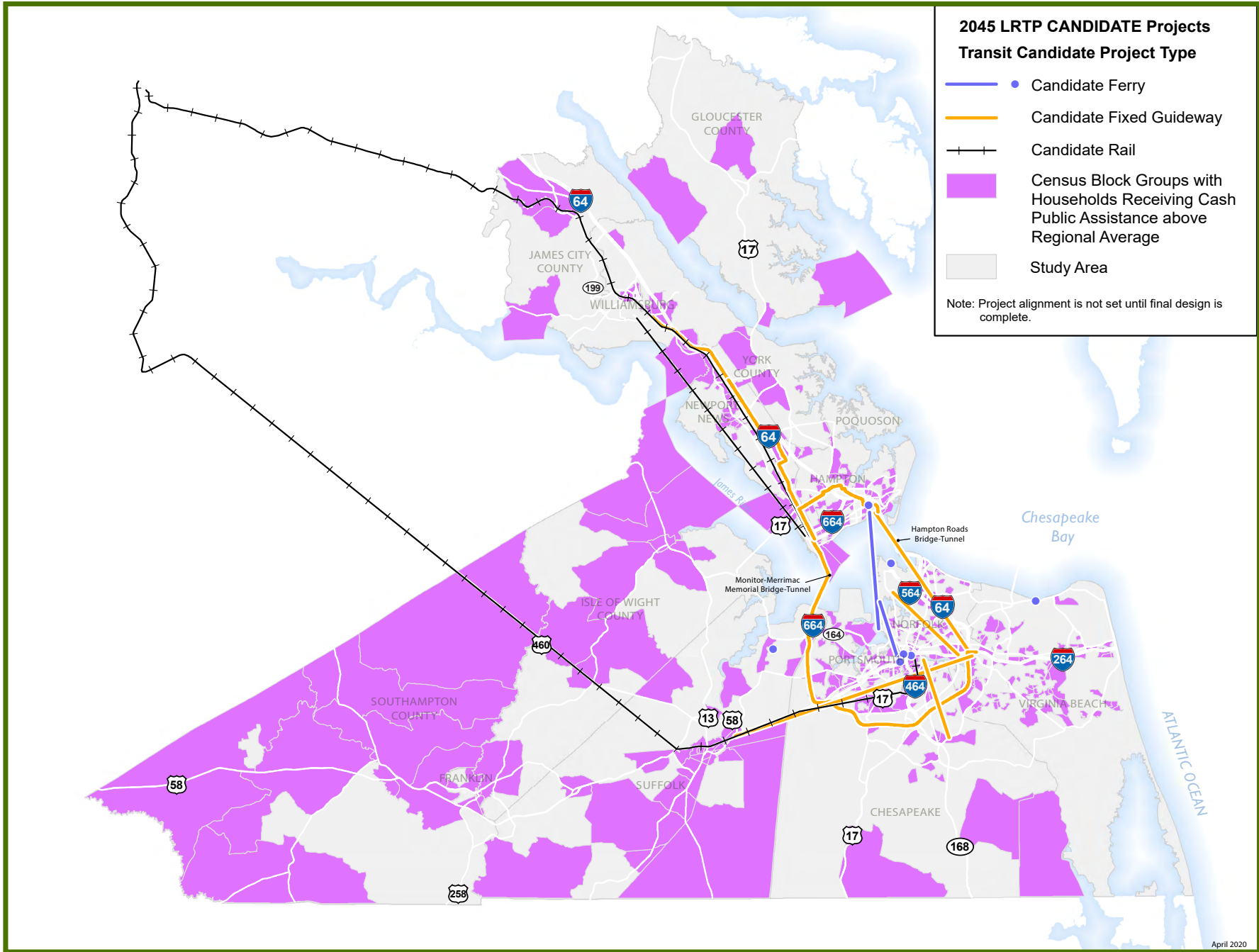
MAP T-4: TRANSIT CANDIDATE PROJECTS/FEMALE HEAD OF HOUSEHOLDS



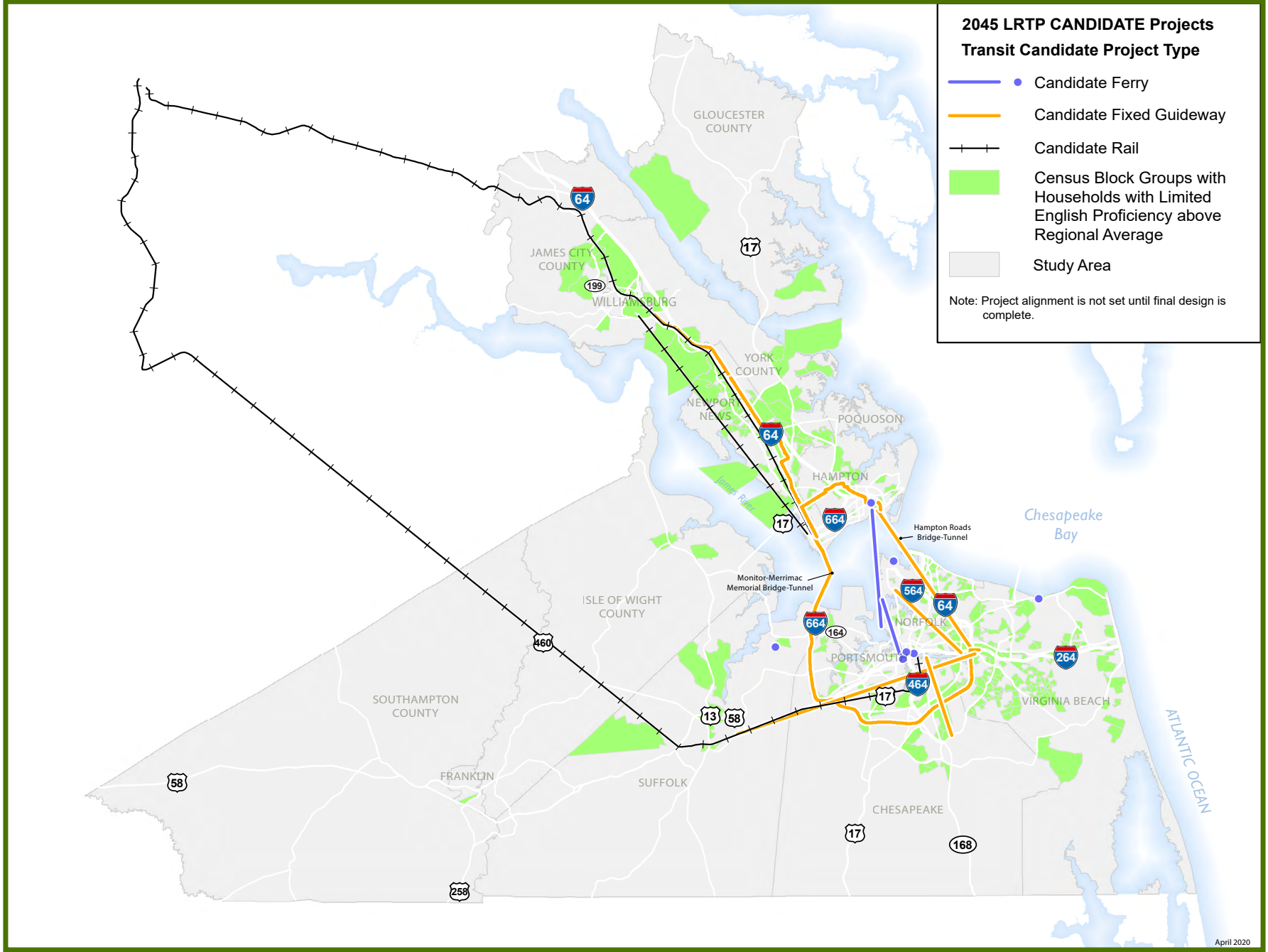
MAP T-5: TRANSIT CANDIDATE PROJECTS/HOUSEHOLDS RECEIVING FOOD STAMPS



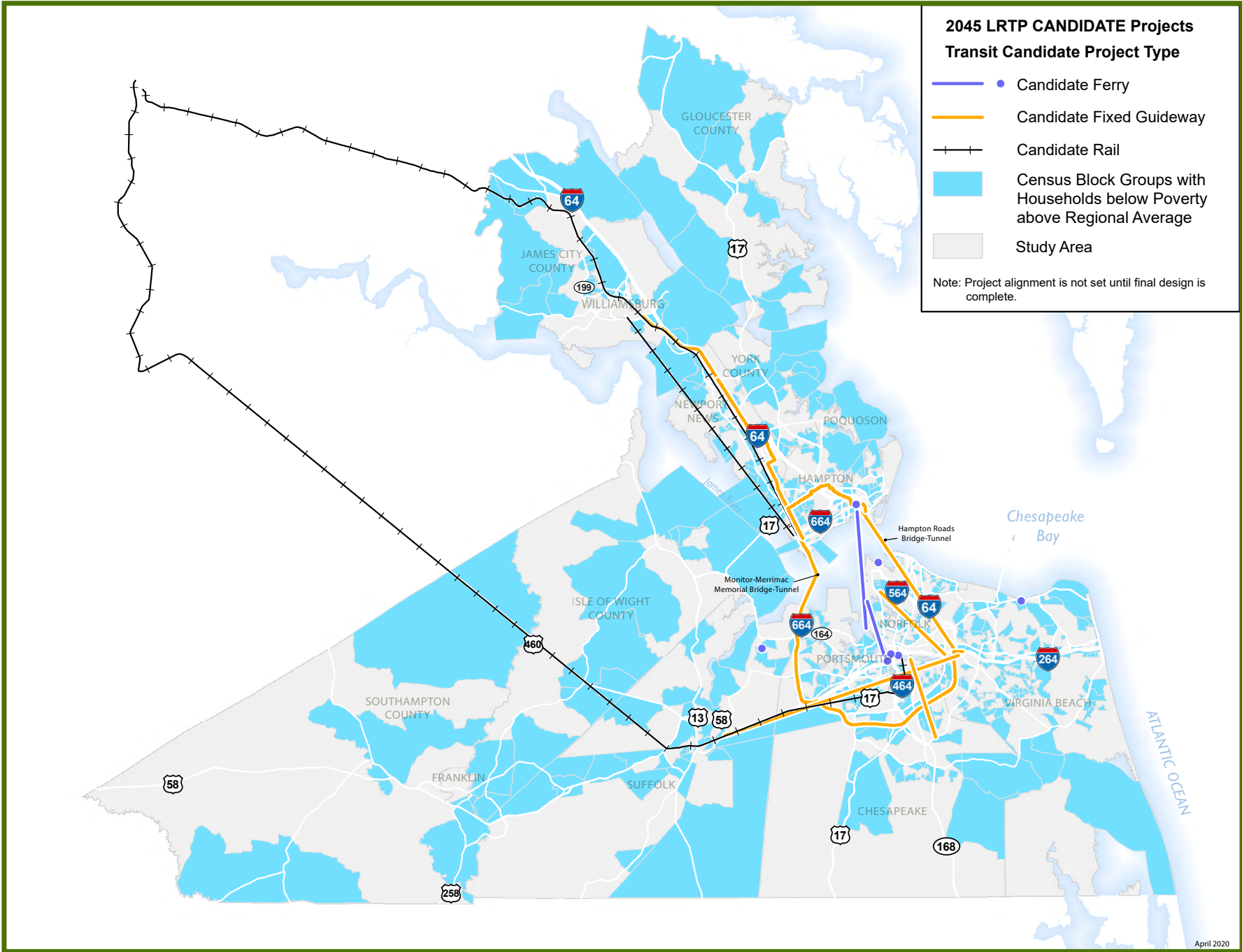
MAP T-6: TRANSIT CANDIDATE PROJECTS/HOUSEHOLDS RECEIVING CASH PUBLIC ASSISTANCE



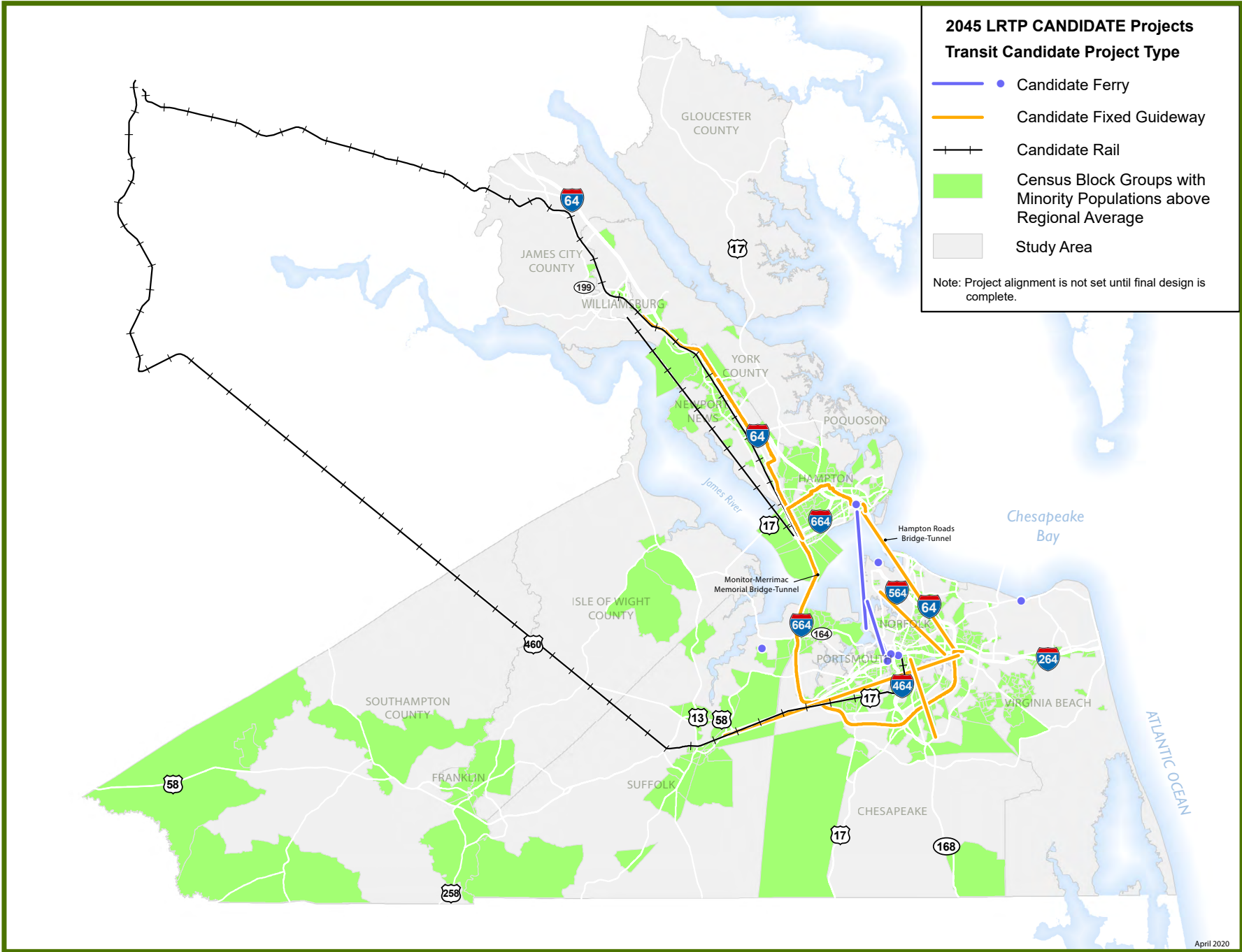
MAP T-7: TRANSIT CANDIDATE PROJECTS/LIMITED ENGLISH PROFICIENCY POPULATIONS



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

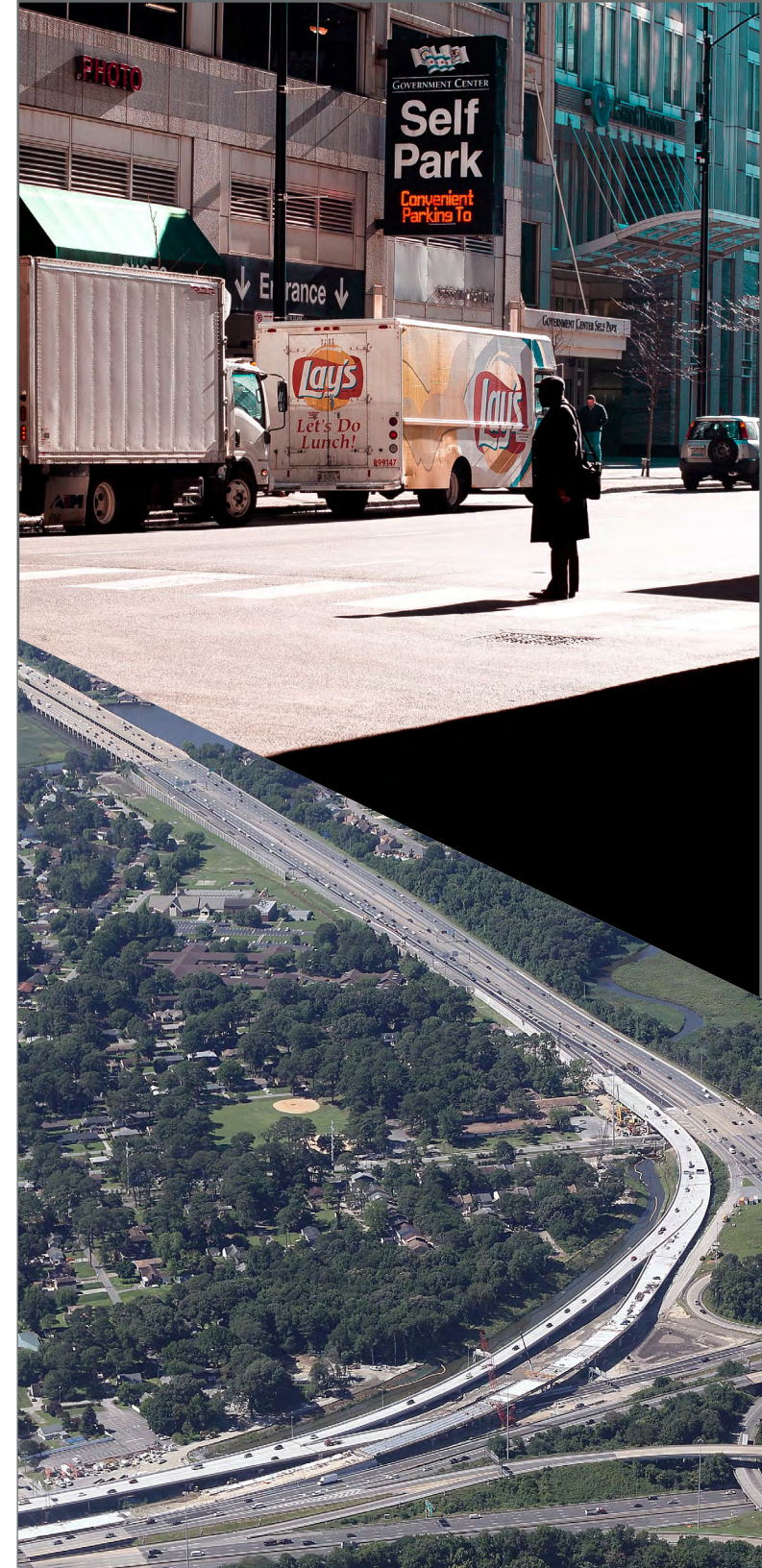


MAP T-9: TRANSIT CANDIDATE PROJECTS/MINORITY POPULATIONS



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 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 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
2045-401	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	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 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 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
2045-117	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 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 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
2045-140	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 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 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 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
2045-163	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 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 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 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
2045-189	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
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 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 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
2045-214	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

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2045-236	Indian River Rd	Virginia Beach	Highway	22	11	7	9	14	13	9	7	13	9	11
2045-237	Indian River Rd	Virginia Beach	Highway	7	0	1	0	1	1	0	0	1	4	2
2045-238	Indian River Road	Virginia Beach	Highway	13	1	1	3	1	0	2	0	5	7	8
2045-239	Jeanne St	Virginia Beach	Highway	25	7	5	8	11	13	6	7	10	12	6
2045-240	Landstown Rd - Phase I	Virginia Beach	Highway	7	2	0	3	0	1	3	1	1	2	5
2045-241	Landstown Rd Extended - Phase II	Virginia Beach	Highway	6	0	0	0	1	0	2	0	1	2	2
2045-242	Landstown Rd Extended - Phase III	Virginia Beach	Highway	4	0	0	0	1	0	1	0	1	2	2
2045-243	Landstown Rd Extended - Phase IV	Virginia Beach	Highway	4	0	0	0	1	0	0	0	1	3	1
2045-244	Laskin Road - Phase IB	Virginia Beach	Highway	22	6	11	5	8	15	7	5	7	9	3
2045-245	Laskin Road - Phase II	Virginia Beach	Highway	19	5	11	3	8	13	6	5	5	9	3
2045-246	Laskin Road - Phase III	Virginia Beach	Highway	21	4	4	5	10	15	8	4	8	7	3
2045-247	London Bridge Road	Virginia Beach	Highway	15	3	2	4	3	4	6	4	6	5	4
2045-248	Lynnhaven Pkwy	Virginia Beach	Highway	49	18	5	20	12	14	17	15	25	24	31
2045-250	Nimmo Pkwy - Phase II	Virginia Beach	Highway	6	0	0	0	1	0	2	0	1	3	2
2045-251	Nimmo Pkwy - Phase III	Virginia Beach	Highway	5	0	0	0	1	0	1	0	1	3	2
2045-252	Nimmo Pkwy - Phase VIIB	Virginia Beach	Highway	9	0	0	1	3	1	0	0	2	2	0
2045-253	North Great Neck	Virginia Beach	Highway	23	5	5	4	12	14	8	4	9	9	4
2045-254	North Lynnhaven Rd	Virginia Beach	Highway	20	5	3	7	10	10	7	5	4	10	5
2045-255	Princess Anne Commons Rd A	Virginia Beach	Highway	7	0	0	1	0	0	3	0	2	1	3
2045-256	Princess Anne Road	Virginia Beach	Highway	25	7	3	9	10	8	5	6	11	10	14
2045-257	Providence Road	Virginia Beach	Highway	41	11	5	16	23	14	8	7	21	15	17
2045-258	Rosemont Rd	Virginia Beach	Highway	47	18	11	20	20	19	18	17	22	23	21
2045-259	Rosemont Road - Phase V	Virginia Beach	Highway	32	15	5	15	5	10	11	11	17	15	24

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

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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

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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

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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

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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	1	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

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 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
2045-733	Bike/ pedestrian Access to Naval Station Norfolk via Hampton Blvd	Norfolk	Active Transportation	13	4	4	4	4	6	2	5	2	6	6
2045-734	Extend Elizabeth River Trail to Naval Station Norfolk	Norfolk	Active Transportation	13	4	4	4	4	6	2	5	2	6	6
2045-735	Military Hwy Bike Access	Norfolk	Active Transportation	28	15	10	16	12	10	10	12	15	10	21
2045-736	Bike Path on Hunts Neck Rd (Rte 172)	Poquoson	Active Transportation	5	0	0	2	4	2	0	0	0	2	0
2045-737	Bike lanes on Churchland Blvd	Portsmouth	Active Transportation	24	8	4	9	13	9	10	7	4	12	16
2045-738	Complete High St	Portsmouth	Active Transportation	30	21	23	21	13	23	17	24	3	15	23
2045-739	Portsmouth Rail-to-Trail	Portsmouth	Active Transportation	21	7	4	7	12	8	8	7	4	10	13
2045-740	Twin Pines Rd Shared Use Path	Portsmouth	Active Transportation	13	5	3	7	4	5	6	6	2	6	11
2045-741	Rail-to-Trail (Suffolk Seabord Coastline Trail, part of the South Hampton Roads Trail)	Suffolk	Active Transportation	34	20	17	15	12	16	22	18	5	18	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
2045-743	Level Green Powerline Corridor	Virginia Beach	Active Transportation	25	13	9	16	16	13	10	8	12	12	13
2045-744	Nimmo Trail	Virginia Beach	Active Transportation	14	0	0	2	4	1	2	0	3	3	0
2045-745	Northampton Blvd Right-of-Way	Virginia Beach	Active Transportation	25	6	6	5	13	16	2	3	8	12	5
2045-746	Scarborough Bridge	Virginia Beach	Active Transportation	24	10	1	12	7	7	11	9	14	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
2045-748	Thalia Creek Greenway - Phase IV	Virginia Beach	Active Transportation	24	7	8	5	13	15	7	5	9	11	4
2045-749	Thalia Creek Greenway - Phase V	Virginia Beach	Active Transportation	24	6	8	5	14	13	8	5	9	9	2
2045-750	Thalia Creek Greenway - Phase VI	Virginia Beach	Active Transportation	27	7	8	6	14	16	7	5	10	13	5
2045-751	Virginia Beach Trail	Virginia Beach	Active Transportation	91	29	28	32	44	51	31	27	35	36	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
2045-753	Carter's Grove Country Rd Shared Use Path	Williamsburg	Active Transportation	11	3	3	4	6	4	5	4	5	4	4
2045-754	Monticello Ave Shared-Use Path	Williamsburg	Active Transportation	10	2	6	3	6	6	2	3	3	4	1
2045-755	Strawberry Plains Rd Shared Use Path	Williamsburg	Active Transportation	11	0	4	3	9	6	0	0	2	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 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 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
2045-756	Penniman Rd (Sidewalk / Multi Use Path)	York County	Active Transportation	8	2	2	3	2	1	4	3	4	5	3
2045-757	Shared Use Path - Yorktown Road	York County	Active Transportation	10	0	0	1	7	0	0	0	6	2	0
2045-758	Shared Use Path Along Yorktown Rd	York County	Active Transportation	12	1	0	2	9	1	1	0	7	3	0
2045-759	Victory Boulevard Shared Use Path	York County	Active Transportation	12	0	0	3	8	1	1	0	4	2	0

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 Tnpg	Chesapeake	Highway	0									
2045-127	Centerville Tnpg - Phase I	Chesapeake	Highway	0									
2045-128	Centerville Tnpg - 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									<div></div>
2045-321	Military Hwy at I-64 -- New EB On-Ramp	Norfolk	Interchange	4	<div></div>	<div></div>				<div></div>			<div></div>
2045-322	Cedar Ln and VA-164 Interchange	Portsmouth	Interchange	4		<div></div>	<div></div>		<div></div>				<div></div>
2045-323	Frederick Blvd and I-264 Interchange	Portsmouth	Interchange	7	<div></div>	<div></div>		<div></div>	<div></div>	<div></div>		<div></div>	<div></div>
2045-324	Victory Blvd and I-264 Interchange	Portsmouth	Interchange	8	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>		<div></div>	<div></div>
2045-325	VIG Interchange	Portsmouth	Interchange	2		<div></div>	<div></div>						
2045-326	I-264 at Independence Blvd	Virginia Beach	Interchange	2			<div></div>	<div></div>					
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							<div></div>	<div></div>	
2045-601	VA-164 Extension	Multi-jurisdictional	Intermodal	1									<div></div>
2045-602	Portlock Rd Railroad Overpass	Chesapeake	Intermodal	5		<div></div>		<div></div>		<div></div>		<div></div>	<div></div>
2045-603	Hampton Blvd at Terminal Blvd	Norfolk	Intermodal	3				<div></div>				<div></div>	<div></div>
2045-604	Craney Island Access Rd	Portsmouth	Intermodal	0									
2045-605	Finney Ave Flyover	Suffolk	Intermodal	7	<div></div>	<div></div>		<div></div>	<div></div>	<div></div>		<div></div>	<div></div>
2045-606	Nansemond Pkwy (Rte 337)	Suffolk	Intermodal	2								<div></div>	<div></div>
2045-607	North Suffolk Connector Rd	Suffolk	Intermodal	0									
2045-504	Ferry Service	Multi-jurisdictional	Transit	1						<div></div>			
2045-505	Ferry Service	Multi-jurisdictional	Transit	2	<div></div>			<div></div>					
2045-506	High-Speed and Intercity Passenger Rail - DRPT Tier I EIS ROD - Preferred Alternative	Multi-jurisdictional	Transit	4		<div></div>		<div></div>				<div></div>	<div></div>
2045-506	High-Speed and Intercity Passenger Rail - DRPT Tier I EIS ROD - Preferred Alternative	Multi-jurisdictional	Transit	6	<div></div>	<div></div>		<div></div>		<div></div>		<div></div>	<div></div>
2045-508	High Speed Water Taxis System	Multi-jurisdictional	Transit	3				<div></div>		<div></div>			<div></div>
2045-509	Peninsula Commuter Rail	Multi-jurisdictional	Transit	3		<div></div>	<div></div>						<div></div>
2045-511A	Peninsula High Capacity Transit Extension - Alt 3	Multi-jurisdictional	Transit	6	<div></div>	<div></div>		<div></div>		<div></div>		<div></div>	<div></div>
2045-511A1	Peninsula High Capacity Transit Extension - Alt 3 (Future)	Multi-jurisdictional	Transit	2							<div></div>		<div></div>
2045-511B	Peninsula High Capacity Transit Extension - Alt 6	Multi-jurisdictional	Transit	7	<div></div>	<div></div>		<div></div>	<div></div>	<div></div>		<div></div>	<div></div>
2045-511B1	Peninsula High Capacity Transit Extension - Alt 6 (Future)	Multi-jurisdictional	Transit	6	<div></div>	<div></div>		<div></div>	<div></div>	<div></div>			<div></div>
2045-513	Southside Ferry Service	Multi-jurisdictional	Transit	6	<div></div>	<div></div>		<div></div>	<div></div>	<div></div>			<div></div>
2045-514	Tide Light Rail Expansion - Hampton Veterans Center	Multi-jurisdictional	Transit	3				<div></div>		<div></div>			<div></div>
2045-515	Tide Light Rail Expansion - Williamsburg to Hampton/ VA Beach	Multi-jurisdictional	Transit	3		<div></div>		<div></div>					<div></div>
2045-516	High Capacity Transit Extension to Greenbrier Area	Chesapeake	Transit	4	<div></div>	<div></div>		<div></div>					<div></div>
2045-517	Elizabeth River Ferry Expansion	Norfolk	Transit	2	<div></div>			<div></div>					
2045-518	Naval Station Norfolk Transit Extension	Norfolk	Transit	4	<div></div>			<div></div>		<div></div>			<div></div>

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 Seabord 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 taxis 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.