

# AGENDA

## RICHMOND REGIONAL TRANSPORTATION PLANNING ORGANIZATION TECHNICAL ADVISORY COMMITTEE

Tuesday, August 11, 2020

9:00 a.m.

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| <b>WELCOME AND INTRODUCTIONS</b> (Amos)  | <b>Page(s)</b> |
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| 1. <b>Approval of RRTPO TAC Meeting Agenda</b><br>(Amos) .....<br><b>Action Requested</b>          | –              |
| 2. <b>Approval of July 14, 2020 TAC Meeting Minutes</b><br>(Amos) .....<br><b>Action Requested</b> | 6-13           |
| 3. <b>Public Comment Period – August 11, 2020 Agenda</b><br>(Amos/5 minutes).....                  | –              |

|   |       |
|---|-------|
| <b>4. TAC Chairman's Report</b><br>(Amos/10 minutes) .....  | –     |
| a. Recognition of Ms. Smith as Outgoing Chair   |       |
| b. Public Transportation Work Group – New Members   |       |
| <b>5. RRTPO Update</b><br>(Parsons/10 minutes).....   | 14-17 |
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| c. CVTA Update  |       |
| <b>6. FY20 Unified Planning Work Program (UPWP) Budget Amendment</b><br>(Parsons/10 minutes).....               | 18-19 |
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| <b>7. FY21 – FY26 RSTP/CMAQ Allocations</b><br>(Busching/10 minutes).....                                       | 20-40 |
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| <b>8. Greater RVA Transit Vision Plan: Near-Term Strategic Technical Analysis</b><br>(Jacocks/10 minutes) ..... | 41-42 |
| <b>Action Requested</b>   |       |
| <b>9. Transportation Agency Updates</b><br>(VDOT, DRPT/10 minutes).....   | –     |
| a. VDOT – McAdory   |       |
| b. DRPT - Dubinsky  |       |
| <b>10. Public Comment Period - Open</b><br>(Amos/5 minutes) .....   | –     |
| <b>11. Future Meeting Topics</b><br>(Amos) .....  | 43    |
| <b>12. TAC Member Comments</b><br>(Amos/5 minutes) .....  | –     |
| <b>13. Next Meeting: September 8</b><br>(Amos) .....  | –     |
| <b>14. Adjournment</b><br>(Amos).....   | –     |

CAP/nm

Attachments

|     |   |                              |
|-----|---|------------------------------|
| pc: | Patricia A. Paige, RRTPO Policy Board Chair | Ron Svejksky, Tri-Cities MPO |
|     | Robert L. Basham Jr., CTAC Chair            | Martha Heeter, PlanRVA       |
|     | Richard Duran, FHWA                         | TAC Interested Parties       |
|     | Daniel Koenig, FTA Liaison                  | Area News Media              |
|     | Jennifer DeBruhl, DRPT                      |                              |

**Ashland | Charles City | Chesterfield | Goochland | Hanover | Henrico | New Kent | Powhatan | Richmond**

PlanRVA, 9211 Forest Hill Avenue, Suite 200, Richmond, VA 23235

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## **Opening Statement for Electronic Meetings**

### **I. ROLL CALL & CERTIFICATION OF A QUORUM**

We ask that everyone identify themselves first when speaking so we can more accurately record the activities of the meeting. All lines have been muted by the administrator to minimize additional noise and feedback. You may unmute your line at any time to request acknowledgement from the chair. Staff will be monitoring the chat throughout the meeting to assure we do not overlook anyone wishing to participate in the discussion.

Please indicate your presence by saying “AYE” when your name is called during a roll call. Anyone who wishes to identify themselves following the roll call of members will be invited to do so.

I will now ask our clerk to certify we have followed the approved procedures for appropriate notice of this meeting and the means by which we are convening.

### **II. STATEMENT REGARDING VIRTUAL MEETINGS**

Since the Governor declared the state of emergency on March 12, 2020, in response to the COVID-19 pandemic, state and local governmental bodies have been providing for the continuity of government by meeting remotely by telephonic or electronic means in compliance with the Virginia Freedom of Information Act, the Commonwealth’s emergency and other applicable laws, guidance provided by the Attorney General, and their respective legal counsel.

On April 22<sup>nd</sup>, the General Assembly approved a budget amendment to authorize all public bodies, including regional bodies, such as PlanRVA and the Richmond Regional Transportation Planning Organization, likewise to meet by electronic means, without a physical quorum assembled together, during a Governor-declared state of emergency, as long as certain conditions are met, so as to provide for the continuity of governmental operations. This new authority is effective immediately.

The bylaws of the RRTPO define a quorum of the body to be a majority of the TAC membership, which shall include, at a minimum, four of the local government representatives. The 2020 COVID-19 virus makes it impractical and unsafe, even potentially life-threatening, for a quorum of this size to physically assemble in one location, pursuant to Va. Code § 2.2-3708.2(A)(3). Further, the virus makes it impractical and unsafe for the public, and the agency’s staff, to gather in the same location to participate in this meeting. The health, safety, and welfare of our community is of paramount importance.

Therefore, we have determined the appropriateness and eligibility to conduct today's meeting of the RRTPO electronically, pursuant to the provisions of Virginia Code § 2.2-3708.2 and related legislation approved by the General Assembly of Virginia, and in light of the Governor's State of Emergency Declaration for COVID-19.

The convening of the Richmond Regional Transportation Planning Organization (RRTPO) has been determined necessary in order to continue the necessary business of the organization. The matters included on the agenda address important/essential matters of continuing the work of government and therefore it is appropriate to convene during this time.

## **Closing**

While we do not know the exact duration of the current practice of electronic meetings, we will continue to function in this manner until such time as it is deemed advisable to return to in person meetings.

RRTPO staff have provided notice of this meeting and the means by which we are virtually gathered to members of the public. Notice was provided on July 31, 2020 through posting on the PlanRVA website and distribution of email notification to members, alternates, and known interested parties, including the media.

In order to comply with the provisions of Virginia law and to improve accessibility to the discussions intended for today, this meeting will be recorded. Audio (visual) recordings of the meeting will be posted on the PlanRVA website within 48 hours of this meeting.

Any members of the public wishing to address the RRTPO were invited to submit comments via email until the close of business one day prior to the meeting, in order to be reviewed and addressed during this meeting, if necessary. Anyone participating as an observer during the meeting today may submit comments or questions at any time during the meeting via email at [rtpoinput@planrva.org](mailto:rtpoinput@planrva.org) or by using the online chat functions of the meeting platform. Those individuals who are observing by phone may be called upon to address the RRTPO with their questions or comments. All comments and questions submitted during the meeting will be reviewed following the meeting and to the extent practical, responses may be provided or posted on the PlanRVA website.

## **Questions**

Does anyone have any questions regarding the process for assuring effective facilitation of this meeting or for how members of the public may participate?

## **Procedures for Electronic Meetings**

### **Notice of Meetings**

Notice of meetings of public bodies supported by PlanRVA will be given in accordance with applicable law and the bodies' Bylaws. In general, notice will be provided at least 10 days prior to the scheduled meeting and include the proposed agenda and meeting materials, as well as confirmation of the date and time and instructions to access the meeting. This notice will be posted on the PlanRVA website, links to which will be distributed to all members, alternates, interested parties, and our media contact lists, assuring that members of the body and the public are notified concurrently.

Contents of the Notice will include:

- a. Date and time of the meeting
- b. Electronic means by which the meeting will be held and instructions for joining the meeting as a participant or observer
- c. Method by which the meeting agenda and materials can be accessed
- d. Public participation process for meetings including the method(s) by which comments may be provided by members of the public before, during and after the meeting

•

### **Public Participation**

Members of the public are invited to participate in public meetings of PlanRVA, the RRTPO, and their respective committees. The following are new ways members of the public can participate in and follow the business of PlanRVA and the RRTPO during this time:

Anyone wishing to participate as an observer in a public meeting may do so. They should register with PlanRVA staff to get access to the meeting instructions and may sign on online or dial in by phone. Anyone wishing to submit comments prior to the meeting may do so by email. Comments received by 5 pm the business day preceding the meeting will be provided to members of the public body and included in the administrative record.

Members of the public may use the chat feature in the online platform to submit questions or comments during the meeting. These will be recorded and included in the administrative record.

Finally, agendas will be modified to offer two opportunities for members to address the bodies during the meeting: at the beginning to address members regarding agenda items and at the end to raise any other issues not included in the day's meeting agenda, as is customary.

### **Agenda Format**

In order to clearly communicate the electronic means by which the meeting will occur, the Agenda itself will include the following information, in addition to the regular order of business and discussion/action items:



- a. Notification of the electronic means for hosting the meeting including access information
  - i. *The meeting scheduled for [Month Day, Year] of the [Public Body] will be held via [Online Platform] pursuant to provisions of Virginia Code Section [§2.2-3708.2](#) and in light of the Governor's March 12, 2020 State of Emergency Declaration for COVID-19.*
- b. Public Announcement made by the presiding officer, administrator or clerk/secretary at the beginning of the meeting (template script enclosed)
- c. Certification that the procedures were followed to adequately notify the public (following certification of quorum agenda item)
- d. Roll call of those participating as a member of the body in the call and invitation to others to identify themselves
- e. Statement concerning public comments submitted via e-mail or via online meeting platforms will be shared with members of the public body and included in the agency's administrative record.
- f. Open the floor for any member of the public to address the body regarding any matter included on the agenda for the meeting
- g. *All planned agenda items*
- h. Open the floor for any member of the public to address the body regarding any matter germane to the body but not specifically included in the agenda

### **Voting**

At the appropriate time, the Chair will call upon members of the body to introduce a motion addressing the action item. Following a motion and a second, discussion may ensue, ultimately resulting in a call for a vote. Each vote taken during an electronic meeting must be a roll call vote, with each member's name and vote recorded in the minutes of the meeting.

### **Minutes**

Minutes of each meeting shall conform to the normal standards of minutes recorded for the body. Additional documentation should include:

- a. The fact that the meeting was held as an electronic meeting pursuant to the authority and reference the specific disaster Declaration;
- b. The type of electronic means by which the meeting was held; and



- c. Each member of the public body who participated in the meeting. Other participants in the meeting as observers may identify themselves and if so, will be included in the record.

In addition to written record of the meeting, audio/video recording will be posted within 48 hours of the meeting's conclusion on the PlanRVA website (along with the written records, once approved).

The body may approve the minutes of an electronic meeting at a subsequent electronic meeting or one that is held in person.

### **Expiration**

Procedures shall only take effect in the event of a State of Emergency Declaration pursuant to VA Code whereby electronic means of hosting meetings of the public body is the only practicable way to continue the conduct of the organization and achieve other objectives to protect the health, safety and welfare of the community and the body's members and staff.

**RICHMOND REGIONAL TRANSPORTATION PLANNING ORGANIZATION  
TECHNICAL ADVISORY COMMITTEE (TAC)**

**MINUTES OF ACTION MEETING  
GoToMeeting Virtual Meeting  
July 14, 2020  
9:00 a.m.**

**MEMBERS and ALTERNATES (A) PRESENT:**

|  |   |                            |   |                         |   |
|--|---|----------------------------|---|-------------------------|---|
| <b>Charles City County</b>               |   | <b>Chesterfield County</b> |   | <b>City of Richmond</b> |   |
| (vacant)                                 |   | Barbara K. Smith           | x | Dironna Moore Clarke    | x |
|  |   | Chessa Faulkner (A)        | x | Travis A. Bridewell (A) |   |
|  |   |                            |   |                         |   |
| <b>Goochland County</b>                  |   | <b>Hanover County</b>      |   | <b>Henrico County</b>   |   |
| Thomas M. Coleman                        | x | Joseph E. Vidunas          | x | Sharon Smidler          | x |
| Todd Kilduff (A)                         |   | J. Michael Flagg (A)       |   | Todd Eure (A)           |   |
|  |   |                            |   |                         |   |
| <b>New Kent County</b>                   |   | <b>Powhatan County</b>     |   | <b>Town of Ashland</b>  |   |
| Kelli LeDuc<br>Vice Chair                | x | Andrew Pompei              | x | Nora D. Amos<br>Chair   | x |
|  |   | Ed A. Howland (A)          |   | Will Tucker (A)         |   |
|  |   |                            |   |                         |   |
| <b>Capital Region Airport Commission</b> |   | <b>GRTC Transit System</b> |   | <b>RMTA</b>             |   |
| John B. Rutledge                         |   | Adrienne Torres            | x | Theresa Simmons         |   |
|  |   | Emily E. DelRoss (A)       | x |                         |   |
|  |   |                            |   |                         |   |
| <b>PlanRVA</b>                           |   | <b>RideFinders</b>         |   | <b>DRPT</b>             |   |
| Chet Parsons                             | x | Von S. Tisdale             |   | Tiffany T. Dubinsky     | x |
| Sulabh Aryal (A)                         | x | John O'Keeffe (A)          | x | Grant Sparks (A)        |   |
|  |   |                            |   |                         |   |
| <b>VDOT</b>                              |   |                            |   |                         |   |
| Liz McAdory                              | x |                            |   |                         |   |
| Jacob C. Herrman                         | x |                            |   |                         |   |

The RRTPO Technical Advisory Committee (TAC) meeting was held by electronic communication means as set forth by the April 22, 2020 actions of the General Assembly in response to the continued spread of novel coronavirus, or COVID-19. The technology used for this meeting was a web-hosted service created by GoToMeeting and was open and accessible for participation by members of the public. Voting record tables are included in Appendix A. A recording of this meeting is available on our [Plan RVA YouTube Channel](#).

**CALL TO ORDER**

The Richmond Regional Transportation Planning Organization (RRTPO) Technical Advisory Committee Chair, Barbara K. Smith, presided and called the July 14, 2020 RRTPO Technical Advisory Committee action meeting to order at 9:00 a.m.



## **ATTENDANCE ROLL CALL & CERTIFICATION OF MEETING QUORUM**

Nicole Mueller, Program Coordinator, took attendance by roll call. Chet Parsons, RRTPO Secretary, certified that a quorum was present.

### **1. Approval of RRTPO TAC Meeting Agenda**

On motion of Sharon Smidler, seconded by John O'Keeffe, the Technical Advisory Committee unanimously approved the July 14, 2020 meeting agenda as presented (see Appendix A).

### **2. Approval of June 9, 2020 RRTPO TAC Meeting Minutes**

On motion of Liz McAdory, seconded by Sharon Smidler, the Technical Advisory Committee unanimously approved the minutes of the June 9, 2020 meeting as presented (see Appendix A).

### **3. Approval of June 25, 2020 RRTPO TAC Meeting Minutes**

On motion of Tiffany T. Dubinsky, seconded by John O'Keeffe, the Technical Advisory Committee unanimously approved the minutes of the June 25, 2020 meeting as presented (see Appendix A).

### **4. Public Comment Period – July 14, 2020 Agenda**

There were no requests to address the Technical Advisory Committee.

### **7. Action on Election of FY21 RRTPO Technical Advisory Committee Officers**

On motion of Thomas M. Coleman, seconded by Liz McAdory, the Richmond Regional Transportation Planning Organization (RRTPO) Technical Advisory Committee (TAC) voted unanimous approval of the following resolution (see Appendix A):

**RESOLVED**, that the Richmond Regional Transportation Planning Organization elects Nora D. Amos as FY21 Chair and Kelli LeDuc as FY21 Vice Chair.

### **8. Action on Transit Work Group**

On motion of Dironna Moore Clarke, seconded by Nora D. Amos, the Richmond Regional Transportation Planning Organization (RRTPO) Technical Advisory Committee (TAC) voted unanimous approval of the following resolution as amended (see Appendix A):

**RESOLVED**, that the Richmond Regional Transportation Planning Organization (RRTPO) Technical Advisory Committee establish the **RRTPO Public Transportation Work Group**, consisting of representatives of the following member organizations:

1. Chesterfield County

5. DRPT

2. City of Richmond

6. GRTC

3. Henrico County

7. Plan RVA

4. CTAC

Once established, the work group will begin immediate work towards development of a regional public transportation plan.

**14. Next RRTPO TAC Meeting: August 11, 2020**

Chairman Smith noted the next action meeting will be held on August 11, 2020, beginning at 9:00 a.m. in Richmond, Virginia.

**11. Adjournment:**

Chairman Smith adjourned the meeting at 9:55 a.m. on July 14, 2020.

CAP/nm

## **APPENDIX A**

### **RRTPO Technical Advisory Committee (TAC) – Voting Record Tables**

#### **Item 1. Approval of RRTPO TAC Meeting Agenda**

| <b>Jurisdiction/Agency (No. of Votes)</b> | <b>Member/Alternate</b> | <b>Aye</b> | <b>Nay</b> | <b>Abstain</b> |
|---|-------------------------|------------|------------|----------------|
| <b>Chesterfield County</b>                | Barbara K. Smith        | x          |            |                |
|   |                         |            |            |                |
| <b>City of Richmond</b>                   | Dironna Moore Clarke    | x          |            |                |
|   |                         |            |            |                |
| <b>Goochland County</b>                   | Thomas M Coleman        | x          |            |                |
|   |                         |            |            |                |
| <b>Henrico County</b>                     | Sharon Smidler          | x          |            |                |
|   |                         |            |            |                |
| <b>New Kent County</b>                    | Kelli LeDuc             | x          |            |                |
|   |                         |            |            |                |
| <b>Powhatan County</b>                    | Andrew Pompei           | x          |            |                |
|   |                         |            |            |                |
| <b>Town of Ashland</b>                    | Nora D. Amos            | x          |            |                |
|   |                         |            |            |                |
| <b>GRTC</b>                               | Adrienne Torres         | x          |            |                |
|   |                         |            |            |                |
| <b>Plan RVA</b>                           | Chet Parsons            | x          |            |                |
|   |                         |            |            |                |
| <b>RideFinders</b>                        | John O'Keeffe (A)       | x          |            |                |
|   |                         |            |            |                |
| <b>DRPT</b>                               | Tiffany T. Dubinsky     | x          |            |                |
|   |                         |            |            |                |
| <b>VDOT</b>                               | Liz McAdory             | x          |            |                |
|   |                         |            |            |                |
| <b>TOTAL</b>                              |                         | 12         |            |                |

Quorum is at least one-half of TAC's membership to include a minimum of four local government representatives (as per Article V, Section 2 of the bylaws).

## **Item 2. Approval of June 9, 2020 TAC Meeting Minutes**

| <b>Jurisdiction/Agency (No. of Votes)</b> | <b>Member/Alternate</b> | <b>Aye</b> | <b>Nay</b> | <b>Abstain</b> |
|---|-------------------------|------------|------------|----------------|
| <b>Chesterfield County</b>                | Barbara K. Smith        | x          |            |                |
|   |                         |            |            |                |
| <b>City of Richmond</b>                   | Dironna Moore Clarke    | x          |            |                |
|   |                         |            |            |                |
| <b>Goochland County</b>                   | Thomas M Coleman        | x          |            |                |
|   |                         |            |            |                |
| <b>Henrico County</b>                     | Sharon Smidler          | x          |            |                |
|   |                         |            |            |                |
| <b>New Kent County</b>                    | Kelli LeDuc             | x          |            |                |
|   |                         |            |            |                |
| <b>Powhatan County</b>                    | Andrew Pompei           | x          |            |                |
|   |                         |            |            |                |
| <b>Town of Ashland</b>                    | Nora D. Amos            | x          |            |                |
|   |                         |            |            |                |
| <b>GRTC</b>                               | Adrienne Torres         | x          |            |                |
|   |                         |            |            |                |
| <b>Plan RVA</b>                           | Chet Parsons            | x          |            |                |
|   |                         |            |            |                |
| <b>RideFinders</b>                        | John O'Keeffe (A)       | x          |            |                |
|   |                         |            |            |                |
| <b>DRPT</b>                               | Tiffany T. Dubinsky     | x          |            |                |
|   |                         |            |            |                |
| <b>VDOT</b>                               | Liz McAdory             | x          |            |                |
|   |                         |            |            |                |
| <b>TOTAL</b>                              |                         | 12         |            |                |

Quorum is at least one-half of TAC's membership to include a minimum of four local government representatives (as per Article V, Section 2 of the bylaws).

### **Item 3. Approval of June 25, 2020 TAC Meeting Minutes**

| <b>Jurisdiction/Agency (No. of Votes)</b> | <b>Member/Alternate</b> | <b>Aye</b> | <b>Nay</b> | <b>Abstain</b> |
|---|-------------------------|------------|------------|----------------|
| <b>Chesterfield County</b>                | Barbara K. Smith        | x          |            |                |
|   |                         |            |            |                |
| <b>City of Richmond</b>                   | Dironna Moore Clarke    | x          |            |                |
|   |                         |            |            |                |
| <b>Goochland County</b>                   | Thomas M Coleman        | x          |            |                |
|   |                         |            |            |                |
| <b>Henrico County</b>                     | Sharon Smidler          | x          |            |                |
|   |                         |            |            |                |
| <b>New Kent County</b>                    | Kelli LeDuc             |            |            | x              |
|   |                         |            |            |                |
| <b>Powhatan County</b>                    | Andrew Pompei           | x          |            |                |
|   |                         |            |            |                |
| <b>Town of Ashland</b>                    | Nora D. Amos            | x          |            |                |
|   |                         |            |            |                |
| <b>GRTC</b>                               | Adrienne Torres         | x          |            |                |
|   |                         |            |            |                |
| <b>Plan RVA</b>                           | Chet Parsons            | x          |            |                |
|   |                         |            |            |                |
| <b>RideFinders</b>                        | John O'Keeffe (A)       | x          |            |                |
|   |                         |            |            |                |
| <b>DRPT</b>                               | Tiffany T. Dubinsky     | x          |            |                |
|   |                         |            |            |                |
| <b>VDOT</b>                               | Liz McAdory             | x          |            |                |
|   |                         |            |            |                |
| <b>TOTAL</b>                              |                         | 11         |            | 1              |

Quorum is at least one-half of TAC's membership to include a minimum of four local government representatives (as per Article V, Section 2 of the bylaws).

### **Item 7. Election of FY21 RRTPO Technical Advisory Committee Officers**

| <b>Jurisdiction/Agency (No. of Votes)</b> | <b>Member/Alternate</b> | <b>Aye</b> | <b>Nay</b> | <b>Abstain</b> |
|---|-------------------------|------------|------------|----------------|
| <b>Chesterfield County</b>                | Barbara K. Smith        | x          |            |                |
|   |                         |            |            |                |
| <b>City of Richmond</b>                   | Dironna Moore Clarke    | x          |            |                |
|   |                         |            |            |                |
| <b>Goochland County</b>                   | Thomas M Coleman        | x          |            |                |
|   |                         |            |            |                |
| <b>Hanover County</b>                     | Joseph E. Vidunas       | x          |            |                |
|   |                         |            |            |                |
| <b>Henrico County</b>                     | Sharon Smidler          | x          |            |                |
|   |                         |            |            |                |
| <b>New Kent County</b>                    | Kelli LeDuc             | x          |            |                |
|   |                         |            |            |                |
| <b>Powhatan County</b>                    | Andrew Pompei           | x          |            |                |
|   |                         |            |            |                |
| <b>Town of Ashland</b>                    | Nora D. Amos            | x          |            |                |
|   |                         |            |            |                |
| <b>GRTC</b>                               | Adrienne Torres         | x          |            |                |
|   |                         |            |            |                |
| <b>Plan RVA</b>                           | Chet Parsons            | x          |            |                |
|   |                         |            |            |                |
| <b>RideFinders</b>                        | John O'Keeffe (A)       | x          |            |                |
|   |                         |            |            |                |
| <b>DRPT</b>                               | Tiffany T. Dubinsky     | x          |            |                |
|   |                         |            |            |                |
| <b>VDOT</b>                               | Liz McAdory             | x          |            |                |
|   |                         |            |            |                |
| <b>TOTAL</b>                              |                         | 13         |            |                |

Quorum is at least one-half of TAC's membership to include a minimum of four local government representatives (as per Article V, Section 2 of the bylaws).

## Item 8. Transit Work Group

| <b>Jurisdiction/Agency (No. of Votes)</b> | <b>Member/Alternate</b> | <b>Aye</b> | <b>Nay</b> | <b>Abstain</b> |
|---|-------------------------|------------|------------|----------------|
| <b>Chesterfield County</b>                | Barbara K. Smith        | x          |            |                |
|   |                         |            |            |                |
| <b>City of Richmond</b>                   | Dironna Moore Clarke    | x          |            |                |
|   |                         |            |            |                |
| <b>Goochland County</b>                   | Thomas M Coleman        | x          |            |                |
|   |                         |            |            |                |
| <b>Hanover County</b>                     | Joseph E. Vidunas       | x          |            |                |
|   |                         |            |            |                |
| <b>Henrico County</b>                     | Sharon Smidler          | x          |            |                |
|   |                         |            |            |                |
| <b>New Kent County</b>                    | Kelli LeDuc             | x          |            |                |
|   |                         |            |            |                |
| <b>Powhatan County</b>                    | Andrew Pompei           | x          |            |                |
|   |                         |            |            |                |
| <b>Town of Ashland</b>                    | Nora D. Amos            | x          |            |                |
|   |                         |            |            |                |
| <b>GRTC</b>                               | Adrienne Torres         | x          |            |                |
|   |                         |            |            |                |
| <b>Plan RVA</b>                           | Chet Parsons            | x          |            |                |
|   |                         |            |            |                |
| <b>RideFinders</b>                        | John O'Keeffe (A)       | x          |            |                |
|   |                         |            |            |                |
| <b>DRPT</b>                               | Tiffany T. Dubinsky     | x          |            |                |
|   |                         |            |            |                |
| <b>VDOT</b>                               | Liz McAdory             | x          |            |                |
|   |                         |            |            |                |
| <b>TOTAL</b>                              |                         | 13         |            |                |

Quorum is at least one-half of TAC's membership to include a minimum of four local government representatives (as per Article V, Section 2 of the bylaws).

## **Current Work Efforts Update – Item 5.a.**

### **ConnectRVA 2045 Long-Range Transportation Plan**

Staff is working to develop transportation projects based on the approved issues/needs as identified in Task 1. Staff will develop the projects for issues which have a project solution based on completed or ongoing studies and plans to send the first cut list to the LRTP Advisory Committee (AC) members for their review. Once the list of projects is completed and vetted by the AC it will be posted online for a two-week formal public review period. After the completion of public review period, it will come back to the AC for approval. Based on the timeline of the schedule for approval, the list of transportation projects is anticipated to be completed by October-November. Staff also posted an online survey asking participants to share their transportation priorities for 2045. We received over 350 responses to date. A companion survey is in development asking participants to share their Vision and Goals for ConnectRVA 2045. This survey is expected to be live in early August and will be shared widely to encourage participation.

### **Greater RVA Transit Vision Plan: Near-Term Strategic Technical Analysis**

Five corridors or corridor segments have been identified for further analysis of service alternatives with varying capital and operating costs to lay the groundwork for determining a return on investment. The GRTC board was briefed on the cost analysis at their June 16<sup>th</sup> meeting. Technical Memo 2 has been reviewed by the steering committee, and the CTAC was briefed on July 16<sup>th</sup>. A story map that provides an overview of the process, recommendations and implementation guidance is on the TAC agenda for this meeting. The TAC will be asked to review and consider action on approval of the final plan. Upon their approval, TAC will request TPO policy board action in September.

### **Ashland Trolley Line Trail Study**

The Ashland Trolley Line Trail advisory group is working in concert with the VDOT Ashland to Petersburg Trail Study. The localities along the corridor continue to identify segments of independent utility along the conceptual 14-mile route from Ashland to the City of Richmond. Several of these segments are the subject of funding applications either through the Transportation Alternatives (TA) program or SMART Scale. Staff continues to work with the National Park Service, Rivers, Trails, and Conservation Assistance program to discuss the scope of work for the upcoming FY21. Additional design assistance is being planned with the NPS help to engage the Virginia Chapter of the American Society of Landscape Architects and Virginia Tech through studio projects in the Fall semester.

### **Regional Bicycle and Pedestrian Plan Update**

The [story map](#) of existing infrastructure, bike/ped features and statistics on bike/ped injuries and fatalities in the region has been completed and continues to be updated and refined. The second steering committee meeting was held on June 23 and a third on July 28 to further review local priorities, future plans, and regional priority corridors as a foundation for depicting a regional network supported by clear goals, objectives



and measures of performance that define regional impact and establish a strategy for implementation.

### **Ashland Complete Streets Pilot Project**

Complete streets guidelines, or a “tool-box” of resources, depicted through graphic and photographic examples are being prepared to serve as implementation support for the regional bike/ped plan. These images are intended to show specific locations where good standards have been implemented and where infrastructure improvements could incorporate complete streets elements for better solutions throughout the region. Staff continues to develop and update an illustrated [story map](#) to accompany this effort.

### **Active Transportation Work Group (ATWG)**

Staff chose to cancel the quarterly meeting of the ATWG, looking now toward a fall meeting. Staff continues to work with Henrico County’s Active Transportation Work Group, which is designed to advise the planning for a bicycle and pedestrian chapter of the county comprehensive plan.

### **Vision Zero Work Group**

The second meeting for the newly created Vision Zero Work Group is planned for August 13, 2020 as a virtual meeting. Following the direction established at the June kickoff meeting, the group is scheduled to discuss adoption of a Vision and Mission statement and formation of local jurisdiction commissions with emphasis placed on training/resources, safety messaging, and analysis of serious crash outcomes.

### **American Planning Association-Virginia Chapter Annual Conference**

Themed “We’ll Get You Moving” representing the focus on multi-modal transportation, the in-person, [annual APA Virginia Chapter conference](#) previously scheduled in Richmond for September 13-16, 2020 has been cancelled and will be rescheduled for 2022. The conference sessions originally selected for the conference will be delivered virtually in October. Production of pre-recorded sessions and format is now being planned by the conference planning committee.

### **SMART SCALE Round 4**

Staff is working with local government staff and VDOT to complete full applications in time for the application deadline of August 17, 2020. The RRTPO Policy Board took action on July 2, 2020 to approve the final list of ten regionally significant projects.

## MEMORANDUM

**To:** Richmond Regional Transportation Planning Organization (RRTPO) Policy Board  
RRTPO Technical Advisory Committee

**From:** Kenneth Lantz, Jr., RRTPO Mobility Manager

**Date:** July 17, 2020

**Subj:** RRTPO Community Transportation Advisory Committee (CTAC) Meeting Report

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The following is a brief report on major discussion items from the July 16, 2020 CTAC meeting.

### **Public Transportation Work Group**

Under the CTAC Chair's Report, Bob Basham noted that the Central Virginia Transportation Authority (CVTA) has been established by the 2020 General Assembly, and as part of the legislation the CVTA is called to utilize GRTC and the RRTPO to develop a plan for regional public transportation. A Public Transportation Work Group consisting of representatives of Chesterfield, Richmond, Henrico, DRPT, GRTC, PlanRVA and CTAC has been established to develop a regional public transportation plan. In response to a request for a member of CTAC to represent CTAC on the newly established work group, Lisa Guthrie indicated a willingness to serve in this capacity. There was unanimous agreement among the members of CTAC to have Ms. Guthrie serve in this capacity.

### **Senior Connections Regional Transportation Coordination Entity Update**

Tony Williams, Senior Connections Mobility Manager, provided an update on Senior Connection's work related to the regional transportation coordination entity. He reviewed the purpose, timeline and work plan for the establishment of the coordination entity and noted that the goals of the work plan include streamlining ride connection requests through the use of technology, expanding volunteer driver programs, expanding Ride Connection service to include non-medical trips, and continuing collaboration with area agencies and organizations.

### **Regional Bicycle and Pedestrian Planning**

Phil Riggan provided an overview of regional bicycle and pedestrian planning efforts. He noted that a regional bike map has been developed, and that efforts

to undertake complete streets planning were underway, beginning with a pilot project in the Town of Ashland. Mr. Riggan reviewed the basic concepts of a complete streets program, provided examples of complete streets plan components, spoke of how complete streets might be instituted at the regional level, and presented examples of how COVID-19 was impacting the implementation of complete streets.

### **Regional Transit Vision Plan**

Barbara Jacocks summarized the work associated with the development of the Regional Transit Vision Plan. She reviewed the plan's purpose, analysis methodology, study corridors, and corridors selected for implementation feasibility, and noted that the following corridors have been selected for implementation feasibility studies: Corridor H (Rt 1 North), and Corridor D (Midlothian Turnpike).

### **Election of FY21 CTAC Officers**

The RRTPO (MPO) [Non-Binding Governance Guidance Document](#) establishes the rotation order for the CTAC Chair and Vice-Chair. As the outgoing Chair is a representative from Chesterfield County, a representative of Goochland County is next in line to serve as CTAC Chair. The Vice Chair was elected by the CTAC from the jurisdiction following that of the CTAC Chairman, which under the order of rotation of leadership established by the Guidance Document is a representative of the Town of Ashland.

The RRTPO Community Transportation Advisory Committee elected [Robert L. Basham Jr.](#) as FY21 Chair and [Upton S. Martin](#) as FY21 Vice Chair.

### **Next CTAC Meeting**

The next CTAC meeting is scheduled for Thursday, September 17, 2020

KEL/nm

## TAC AGENDA 8/11/20; ITEM 6.

### FY20 UNIFIED PLANNING WORK PROGRAM (UPWP) BUDGET AMENDMENT

#### Richmond Regional Transportation Planning Organization

**REQUESTED ACTION:** The Richmond Regional Transportation Planning Organization (RRTPO) Technical Advisory Committee (TAC) is requested to review and recommend to the RRTPO Policy Board the proposed FY20 Unified Planning Work Program (UPWP) budget amendment. Following RRTPO action, the amended work program will be submitted to VDOT, DRPT, the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA).

**BACKGROUND:** The FY20 Unified Planning Work Program (UPWP) is the RRTPO budget and work program for the previous fiscal year that ran from July 1, 2019 through June 30, 2020. Activities programmed in the UPWP address federal and state requirements and address regional transportation planning issues and needs. Additionally, the UPWP addresses the requirements that are required as a condition for the state and region to remain eligible for federal-aid highway and transit funds. The funding sources supporting the RRTPO program activities come from federal, state and local funds.

The two primary funding sources supporting the UPWP are: FHWA/Planning funds and FTA Section 5303 funds. These two federal fund sources are matched by state and local sources on an 80% federal (FHWA and FTA) 10% state (VDOT and DRPT), and 10% local (RRPDC member dues and RRTPO special assessment) basis. Additional funding in the UPWP includes FHWA/Regional Surface Transportation Program funds that support an on-call consultant working with the RRTPO on the development and analysis of the Regional Travel Demand Model.

#### Program Development and Work Priorities

As part of the UPWP development process, a summary of work tasks is prepared based on anticipated needs for the upcoming year with estimates of staff time required for each effort. These work activities are translated into corresponding budgets which are included in each section of the work program. The programmed budget includes the fund sources and the match sources. The UPWP was initially adopted by the RRTPO on June 27, 2019.

#### Final Allocation of Federal Funds

As Fiscal Year 2020 closed out, there was an overage in spending from 5303 sources related to Work Task 7210: Public Outreach & Equity Analysis. While there were sufficient funds to cover these expenditures in staff time from our grant sources, after consultation with state partners it was determined that the best course of action was to adjust the FY20 UPWP. The proposed changes to the UPWP shift funds allocated from grant sources to cover the additional time used on Task 7210. The total allocations for each work task do not change, just the funding sources under those work tasks. The following internal shifts were made for each work task from 5303 and 5303 CO fund sources to address shortfalls in final time allocations for the fiscal year:

- 7110 Program Management was reduced (\$5,288)
- 7120 UPWP, Budget, & Contract Admin was reduced (\$1,528)
- 7210 Public Outreach & Equity Analysis was increased \$7,601
- 7310 Long-Range Transportation Plan was reduced (\$9,970)
- 7320 Travel Demand Model & Emis Analysis was increased \$1,718
- 7330 Transit was increased \$11,353
- 7340 Active Transport – Bicycle & Ped was decreased (\$1,935)
- 7430 Rail, Freight & Intermodal Planning was decreased (\$1,951)

**STAFF RECOMMENDATION:** Staff recommends that the RRTPO Technical Advisory Committee support the revision to the FY20 UPWP budget.

**ACTION REQUESTED:** The following resolution is presented for RRTPO Technical Advisory Committee review and recommendation to the RRTPO Policy Board for approval:

**RESOLVED,** that the Richmond Regional Transportation Planning Organization (RRTPO) approves the amendment to the *RRTPO Fiscal Year 2020 Unified Planning Work Program* as presented.

**BE IT FURTHER RESOLVED,** that the RRTPO action to amend the UPWP, as submitted, meets all requirements noted in the VDOT/RRPDC Agreement for the Utilization of Federal and State Funds to Support Metropolitan Planning in the Richmond Area as provided in Article III, Statement of Work, which includes VDOT and FHWA approval of this RRTPO action and amending the FY20 UPWP.

## **TAC AGENDA 8/11/20; ITEM 7.**

### **FY21 – FY26 RSTBG/CMAQ DRAFT ALLOCATIONS**

#### **Richmond Regional Transportation Planning Organization**

**REQUESTED ACTION:** Review and recommendation to the RRTPO Policy Board of an allocation plan.

**BACKGROUND:** Selecting and prioritizing projects for funding is one of the primary roles of the RRTPO in developing the regional transportation system. Projects selected by the TPO to receive funding are included in the Six-Year Improvement Program (SYIP) for adoption by the Commonwealth Transportation Board (CTB). While SYIP development was suspended, staff worked with VDOT to undertake a comprehensive review of the existing allocations.

Previously selected projects were reviewed for consistency with proposed schedules. Existing allocations were found to be largely front-loaded, meaning funding was allocated early in the project timeline and not matched to the project schedule. The VDOT Richmond District staff helped to rebalance funding to match the current schedules. In a few cases, such as the Atlee Station Road Widening, project allocations were maintained as the VDOT schedule did not match the local schedule provided to the TPO.

Staff requested additional feedback at the June TAC meeting and has incorporated requested changes to the extent possible. At TAC's request, staff has prepared two allocation plans. Approach A follows the historic approach of increasing the balance entry from 0% in year 1 to 30-40% by year 6. Approach B is the approach presented in June with a consistent 5% balance across all years.

Project cost estimates were requested in 2019 dollars during the application window in the fall. When programming new projects, costs were inflated at a consistent 2.5% per year to the start of the phase. This is the approach used in previous rounds of Smart Scale. Inflation was not applied to studies or TDM programs as these projects do not require multiple phases of funding.

Beyond the six-year program, a table of future commitments has also been developed for each approach. Many projects have schedules which last more than a few years. To ensure funding is available for these projects, the needed allocations for future years is also documented. For future allocation cycles, this will allow TPO staff to easily estimate the available funding before the application period in the fall and to ensure funding is not oversubscribed for future phases.

**STAFF RECOMMENDATION:** Staff recommends selection of Alternative B, the consistent balance entry. While a change from recent practice, this alternative offers several benefits over the current approach. Funding is generally allocated to cover the entire cost of a phase in a single year. Allocating the entire cost in a single year prevents cash flow problems within each phase and offers more flexibility

within the phase. Phase costs are generally only split over multiple years where the phase cost is a quarter or more of the annual program funding. In two cases, smaller phases were split to fit a project which otherwise could not be funded. With accurate schedules from project sponsor, this approach ensures flexible funding throughout the life of a project.

The staff recommended approach also provides a better buffer against changes in costs or funding by maintaining a reserve, even in Year 1. Under the current approach, the Year 1 balance is always zeroed out and Year 2 often has a minimal balance. Funding is not available to cover increased project costs in those years, requiring the allocations plan to be significantly reworked or other creative solutions. The proposed approach maintains a reserve which can be used to address high bids that come in during the year or changes to available funding without extensive adjustments. Any remaining balance can be allocated to immediate, one-time projects such as studies or TDM programs during the next funding cycle, ensuring all funding is allocated.

**TAC REQUESTED ACTION:** TAC is requested to review and provide a recommendation to the policy board on the following resolution:

*The Richmond Regional Transportation Planning Organization (RRTPO) approves the allocation and transfer of Regional Surface Transportation Block Grant (RSTBG) and Congestion Mitigation and Air Quality (CMAQ) funds as presented including selection of the following new projects:*

RSTBG (Only Selected Alternative to be Included)

| <u>Project</u>  | <u>A</u> | <u>B</u> | <u>Type</u> |
|---|----------|----------|-------------|
| Scenario Planning Pilot (RRTPO)   | X        | X        | Study       |
| W Broad St Intersection Improvements at Dominion and Cox (Henrico)          | X        | X        | Highway     |
| US 360 Superstreets Study (Chesterfield)                                    | X        | X        | Study       |
| Route 60 Corridor Improvement Study (Chesterfield)                          | X        | X        | Study       |
| W Broad St Pedestrian and Transit Imp. - Glenside Dr to Parham Rd (Henrico) | X        | X        | Bike/Ped    |
| Route 1 (Holiday Lane - Willis Road) Shared-Use Path (Chesterfield)         | X        |          | Bike/Ped    |
| Route 60 (Providence Road - Ruthers Road) Shared-Use Path (Chesterfield)    |          | X        | Bike/Ped    |
| Hull Street Project Phase II Chippenham Pkwy to Hey Rd (Richmond)           |          | X        | Highway     |
| Springfield Road Intersection Improvements (Henrico)                        |          | X        | Highway     |
| Magellan Parkway Extension Project – PE Phase Only (Henrico)                |          | X        | Highway     |
| IJR - Route 288 – West Creek Area (Goochland)                               | X        | X        | Study       |
| Centralia Road at Old Wrexham Road Roundabout (Chesterfield)                |          | X        | Highway     |
| Vaughan Road Overpass – PE Phase Only (Ashland)                             |          | X        | Highway     |

CMAQ (Only Selected Alternative to be Included)

| <u>Project</u>   | <u>A</u> | <u>B</u> | <u>Type</u> |
|--|----------|----------|-------------|
| Richmond Signal System – Phase IV (Richmond)                       | X        | X        | Highway     |
| Route 1 (Marina Dr - Merriewood Rd) Shared-Use Path (Chesterfield) | X        | X        | Bike/Ped    |
| Nuckols Rd Pedestrian Improvements (Henrico)                       | X        | X        | Bike/Ped    |
| Brook Rd & Hilliard Rd Trail (Henrico)                             | X        | X        | Bike/Ped    |
| Old Bermuda Hundred Rd at Ramblewood Dr Roundabout (Chesterfield)  | X        | X        | Highway     |
| Rt 33-60-Beulah Roundabout – PE Phase Only (Henrico)               | X        | X        | Highway     |
| Brad McNeer Pkwy Access Management and Roundabout (Chesterfield)   | X        | X        | Highway     |
| Route 1 (Holiday Ln - Willis Rd) Shared-Use Path (Chesterfield)    |          | X        | Bike/Ped    |
| Ashcake Rd Pedestrian Improvements (Ashland)                       |          | X        | Bike/Ped    |

MAB

Attachments



ALTERNATIVE A - CURRENT APPROACH

| ALTERNATIVE A - FY21 - FY26 CMAQ FUNDS |                |  |                   |                    | ALLOCATIONS        |                  |                    |                    |                    |             |                   |                           |                        |   |
|--|----------------|--|-------------------|--------------------|--------------------|------------------|--------------------|--------------------|--------------------|-------------|-------------------|---------------------------|------------------------|---|
| Sponsor                                | Project<br>UPC | Description  | Total<br>Estimate | Previous<br>Funds  | FY21               | FY22             | FY23               | FY24               | FY25               | FY26        | FY21-FY26<br>CMAQ | Other<br>Planned<br>Funds | Balance to<br>Complete | NOTES   |
| GRTC                                   | -20113         | GRTC REPLACEMENT OF ROLLING STOCK CNG BUSES (FY22)           | \$2,465,420       | <b>\$1,852,270</b> |                    | \$698,150        |                    |                    |                    |             | \$698,150         | \$0                       | (\$85,000)             | At sponsor request, transfer \$85k in FY16 CMAQ from T9717 to this project; estimate needs to be updated; funding already flexed to FTA |
| Henrico                                | 115201         | Patterson Avenue Sidewalks                                   | \$1,366,000       | \$0                |                    | \$200,000        | \$270,000          | \$896,000          |                    |             | \$1,366,000       | \$0                       | \$0                    |   |
| Chesterfield                           | 115784         | Meadowdale Blvd (Dalebrook Drive to Beulah Rd) Ped-Bike Imps | \$3,660,000       | \$0                |                    | \$500,000        |                    | \$500,000          |                    | \$2,660,000 | \$3,660,000       | \$0                       | \$0                    | CN balance in FY27  |
| Port of Virginia                       | 115815         | I-64 Express Barge Service Expansion                         | \$3,000,000       | \$0                |                    | \$410,000        | \$2,590,000        |                    |                    |             | \$3,000,000       | \$0                       | \$0                    | Advanced some of the funding per sponsor request  |
| Henrico                                | 109951         | Henrico County Automated Traffic Management System (ATMS)    | \$9,805,731       | \$5,962,692        | \$2,555,441        | \$1,287,598      |                    |                    |                    |             | \$3,843,039       | \$0                       | \$0                    |   |
| Chesterfield                           | 113843         | Route 1 (Merriewood Rd to Elliham Ave) Sidewalk              | \$1,250,000       | \$450,000          |                    | \$800,000        |                    |                    |                    |             | \$800,000         | \$0                       | \$0                    |   |
| Chesterfield                           | 115063         | Route 60 (Ruthers Rd-Stonebridge Plaza Ave) Shared-Use Path  | \$5,504,000       | \$954,000          | \$262,500          | \$340,000        | \$2,737,178        | \$110,822          |                    |             | \$3,450,500       | \$1,099,500               | \$0                    | Receive a transfer of \$273,000 previous RSTP funds from UPC 106296.  |
| Henrico                                | 101034         | #HB2.FY17 RTE 6 PATTERSON AVE AT PARHAM RD INTERSECTION      | \$12,754,186      | \$5,458,731        | \$2,525,000        | \$2,525,000      |                    |                    |                    |             | \$5,050,000       | \$3,491,269               | (\$1,245,814)          | Smart Scale project so surplus cannot be removed.   |
| Henrico                                | 106299         | PEDESTRIAN & SIGNAL IMPRMNTS - VARIOUS LOCATIONS (AZALEA)    | \$1,615,000       | \$615,000          | \$1,000,000        |                  |                    |                    |                    |             | \$1,000,000       | \$0                       | \$0                    |   |
| Henrico                                | 109190         | LABURNUM AVENUE SIDEWALK                                     | \$961,391         | \$515,309          | \$318,664          | \$127,418        |                    |                    |                    |             | \$446,082         | \$0                       | \$0                    |   |
| Ridefinders                            | -203           | Regionwide Air Pollution Reduction Program - Ridefinders     | N/A               |                    | <b>\$509,000</b>   | <b>\$509,000</b> | <b>\$509,000</b>   |                    |                    |             | \$1,527,000       | \$0                       | N/A                    | Funding FY21 - FY23 per TAC for this approach. Annual application to continue funding   |
| Richmond                               | -1811          | City of Richmond: Employee Trip Reduction Program            | N/A               | <b>\$86,447</b>    | <b>\$23,553</b>    |                  |                    |                    |                    |             | \$23,553          | \$0                       | N/A                    | Added \$86,447 in previous closeout funds from balance entry 101492 (\$9,706 in FY10, \$76,741 in FY16); balance of request in FY21     |
| Richmond                               | 105890         | Richmond Signal System - Phase III                           | \$7,340,000       | \$6,312,350        | <b>\$1,027,650</b> |                  |                    |                    |                    |             | \$1,027,650       | \$0                       | \$0                    | City requested \$1,027,650 for CN phase. Estimate in VDOT system needs to be updated (bid - \$6,979,000)                                |
| Richmond                               | New            | Richmond Signal System – Phase IV                            | \$5,488,000       | \$0                |                    |                  | <b>\$1,293,000</b> | <b>\$3,000,000</b> | <b>\$1,195,000</b> |             | \$5,488,000       | \$0                       | \$0                    |   |

| ALTERNATIVE A - FY21 - FY26 CMAQ FUNDS |                |  |                   |                   | ALLOCATIONS  |              |              |              |              |              |                   |                           |                        |   |
|--|----------------|--|-------------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------|---------------------------|------------------------|---|
| Sponsor                                | Project<br>UPC | Description  | Total<br>Estimate | Previous<br>Funds | FY21         | FY22         | FY23         | FY24         | FY25         | FY26         | FY21-FY26<br>CMAQ | Other<br>Planned<br>Funds | Balance to<br>Complete | NOTES   |
| Chesterfield                           | 111712         | Route 1 (Marina Drive - Merriewood Road) Shared-Use Path | \$2,496,640       | \$400,000         |              | \$414,000    |              |              |              |              | \$414,000         | \$1,682,640               | \$0                    | Smart Scale Project - balance for increased cost. Fully funds   |
| Henrico                                | New            | Nuckols Road Pedestrian Improvements                     | \$2,160,000       | \$0               |              |              |              | \$332,000    |              | \$412,000    | \$744,000         | \$0                       | \$1,416,000            | RW balance in FY 27, CN in FY28   |
| Henrico                                | New            | Brook Road & Hilliard Road Trail                         | \$4,757,000       | \$0               |              |              |              | \$298,500    | \$298,500    | \$887,000    | \$1,484,000       | \$0                       | \$3,273,000            | CN in FY28  |
| Chesterfield                           | New            | Old Bermuda Hundred Road at Ramblewood Drive Roundabout  | \$5,146,000       | \$0               |              |              |              | \$525,000    | \$500,000    | \$406,000    | \$1,431,000       | \$0                       | \$3,715,000            | CN in FY27/FY28   |
| Henrico                                | New            | Rt 33-60-Beulah Roundabout                               | \$5,519,000       | \$0               |              |              |              | \$689,000    |              |              | \$689,000         | \$0                       | \$4,830,000            | Project has PE, RW, and CN phases. Applicant requested funding for PE only and will seek funding for balance from other sources |
| Chesterfield                           | New            | Brad McNeer Parkway Access Management and Roundabout     | \$9,336,000       | \$0               |              |              |              | \$530,000    | \$4,210,000  | \$1,046,000  | \$5,786,000       | \$0                       | \$3,550,000            | CN in FY27  |
| N/A                                    | 101492         | Richmond Region-wide Traffic/Operations Improvements     | N/A               | N/A               | \$0          | \$410,642    | \$822,630    | \$1,823,487  | \$2,663,919  | \$3,621,794  |                   |                           |                        |   |
|  |                |  | Available Funding |                   | \$ 8,221,808 | \$ 8,221,808 | \$ 8,221,808 | \$ 8,704,809 | \$ 8,867,419 | \$ 9,032,794 |                   |                           |                        |   |
|  |                |  | Allocations       |                   | \$ 8,221,808 | \$ 8,221,808 | \$ 8,221,808 | \$ 8,704,809 | \$ 8,867,419 | \$ 9,032,794 |                   |                           |                        |   |
|  |                |  | Difference        |                   | \$ -         | \$ -         | \$ -         | \$ -         | \$ -         | \$ -         |                   |                           |                        |   |

| ALTERNATIVE A - FUTURE CMAQ COMMITMENTS |             |  |                |                |                  |                     |                     | COMMITMENTS |             |      |      |  |
|---|-------------|--|----------------|----------------|------------------|---------------------|---------------------|-------------|-------------|------|------|--|
| Sponsor                                 | Project UPC | Description  | Total Estimate | Previous Funds | FY21 - FY26 CMAQ | Other Planned Funds | Balance to Complete | FY27        | FY28        | FY29 | FY30 | NOTES  |
| GRTC                                    | -20113      | GRTC REPLACEMENT OF ROLLING STOCK CNG BUSES (FY22)           | \$2,465,420    | \$1,852,270    | \$698,150        | \$0                 | (\$85,000)          |             |             |      |      |  |
| Henrico                                 | 115201      | Patterson Avenue Sidewalks                                   | \$1,366,000    | \$0            | \$1,366,000      | \$0                 | \$0                 |             |             |      |      |  |
| Chesterfield                            | 115784      | Meadowdale Blvd (Dalebrook Drive to Beulah Rd) Ped-Bike Imps | \$3,660,000    | \$0            | \$3,660,000      | \$0                 | \$0                 |             |             |      |      |  |
| Port of Virginia                        | 115815      | I-64 Express Barge Service Expansion                         | \$3,000,000    | \$0            | \$3,000,000      | \$0                 | \$0                 |             |             |      |      | Advanced some of the funding to match local schedule and request   |
| Henrico                                 | 109951      | Henrico County Automated Traffic Management System (ATMS)    | \$9,805,731    | \$5,962,692    | \$3,843,039      | \$0                 | \$0                 |             |             |      |      |  |
| Chesterfield                            | 113843      | Route 1 (Merriewood Rd to Elliham Ave) Sidewalk              | \$1,250,000    | \$450,000      | \$800,000        | \$0                 | \$0                 |             |             |      |      |  |
| Chesterfield                            | 115063      | Route 60 (Ruthers Rd-Stonebridge Plaza Ave) Shared-Use Path  | \$5,504,000    | \$954,000      | \$3,450,500      | \$1,099,500         | \$0                 |             |             |      |      | Receive a transfer of \$273,000 previous RSTP funds from UPC 106296. Advanced FY24 funds to FY23 per schedule            |
| Henrico                                 | 101034      | #HB2.FY17 RTE 6 PATTERSON AVE AT PARHAM RD INTERSECTION      | \$12,754,186   | \$5,458,731    | \$5,050,000      | \$3,491,269         | (\$1,245,814)       |             |             |      |      | Smart Scale project so surplus cannot be removed.  |
| Henrico                                 | 106299      | PEDESTRIAN & SIGNAL IMPRMNTS - VARIOUS LOCATIONS (AZALEA)    | \$1,615,000    | \$615,000      | \$1,000,000      | \$0                 | \$0                 |             |             |      |      |  |
| Henrico                                 | 109190      | LABURNUM AVENUE SIDEWALK                                     | \$961,391      | \$515,309      | \$446,082        | \$0                 | \$0                 |             |             |      |      |  |
| Ridefinders                             | -203        | Regionwide Air Pollution Reduction Program - Ridefinders     | N/A            | \$0            | \$1,527,000      | \$0                 | N/A                 |             |             |      |      | Funding FY21 - FY23 per TAC. Annual application to continue funding  |
| Richmond                                | -1811       | City of Richmond: Employee Trip Reduction Program            | N/A            | \$86,447       | \$23,553         | \$0                 | N/A                 |             |             |      |      | Added \$86,447 in previous closeout funds from balance entry 101492 (\$9,706 in FY10, \$76,741 in FY16)                  |
| Richmond                                | 105890      | Richmond Signal System - Phase III                           | \$7,340,000    | \$6,312,350    | \$1,027,650      | \$0                 | \$0                 |             |             |      |      | City requested \$1,027,650 for CN phase. Estimate in VDOT system needs to be updated. Update - Base CN bid - \$6,979,000 |
| Richmond                                | New         | Richmond Signal System – Phase IV                            | \$5,488,000    | \$0            | \$5,488,000      | \$0                 | \$0                 |             |             |      |      |  |
| Chesterfield                            | 111712      | Route 1 (Marina Drive - Merriewood Road) Shared-Use Path     | \$2,496,640    | \$400,000      | \$414,000        | \$1,682,640         | \$0                 |             |             |      |      | Scope change and cost increase. Estimate in VDOT system needs to be updated.   |
| Henrico                                 | New         | Nuckols Road Pedestrian Improvements                         | \$2,160,000    | \$0            | \$744,000        | \$0                 | \$1,416,000         | \$412,000   | \$1,004,000 |      |      | RW balance in FY 27, CN in FY28  |
| Henrico                                 | New         | Brook Road & Hilliard Road Trail                             | \$4,757,000    | \$0            | \$1,484,000      | \$0                 | \$3,273,000         |             | \$3,273,000 |      |      | CN in FY28   |
| Chesterfield                            | New         | Old Bermuda Hundred Road at Ramblewood Drive Roundabout      | \$5,146,000    | \$0            | \$1,431,000      | \$0                 | \$3,715,000         | \$3,000,000 | \$715,000   |      |      | CN in FY27/FY28  |

| ALTERNATIVE A - FUTURE CMAQ COMMITMENTS |                |  |                   |                   |                     |                           |                        | COMMITMENTS  |              |              |              |   |
|---|----------------|--|-------------------|-------------------|---------------------|---------------------------|------------------------|--------------|--------------|--------------|--------------|---|
| Sponsor                                 | Project<br>UPC | Description  | Total<br>Estimate | Previous<br>Funds | FY21 - FY26<br>CMAQ | Other<br>Planned<br>Funds | Balance to<br>Complete | FY27         | FY28         | FY29         | FY30         | NOTES   |
| Henrico                                 | New            | Rt 33-60-Beulah Roundabout                           | \$5,519,000       | \$0               | \$689,000           | \$0                       | \$4,830,000            |              |              |              |              | Project has PE, RW, and CN phases. Applicant requested funding for PE only and will seek funding for balance from other sources |
| Chesterfield                            | New            | Brad McNeer Parkway Access Management and Roundabout | \$9,336,000       | \$0               | \$5,786,000         | \$0                       | \$3,550,000            | \$2,550,000  | \$1,000,000  |              |              | CN in FY27/FY28   |
| N/A                                     | 101492         | Richmond Region-wide Traffic/Operations Improvements | \$0               | \$0               |                     |                           | N/A                    | \$3,070,794  | \$3,040,794  | \$9,032,794  | \$9,032,794  |   |
|   |                |  |                   |                   |                     | Expected Funding          |                        | \$ 9,032,794 | \$ 9,032,794 | \$ 9,032,794 | \$ 9,032,794 |   |
|   |                |  |                   |                   |                     | Commitments               |                        | \$ 9,032,794 | \$ 9,032,794 | \$ 9,032,794 | \$ 9,032,794 |   |
|   |                |  |                   |                   |                     | Difference                |                        | \$ -         | \$ -         | \$ -         | \$ -         |   |

ALTERNATIVE A - CURRENT APPROACH

| ALTERNATIVE A - FY21 - FY26 RSTP ALLOCATIONS |             |   |                |                      | ALLOCATIONS |             |             |             |             |             |                  |                     |                     |   |
|--|-------------|---|----------------|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------|---------------------|---------------------|---|
| Sponsor                                      | Project UPC | Description   | Total Estimate | Total Previous Funds | FY21        | FY22        | FY23        | FY24        | FY25        | FY26        | FY21 - FY26 RSTP | Other Planned Funds | Balance to Complete | NOTES   |
| Goochland                                    | 105733      | RTE 623 - IMPROVE INTERSECTION                              | \$5,476,000    | \$0                  |             | \$729,000   |             | \$311,959   | \$4,417,000 |             | \$5,457,959      | \$18,041            | \$0                 | Per local schedule; PE in FY22, RW in FY24, CN in FY25; \$18,041 in Tele funds in FY23                    |
| Charles City                                 | 106296      | RTE 155 - CONSTRUCT TRAIL (PE Only)                         | \$400,000      | \$0                  |             | \$400,000   |             |             |             |             | \$400,000        | \$0                 | \$0                 | Move whole project estimate to FY22. Transfer \$273,000 previous RSTP funds to UPC 115063.                |
| Henrico                                      | 109194      | #SMART20 - PARHAM RD TRAFFIC SIGNAL AND SIDEWALK PROJECT    | \$4,460,000    | \$430,000            |             |             | \$972,500   | \$1,387,500 | \$335,000   |             | \$2,695,000      | \$1,335,000         | \$0                 |   |
| Hanover                                      | 109260      | POLE GREEN RD WIDENING                                      | \$20,000,000   | \$5,764,452          |             | \$1,600,000 |             | \$3,500,000 | \$4,000,000 | \$3,834,748 | \$12,934,748     | \$1,300,800         | \$0                 | Kept current funding scheme (partial RW, full PE, CN)   |
| Chesterfield                                 | 113846      | Early Settlers Rd Sidewalk: Robius Rd to Hospital/Park      | \$1,170,000    | \$0                  |             | \$270,000   | \$150,000   | \$750,000   |             |             | \$1,170,000      | \$0                 | \$0                 |   |
| Hanover                                      | 115195      | Atlee Station Rd Widening                                   | \$31,529,239   | \$0                  |             |             |             |             | \$2,500,000 | \$4,000,000 | \$6,500,000      | \$20,650,400        | \$4,378,839         | Local schedule: PE - 8/3/2020; RW - 5/22/23; CN - 5/2/26 per application. CN balance in FY27 per schedule |
| Richmond                                     | 115200      | Hull Street Improvement Project Phase III                   | \$11,664,209   | \$0                  |             |             |             | \$727,127   | \$1,213,420 | \$3,500,000 | \$5,440,547      | \$0                 | \$6,223,662         | CN balance in FY27/FY28 per schedule  |
| Henrico                                      | 115769      | Libbie Avenue Road Diet - Bethlehem Rd to W Broad St        | \$1,725,000    | \$0                  |             | \$185,000   | \$10,000    | \$1,530,000 |             |             | \$1,725,000      | \$0                 | \$0                 |   |
| Richmond                                     | 104888      | #SGR - RTE 360 - REHAB MAYO BRIDGE                          | \$12,400,000   | \$4,977,756          |             | \$1,532,321 | \$1,500,000 |             |             |             | \$3,032,321      | \$789,923           | \$3,600,000         | Balance to possibly be provided by a pending Revenue Sharing application request for \$3.6 million.       |
| Chesterfield                                 | 115063      | Route 60 (Ruthers Rd-Stonebridge Plaza Ave) Shared-Use Path | \$5,504,000    | \$954,000            | \$700,000   | \$399,500   |             |             |             |             | \$1,099,500      | \$3,450,500         | \$0                 | Receive a transfer of \$273,000 previous RSTP funds from UPC 106296 (included in previous)                |
| Hanover                                      | 13551       | #SMART18 - RTE 360 WIDENING                                 | \$23,894,526   | \$11,676,006         |             |             | \$3,996,747 | \$2,158,580 |             |             | \$6,155,327      | \$6,352,667         | (\$289,474)         | Smart Scale project so surplus cannot be removed.   |
| Henrico                                      | 50529       | RTE 9999 (THREE CHOPT ROAD) WIDEN TO 4 LANES                | \$22,653,669   | \$24,653,669         |             |             | \$962,000   |             |             |             | \$962,000        | \$0                 | (\$2,962,000)       | County to provide revised estimate. Anticipate estimate may be higher than current allocations            |
| Henrico                                      | 104148      | SADLER RD - RECONSTRUCTION                                  | \$27,106,587   | \$17,586,587         |             | \$3,500,000 | \$4,300,000 | \$1,720,000 |             |             | \$9,520,000      | \$0                 | \$0                 | RW and CN only. PE under 60934. County requested an additional \$920,000.                                 |

| ALTERNATIVE A - FY21 - FY26 RSTP ALLOCATIONS |             |  |                |                      | ALLOCATIONS |             |             |             |           |      |                  |                     |                     |  |
|--|-------------|--|----------------|----------------------|-------------|-------------|-------------|-------------|-----------|------|------------------|---------------------|---------------------|--|
| Sponsor                                      | Project UPC | Description  | Total Estimate | Total Previous Funds | FY21        | FY22        | FY23        | FY24        | FY25      | FY26 | FY21 - FY26 RSTP | Other Planned Funds | Balance to Complete | NOTES  |
| Richmond                                     | 104281      | DEEPWATER TERMINAL RD - EXTEND EXISTING ROADWAY              | \$5,325,800    | \$3,928,898          | \$568,102   | \$498,800   | \$330,000   |             |           |      | \$1,396,902      | \$0                 | \$0                 |  |
| Chesterfield                                 | 104889      | RT 10 (Whitepine to Frith) WIDENING                          | \$15,181,279   | \$1,950,000          | \$7,958,213 | \$5,273,066 |             |             |           |      | \$13,231,279     | \$0                 | \$0                 |  |
| Chesterfield                                 | 104890      | RTE 360 E (Lonas Pkwy to Castle Rock Rd) - WIDENING          | \$7,818,000    | \$5,790,167          | \$1,050,000 | \$977,833   |             |             |           |      | \$2,027,833      | \$0                 | \$0                 |  |
| Chesterfield                                 | 107085      | RTE 641 - REPLACE SD BRIDGE FED ID 5280                      | \$6,019,000    | \$4,019,000          |             | \$1,379,000 | \$621,000   |             |           |      | \$2,000,000      | \$0                 | \$0                 |  |
| Henrico                                      | 109190      | LABURNUM AVENUE SIDEWALK                                     | \$961,391      | \$515,309            | \$127,418   |             |             |             |           |      | \$127,418        | \$318,664           | \$0                 |  |
| Ashland                                      | 112042      | ROUTE 1 IMPROVEMENTS: ASHCAKE RD TO ARBOR OAK DR             | \$9,696,729    | \$1,096,891          | \$2,550,999 | \$1,094,568 | \$3,390,086 | \$1,564,185 |           |      | \$8,599,838      | \$0                 | \$0                 |  |
| Port of Virginia                             | 113832      | Richmond Marine Terminal (RMT) Gate Impr. & New Drop-off Lot | \$2,550,000    | \$845,417            | \$852,300   | \$852,283   |             |             |           |      | \$1,704,583      | \$0                 | \$0                 |  |
| Henrico                                      | 113833      | Three Chopt Rd Sidewalk Impr. (Dinwiddie Ave to Bexhill Rd)  | \$2,165,000    | \$365,000            |             |             | \$1,800,000 |             |           |      | \$1,800,000      | \$0                 | \$0                 |  |
| Richmond                                     | 19036       | FOREST HILL AVENUE IMPROVEMENTS                              | \$14,189,886   | \$12,700,956         | \$1,488,930 |             |             |             |           |      | \$1,488,930      | \$0                 | \$0                 | Locality requested \$1.4M additional to finish construction phase. Shortfall fully funded  |
| Chesterfield                                 | 101020      | #HB2.FY17 RTE 10 (BERMUDA TRIANGLE RD TO MEADOWVILLE RD)     | \$64,637,849   | \$56,866,679         | \$2,791,123 |             |             |             |           |      | \$2,791,123      | \$4,980,047         | \$0                 |  |
| Ashland                                      | 103393      | ASHLAND TROLLEY LINE TRAIL                                   | \$1,710,156    | \$1,645,599          | \$64,557    |             |             |             |           |      | \$64,557         | \$0                 | \$0                 | Locality request for additional \$135,000 for CN. Added \$70,443 in FY17/previous from balance entry UPC 101492. Balance in FY21 |
| RRTPO  | New         | RRTPO Scenario Planning Pilot                                | \$243,550      | \$0                  | \$243,550   |             |             |             |           |      | \$243,550        | \$0                 | \$0                 |  |
| Henrico                                      | New         | W Broad St Intersection Improvements at Dominion and Cox     | \$11,487,000   | \$0                  | \$379,334   | \$379,333   | \$379,333   | \$1,580,000 | \$800,000 |      | \$3,518,000      | \$0                 | \$7,969,000         | CN in FY27, FY28   |
| Chesterfield                                 | New         | US 360 Superstreets Study                                    | \$300,000      | \$0                  | \$300,000   |             |             |             |           |      | \$300,000        | \$0                 | \$0                 |  |

| ALTERNATIVE A - FY21 - FY26 RSTP ALLOCATIONS |             |   |                   |                      | ALLOCATIONS   |               |               |               |               |               |                  |                     |                     |   |
|--|-------------|---|-------------------|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------|---------------------|---------------------|---|
| Sponsor                                      | Project UPC | Description   | Total Estimate    | Total Previous Funds | FY21          | FY22          | FY23          | FY24          | FY25          | FY26          | FY21 - FY26 RSTP | Other Planned Funds | Balance to Complete | NOTES   |
| Chesterfield                                 | New         | Route 60 Corridor Improvement Study                                       | \$125,000         | \$0                  | \$125,000     |               |               |               |               |               | \$125,000        | \$0                 | \$0                 |   |
| Henrico                                      | New         | W Broad St Pedestrian and Transit Improvements - Glenside Dr to Parham Rd | \$11,272,000      | \$0                  |               |               |               | \$1,125,000   |               | \$820,000     | \$1,945,000      | \$0                 | \$9,327,000         | RW in FY27/28; CN in FY29/30                        |
| Chesterfield                                 | New         | Route 1 (Holiday Lane - Willis Road) Shared-Use Path                      | \$4,370,000       | \$0                  |               |               |               | \$332,000     | \$1,600,000   | \$2,438,000   | \$4,370,000      | \$0                 | \$0                 | Some CN funding in FY25 if project goes to ad early |
| Goochland                                    | New         | IJR - Route 288 (West Creek Area)   | \$499,900         | \$0                  | \$499,900     |               |               |               |               |               | \$499,900        | \$0                 | \$0                 |   |
| N/A  | 101492      | Richmond Region-Wide Traffic/Operations Improvements                      | N/A               | \$0                  | \$0           | \$1,004,997   | \$2,046,708   | \$4,161,200   | \$6,377,925   | \$7,053,120   |                  | N/A                 | N/A                 |   |
|  |             |   | Available Funding |                      | \$ 19,699,426 | \$ 20,075,701 | \$ 20,458,374 | \$ 20,847,551 | \$ 21,243,345 | \$ 21,645,868 |                  |                     |                     |   |
|  |             |   | Allocations       |                      | \$ 19,699,426 | \$ 20,075,701 | \$ 20,458,374 | \$ 20,847,551 | \$ 21,243,345 | \$ 21,645,868 |                  |                     |                     |   |
|  |             |   | Difference        |                      | \$ -          | \$ -          | \$ -          | \$ -          | \$ -          | \$ -          |                  |                     |                     |   |

| ALTERNATIVE A - FUTURE RSTP COMMITMENTS |             |  |                |                    |                  |                     |                     | COMMITMENTS |             |      |      |   |
|---|-------------|--|----------------|--------------------|------------------|---------------------|---------------------|-------------|-------------|------|------|---|
| Sponsor                                 | Project UPC | Description  | Total Estimate | All Previous Funds | FY21 - FY26 RSTP | Other Planned Funds | Balance to Complete | FY27        | FY28        | FY29 | FY30 | NOTES   |
| Goochland                               | 105733      | RTE 623 - IMPROVE INTERSECTION                               | \$5,476,000    | \$0                | \$5,457,959      | \$18,041            | \$0                 |             |             |      |      |   |
| Charles City                            | 106296      | RTE 155 - CONSTRUCT TRAIL (PE Only)                          | \$400,000      | \$0                | \$400,000        | \$0                 | \$0                 |             |             |      |      |   |
| Henrico                                 | 109194      | #SMART20 - PARHAM RD TRAFFIC SIGNAL AND SIDEWALK PROJECT     | \$4,460,000    | \$430,000          | \$2,695,000      | \$1,335,000         | \$0                 |             |             |      |      |   |
| Hanover                                 | 109260      | POLE GREEN RD WIDENING                                       | \$20,000,000   | \$5,764,452        | \$12,934,748     | \$1,300,800         | \$0                 |             |             |      |      |   |
| Chesterfield                            | 113846      | Early Settlers Rd Sidewalk: Robius Rd to Hospital/Park       | \$1,170,000    | \$0                | \$1,170,000      | \$0                 | \$0                 |             |             |      |      |   |
| Hanover                                 | 115195      | Atlee Station Rd Widening                                    | \$31,529,239   | \$0                | \$6,500,000      | \$20,650,400        | \$4,378,839         | \$4,378,839 |             |      |      | CN balance in FY27  |
| Richmond                                | 115200      | Hull Street Improvement Project Phase III                    | \$11,664,209   | \$0                | \$6,174,768      | \$0                 | \$5,489,441         | \$4,000,000 | \$2,489,441 |      |      | Balance in FY27/FY28  |
| Henrico                                 | 115769      | Libbie Avenue Road Diet - Bethlehem Rd to W Broad St         | \$1,725,000    | \$0                | \$1,725,000      | \$0                 | \$0                 |             |             |      |      |   |
| Richmond                                | 104888      | #SGR - RTE 360 - REHAB MAYO BRIDGE                           | \$12,400,000   | \$4,977,756        | \$3,032,321      | \$789,923           | \$3,600,000         |             |             |      |      | Balance to possibly be provided by a pending Revenue Sharing application request for \$3.6 million. |
| Chesterfield                            | 115063      | Route 60 (Ruthers Rd-Stonebridge Plaza Ave) Shared-Use Path  | \$5,504,000    | \$954,000          | \$1,099,499      | \$3,450,501         | \$0                 |             |             |      |      |   |
| Hanover                                 | 13551       | #SMART18 - RTE 360 WIDENING                                  | \$23,894,526   | \$11,676,006       | \$6,155,327      | \$6,352,667         | (\$289,474)         |             |             |      |      |   |
| Henrico                                 | 50529       | RTE 9999 (THREE CHOPT ROAD) WIDEN TO 4 LANES                 | \$22,653,669   | \$24,653,669       | \$962,000        | \$0                 | (\$2,962,000)       |             |             |      |      |   |
| Henrico                                 | 104148      | SADLER RD - RECONSTRUCTION                                   | \$27,106,587   | \$17,586,587       | \$9,520,000      | \$0                 | \$0                 |             |             |      |      |   |
| Richmond                                | 104281      | DEEPWATER TERMINAL RD - EXTEND EXISTING ROADWAY              | \$5,325,800    | \$3,928,898        | \$1,396,902      | \$0                 | \$0                 |             |             |      |      |   |
| Chesterfield                            | 104889      | RT 10 (Whitepine to Frith) WIDENING                          | \$15,181,279   | \$1,950,000        | \$13,231,279     | \$0                 | \$0                 |             |             |      |      |   |
| Chesterfield                            | 104890      | RTE 360 E (Lonas Pkwy to Castle Rock Rd) - WIDENING          | \$7,818,000    | \$5,790,167        | \$2,027,833      | \$0                 | \$0                 |             |             |      |      |   |
| Chesterfield                            | 107085      | RTE 641 - REPLACE SD BRIDGE FED ID 5280                      | \$6,019,000    | \$4,019,000        | \$2,000,000      | \$0                 | \$0                 |             |             |      |      |   |
| Henrico                                 | 109190      | LABURNUM AVENUE SIDEWALK                                     | \$961,391      | \$515,309          | \$127,418        | \$318,664           | \$0                 |             |             |      |      |   |
| Ashland                                 | 112042      | ROUTE 1 IMPROVEMENTS: ASHCAKE RD TO ARBOR OAK DR             | \$9,696,729    | \$1,096,891        | \$8,599,838      | \$0                 | \$0                 |             |             |      |      |   |
| Port of Virginia                        | 113832      | Richmond Marine Terminal (RMT) Gate Impr. & New Drop-off Lot | \$2,550,000    | \$845,417          | \$1,704,583      | \$0                 | \$0                 |             |             |      |      |   |



| ALTERNATIVE A - FUTURE RSTP COMMITMENTS |             |   |                |                    |                  |                     |                     | COMMITMENTS   |               |               |               |                                |
|---|-------------|---|----------------|--------------------|------------------|---------------------|---------------------|---------------|---------------|---------------|---------------|--------------------------------|
| Sponsor                                 | Project UPC | Description   | Total Estimate | All Previous Funds | FY21 - FY26 RSTP | Other Planned Funds | Balance to Complete | FY27          | FY28          | FY29          | FY30          | NOTES                          |
| Henrico                                 | 113833      | Three Chopt Rd Sidewalk Impr. (Dinwiddie Ave to Bexhill Rd)               | \$2,165,000    | \$365,000          | \$1,800,000      | \$0                 | \$0                 |               |               |               |               |                                |
| Richmond                                | 19036       | FOREST HILL AVENUE IMPROVEMENTS   | \$14,189,886   | \$12,700,956       | \$1,488,930      | \$0                 | \$0                 |               |               |               |               |                                |
| Chesterfield                            | 101020      | #HB2.FY17 RTE 10 (BERMUDA TRIANGLE RD TO MEADOWVILLE RD)                  | \$64,637,849   | \$56,866,679       | \$2,791,123      | \$4,980,047         | \$0                 |               |               |               |               |                                |
| Ashland                                 | 103393      | ASHLAND TROLLEY LINE TRAIL  | \$1,710,156    | \$1,575,156        | \$135,000        | \$0                 | \$0                 |               |               |               |               |                                |
| RRTPO                                   | New         | RRTPO Scenario Planning Pilot   | \$243,550      | \$70,443           | \$173,107        | \$0                 | \$0                 |               |               |               |               |                                |
| Henrico                                 | New         | W Broad St Intersection Improvements at Dominion and Cox                  | \$11,487,000   | \$0                | \$3,508,000      | \$0                 | \$7,979,000         | \$4,000,000   | \$3,979,000   |               |               | CN in FY27, FY28               |
| Chesterfield                            | New         | US 360 Superstreets Study   | \$300,000      | \$0                | \$300,000        | \$0                 | \$0                 |               |               |               |               |                                |
| Chesterfield                            | New         | Route 60 Corridor Improvement Study                                       | \$125,000      | \$0                | \$125,000        | \$0                 | \$0                 |               |               |               |               |                                |
| Henrico                                 | New         | W Broad St Pedestrian and Transit Improvements - Glenside Dr to Parham Rd | \$11,272,000   | \$0                | \$1,945,000      | \$0                 | \$9,327,000         | \$1,100,000   | \$540,000     | \$4,000,000   | \$3,687,000   | RW balance FY27/28; CN FY29/30 |
| Chesterfield                            | New         | Route 1 (Holiday Lane - Willis Road) Shared-Use Path                      | \$4,370,000    | \$0                | \$4,370,000      | \$0                 | \$0                 |               |               |               |               |                                |
| Goochland                               | New         | IJR - Route 288 (West Creek Area)   | \$499,900      | \$0                | \$499,900        | \$0                 | \$0                 |               |               |               |               |                                |
| N/A                                     | 101492      | Richmond Region-Wide Traffic/Operations Improvements                      | N/A            | \$0                |                  |                     | N/A                 | \$8,167,029   | \$14,637,427  | \$17,645,868  | \$17,958,868  |                                |
|   |             |   |                |                    |                  | Expected Funding    |                     | \$ 21,645,868 | \$ 21,645,868 | \$ 21,645,868 | \$ 21,645,868 |                                |
|   |             |   |                |                    |                  | Commitments         |                     | \$ 21,645,868 | \$ 21,645,868 | \$ 21,645,868 | \$ 21,645,868 |                                |
|   |             |   |                |                    |                  | Difference          |                     | \$ -          | \$ -          | \$ -          | \$ -          |                                |

ALTERNATIVE B - STAFF RECOMMENDATION

| ALTERNATIVE B - FY21 - FY26 CMAQ ALLOCATIONS |             |   |                |                      | Allocations |             |             |             |             |           |                |                     |                     |  |
|--|-------------|---|----------------|----------------------|-------------|-------------|-------------|-------------|-------------|-----------|----------------|---------------------|---------------------|--|
| Sponsor                                      | Project UPC | Description   | Total Estimate | Total Previous Funds | FY21        | FY22        | FY23        | FY24        | FY25        | FY26      | FY21-FY26 CMAQ | Other Planned Funds | Balance to Complete | NOTES  |
| GRTC   | -20113      | GRTC REPLACEMENT OF ROLLING STOCK CNG BUSES (FY22)            | \$2,465,420    | \$1,852,270          |             | \$698,150   |             |             |             |           | \$698,150      | \$0                 | (\$85,000)          | Sponsor requested transfer of \$85,000 in previous CMAQ from T9717 to project. Funding flexed to FTA. Need to update estimate.       |
| Henrico                                      | 115201      | Patterson Avenue Sidewalks                                    | \$1,366,000    | \$0                  |             | \$200,000   | \$270,000   | \$896,000   |             |           | \$1,366,000    | \$0                 | \$0                 |  |
| Chesterfield                                 | 115784      | Meadowdale Blvd (Dalebrook Drive to Beulah Rd) Ped-Bike Imps  | \$3,660,000    | \$0                  |             | \$500,000   |             | \$500,000   | \$2,660,000 |           | \$3,660,000    | \$0                 | \$0                 | CN advanced to FY25 in case project goes to ad early   |
| Port of Virginia                             | 115815      | I-64 Express Barge Service Expansion                          | \$3,000,000    | \$0                  |             |             | \$3,000,000 |             |             |           | \$3,000,000    | \$0                 | \$0                 | Sponsor requested to keep in FY23 or advance if possible   |
| Henrico                                      | 109951      | Henrico County Automated Traffic Management System (ATMS)     | \$9,805,731    | \$5,962,692          | \$2,144,350 | \$1,698,689 |             |             |             |           | \$3,843,039    | \$0                 | \$0                 |  |
| Chesterfield                                 | 113843      | Route 1 (Merriewood Rd to Elliham Ave) Sidewalk               | \$1,250,000    | \$450,000            |             | \$800,000   |             |             |             |           | \$800,000      | \$0                 | \$0                 |  |
| Chesterfield                                 | 115063      | Route 60 (Ruthers Rd-Stonebridge Plaza Ave) Shared-Use Path   | \$5,504,000    | \$954,000            | \$262,500   | \$340,000   | \$2,738,000 | \$110,000   |             |           | \$3,450,500    | \$1,099,500         | \$0                 | Receive a transfer of \$273,000 previous RSTP funds from UPC 106296. Advanced FY24 funds per schedule; project also has RSTP funding |
| Henrico                                      | 101034      | #HB2.FY17 RTE 6 PATTERSON AVE AT PARHAM RD INTERSECTION       | \$12,754,186   | \$5,458,731          | \$2,525,000 | \$2,525,000 |             |             |             |           | \$5,050,000    | \$3,491,269         | (\$1,245,814)       | Smart Scale project so surplus cannot be removed.  |
| Henrico                                      | 106299      | PEDESTRIAN & SIGNAL IMPROVEMENTS - VARIOUS LOCATIONS (AZALEA) | \$1,615,000    | \$615,000            | \$1,000,000 |             |             |             |             |           | \$1,000,000    | \$0                 | \$0                 |  |
| Henrico                                      | 109190      | LABURNUM AVENUE SIDEWALK                                      | \$961,391      | \$515,309            | \$318,664   | \$127,418   |             |             |             |           | \$446,082      | \$0                 | \$0                 |  |
| Ridefinders                                  | -203        | Regionwide Air Pollution Reduction Program - Ridefinders      | N/A            |                      | \$509,000   | \$509,000   | \$509,000   | \$509,000   | \$509,000   | \$509,000 | \$3,054,000    | \$0                 | N/A                 | Allocation for all six years; amount to be adjusted annually to reflect inflation  |
| Richmond                                     | -1811       | City of Richmond: Employee Trip Reduction Program             | N/A            | \$86,447             | \$23,553    |             |             |             |             |           | \$23,553       | \$0                 | N/A                 | Added \$86,447 in previous closeout funds from balance entry 101492 (\$9,706 in FY10, \$76,741 in FY16)                              |
| Richmond                                     | 105890      | Richmond Signal System - Phase III                            | \$7,340,000    | \$6,312,350          | \$1,027,650 |             |             |             |             |           | \$1,027,650    | \$0                 | \$0                 | City requested \$1,027,650 more for CN phase. Bid - \$6,979,000  |
| Richmond                                     | New         | Richmond Signal System – Phase IV                             | \$5,488,000    | \$0                  |             |             | \$1,293,000 | \$3,135,000 | \$1,060,000 |           | \$5,488,000    | \$0                 | \$0                 |  |
| Chesterfield                                 | 111712      | Route 1 (Marina Drive - Merriewood Road) Shared-Use Path      | \$2,496,640    | \$400,000            |             | \$414,000   |             |             |             |           | \$414,000      | \$1,682,640         | \$0                 | Scope change and cost increase. Estimate in VDOT system needs to be updated.   |
| Henrico                                      | New         | Nuckols Road Pedestrian Improvements                          | \$2,160,000    | \$0                  |             |             |             | \$332,000   |             | \$824,000 | \$1,156,000    | \$0                 | \$1,004,000         | CN in FY27 per project schedule  |

ALTERNATIVE B - STAFF RECOMMENDATION

| ALTERNATIVE B - FY21 - FY26 CMAQ ALLOCATIONS |                |   |                   |                            | Allocations  |              |              |              |              |              |                   |                           |                        |  |
|--|----------------|---|-------------------|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------|---------------------------|------------------------|--|
| Sponsor                                      | Project<br>UPC | Description   | Total<br>Estimate | Total<br>Previous<br>Funds | FY21         | FY22         | FY23         | FY24         | FY25         | FY26         | FY21-FY26<br>CMAQ | Other<br>Planned<br>Funds | Balance to<br>Complete | NOTES  |
| Henrico                                      | New            | Brook Road & Hilliard Road Trail                        | \$4,757,000       | \$0                        |              |              |              | \$597,000    |              | \$887,000    | \$1,484,000       | \$0                       | \$3,273,000            | CN in FY27/FY28 per project schedule   |
| Chesterfield                                 | New            | Old Bermuda Hundred Road at Ramblewood Drive Roundabout | \$5,146,000       | \$0                        |              |              |              | \$525,000    | \$906,000    |              | \$1,431,000       | \$0                       | \$3,715,000            | CN balance in FY27   |
| Henrico                                      | New            | Rt 33-60-Beulah Roundabout                              | \$5,519,000       | \$0                        |              |              |              | \$689,000    |              |              | \$689,000         | \$0                       | \$4,830,000            | Project has PE, RW, and CN phases. Applicant requested funding for PE only and will seek funding for balance from other sources -- subject to reallocation if unsuccessful |
| Chesterfield                                 | New            | Brad McNeer Parkway Access Management and Roundabout    | \$9,336,000       | \$0                        |              |              |              | \$530,000    | \$2,211,000  | \$3,045,000  | \$5,786,000       | \$0                       | \$3,550,000            | CN in FY27   |
| Chesterfield                                 | New            | Route 1 (Holiday Lane - Willis Road) Shared-Use Path    | \$4,370,000       | \$0                        |              |              |              | \$332,000    | \$906,000    | \$2,968,000  | \$4,206,000       | \$0                       | \$164,000              | CN balance in FY27   |
| Ashland                                      | New            | Ashcake Road Pedestrian Improvements                    | \$629,000         | \$0                        |              |              |              | \$111,000    | \$170,000    | \$348,000    | \$629,000         | \$0                       | \$0                    |  |
| N/A  | 101492         | Richmond Region-wide Traffic/Operations Improvements    | \$0               | \$0                        | \$411,091    | \$409,551    | \$411,808    | \$438,809    | \$445,419    | \$451,794    |                   |                           |                        |  |
|  | PE             |   | Available Funding |                            | \$ 8,221,808 | \$ 8,221,808 | \$ 8,221,808 | \$ 8,704,809 | \$ 8,867,419 | \$ 9,032,794 |                   |                           |                        |  |
|  | RW             |   | Allocations       |                            | \$ 8,221,808 | \$ 8,221,808 | \$ 8,221,808 | \$ 8,704,809 | \$ 8,867,419 | \$ 9,032,794 |                   |                           |                        |  |
|  | CN             |   | Difference        |                            | \$ -         | \$ -         | \$ -         | \$ -         | \$ -         | \$ -         |                   |                           |                        |  |

ALTERNATIVE B - STAFF RECOMMENDATION

| CMAQ FUTURE COMMITMENTS |             |   |                |                    |                  |                     |                     | FUTURE COMMITMENTS |           |           |           |   |
|-------------------------|-------------|---|----------------|--------------------|------------------|---------------------|---------------------|--------------------|-----------|-----------|-----------|---|
| Sponsor                 | Project UPC | Description   | Total Estimate | All Previous Funds | FY21 - FY26 CMAQ | Other Planned Funds | Balance to Complete | FY27               | FY28      | FY29      | FY30      | NOTES   |
| GRTC                    | -20113      | GRTC REPLACEMENT OF ROLLING STOCK CNG BUSES (FY22)            | \$2,465,420    | \$1,852,270        | \$698,150        | \$0                 | (\$85,000)          |                    |           |           |           |   |
| Henrico                 | 115201      | Patterson Avenue Sidewalks                                    | \$1,366,000    | \$0                | \$1,366,000      | \$0                 | \$0                 |                    |           |           |           |   |
| Chesterfield            | 115784      | Meadowdale Blvd (Dalebrook Drive to Beulah Rd) Ped-Bike Imps  | \$3,660,000    | \$0                | \$3,660,000      | \$0                 | \$0                 |                    |           |           |           |   |
| Port of Virginia        | 115815      | I-64 Express Barge Service Expansion                          | \$3,000,000    | \$0                | \$3,000,000      | \$0                 | \$0                 |                    |           |           |           |   |
| Henrico                 | 109951      | Henrico County Automated Traffic Management System (ATMS)     | \$9,805,731    | \$5,962,692        | \$3,843,039      | \$0                 | \$0                 |                    |           |           |           |   |
| Chesterfield            | 113843      | Route 1 (Merriewood Rd to Elliham Ave) Sidewalk               | \$1,250,000    | \$450,000          | \$800,000        | \$0                 | \$0                 |                    |           |           |           |   |
| Chesterfield            | 115063      | Route 60 (Ruthers Rd-Stonebridge Plaza Ave) Shared-Use Path   | \$5,504,000    | \$954,000          | \$3,450,500      | \$1,099,500         | \$0                 |                    |           |           |           |   |
| Henrico                 | 101034      | #HB2.FY17 RTE 6 PATTERSON AVE AT PARHAM RD INTERSECTION       | \$12,754,186   | \$5,458,731        | \$5,050,000      | \$3,491,269         | (\$1,245,814)       |                    |           |           |           |   |
| Henrico                 | 106299      | PEDESTRIAN & SIGNAL IMPROVEMENTS - VARIOUS LOCATIONS (AZALEA) | \$1,615,000    | \$615,000          | \$1,000,000      | \$0                 | \$0                 |                    |           |           |           |   |
| Henrico                 | 109190      | LABURNUM AVENUE SIDEWALK                                      | \$961,391      | \$515,309          | \$446,082        | \$0                 | \$0                 |                    |           |           |           |   |
| Ridefinders             | -203        | Regionwide Air Pollution Reduction Program - Ridefinders      | N/A            | \$0                | \$1,018,000      | \$0                 | N/A                 | \$509,000          | \$509,000 | \$509,000 | \$509,000 | Future commitments included for calculations -- subject to reporting, application, and TPO approval |
| Richmond                | -1811       | City of Richmond: Employee Trip Reduction Program             | N/A            | \$0                | \$23,553         | \$0                 | N/A                 |                    |           |           |           |   |
| Richmond                | 105890      | Richmond Signal System - Phase III                            | \$7,340,000    | \$6,312,350        | \$1,027,650      | \$0                 | \$0                 |                    |           |           |           |   |

ALTERNATIVE B - STAFF RECOMMENDATION

| CMAQ FUTURE COMMITMENTS |             |  |                |                    |                  |                            |                     | FUTURE COMMITMENTS |              |              |              |  |
|-------------------------|-------------|--|----------------|--------------------|------------------|----------------------------|---------------------|--------------------|--------------|--------------|--------------|--|
| Sponsor                 | Project UPC | Description  | Total Estimate | All Previous Funds | FY21 - FY26 CMAQ | Other Planned Funds        | Balance to Complete | FY27               | FY28         | FY29         | FY30         | NOTES  |
| Richmond                | New         | Richmond Signal System – Phase IV                        | \$5,488,000    | \$0                | \$5,488,000      | \$0                        | \$0                 |                    |              |              |              |  |
| Chesterfield            | 111712      | Route 1 (Marina Drive - Merriewood Road) Shared-Use Path | \$2,496,640    | \$400,000          | \$414,000        | \$1,682,640                | \$0                 |                    |              |              |              |  |
| Henrico                 | New         | Nuckols Road Pedestrian Improvements                     | \$2,160,000    | \$0                | \$1,156,000      | \$0                        | \$1,004,000         |                    | \$1,004,000  |              |              | CN in FY28   |
| Henrico                 | New         | Brook Road & Hilliard Road Trail                         | \$4,757,000    | \$0                | \$1,484,000      | \$0                        | \$3,273,000         |                    | \$3,273,000  |              |              | CN in FY28   |
| Chesterfield            | New         | Old Bermuda Hundred Road at Ramblewood Drive Roundabout  | \$5,146,000    | \$0                | \$1,431,000      | \$0                        | \$3,715,000         | \$3,715,000        |              |              |              | CN in FY27   |
| Henrico                 | New         | Rt 33-60-Beulah Roundabout                               | \$5,519,000    | \$0                | \$689,000        | \$0                        | \$4,830,000         |                    |              |              |              | Project has PE, RW, and CN phases. Applicant requested funding for PE only and will seek funding for balance from other sources -- subject to reallocation if unsuccessful |
| Chesterfield            | New         | Brad McNeer Parkway Access Management and Roundabout     | \$9,336,000    | \$0                | \$5,786,000      | \$0                        | \$3,550,000         | \$3,550,000        |              |              |              | CN in FY27   |
| Chesterfield            | New         | Route 1 (Holiday Lane - Willis Road) Shared-Use Path     | \$4,370,000    | \$0                | \$4,206,000      | \$0                        | \$164,000           | \$164,000          |              |              |              | CN balance in FY27   |
| Ashland                 | New         | Ashcake Road Pedestrian Improvements                     | \$629,000      | \$0                | \$629,000        | \$0                        | \$0                 |                    |              |              |              |  |
| N/A                     | 101492      | Richmond Region-wide Traffic/Operations Improvements     | N/A            | \$0                |                  |                            | N/A                 | \$451,640          | \$451,640    | \$451,640    | \$451,640    |  |
|                         | PE          |  |                |                    |                  | Expected Funding           |                     | \$ 9,032,794       | \$ 9,032,794 | \$ 9,032,794 | \$ 9,032,794 |  |
|                         | RW          |  |                |                    |                  | Commitments                |                     | \$ 8,389,640       | \$ 5,237,640 | \$ 960,640   | \$ 960,640   |  |
|                         | CN          |  |                |                    |                  | Available for New Projects |                     | \$ 643,154         | \$ 3,795,154 | \$ 8,072,154 | \$ 8,072,154 |  |

ALTERNATIVE B - STAFF RECOMMENDATION

| ALTERNATIVE B - FY21 - FY26 RSTP ALLOCATIONS |             |   |                |                      | ALLOCATIONS |             |             |             |             |             |                  |                     |                     |  |
|--|-------------|---|----------------|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------|---------------------|---------------------|--|
| Sponsor                                      | Project UPC | Description   | Total Estimate | Total Previous Funds | FY21        | FY22        | FY23        | FY24        | FY25        | FY26        | FY21 - FY26 RSTP | Other Planned Funds | Balance to Complete | NOTES  |
| Goochland                                    | 105733      | RTE 623 - IMPROVE INTERSECTION                              | \$5,476,000    | \$0                  |             | \$710,959   |             | \$330,000   | \$4,417,000 |             | \$5,457,959      | \$18,041            | \$0                 | Per local schedule; PE in FY22, RW in FY24, CN in FY25; \$18,041 in Tele funds in FY23   |
| Charles City                                 | 106296      | RTE 155 - CONSTRUCT TRAIL (PE Only)                         | \$400,000      | \$0                  |             | \$400,000   |             |             |             |             | \$400,000        | \$0                 | \$0                 | Move whole project estimate to FY22. Sponsor to develop plan for funding additional phases. <b>Transfer \$273,000 previous RSTP funds to UPC 115063.</b> |
| Henrico                                      | 109194      | #SMART20 - PARHAM RD TRAFFIC SIGNAL AND SIDEWALK PROJECT    | \$4,460,000    | \$430,000            |             |             | \$972,500   | \$1,387,500 | \$335,000   |             | \$2,695,000      | \$1,335,000         | \$0                 |  |
| Hanover                                      | 109260      | POLE GREEN RD WIDENING                                      | \$20,000,000   | \$5,764,452          |             | \$1,600,000 |             |             | \$5,038,000 | \$4,165,000 | \$10,803,000     | \$1,300,800         | \$2,131,748         | CN funding added in FY25 in case project goes to advertisement a few days early. FY22 funds added back as the phase has already started                  |
| Chesterfield                                 | 113846      | Early Settlers Rd Sidewalk: Robius Rd to Hospital/Park      | \$1,170,000    | \$0                  |             | \$270,000   | \$150,000   | \$750,000   |             |             | \$1,170,000      | \$0                 | \$0                 |  |
| Hanover                                      | 115195      | Atlee Station Rd Widening                                   | \$31,529,239   | \$0                  |             |             |             |             | \$2,500,000 | \$4,000,000 | \$6,500,000      | \$20,650,400        | \$4,378,839         | Locality schedule: PE - 8/3/2020; RW - 5/22/23; CN - 5/2/26; Balance in FY27   |
| Richmond                                     | 115200      | Hull Street Improvement Project Phase III                   | \$11,664,209   | \$0                  |             |             |             | \$727,127   | \$1,213,420 | \$4,000,000 | \$5,940,547      | \$0                 | \$5,723,662         | Balance to be provided in FY27/FY28 per the project schedule   |
| Henrico                                      | 115769      | Libbie Avenue Road Diet - Bethlehem Rd to W Broad St        | \$1,725,000    | \$0                  |             | \$185,000   | \$10,000    | \$1,530,000 |             |             | \$1,725,000      | \$0                 | \$0                 |  |
| Richmond                                     | 104888      | #SGR - RTE 360 - REHAB MAYO BRIDGE                          | \$12,400,000   | \$4,977,756          |             | \$1,500,000 | \$1,532,321 |             |             |             | \$3,032,321      | \$789,923           | \$3,600,000         | Balance to possibly be provided by a pending Revenue Sharing application request for \$3.6 million.  |
| Chesterfield                                 | 115063      | Route 60 (Ruthers Rd-Stonebridge Plaza Ave) Shared-Use Path | \$5,504,000    | \$954,000            | \$700,000   | \$399,500   |             |             |             |             | \$1,099,500      | \$3,450,500         | \$0                 | Receive a transfer of \$273,000 previous RSTP funds from UPC 106296.   |
| Hanover                                      | 13551       | #SMART18 - RTE 360 WIDENING                                 | \$23,894,526   | \$11,676,006         |             |             | \$3,996,747 | \$2,158,580 |             |             | \$6,155,327      | \$6,352,667         | (\$289,474)         | Smart Scale project; surplus cannot be removed.  |
| Henrico                                      | 50529       | RTE 9999 (THREE CHOPT ROAD) WIDEN TO 4 LANES                | \$22,653,669   | \$24,653,669         |             |             | \$962,000   |             |             |             | \$962,000        | \$0                 | (\$2,962,000)       | County to provide revised estimate. Anticipate estimate may be higher than current allocations   |
| Henrico                                      | 104148      | SADLER RD - RECONSTRUCTION                                  | \$27,106,587   | \$17,586,587         |             | \$3,125,000 | \$4,925,000 | \$1,470,000 |             |             | \$9,520,000      | \$0                 | \$0                 | RW and CN only. PE under 60934. County requested an additional \$920,000.  |

ALTERNATIVE B - STAFF RECOMMENDATION

| ALTERNATIVE B - FY21 - FY26 RSTP ALLOCATIONS |             |  |                |                      | ALLOCATIONS |             |             |             |      |      |                  |                     |                     |  |
|--|-------------|--|----------------|----------------------|-------------|-------------|-------------|-------------|------|------|------------------|---------------------|---------------------|--|
| Sponsor                                      | Project UPC | Description  | Total Estimate | Total Previous Funds | FY21        | FY22        | FY23        | FY24        | FY25 | FY26 | FY21 - FY26 RSTP | Other Planned Funds | Balance to Complete | NOTES  |
| Richmond                                     | 104281      | DEEPWATER TERMINAL RD - EXTEND EXISTING ROADWAY              | \$5,325,800    | \$3,928,898          | \$568,102   | \$428,800   | \$400,000   |             |      |      | \$1,396,902      | \$0                 | \$0                 |  |
| Chesterfield                                 | 104889      | RT 10 (Whitepine to Frith) WIDENING                          | \$15,181,279   | \$1,950,000          | \$7,478,213 | \$5,753,066 |             |             |      |      | \$13,231,279     | \$0                 | \$0                 |  |
| Chesterfield                                 | 104890      | RTE 360 E (Lonas Pkwy to Castle Rock Rd) - WIDENING          | \$7,818,000    | \$5,790,167          | \$1,025,000 | \$1,002,833 |             |             |      |      | \$2,027,833      | \$0                 | \$0                 |  |
| Chesterfield                                 | 107085      | RTE 641 - REPLACE SD BRIDGE FED ID 5280                      | \$6,019,000    | \$4,019,000          |             | \$1,000,000 | \$1,000,000 |             |      |      | \$2,000,000      | \$0                 | \$0                 |  |
| Henrico                                      | 109190      | LABURNUM AVENUE SIDEWALK                                     | \$961,391      | \$515,309            | \$127,418   |             |             |             |      |      | \$127,418        | \$318,664           | \$0                 |  |
| Ashland                                      | 112042      | ROUTE 1 IMPROVEMENTS: ASHCAKE RD TO ARBOR OAK DR             | \$9,696,729    | \$1,096,891          | \$1,937,000 | \$1,708,567 | \$2,588,000 | \$2,366,271 |      |      | \$8,599,838      | \$0                 | \$0                 |  |
| Port of Virginia                             | 113832      | Richmond Marine Terminal (RMT) Gate Impr. & New Drop-off Lot | \$2,550,000    | \$845,417            | \$852,300   | \$852,283   |             |             |      |      | \$1,704,583      | \$0                 | \$0                 |  |
| Henrico                                      | 113833      | Three Chopt Rd Sidewalk Impr. (Dinwiddie Ave to Bexhill Rd)  | \$2,165,000    | \$365,000            |             |             | \$1,800,000 |             |      |      | \$1,800,000      | \$0                 | \$0                 |  |
| Richmond                                     | 19036       | FOREST HILL AVENUE IMPROVEMENTS                              | \$14,189,886   | \$12,700,956         | \$1,488,930 |             |             |             |      |      | \$1,488,930      | \$0                 | \$0                 | Locality request for an additional \$1.48 million in FY21 to complete construction. Fully funds shortfall.   |
| Chesterfield                                 | 101020      | #HB2.FY17 RTE 10 (BERMUDA TRIANGLE RD TO MEADOWVILLE RD)     | \$64,637,849   | \$56,866,679         | \$2,791,123 |             |             |             |      |      | \$2,791,123      | \$4,980,047         | \$0                 |  |
| Ashland                                      | 103393      | ASHLAND TROLLEY LINE TRAIL                                   | \$1,710,156    | \$1,645,589          | \$64,567    |             |             |             |      |      | \$64,567         | \$0                 | \$0                 | Locality request for additional \$135,000 in FY21. Project estimate needs to be updated. Added \$70,443 in FY17/previous from balance entry UPC 101492 |
| RRTPO  | New         | RRTPO Scenario Planning Pilot                                | \$243,550      | \$0                  | \$243,550   |             |             |             |      |      | \$243,550        | \$0                 | \$0                 |  |
| Henrico                                      | New         | W Broad St Intersection Improvements at Dominion and Cox     | \$11,487,000   | \$0                  | \$1,138,000 |             |             | \$2,380,000 |      |      | \$3,518,000      | \$0                 | \$7,969,000         | CN to be provided in FY27/FY28 per schedule  |

ALTERNATIVE B - STAFF RECOMMENDATION

| ALTERNATIVE B - FY21 - FY26 RSTP ALLOCATIONS |             |   |                   |                      | ALLOCATIONS   |               |               |               |               |               |                  |                     |                     |  |
|--|-------------|---|-------------------|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------|---------------------|---------------------|--|
| Sponsor                                      | Project UPC | Description   | Total Estimate    | Total Previous Funds | FY21          | FY22          | FY23          | FY24          | FY25          | FY26          | FY21 - FY26 RSTP | Other Planned Funds | Balance to Complete | NOTES  |
| Chesterfield                                 | New         | US 360 Superstreets Study   | \$300,000         | \$0                  | \$300,000     |               |               |               |               |               | \$300,000        | \$0                 | \$0                 |  |
| Chesterfield                                 | New         | Route 60 Corridor Improvement Study                                       | \$125,000         | \$0                  |               | \$125,000     |               |               |               |               | \$125,000        | \$0                 | \$0                 |  |
| Henrico                                      | New         | W Broad St Pedestrian and Transit Improvements - Glenside Dr to Parham Rd | \$10,998,000      | \$0                  |               |               | \$1,098,000   |               | \$2,400,000   |               | \$3,498,000      | \$0                 | \$7,500,000         | CN to be provided in FY29/FY30 per schedule  |
| Chesterfield                                 | New         | Route 60 (Providence Road - Ruthers Road) Shared-Use Path                 | \$5,150,000       | \$0                  |               |               |               | \$773,000     | \$1,245,000   | \$3,132,000   | \$5,150,000      | \$0                 | \$0                 |  |
| Richmond                                     | New         | Hull Street Project Phase II Chippenham Pkwy to Hey Rd                    | \$11,942,000      | \$0                  |               |               |               | \$442,000     | \$1,584,000   | \$4,000,000   | \$6,026,000      | \$0                 | \$5,916,000         | CN balance in FY27   |
| Henrico                                      | New         | Springfield Road Intersection Improvements                                | \$8,337,000       | \$0                  |               |               |               | \$1,280,000   |               | \$1,266,000   | \$2,546,000      | \$0                 | \$5,791,000         | CN to be provided in FY29 per schedule   |
| Henrico                                      | New         | Magellan Parkway Extension Project (PE only)                              | \$31,987,000      | \$0                  |               |               |               | \$3,460,000   |               |               | \$3,460,000      | \$0                 | \$28,527,000        | Project has PE, RW, and CN. Applicant has only requested funding for PE to leverage -- subject to reallocation if unsuccessful in obtaining additional funding |
| Goochland                                    | New         | IJR - Route 288 (West Creek Area)   | \$499,900         | \$0                  |               |               |               | \$499,900     |               |               | \$499,900        | \$0                 | \$0                 |  |
| Chesterfield                                 | New         | Centralia Road at Old Wrexham Roundabout                                  | \$5,139,000       | \$0                  |               |               |               |               | \$566,000     |               | \$566,000        | \$0                 | \$4,573,000         | RW in FY27, CN in FY28   |
| Ashland                                      | New         | Vaughan Road Overpass (PE Only)   | \$12,419,000      | \$0                  |               |               |               | \$250,000     | \$882,000     |               | \$1,132,000      | \$0                 | \$11,287,000        | Project has PE, RW, and CN. Applicant has only requested funding for PE to leverage -- subject to reallocation if unsuccessful in obtaining additional funding |
| N/A  | 101492      | Richmond Region-Wide Traffic/ Operations Improvements                     | N/A               | \$0                  | \$985,223     | \$1,014,693   | \$1,023,806   | \$1,043,173   | \$1,062,925   | \$1,082,868   |                  | N/A                 | N/A                 |  |
|  | PE          |   | Available Funding |                      | \$ 19,699,426 | \$ 20,075,701 | \$ 20,458,374 | \$ 20,847,551 | \$ 21,243,345 | \$ 21,645,868 |                  |                     |                     |  |
|  | RW          |   | Allocations       |                      | \$ 19,699,426 | \$ 20,075,701 | \$ 20,458,374 | \$ 20,847,551 | \$ 21,243,345 | \$ 21,645,868 |                  |                     |                     |  |
|  | CN          |   | Difference        |                      | \$ -          | \$ -          | \$ -          | \$ -          | \$ -          | \$ -          |                  |                     |                     |  |



ALTERNATIVE B - STAFF RECOMMENDATION

| ALTERNATIVE B - RSTP FUTURE COMMITMENTS |             |  |                |                    |                  |                     |                     | COMMITMENTS |             |      |      |   |
|---|-------------|--|----------------|--------------------|------------------|---------------------|---------------------|-------------|-------------|------|------|---|
| Sponsor                                 | Project UPC | Description  | Total Estimate | All Previous Funds | FY21 - FY26 RSTP | Other Planned Funds | Balance to Complete | FY27        | FY28        | FY29 | FY30 | NOTES   |
| Goochland                               | 105733      | RTE 623 - IMPROVE INTERSECTION                               | \$5,476,000    | \$0                | \$5,457,959      | \$18,041            | \$0                 |             |             |      |      |   |
| Charles City                            | 106296      | RTE 155 - CONSTRUCT TRAIL (PE Only)                          | \$400,000      | \$0                | \$400,000        | \$0                 | \$0                 |             |             |      |      |   |
| Henrico                                 | 109194      | #SMART20 - PARHAM RD TRAFFIC SIGNAL AND SIDEWALK PROJECT     | \$4,460,000    | \$430,000          | \$2,695,000      | \$1,335,000         | \$0                 |             |             |      |      |   |
| Hanover                                 | 109260      | POLE GREEN RD WIDENING                                       | \$20,000,000   | \$5,764,452        | \$10,803,000     | \$1,300,800         | \$2,131,748         | \$2,131,748 |             |      |      | CN balance to be provided in FY27 per project schedule  |
| Chesterfield                            | 113846      | Early Settlers Rd Sidewalk: Robius Rd to Hospital/Park       | \$1,170,000    | \$0                | \$1,170,000      | \$0                 | \$0                 |             |             |      |      |   |
| Hanover                                 | 115195      | Atlee Station Rd Widening                                    | \$31,529,239   | \$0                | \$6,500,000      | \$20,650,400        | \$4,378,839         | \$4,378,839 |             |      |      | Sponsor requested schedule: PE - 8/3/2020; RW - 5/22/23; CN - 5/2/26                                |
| Richmond                                | 115200      | Hull Street Improvement Project Phase III                    | \$11,664,209   | \$0                | \$5,940,547      | \$0                 | \$5,723,662         | \$4,000,000 | \$1,723,662 |      |      | Balance to be provided in FY27/FY28 per the project schedule  |
| Henrico                                 | 115769      | Libbie Avenue Road Diet - Bethlehem Rd to W Broad St         | \$1,725,000    | \$0                | \$1,725,000      | \$0                 | \$0                 |             |             |      |      |   |
| Richmond                                | 104888      | #SGR - RTE 360 - REHAB MAYO BRIDGE                           | \$12,400,000   | \$4,977,756        | \$3,032,321      | \$789,923           | \$3,600,000         |             |             |      |      | Balance to possibly be provided by a pending Revenue Sharing application request for \$3.6 million. |
| Chesterfield                            | 115063      | Route 60 (Ruthers Rd-Stonebridge Plaza Ave) Shared-Use Path  | \$5,504,000    | \$954,000          | \$1,099,499      | \$3,450,501         | \$0                 |             |             |      |      |   |
| Hanover                                 | 13551       | #SMART18 - RTE 360 WIDENING                                  | \$23,894,526   | \$11,676,006       | \$6,155,327      | \$6,352,667         | (\$289,474)         |             |             |      |      |   |
| Henrico                                 | 50529       | RTE 9999 (THREE CHOPT ROAD) WIDEN TO 4 LANES                 | \$22,653,669   | \$24,653,669       | \$962,000        | \$0                 | (\$2,962,000)       |             |             |      |      |   |
| Henrico                                 | 104148      | SADLER RD - RECONSTRUCTION                                   | \$27,106,587   | \$17,586,587       | \$9,520,000      | \$0                 | \$0                 |             |             |      |      |   |
| Richmond                                | 104281      | DEEPWATER TERMINAL RD - EXTEND EXISTING ROADWAY              | \$5,325,800    | \$3,928,898        | \$1,396,902      | \$0                 | \$0                 |             |             |      |      |   |
| Chesterfield                            | 104889      | RT 10 (Whitepine to Frith) WIDENING                          | \$15,181,279   | \$1,950,000        | \$13,231,279     | \$0                 | \$0                 |             |             |      |      |   |
| Chesterfield                            | 104890      | RTE 360 E (Lonas Pkwy to Castle Rock Rd) - WIDENING          | \$7,818,000    | \$5,790,167        | \$2,027,833      | \$0                 | \$0                 |             |             |      |      |   |
| Chesterfield                            | 107085      | RTE 641 - REPLACE SD BRIDGE FED ID 5280                      | \$6,019,000    | \$4,019,000        | \$2,000,000      | \$0                 | \$0                 |             |             |      |      |   |
| Henrico                                 | 109190      | LABURNUM AVENUE SIDEWALK                                     | \$961,391      | \$515,309          | \$127,418        | \$318,664           | \$0                 |             |             |      |      |   |
| Ashland                                 | 112042      | ROUTE 1 IMPROVEMENTS: ASHCAKE RD TO ARBOR OAK DR             | \$9,696,729    | \$1,096,891        | \$8,599,838      | \$0                 | \$0                 |             |             |      |      |   |
| Port of Virginia                        | 113832      | Richmond Marine Terminal (RMT) Gate Impr. & New Drop-off Lot | \$2,550,000    | \$845,417          | \$1,704,583      | \$0                 | \$0                 |             |             |      |      |   |

ALTERNATIVE B - STAFF RECOMMENDATION

| ALTERNATIVE B - RSTP FUTURE COMMITMENTS |             |   |                |                    |                  |                            |                     | COMMITMENTS   |               |               |               |  |
|---|-------------|---|----------------|--------------------|------------------|----------------------------|---------------------|---------------|---------------|---------------|---------------|--|
| Sponsor                                 | Project UPC | Description   | Total Estimate | All Previous Funds | FY21 - FY26 RSTP | Other Planned Funds        | Balance to Complete | FY27          | FY28          | FY29          | FY30          | NOTES  |
| Henrico                                 | 113833      | Three Chopt Rd Sidewalk Impr.<br>(Dinwiddie Ave to Bexhill Rd)                  | \$2,165,000    | \$365,000          | \$1,800,000      | \$0                        | \$0                 |               |               |               |               |  |
| Richmond                                | 19036       | FOREST HILL AVENUE IMPROVEMENTS   | \$14,189,886   | \$12,700,956       | \$1,488,930      | \$0                        | \$0                 |               |               |               |               |  |
| Chesterfield                            | 101020      | #HB2.FY17 RTE 10 (BERMUDA TRIANGLE<br>RD TO MEADOWVILLE RD)                     | \$64,637,849   | \$56,866,679       | \$2,791,123      | \$4,980,047                | \$0                 |               |               |               |               |  |
| Ashland                                 | 103393      | ASHLAND TROLLEY LINE TRAIL  | \$1,710,156    | \$1,575,156        | \$135,000        | \$0                        | \$0                 |               |               |               |               |  |
| RRTPO                                   | New         | RRTPO Scenario Planning Pilot   | \$243,550      | \$70,443           | \$173,107        | \$0                        | \$0                 |               |               |               |               |  |
| Henrico                                 | New         | W Broad St Intersection Improvements<br>at Dominion and Cox                     | \$11,477,000   | \$0                | \$3,508,000      | \$0                        | \$7,969,000         | \$4,000,000   | \$3,969,000   |               |               | CN to be provided in FY27/FY28 per schedule  |
| Chesterfield                            | New         | US 360 Superstreets Study   | \$300,000      | \$0                | \$300,000        | \$0                        | \$0                 |               |               |               |               |  |
| Chesterfield                            | New         | Route 60 Corridor Improvement Study   | \$125,000      | \$0                | \$125,000        | \$0                        | \$0                 |               |               |               |               |  |
| Henrico                                 | New         | W Broad St Pedestrian and Transit<br>Improvements - Glenside Dr to Parham<br>Rd | \$11,245,000   | \$0                | \$3,558,000      | \$0                        | \$7,687,000         |               | \$4,000,000   | \$3,500,000   |               | CN to be provided in FY28/FY29 per schedule  |
| Chesterfield                            | New         | Route 60 (Providence Road - Ruthers<br>Road) Shared-Use Path                    | \$5,024,000    | \$0                | \$5,024,000      | \$0                        | \$0                 |               |               |               |               |  |
| Richmond                                | New         | Hull Street Project Phase II Chippenham<br>Pkwy to Hey Rd                       | \$11,651,000   | \$0                | \$5,940,567      | \$0                        | \$5,710,433         | \$4,000,000   | \$1,710,433   |               |               |  |
| Henrico                                 | New         | Springfield Road Intersection<br>Improvements                                   | \$8,337,000    | \$0                | \$2,546,000      | \$0                        | \$5,791,000         |               |               | \$4,000,000   | \$1,791,000   | CN to be provided in FY29/FY30 per schedule  |
| Henrico                                 | New         | Magellan Parkway Extension Project (PE<br>only)                                 | \$31,987,000   | \$0                | \$3,460,000      | \$0                        | \$28,527,000        |               |               |               |               | Project has PE, RW, and CN. Applicant has only requested<br>funding for PE to leverage for Smart Scale -- subject to<br>reallocation if unsuccessful in obtaining additional funding |
| Goochland                               | New         | IJR - Route 288 (West Creek Area)   | \$499,900      | \$0                | \$499,900        | \$0                        | \$0                 |               |               |               |               |  |
| Chesterfield                            | New         | Centralia Road at Old Wrexham<br>Roundabout                                     |                | \$0                |                  | \$0                        | \$0                 | \$1,070,000   | \$3,503,000   |               |               | RW in 27; CN in 28 per schedule  |
| Ashland                                 | New         | Vaughn Road Overpass (PE Only)  | \$12,991,000   | \$0                | \$1,132,000      | \$0                        | \$11,859,000        |               |               |               |               | Project has PE, RW, and CN. Applicant has only requested<br>funding for PE to leverage for Smart Scale -- subject to<br>reallocation if unsuccessful in obtaining additional funding |
| N/A                                     | 101492      | Richmond Region-Wide<br>Traffic/Operations Improvements                         | N/A            | \$0                |                  |                            | N/A                 | \$1,082,294   | \$1,082,294   | \$1,082,294   | \$1,082,294   |  |
|   | PE          |   |                |                    |                  | Expected Funding           |                     | \$ 21,645,868 | \$ 21,645,868 | \$ 21,645,868 | \$ 21,645,868 |  |
|   | RW          |   |                |                    |                  | Commitments                |                     | \$ 20,662,881 | \$ 15,988,389 | \$ 8,582,294  | \$ 2,873,294  |  |
|   | CN          |   |                |                    |                  | Available for New Projects |                     | \$ 982,987    | \$ 5,657,479  | \$ 13,063,574 | \$ 18,772,574 |  |

## **TAC AGENDA 8/11/20; ITEM 8.**

### **GREATER RVA TRANSIT VISION PLAN: NEAR-TERM STRATEGIC TECHNICAL ANALYSIS**

#### **Richmond Regional Transportation Planning Organization**

**REQUESTED ACTION:** Review and recommendation to the RRTPO Policy Board of the proposed near-term Regional Transit Vision Plan.

**BACKGROUND:** This study kicked off in May 2019. The purpose of the study is to analyze and recommend which of the high-frequency routes identified in the *Greater RVA Transit Vision Plan* (April 2017) can be implemented in the near-term with the greatest predictability of success. Of the 20 corridors slated by the original study for 20-minute or less service frequency, 12 corridors were selected through the first phase of screening. The initial screening analysis considered activity density, employment and working populations, environmental justice and transit dependent populations, existing GRTC network layout, potential near-term transit supportive development and steering committee feedback.

Findings from the second phase of analysis were reviewed and discussed with the TVP Steering Committee on December 10, 2019 and with the TAC at their meeting on January 14, 2020. The following factors were evaluated as part of this screening:

- Access to community facilities
- Walkability
- Pedestrian networks
- Roadway suitability
- Ridership potential

Based on this review, the following five corridors were recommended to move forward with more detailed capital and operating cost estimate development given alternative levels of service, analysis of return on investment and review of potential funding resources:

- Broad Street-Short Pump (Willow Lawn to Bon Secours Short Pump)
- Midlothian Turnpike (Downtown Richmond to Huguenot Road)
- West End South (Downtown Richmond to Regency Square)
- Airport via Route 60 (Downtown Richmond to RIC Airport)
- Route 1 to Ashland (Downtown Richmond to Parham Road)

The TVP Steering Committee reviewed the detailed analysis at their meeting on April 3, 2020. TAC was invited to review and comment on the summary sheets for the 12 corridors included in the initial screening which can be accessed through this link: [Greater RVA Transit Vision Plan](#). (April 14 meeting cancelled due to COVID-19 regulations.) The proposed service plan options and detailed cost analysis of the five selected corridors were made available at [Draft RVA TVP Implementation Feasibility Evaluation](#) [full [presentation](#) posted on the PlanRVA website as part of the Transit

Vision Plan snapshot]. The purpose of the presentation today is to provide an executive level summary through a Story Map of the full scope of the project.

**TAC ACTION REQUESTED:** The following resolution is presented for TAC review and recommendation to the RRTPO Policy Board:

**RESOLVED**, that the Richmond Regional Transportation Planning Organization Policy Board adopts the proposed plan for the Regional Transit Vision Plan Near-Term Strategic Technical Analysis of five corridor segments considered for enhanced transit in the near-term (five to seven years) planning horizon.

## **TAC AGENDA 8/11/20; ITEM 11.**

### **TAC Future Meeting Topics\***

#### **Future Meeting Topics**

- 2020 Richmond Regional Structural Inventory and Assessment Report
- SMART SCALE Update
- Complete Streets Toolbox
- VTrans Statewide Transportation Plan Update
- RRTPO Project Prioritization Process
- CVTA Coordination
- ConnectRVA 2045 Updates
- Bike-Ped Plan Updates

\*Draft: This is not a comprehensive list of considerations and is subject to change.