

AGENDA

RICHMOND REGIONAL TRANSPORTATION PLANNING ORGANIZATION TECHNICAL ADVISORY COMMITTEE

Tuesday, March 10, 2020

9:00 a.m.

Richmond Regional Planning District Commission Board Room

CERTIFICATION OF QUORUM

	Page(s)
1. Approval of Meeting Agenda <i>(Smith).....</i> <i>Action Requested</i>	–
2. Approval of February 11, 2020 TAC Meeting Minutes <i>(Smith).....</i> <i>Action Requested</i>	1–8
3. Open Public Comment Period <i>(Smith/5 minutes).....</i>	–
4. TAC Chairman’s Report <i>(Smith).....</i>	–
5. RRTPO Update <i>(Parsons/20 minutes).....</i>	9-10
a. Current Work Efforts	
b. SMART SCALE Round 4: Regional Project Pre-Applications	
c. ConnectRVA 2045 Outreach Update	
d. Transportation Alternatives Set-Aside Project Selections Update.....	11
e. Legislative Update	
6. Vision Zero Work Group <i>(Parsons/15 minutes).....</i> <i>Action Requested</i>	12
7. TIP Amendment GRTC00000 Expansion – Articulated Vehicles <i>(Busching/5 minutes).....</i> <i>Action Requested</i>	13-15

8. FY21 – FY26 RSTP/CMAQ New Project Prioritization <i>(Busching/15 minutes)</i> <i>Action Requested</i>	16–23
9. TAC Open Comment <i>(TAC members)</i>	–
10. Future Meeting Topics <i>(Smith)</i>	24
11. Next TAC Meeting: April 14 <i>(Smith)</i>	–
12. Adjournment: Scheduled for 10:10 a.m. <i>(Smith)</i>	–

CAP/nm
Attachments

pc:	John H. Hodges, RRTPO policy board Chair	Ron Svejksky, Tri-Cities MPO
	Herbert A. Richwine, CTAC Chair	Martha Heeter, PlanRVA
	Richard Duran, FHWA	TAC Interested Parties
	Daniel Koenig, FTA Liaison	Area News Media
	Jennifer DeBruhl, DRPT	

RICHMOND REGIONAL TRANSPORTATION PLANNING ORGANIZATION (RRTPO)

TECHNICAL ADVISORY COMMITTEE (TAC)

MINUTES OF MEETING

February 11, 2020

MEMBERS PRESENT

Barbara K. Smith, Chairman.....Chesterfield County
Nora D. Amos, Vice Chairman.....Town of Ashland
Sulabh Aryal (Alternate).....RRPDC
Dironna Moore Clarke.....City of Richmond
Thomas Coleman.....Goochland County
Tiffany Dubinsky.....DRPT
Kelli Le Duc.....New Kent County
Liz McAdory.....VDOT
John O'Keeffe (Alternate).....RideFinders
Sharon Smidler.....Henrico County
Adrienne Torres.....GRTC Transit System
Joseph E. Vidunas.....Hanover County

ALTERNATE MEMBERS PRESENT – NOT VOTING

Emily DelRoss (Alternate).....GRTC Transit System
Jake Herrman (Alternate).....VDOT
Travis Bridewell (Alternate).....City of Richmond

CERTIFICATION OF QUORUM

Barbara K. Smith, TAC Chairman, called the February 11, 2020 Richmond Regional Transportation Planning Organization (RRTPO) Technical Advisory Committee (TAC) meeting to order at 9:00 a.m. In the absence of the RRTPO Secretary Chet Parsons, Sulabh Aryal, Planning Manager, certified that a quorum was present.

INTRODUCTIONS

Chairman Smith introduced Sharon Smidler as the new Henrico County representative's member on TAC. Emily DelRoss is GRTC Transit System's alternate member. Both were present at the meeting.

1. Approval of Meeting Agenda

There were no requests to amend the TAC meeting agenda and on motion of Joseph E. Vidunas, seconded by Liz McAdory, TAC unanimously approved the February 11, 2020 TAC meeting agenda.

2. Approval of January 14, 2020 TAC Meeting Minutes

On motion of John O'Keeffe, seconded by Tom Coleman, TAC unanimously approved the January 14, 2020 TAC minutes.

3. Open Public Comment Period

There were no requests to address TAC.

4. TAC Chairman's Report

Chairman Smith had nothing to report.

5. RRTPO Update

In the absence of the RRTPO Secretary Chet Parsons, Sulabh Aryal, Planning Manager, reported as follows:

- a. Current Work Efforts – These are included under agenda item 5.a. -
 - ConnectRVA 2045 - Long-Range Transportation Plan – The last LRTP AC meeting was held on January 23, 2020. Staff is working on converting the transportation issues into needs. Staff is also currently working on scheduling a series of public outreach meetings. The next LRTP AC meeting is on February 27, 2020.
 - Greater RVA Transit Vision Plan: Near-Term Strategic Technical Analysis – Five corridors have been identified for further analysis of capital and operating costs to lay the groundwork for determining a return on investment. A technical memo outlining the first stage of analysis is going out to the steering committee.
 - Ashland to Petersburg Trail Study - The study is complete. The recommendations and the cost estimates were sent to TAC members as a link and can be found on VDOT's project page.
 - Regional Bicycle and Pedestrian Plan Update – The first steering committee meeting was held on January 14.
 - Active Transportation Work Group (ATWG) – A meeting takes place on February 11, 2020 following the TAC meeting.
- b. RRTPO CTAC Meeting Report – The report can be found on page 7 and 8 of the agenda. There were no comments.
- c. Vision Zero Work Group – The work task for establishment of a RRTPO Vision Zero Work Group was added to the Unified Planning Work Program (UPWP) as authorized by the RRTPO policy board. Barbara Smith recommended that Stephen Reed from VDOT Central Office presents and talks about the Virginia Strategic Highway Safety Plan at the next TAC meeting. Learning from the conversations with state and regional representatives from VDOT, DMV's Highway Safety Office, the State Police and local law enforcement as well as other groups and agencies might help TAC to develop a regional effort before establishing a schedule for the work group.
- d. HB 1541 passed House. Tiffany Dubinsky mentioned that today is "crossover day": bills passed by the House are now considered by the Senate.

6. Smart Scale Round 4: Regional Project Pre-Applications

Sulabh Aryal provided information on the Smart Scale project pool (see Table 1. on page 7-8). The SMART SCALE application process will open on March 1, 2020. RRTPO staff worked with VDOT Richmond District to develop a recommended candidate pool of projects for consideration by TAC. Mr. Aryal asked TAC for recommendations to narrow the project pool from 12 projects to 10 projects. Members had questions and comments on several of the projects:

- #2 It was clarified that included in the Richmond's Streetscape Improvements project are sidewalks, ADA accessible ramps and other amenities like benches, trees, street lamps etc.
- #4 The Goochland project extends into Powhatan. Based on the competition, this project didn't score well last time. The suggestion was made to produce different ways to improve the score.
- #5 I-95 SB Auxiliary lanes: The Port of Virginia is an important economic driver for the Commonwealth of Virginia. Commerce through the port brings large returns on investment. Construction in this area is expected to be expensive.

Regional significance of projects #13 and #14 were examined. The Chair mentioned TAC might not be ready to commit to 10 projects today. TAC agrees to finalize 12 projects today and will commit to finalizing 10 projects during the March TAC meeting. If any one of the projects falls off, the next project on the list will be included.

The resolution was presented for TAC review and recommendation to the RRTPO policy board for approval.

On motion of Tom Coleman, seconded by Kelli Le Duc, the Richmond Regional Transportation Planning Organization (RRTPO) Technical Advisory Committee (TAC) voted unanimous approval of the following resolution:

RESOLVED, that the Richmond Regional Transportation Planning Organization (TPO) approves the candidate regional projects for Smart Scale Round 4 applications as amended.

7. Transportation Alternatives Set-Aside Project Recommendations

Myles Busching presented on Transportation Alternatives (TA) set-aside funds for a variety of smaller-scale, non-traditional transportation projects with a focus on bike/ped infrastructure. Administered by VDOT, these projects focus on non-motorized transportation opportunities and enhancements to the transportation experience. The revised staff recommendation shows the project selections and the project allocations.

The resolution was presented for TAC review and recommendation to the RRTPO policy board.

On motion of Dironna Clarke, seconded by Liz McAdory, the Richmond Regional Transportation Planning Organization (RRTPO) Technical Advisory Committee (TAC) voted unanimous approval of the following resolution:

RESOLVED, that the Richmond Regional Transportation Planning Organization policy board approves the allocation of FY21 – FY22 Transportation Alternatives Set-Aside funding as presented.

****A copy of the presentation given by Myles Busching is available at <https://planrva.org/transportation/board-tpo/technical-advisory-committee-meetings/>**

8. FY21 – 26 RSTP/CMAQ Existing Project Recommendations

Myles Busching presented on the RSTBG program and the CMAQ program. STBG is a flexible source of funding for transportation improvements which is generally limited to the federal-aid system. The region receives approximately \$20M each year to allocate; the exact number for FY21 is not yet known. Two existing projects requested additional funding. Staff recommends funding the Hanover – Atlee Station widening and the Henrico – Sadler Road reconstruction project requests before programming new projects. The CMAQ program is funding dedicated to improving air quality. The region receives approximately \$8M each year; the exact number for FY21 is not yet known. Three existing projects requested funding: RideFinders (\$500,000 + inflation), Richmond for the Employee Trip Reduction Program (\$110,000), and the Richmond signal system (\$1,027,650). These projects

were the top three ranked projects. Staff recommends funding these requests before programming new projects. There were no questions or comments. No formal action was requested.

**A copy of the presentation given by Myles Busching is available at <https://planrva.org/transportation/board-tpo/technical-advisory-committee-meetings/>

9. **Air Quality Conformity Analysis**

Myles Busching gave an overview of the draft conformity report. The interagency consultation took place just before the TAC meeting to approve the project list. The draft conformity report includes projects from the entire Richmond urbanized area and Tri-Cities. The projects come from the constrained long-range plans and draft TIP's which is going to public comment next week. The conformity analysis also undergoes public review. The goal is to coordinate the review with the TIP review.

The resolution was presented for TAC approval.

On motion of Liz McAdory, seconded by Joseph E. Vidunas, the Richmond Regional Transportation Planning Organization (RRTPO) Technical Advisory Committee (TAC) voted unanimous approval of the following resolution:

RESOLVED, that the Richmond Regional Transportation Planning Organization opens a 30-day comment period for public review and input on the draft conformity analysis report to run between February 17, 2020 and March 18, 2020.

**A copy of the presentation given by Myles Busching is available at <https://planrva.org/transportation/board-tpo/technical-advisory-committee-meetings/>

10. **FTA Section 5310 Program Grant Applications Endorsement**

Ken Lantz provided an overview of the FTA Section 5310 Program which helps in meeting the special needs of seniors and people with disabilities in order to improve mobility by removing barriers to transportation service and expanding transportation mobility options. Nine applications requesting a total of \$1,505,000 have been submitted. \$1,040,000 is anticipated to be available from FY20 carryover and FY21 Section 5310 funds.

The resolution was presented for TAC review and recommendations for RRTPO policy board approval.

On motion of Tom Coleman, seconded by Nora Amos, the Richmond Regional Transportation Planning Organization (RRTPO) Technical Advisory Committee (TAC) voted unanimous approval of the following resolution:

RESOLVED, that the Richmond Regional Transportation Planning Organization Policy Board endorses the following applications for Federal Transit Administration (FTA) Section 5310 funds and found by the Department of Rail and Public Transportation (DRPT) to be eligible for FTA Section 5310 Program funds:

- Capital Area Partnership Uplifting People: purchase one 19-passenger van with wheelchair lift, \$70,000

- Chesterfield County Department of Mental Health Support Services: purchase two 15-passenger body on chassis vans with wheelchair lifts, \$130,000;
- Chesterfield County Human Services: operating assistance to fund a part-time Mobility Coordinator position and acquire planning software, \$230,000;
- Goochland CARES: purchase one 14-passenger van with lift, \$50,000
- GRTC: support of Travel Trainer Instructor, \$150,000
- Hanover County: provide specialized transportation for non-driver older adults and individuals with disabilities, \$168,400;
- Senior Connections, The Capital Area Agency on Aging: mobility management and transportation services for older adults and persons with disabilities, \$428,800.
- SOAR365: purchase four 15-passenger vans with ramps, \$180,000
- St Joseph's Villa: purchase two 14-passenger vehicles with lifts, \$100,000

11. Draft Public Engagement Plan

Myles Busching presented on the Public Participation Plan and highlighted the on-going nature of public involvement. The plan was scheduled to be updated this year ahead of the LRTP. The new approach is looking at best practices from across the country. It provides a toolkit of about 30 tools that can be used for engagement. The plan consists of three broad goals and recommended strategies and establishes metrics and reporting requirement to track progress. The public review period ran from December 9, 2019 – January 24, 2020; generally, comments were positive with recommendations to improve specific strategies. Mr. Busching went over the draft revisions. TAC recommended to review the draft Public Engagement Plan and make some changes to the text.

The resolution was presented for TAC review and recommendation to the RRTPO policy board for approval.

On motion of Sharon Smidler, seconded by Liz McAdory, the Richmond Regional Transportation Planning Organization (RRTPO) Technical Advisory Committee (TAC) voted unanimous approval of the following resolution:

RESOLVED, that the Richmond Regional Transportation Planning Organization (TPO) adopts the Public Engagement Plan (PEP) as amended.

****A copy of the presentation given by Myles Busching is available at <https://planrva.org/transportation/board-tpo/technical-advisory-committee-meetings/>**

12. TAC Open Comment

- Nora Amos reported for Town of Ashland as follows:
Leadership Metro Richmond LMR are holding information sessions on several nights free to attend.
- Tiffany Dubinsky reported for DRPT as follows:
On January 31, 2020, the federal FY20 targets were submitted for the Transit Asset Management (TAM) Plan to the National Transit Database (NTD). This is part of the state sponsored Tier II TAM plan. MPO's should be aware of these updates to their targets for FY20. The fiscal year grant cycle was closed on February 3, 2020. Staff will be evaluating applications over the next couple of months.

- Liz McAdory reported for VDOT as follows:
 - More SMART SCALE changes were presented during the last CTB meeting; there is no anticipated action for the proposed SMART SCALE changes until the February CTB board meetings. The application portal for SMART SCALE opens March 1, 2020 and closes April 3, 2020. The final application portal will be available from June until August 2020.
 - 2019 VTrans goals and objectives were approved.
 - On January 30, 2020, CTB approved the interim plans for the I-95 Corridor Improvement Study for operational improvements only. Capital improvements will go to the CTB in the fall 2020.
 - Ashland to Petersburg Trail Study is complete and available on the ATP trail study website as well as VDOT's website.
 - Public hearing for the rehabilitation of the I-64 on-ramp bridge over I-95 from Laburnum Avenue in the City of Richmond is on February 18, 2020.
 - The next CTB board meetings are on Feb 19th at 10:00 a.m. and on February 20th at 8:30 a.m.

13. Future Meeting Topics

Chairman Smith briefly reviewed future meeting topics.

14. Next TAC Meeting: March 10

Chairman Smith noted the next TAC meeting is scheduled for Tuesday, March 10 at 9:00 a.m.

15. Adjournment: Scheduled for 9:55 a.m.

Chairman Smith adjourned the meeting at approximately 10:00 a.m.

CAP/nm

Project #	Jurisdiction(s)	Project Title	Description	Cost Estimate Provided?	Cost Estimate	Plans / Sketch Provided?	Pre-App Submission	Notes
1	Richmond	Ashland to Petersburg Trail	US Route 1 from Walmsley Boulevard to Bellemeade Road (approximately 2 miles)	✓	\$11,717,240	✓	✓	From MM 18.65 to MM 20.73; Segment 4A
2	Richmond	Malvern Avenue BRT Station and Streetscape Improvements (Broad Street Phase I)	This project will construct new EB and WB BRT stations in the vicinity of Malvern Avenue (2 curbside platforms) to address the gap between existing Pulse stations and to serve the redeveloping Westwood neighborhood ("Scott's Addition 2.0") to the north of Broad Street. This project will also address pedestrian access and safety to the new BRT Stations by constructing sidewalk, ADA accessible ramps, and other pedestrian and streetscape amenities along Broad St. within the walkshed of the new BRT station (Shenandoah St to Hamilton St).	✓	\$9M - \$17M	✓	✓	
3	Hanover/Henrico	Ashland to Petersburg Trail - Chickahominy River Crossing	The proposed termini of this trail segment is Holly Hill Road on the Hanover side of the river and Woodman Road extended on the Henrico side of the river. This will provide approximately 3,200 linear feet of trail that will tie into the planned Woodman Road Extended Multi-Use Trail to the south and a low-volume secondary road in Hanover that provides access Cedar Lane as logical termini should this section of trail be funded and constructed prior to the adjacent segments either to the north or south. The Woodman Road Extended Trail will be constructed within 1 year of the completion of Woodman Road Extended (Phase V), which HHHunt is constructing as a condition of the River Mill Development. They plan to begin construction of this roadway within the next several months.				✓	From MM 39.12 to MM 38.48; part of Segment 7C
4	Goochland	Continuous Hard Shoulder Running Lane on SB Route 288 between West Creek Parkway and Route 711	Reconstruct existing shoulder on segment of southbound Route 288 between the on-ramp of West Creek Parkway and the off-ramp of route 711 to provide an 11-foot hard running shoulder lane to be employed during PM peak travel hours. Also, included would be installation of gantries with signage detailing usage and ITS improvements within the Route 288 corridor. Project would also include construction of emergency pull-offs to provide a refuge area for disabled vehicles while the hard shoulder running lane is in operation.	✓	\$23.821M	✓	✓	
5	Richmond	Richmond Marine Terminal: I-95 SB auxiliary lanes between Bells Road and Chippenham Parkway	Construct an auxiliary lane between the Bells Road and Chippenham Parkway interchanges on I-95 SB (approximately 3,800 lf) including a bridge widening. This solution has already been implemented on I-95 NB between these interchanges and will address congestion and safety issues along this stretch.	✓	\$20.4 - \$30.6	✓	✓	
6	Chesterfield	Powwhite Parkway NB at Chippenham Parkway Capacity and Safety Improvements	Construct a choice lane on Powwhite Parkway NB at the on-ramp from Chippenham SB and extend the third express lane to the Chippenham Interchange	✓	\$15M	✓	✓	
7	Chesterfield	Powwhite Parkway SB at Chippenham Parkway Capacity and Safety Improvements	Construct a choice lane on Powwhite Parkway SB at the off-ramp to Chippenham SB	✓	\$21M	✓	✓	

Project #	Jurisdiction(s)	Project Title	Description	Cost Estimate Provided?	Cost Estimate	Plans / Sketch Provided?	Pre-App Submission	Notes
8	Chesterfield	Route 360/Courthouse Road Intersection Improvement	Construct superstreet intersection on Route 360 for the Courthouse Road intersection (u-turns at Rockwood Square Shopping Center and Oxbridge Road)	✓	\$4.5M	✓	✓	
9	Chesterfield	Ashland-to-Petersburg Trail: Chester Linear Park Trail Extension and Chester Road	Construct trail from existing northern termini of the Chester Linear Park Trail to Chester Road and shared-use path along the east side of Chester Road, from the trail extension, north to Centralia Road	✓	\$5.3M	✓	✓	MM 11.68 to MM 10.16; parts of Segments 2C and 2D
10	Chesterfield	I-95/Route 10 Interchange Improvement, Phase II	Remove the weaving sections on I-95 and RT 10 by removing the NB I-95 to WB RT 10 and SB I-95 to EB RT 10 loop-ramps. Signalize the SB and NB I-95 off-ramp intersections at RT 10. Widen the SB off-ramp at the RT 10 intersection to provide three left-turn lanes to EB RT 10. Widen the NB off-ramp at the RT 10 intersection to provide dual left-turn lanes to WB RT 10. Construct a park-and-ride lot to reduce trips on the I-95 corridor	✓	\$35.8M	✓	✓	
11	New Kent	I-64 EB Widening Exit 205 to Exit 211	Major widening of I-64 EB, from 2-lanes to 3-lanes, between Exit 211 (Rte. 106) and Exit 205 (Bottoms Bridge). This project takes place in New Kent County. This widening will provide significant operational improvements to the corridor which has level of service issues, particularly during the summer months. Furthermore, this improvement targets a high crash segment of the I-64 corridor. Finally this improvement is consistent with the I-64 Tier 1 EIS for the entire I-64 corridor between Richmond and Hampton Roads.	✓	\$50.1M	✓	✓	
12	New Kent	I-64 WB Widening Exit 211 to Exit 205	Major widening of I-64 WB, from 2-lanes to 3-lanes, between Exit 211 (Rte. 106) and Exit 205 (Bottoms Bridge). This project takes place in New Kent County. This widening will provide significant operational improvements to the corridor which has level of service issues, particularly during the summer months. Furthermore, this improvement targets a high crash segment of the I-64 corridor. Finally this improvement is consistent with the I-64 Tier 1 EIS for the entire I-64 corridor between Richmond and Hampton Roads.	✓	\$50.1M	✓	✓	

Current Work Efforts Update – Item 5.a.

ConnectRVA 2045 Long-Range Transportation Plan

Current staff effort is on the following:

Streamlining the existing transportation issue inventory and working on geographically and categorically grouping them.

Richmond/Tri-Cities Model runs for 2045 to establish any future transportation issues not captured now, mainly concerning congestion and accessibility.

Working with localities/LRTP AC members for their comment or additions on the Issue Inventory Spreadsheet.

Organizing community outreach meetings throughout the region to get citizen input on the existing transportation issues.

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

Five (5) corridors or corridor segments have been identified for further analysis of capital and operating costs to lay the groundwork for determining a return on investment. The technical memo outlining the first stage of analysis was distributed to the steering committee on February 7, 2020. A review of the cost analysis with GRTC will be held next week, with plans to hold a steering committee meeting for input in March. Report out is planned for TAC in April and RRTPO policy board in May.

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. Additional field visits with Dominion are being planned by Hanover and Henrico county staff. The steering committee will meet after these visits.

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 continues to be built with steering committee input. Staff is meeting with each locality to review their own needs and future plans 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. A shared drive is being set up to enable committee members to share resources and their own observations of travel around the region on foot or bike.

Ashland Complete Streets Pilot Project

The draft report of findings from the Ashland Complete Streets workshops and the public educational meeting is complete for use as the basis for a web-based set of guidelines for complete streets. These guidelines, or “tool-box”, will be incorporated into the regional bike/ped plan story map showing specific locations where good standards have been implemented and where infrastructure improvements could incorporate complete streets elements for better solutions.

Active Transportation Work Group (ATWG)

The regular quarterly meeting of the ATWG was held following the TAC meeting on February 11, 2020. Chris Gensic of the [Rivanna Trails Foundation](#) presented on the Three Notch'd Trail proposal connecting Charlottesville to Richmond, a non-vehicular trail that could pass through Hanover, Goochland, and Henrico counties in the Richmond region and could become part of the James River Heritage Trail, a proposed trail that is guided by leadership from the Virginia Department of Conservation and Recreation (DCR) ([presentation available on our website](#)). The meeting also provided updates to the Richmond Regional Bicycle and Pedestrian Plan update, Ashland to Petersburg Trail Study discussion, and opportunities for the localities and partners to share their own updates.

American Planning Association-Virginia Chapter Annual Conference

Themed “We’ll Get You Moving” representing the focus on multi-modal transportation, the annual APA Virginia Chapter conference will be in Richmond July 19-21, 2020. Staff is working with the conference planning committee with a focus now on planning mobile workshops throughout the region.

Smart Scale Round 4

The portal for the next round of Smart Scale is open from the beginning of March until April 2, 2020 for pre-application submittals by qualified applicants. Staff are working with member governments to prepare pre-application materials for our 10 (+2) allotted slots for regionally-significant projects. VDOT staff will pre-screen the applications and notify applicants of screening results. At that time, staff will work with TAC and the policy board to develop the final list of ten applications for full submittal. The full application window runs from June until August 3, 2020.

FY21/FY22 Transportation Alternatives Set-Aside Program Projects (REVISED)

Rank	Score	Jurisdic.	Project	Total Cost	Total Expected Request	Current Request	New / Existing	FY19/FY20	FY21/FY22	TPO Total	CTB Selections	Fully Funds
1	205.3	Richmond	2nd/3rd St bike infrastr (phase II)	\$ 600,000	\$ 480,000	\$ 240,000	Existing	\$ -	\$ -	\$ -	\$ 240,000	Yes
2	192.7	Richmond	Rt 161 bike infra (phase I)	\$ 500,000	\$ 400,000	\$ 400,000	New	\$ 400,000	\$ -	\$ 400,000	\$ -	Yes
3	187.3	Chesterfield	Rt 1 (Gettling - Dwight) SW/bike project	\$ 575,000	\$ 460,000	\$ 460,000	New	\$ 445,372	\$ 14,628	\$ 460,000	\$ -	Yes
4	185.3	Richmond	Greene Elementary pedestrian (phase II)	\$ 675,000	\$ 540,000	\$ 540,000	New	\$ -	\$ 540,000	\$ 540,000	\$ -	Yes
5	183.7	Chesterfield	Pedestrian HAWK signal at Rt 1 & Marina	\$ 476,000	\$ 380,800	\$ 380,800	New	\$ -	\$ 380,800	\$ 380,800	\$ -	Yes
6	179.3	Richmond	Maymont sidewalk (phase II)	\$ 430,000	\$ 344,000	\$ 344,000	New	\$ -	\$ 344,000	\$ 344,000	\$ -	Yes
7	177.3	Richmond	Commerce Rd ped safety (phase I)	\$ 400,000	\$ 320,000	\$ 320,000	New	\$ -	\$ -	\$ -	\$ -	N/A
8	177.0	Richmond	Rt 161 bike infra (phase II)	\$ 499,778	\$ 399,822	\$ 440,000	New	\$ -	\$ 399,822	\$ 399,822	\$ -	Yes
9	175.3	Richmond	Tredegar St transportation project	\$ 380,000	\$ 304,000	\$ 304,000	New	\$ -	\$ -	\$ -	\$ 155,000	No
10	174.7	Chesterfield	Courthouse (Courts Complex - Rt 10) trail	\$ 550,000	\$ 440,000	\$ 440,000	New	\$ -	\$ 440,000	\$ 440,000	\$ -	Yes
11	174.3	Richmond	Rt 147 ped safety (phase II)	\$ 500,000	\$ 400,000	\$ 400,000	New	\$ -	\$ -	\$ -	\$ -	N/A
12	173.0	Richmond	Rt 147 ped safety (phase I)	\$ 480,000	\$ 384,000	\$ 384,000	New	\$ -	\$ -	\$ -	\$ -	N/A
13	170.7	Henrico	Nuckols Rd Corridor share-use path	\$ 3,207,750	\$ 1,990,200	\$ 1,990,200	New	\$ -	\$ -	\$ -	\$ -	N/A
14	170.3	Richmond	Carnation St sidewalks (phase II)	\$ 400,000	\$ 320,000	\$ 320,000	New	\$ -	\$ -	\$ -	\$ -	N/A
15	166.3	Henrico	Lakeside Community trail (phase II)	\$ 2,971,330	\$ 1,899,464	\$ 1,899,464	New	\$ -	\$ -	\$ -	\$ -	N/A
15	163.3	Henrico	Lakeside Community trail (phase I)	\$ 1,823,840	\$ 1,037,472	\$ 1,037,472	New	\$ -	\$ -	\$ -	\$ 1,037,472	Yes
17	159.7	Henrico	Lakeside Community trail (phase III)	\$ 4,301,550	\$ 1,994,840	\$ 1,994,840	New	\$ -	\$ -	\$ -	\$ -	N/A
18	157.3	Richmond	Brown's Island Connector (phase III)	\$ 250,000	\$ 200,000	\$ 200,000	New	\$ -	\$ -	\$ -	\$ -	No
Available Funds								\$ 845,372	\$ 2,123,924	\$ 2,969,296		
Total Allocations								\$ 845,372	\$ 2,119,250	\$ 2,964,622		
Remaining								\$ -	\$ 4,674	\$ 4,674		
								0.0%	0.2%	0.2%		

CTB Selection also covers Tri-Cities and the non-MPO regions of the Richmond District

	TPO	CTB	Total	Pct
Richmond	\$ 1,683,822	\$ 395,000	\$ 2,078,822	47.3%
Chesterfield	\$ 1,280,800	\$ -	\$ 1,280,800	29.1%
Henrico	\$ -	\$ 1,037,472	\$ 1,037,472	23.6%
TOTAL	\$ 2,964,622	\$ 1,432,472	\$ 4,397,094	

TAC AGENDA 03/10/20; ITEM 6.**RRTPO Vision Zero Work Group****Richmond Regional Transportation Planning Organization**

REQUESTED ACTION: The Richmond Regional Transportation Planning Organization (RRTPO) Technical Advisory Committee (TAC) is requested to select members to serve on the Vision Zero Work Group and provide a recommendation to the policy board on how best to integrate the work group into the Unified Planning Work Program.

BACKGROUND: The following is a brief summary on formation of the Vision Zero Work Group from the February 6, 2020 RRTPO policy board meeting.

RRTPO Chairman's Report

John Hodges, RRTPO Chairman, reported as follows:

A.5.b. Vision Zero Work Group –The creation of the Vision Zero Work Group would establish regional goals as well as gather support and coordination at the regional level. The work group would also support local transportation safety organizations to improve safety around the region. The City of Richmond volunteered to chair the work group. The RRTPO policy board needs to request TAC's assistance in order to establish this sub-committee. The Chair requested action to authorize the TAC to review and provide a recommendation for membership on the subcommittee and integrating this program into the Unified Planning Work Program (UPWP).

On motion of Christopher Winslow, seconded by Patricia S. O'Bannon, the Richmond Regional Transportation Planning Organization (RRTPO) policy board unanimously approved the request.

TAC ACTION REQUESTED: The following sample resolution is presented for TAC review and recommendation to the RRTPO policy board for approval:

RESOLVED, that the Richmond Regional Transportation Planning Organization establish the RRTPO Vision Zero Work Group, consisting of representatives of the following member organizations: **List member organizations here.** Once established, the work group will coordinate with staff to develop its mission and goals for inclusion in the RRTPO Unified Planning Work Program for FY 2021.

CAP/nm

TAC AGENDA 3/10/20; ITEM 7.

FY18 – FY21 TIP AMENDMENTS: GRTC REQUEST

Richmond Regional Transportation Planning Organization

REQUESTED ACTION: Review and recommend to the Richmond Regional Transportation Planning Organization (RRTPO) policy board a request from GRTC to amend the FY18 – FY21 Transportation Improvement Program (TIP) to add a new project.

BACKGROUND: The RRTPO policy board has received a request from GRTC to amend the TIP to add a new project. Amendment details are outlined below:

- UPC GRTC00000: Expansion Vehicles – Articulated Vehicles – GRTC Transit System. FTA Section 5307 funds (FY21 \$672,000) will be used for this project.

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

RESOLVED, that the Richmond Regional Transportation Planning Organization policy board amends the *FY18 – FY21 Transportation Improvement Program (TIP)* adding the following new project; and

BE IT FURTHER RESOLVED, that this project is considered exempt from conformity under provisions contained in section 93.126 of the conformity rule as follows:

- UPC GRTC00000: Expansion Vehicles – Articulated Vehicles – GRTC Transit System. FTA Section 5307 funds (FY21 \$672,000) will be used for this project; exempt under purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet.

Attachments

CAP/jl

FY 2018 to FY 2021 Richmond Region TPO Transportation Improvement Program

GRTC

UPC GRTC00000

Jurisdiction: GRTC
Route/Street:
Description: Expansion Vehicles - Articulated Vehicles
From: GRTC service area
To: GRTC service area
System: Public Transportation
Administered By:
MPO Note:



Schedule

Phase **Start** **End** **Status**
Preliminary Engineering (PE):
Right of Way (RW):
Construction (CN):

No Image Available

Cost Estimates / Previous Obligations

Cost Estimates
PE:
RW:
CN:
Total:

Federal Obligations

Fund Source	Federal Obligations			
	FY18	FY19	FY20	FY21
FTA 5307	\$0	\$0	\$0	\$672,000
State	\$0	\$0	\$0	\$1,632,000
Local	\$0	\$0	\$0	\$96,000

Amendments

Amd 83 4/2/2020 Approved

1). This is a new project added to the TIP. 2). Obligate \$672,000 FTA Section 5307 funds (State match \$1,632,000 and local match \$96,000) to FY21.

Date Requested 2/12/2020

FY 2018 to FY 2021 Richmond Region TPO Transportation Improvement Program

Project Amendments - Tracking Records

Amd 83 GRTC0000 GRTC Expansion Vehicles - Articulated Vehicles

4/2/2020 Approved 1). This is a new project added to the TIP. 2). Obligate \$672,000 FTA Section 5307 funds (State match \$1,632,000 and local match \$96,000) to FY21.
Date Requested 2/12/2020

TAC AGENDA 03/10/20; ITEM 8.

FY21 – FY26 RSTP/CMAQ NEW PROJECT PRIORITIZATION

Richmond Regional Transportation Planning Organization

REQUESTED ACTION: Review and recommendation to the RRTPO policy board of the FY21 - FY22 RSTP/CMAQ new project priorities.

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).

Development of the SYIP is scheduled to occur later this year compared to recent years. The available RSTP and CMAQ funding for FY21 and projected funding for FY22 – FY26 are not yet available. Given these developments, VDOT has requested the TPO use a two-step approach to allocations for new projects this year. The first step, detailed in the sections below, is prioritizing projects for funding. TPO staff will work with VDOT to program the projects based on the adopted priorities, existing project needs, and the availability of funds. The draft program will come back to TAC for a recommendation when this process is completed.

Regional Surface Transportation Program (RSTP)

The Surface Transportation Block Grant (STBG) offers a flexible source of funding to states for transportation projects. Under the formulas established in the Fixing America's Surface Transportation (FAST) Act, the Richmond region receives approximately \$20M each year in STBG funding to address regional transportation issues.

For the FY21 – FY26 cycle, member governments and agencies submitted 24 applications for new projects in addition to the two (2) existing projects which were covered briefly last month. The new projects include ten (10) highway projects, eight (8) bicycle and pedestrian projects, and six (6) planning studies. All projects were evaluated using the criteria in the project selection guidelines by a scoring team of eight (8) people drawn from TPO staff, VDOT Richmond District staff, and DRPT staff. The project scores and ranking are shown in Attachment 1.

Starting from the project scores and rankings, staff has developed a recommended prioritization for projects. Beyond the scores, this prioritization factors in other committed funding, project schedules, the potential for leveraging funds, and the project sponsor's previous record of progress. The recommended prioritization of new RSTP projects is shown in Attachment 2.

Congestion Mitigation and Air Quality (CMAQ)

The Congestion Mitigation and Air Quality (CMAQ) program is a funding dedicated to improving air quality in region's that are not (or formerly were not) in attainment with national air quality standards. The Richmond region currently receives around \$8M each year in CMAQ funding.

For the FY21 – FY26 cycle, member governments and agencies submitted 17 applications for new projects in addition to the three (3) existing projects which were covered briefly last month. The new projects include eight (8) highway projects, eight (8) bicycle and pedestrian projects, and one (1) transit project. All of the projects were evaluated for potential reduction of ozone precursors with the help of VDOT's Environmental Division. The rankings for VOC, NOx, and overall emissions reductions are shown in Attachments 3, 4, and 5, respectively.

Starting from the project rankings, staff has developed a recommended prioritization for projects. Beyond the ranking, this prioritization factors in other committed funding, project schedules, the potential for leveraging funds, and the project sponsor's previous record of progress. The recommended prioritization of all CMAQ projects is shown in Attachment 6.

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 approves the prioritization of new FY21 – FY26 RSTP/CMAQ projects as presented.

Attachments

MAB

Attachment 1: RSTP New Project Scores and Ranking

<u>Jurisdiction</u>	<u>Project</u>	<u>Status</u>	<u>Type</u>	<u>Total Request</u>	<u>Score</u>	<u>Rank</u>
RRTPO	RRTPO Scenario Planning Pilot	New	Study	\$ 243,550	77.0	1
Henrico	W Broad St Intersection Improvements at Dominion and Cox	New	Highway	\$ 9,970,000	73.2	2
Chesterfield	US 360 Superstreets Study	New	Study	\$ 300,000	70.0	3
Chesterfield	Route 1 (Marina Drive - Merriewood Road) Shared-Use Path	New	Bike/Ped	\$ 890,000	67.1	4
Chesterfield	Route 60 Corridor Improvement Study	New	Study	\$ 125,000	65.0	5
Henrico	W Broad St Pedestrian and Transit Improvements - Glenside Dr to Parham Rd	New	Bike/Ped	\$ 9,295,000	62.8	6
Chesterfield	Route 1 (Gettings Lane - Dwight Avenue) Sidewalk/Bike Improvements	New	Bike/Ped	\$ 575,000	62.5	7
Chesterfield	Route 1 (Holiday Lane - Willis Road) Shared-Use Path	New	Bike/Ped	\$ 3,800,000	61.0	8
Chesterfield	Route 60 (Providence Road - Ruthers Road) Shared-Use Path	New	Bike/Ped	\$ 4,500,000	56.2	9
Richmond	Hull Street Project Phase II Chippenham Pkwy to Hey Rd	New	Highway	\$ 10,350,000	55.9	10
Henrico	Springfield Road Intersection Improvements	New	Highway	\$ 6,886,882	51.1	11
Henrico	Rt 33-60-Beulah Roundabout (PE only)	New	Highway	\$ 623,600	40.1	12
Henrico	Magellan Parkway Extension Project (PE only)	New	Highway	\$ 3,133,954	40.0	13
Goochland	IJR - Route 288 (West Creek Area)	New	Study	\$ 499,900	40.0	13
Richmond	Hey Road Improvement	New	Highway	\$ 1,500,000	37.8	15
Chesterfield	Centralia Road at Old Wrexham Road Roundabout	New	Highway	\$ 4,275,000	35.2	16
Henrico	Nuckols Road Pedestrian Improvements	New	Bike/Ped	\$ 1,834,000	32.1	17
Richmond	Multimodal Transportation Plan Update	New	Study	\$ 800,000	32.0	18
Chesterfield	Old Bermuda Hundred Road at Ramblewood Drive Roundabout	New	Highway	\$ 4,400,000	31.1	19
Henrico	Brook Road & Hilliard Road Trail	New	Bike/Ped	\$ 3,990,085	30.0	20
Chesterfield	Ashland-to-Petersburg Trail Study	New	Study	\$ 145,000	23.0	21
Ashland	Vaughan Road Overpass (PE only)	New	Highway	\$ 1,000,000	15.7	22
Ashland	Ashcake Road Pedestrian Improvements	New	Bike/Ped	\$ 550,000	14.3	23
Chesterfield	Brad McNeer Parkway Access Management and Roundabout	New	Highway	\$ 8,111,000	12.4	24

Attachment 2: RSTP New Project Recommended Prioritization

<u>Jurisdiction</u>	<u>Project</u>	<u>Type</u>	<u>Rank</u>	<u>Priority</u>	<u>Flexible</u>	<u>Notes</u>
RRTPO	RRTPO Scenario Planning Pilot	Study	1	1	No	FY21/FY22 funds
Henrico	W Broad St Intersection Improvements at Dominion and Cox	Highway	2	2	Yes	
Chesterfield	US 360 Superstreets Study	Study	3	3	No	FY21/FY22 funds
Chesterfield	Route 60 Corridor Improvement Study	Study	5	4	Yes	
Henrico	W Broad St Pedestrian and Transit Improvements - Glenside Dr to Parham Rd	Bike/Ped	6	5	Yes	
Chesterfield	Route 1 (Holiday Lane - Willis Road) Shared-Use Path	Bike/Ped	8	6	Yes	
Chesterfield	Route 60 (Providence Road - Ruthers Road) Shared-Use Path	Bike/Ped	9	7	Yes	
Richmond	Hull Street Project Phase II Chippenham Pkwy to Hey Rd	Highway	10	8	Yes	
Henrico	Springfield Road Intersection Improvements	Highway	11	9	Yes	
Henrico	Rt 33-60-Beulah Roundabout (PE only)	Highway	12	10	Yes	
Henrico	Magellan Parkway Extension Project (PE only)	Highway	13	11	Yes	PE-Only; Smart Scale leveraging
Goochland	IJR - Route 288 (West Creek Area)	Study	13	12	Yes	
Chesterfield	Centralia Road at Old Wrexham Road Roundabout	Highway	16	13	Yes	
Henrico	Nuckols Road Pedestrian Improvements	Bike/Ped	17	14	Yes	
Chesterfield	Old Bermuda Hundred Road at Ramblewood Drive Roundabout	Highway	19	15	Yes	
Henrico	Brook Road & Hilliard Road Trail	Bike/Ped	20	16	Yes	
Ashland	Vaughan Road Overpass (PE only)	Highway	22	17	Yes	PE-Only; Smart Scale leveraging
Ashland	Ashcake Road Pedestrian Improvements	Bike/Ped	23	18	Yes	
Chesterfield	Brad McNeer Parkway Access Management and Roundabout	Highway	24	19	Yes	
Richmond	Hey Road Improvement	Highway	15	20	Yes	Total estimated cost is \$9.3M; current funding \$1.6M; potential for significant increases if funded
Richmond	Multimodal Transportation Plan Update	Study	18	21	No	Project starting in FY20
Chesterfield	Ashland-to-Petersburg Trail Study	Study	21	22	Yes	VDOT study mirrors most of scope
Chesterfield	Route 1 (Marina Drive - Merriewood Road) Shared-Use Path	Bike/Ped	4	23	No	Smart Scale; 100% local commitment for overrun
Chesterfield	Route 1 (Gettings Lane - Dwight Avenue) Sidewalk/Bike Improvements	Bike/Ped	7	23	Yes	TA Set-Aside Funded

Attachment 3: CMAQ VOC Emissions Reduction and Ranking

<u>Jurisdiction</u>	<u>Project</u>	<u>Status</u>	<u>Type</u>	<u>Total Request</u>	<u>VOC Reduction</u>		
					<u>Tons per Year</u>	<u>Cost per Ton</u>	<u>Rank</u>
Ridefinders	Air Pollution Reduction Program	Existing	TDM	\$ 509,000	5.060	\$ 100,602	1
Richmond	Employee Trip Reduction Program	Existing	TDM	\$ 110,000	0.627	\$ 175,324	2
Richmond	Richmond Signal System – Phase III (with additives)	Existing	Highway	\$ 7,340,000 ¹	3.662	\$ 2,004,155	3
Richmond	Richmond Signal System – Phase IV	New	Highway	\$ 5,000,000	1.896	\$ 2,637,192	4
Henrico	W Broad St Pedestrian and Transit Improvements - Glenside Dr to Parham Rd	New	Bike/Ped	\$ 9,295,000	0.242	\$ 38,355,954	5
Chesterfield	Route 1 (Marina Drive - Merriewood Road) Shared-Use Path	New	Bike/Ped	\$ 890,000	0.014	\$ 63,797,866	6
Henrico	Nuckols Road Pedestrian Improvements	New	Bike/Ped	\$ 1,834,000	0.023	\$ 80,569,768	8
Chesterfield	Old Bermuda Hundred Road at Ramblewood Drive Roundabout	New	Highway	\$ 4,400,000	0.031	\$ 139,847,031	10
Henrico	Brook Road & Hilliard Road Trail	New	Bike/Ped	\$ 3,990,085	0.034	\$ 117,721,094	9
Chesterfield	Route 1 (Gettings Lane - Dwight Avenue) Sidewalk/Bike Improvements	New	Bike/Ped	\$ 575,000	0.008	\$ 76,023,168	7
Henrico	Rt 33-60-Beulah Roundabout (PE only)	New	Highway	\$ 623,600	0.002	\$ 251,433,871	13
Chesterfield	Brad McNeer Parkway Access Management and Roundabout	New	Highway	\$ 8,111,000	0.039	\$ 205,518,349	12
Chesterfield	Route 1 (Holiday Lane - Willis Road) Shared-Use Path	New	Bike/Ped	\$ 3,800,000	0.013	\$ 291,146,172	14
Chesterfield	Route 60 (Providence Road - Ruthers Road) Shared-Use Path	New	Bike/Ped	\$ 4,500,000	0.012	\$ 378,485,091	15
Henrico	W Broad St Intersection Improvements at Dominion and Cox	New	Highway	\$ 9,970,000	0.053	\$ 186,631,645	11
Ashland	Ashcake Road Pedestrian Improvements	New	Bike/Ped	\$ 550,000	0.001	\$ 472,321,676	16
Henrico	Springfield Road Intersection Improvements	New	Highway	\$ 6,886,882	0.008	\$ 855,854,571	17
Chesterfield	Centralia Road at Old Wrexham Road Roundabout	New	Highway	\$ 4,275,000	0.002	\$ 1,939,127,279	18
Chesterfield	Route 1 Transit Operations	New	Transit	\$ 3,600,000	-0.029	\$ (125,611,484)	19
Richmond	Connected and Autonomous Vehicles	New	Highway	\$ 5,000,000	N/A	N/A	N/A

¹The Richmond Signal System – Phase III project has \$6,312,350 in previous funding. The current request is for \$1,027,650 to add four additional corridors to the project scope.

Attachment 4: CMAQ NOx Emission Reduction and Ranking

<u>Jurisdiction</u>	<u>Project</u>	<u>Status</u>	<u>Type</u>	<u>Total Request</u>	<u>NOx Reduction</u>		
					<u>Tons per Year</u>	<u>Cost per Ton</u>	<u>Rank</u>
Ridefinders	Air Pollution Reduction Program	Existing	TDM	\$ 509,000	17.064	\$ 29,830	1
Richmond	Employee Trip Reduction Program	Existing	TDM	\$ 110,000	1.855	\$ 59,301	2
Richmond	Richmond Signal System – Phase III (with additives)	Existing	Highway	\$ 7,340,000 ¹	0.728	\$ 10,089,097	4
Richmond	Richmond Signal System – Phase IV	New	Highway	\$ 5,000,000	2.006	\$ 2,492,291	3
Henrico	W Broad St Pedestrian and Transit Improvements - Glenside Dr to Parham Rd	New	Bike/Ped	\$ 9,295,000	0.633	\$ 14,679,439	5
Chesterfield	Route 1 (Marina Drive - Merriewood Road) Shared-Use Path	New	Bike/Ped	\$ 890,000	0.046	\$ 19,303,844	6
Henrico	Nuckols Road Pedestrian Improvements	New	Bike/Ped	\$ 1,834,000	0.058	\$ 31,556,492	7
Chesterfield	Old Bermuda Hundred Road at Ramblewood Drive Roundabout	New	Highway	\$ 4,400,000	0.120	\$ 36,759,791	8
Henrico	Brook Road & Hilliard Road Trail	New	Bike/Ped	\$ 3,990,085	0.077	\$ 52,016,297	9
Chesterfield	Route 1 (Gettings Lane - Dwight Avenue) Sidewalk/Bike Improvements	New	Bike/Ped	\$ 575,000	0.003	\$ 221,876,135	15
Henrico	Rt 33-60-Beulah Roundabout (PE only)	New	Highway	\$ 623,600	0.012	\$ 52,625,694	10
Chesterfield	Brad McNeer Parkway Access Management and Roundabout	New	Highway	\$ 8,111,000	0.074	\$ 110,352,820	12
Chesterfield	Route 1 (Holiday Lane - Willis Road) Shared-Use Path	New	Bike/Ped	\$ 3,800,000	0.040	\$ 94,916,796	11
Chesterfield	Route 60 (Providence Road - Ruthers Road) Shared-Use Path	New	Bike/Ped	\$ 4,500,000	0.036	\$ 123,390,227	13
Henrico	W Broad St Intersection Improvements at Dominion and Cox	New	Highway	\$ 9,970,000	0.028	\$ 351,751,231	17
Ashland	Ashcake Road Pedestrian Improvements	New	Bike/Ped	\$ 550,000	0.003	\$ 161,835,297	14
Henrico	Springfield Road Intersection Improvements	New	Highway	\$ 6,886,882	0.030	\$ 231,312,046	16
Chesterfield	Centralia Road at Old Wrexham Road Roundabout	New	Highway	\$ 4,275,000	0.008	\$ 517,100,608	18
Chesterfield	Route 1 Transit Operations	New	Transit	\$ 3,600,000	-0.288	\$ (12,501,047)	19
Richmond	Connected and Autonomous Vehicles	New	Highway	\$ 5,000,000	N/A	N/A	N/A

¹The Richmond Signal System – Phase III project has \$6,312,350 in previous funding. The current request is for \$1,027,650 to add four additional corridors to the project scope.

Attachment 5: CMAQ Combined Emission Reduction and Ranking

<u>Jurisdiction</u>	<u>Project</u>	<u>Status</u>	<u>Type</u>	<u>Total Request</u>	<u>Combined Score</u>	<u>Overall Rank</u>
Ridefinders	Air Pollution Reduction Program	Existing	TDM	\$ 509,000	2	1
Richmond	Employee Trip Reduction Program	Existing	TDM	\$ 110,000	4	2
Richmond	Richmond Signal System – Phase III (with additives)	Existing	Highway	\$ 7,340,000 ¹	7	3
Richmond	Richmond Signal System – Phase IV	New	Highway	\$ 5,000,000	7	3
Henrico	W Broad St Pedestrian and Transit Improvements - Glenside Dr to Parham Rd	New	Bike/Ped	\$ 9,295,000	10	5
Chesterfield	Route 1 (Marina Drive - Merriewood Road) Shared-Use Path	New	Bike/Ped	\$ 890,000	12	6
Henrico	Nuckols Road Pedestrian Improvements	New	Bike/Ped	\$ 1,834,000	15	7
Chesterfield	Old Bermuda Hundred Road at Ramblewood Drive Roundabout	New	Highway	\$ 4,400,000	18	8
Henrico	Brook Road & Hilliard Road Trail	New	Bike/Ped	\$ 3,990,085	18	8
Chesterfield	Route 1 (Gettings Lane - Dwight Avenue) Sidewalk/Bike Improvements	New	Bike/Ped	\$ 575,000	22	10
Henrico	Rt 33-60-Beulah Roundabout (PE only)	New	Highway	\$ 623,600	23	11
Chesterfield	Brad McNeer Parkway Access Management and Roundabout	New	Highway	\$ 8,111,000	24	12
Chesterfield	Route 1 (Holiday Lane - Willis Road) Shared-Use Path	New	Bike/Ped	\$ 3,800,000	25	13
Chesterfield	Route 60 (Providence Road - Ruthers Road) Shared-Use Path	New	Bike/Ped	\$ 4,500,000	28	14
Henrico	W Broad St Intersection Improvements at Dominion and Cox	New	Highway	\$ 9,970,000	28	14
Ashland	Ashcake Road Pedestrian Improvements	New	Bike/Ped	\$ 550,000	30	16
Henrico	Springfield Road Intersection Improvements	New	Highway	\$ 6,886,882	33	17
Chesterfield	Centralia Road at Old Wrexham Road Roundabout	New	Highway	\$ 4,275,000	36	18
Chesterfield	Route 1 Transit Operations	New	Transit	\$ 3,600,000	38	19
Richmond	Connected and Autonomous Vehicles	New	Highway	\$ 5,000,000	N/A	N/A

¹The Richmond Signal System – Phase III project has \$6,312,350 in previous funding. The current request is for \$1,027,650 to add four additional corridors to the project scope.

Attachment 6: CMAQ Project Recommended Prioritization

<u>Jurisdiction</u>	<u>Project</u>	<u>Status</u>	<u>Type</u>	<u>Rank</u>	<u>Priority</u>	<u>Flexible</u>	<u>Notes</u>
RideFinders	Air Pollution Reduction Program	Existing	TDM	1	1	Yes	Existing; fund before new
Richmond	Employee Trip Reduction Program	Existing	TDM	2	2	Yes	Existing; fund before new
Richmond	Richmond Signal System – Phase III	Existing	Highway	3	3	Yes	Existing with expanded scope
Richmond	Richmond Signal System – Phase IV	New	Highway	3	4	Yes	
Henrico	W Broad St Pedestrian and Transit Improvements - Glenside to Parham	New	Bike/Ped	5	5	Yes	
Henrico	Nuckols Road Pedestrian Improvements	New	Bike/Ped	7	6	Yes	
Henrico	Brook Road & Hilliard Road Trail	New	Bike/Ped	8	7	Yes	
Chesterfield	Old Bermuda Hundred Road at Ramblewood Drive Roundabout	New	Highway	8	8	Yes	
Henrico	Rt 33-60-Beulah Roundabout (PE only)	New	Highway	11	9	Yes	
Chesterfield	Brad McNeer Parkway Access Management and Roundabout	New	Highway	12	10	Yes	
Chesterfield	Route 1 (Holiday Lane - Willis Road) Shared-Use Path	New	Bike/Ped	13	11	Yes	
Chesterfield	Route 60 (Providence Road - Ruthers Road) Shared-Use Path	New	Bike/Ped	14	12	Yes	
Henrico	W Broad St Intersection Improvements at Dominion and Cox	New	Highway	14	13	Yes	
Ashland	Ashcake Road Pedestrian Improvements	New	Bike/Ped	16	14	Yes	
Henrico	Springfield Road Intersection Improvements	New	Highway	17	15	Yes	
Chesterfield	Centralia Road at Old Wrexham Road Roundabout	New	Highway	18	16	Yes	
Richmond	Connected and Autonomous Vehicles	New	Highway	N/A	17	No	No flexibility in schedule
Chesterfield	Route 1 (Marina Drive - Merriewood Road) Shared-Use Path	New	Bike/Ped	6	18	No	Smart Scale; 100% local commitment for overrun
Chesterfield	Route 1 Transit Operations	New	Transit	19	19	No	Ridership estimates show increased emissions
Chesterfield	Route 1 (Gettings Lane - Dwight Avenue) Sidewalk/Bike Improvements	New	Bike/Ped	10	20	Yes	TA Set-Aside funded

TAC AGENDA 3/10/20; ITEM 10.

Upcoming TAC Future Meeting Topics

April 14

- FY21 – FY24 Draft TIP Recommendation
- 2045 Long Range Growth Forecast Analysis (SE Data Analysis Report)
- ConnectRVA2045 (LRTP) Update
- Transit Vision Plan – Short Term Improvements Update
- Regional Bicycle & Pedestrian Plan Update
- Complete Streets Toolbox

May 12

- 2020 Richmond Regional Structural Inventory and Assessment Report

Future Meeting Topics

- VTrans Statewide Transportation Plan Update
- East Coast Greenway
- Regional Bicycle and Pedestrian Plan