

AGENDA

RICHMOND REGIONAL TRANSPORTATION PLANNING ORGANIZATION TECHNICAL ADVISORY COMMITTEE

**Wednesday, February 14, 2023, 9:00 a.m.
Zoom Meeting**

This meeting is open to the public. Members of the public are invited to attend virtually. Please alert the RRTPO at RRTPOinput@planrva.org if electronic transmission of this meeting fails for the public. If such transmission fails, the committee will take a recess until public access is restored. Please refer to our [Statement Regarding Virtual Meeting Participation by Members of the Public](#) for more information.

*If you wish to participate in this meeting virtually, please register via Zoom at the following link:
https://planrva-org.zoom.us/webinar/register/WN_n-cqseTnQDuMuZ5-oE5aOg*

Check out our complete [Public Participation Guide](#) online to learn about the different ways you can stay connected and involved. Meetings are also live streamed and archived on our YouTube Channel at www.youtube.com/c/PlanRVA.

- 1. Welcome and Introductions**
(Smidler)
- 2. Statement Regarding Virtual Meetings**
(Parsons)
- 3. Roll Call & Certification of a Quorum**
(Firestone)
- 4. Consideration of Amendments to the Meeting Agenda**
(Smidler)
- 5. [Approval of January 10, 2023, TAC Meeting Minutes](#) – page 3**
(Smidler)
Action requested: approval of minutes as presented (voice vote).
- 6. Open Public Comment Period**
(Smidler/5 minutes)
- 7. TAC Chairman's Report**
(Smidler/10 minutes)
- 8. RRTPO Update**
(Parsons/Aryal/10 minutes)

9. **Transit Asset Management Performance Targets** – page 9
(Ryan/10 minutes)
Action requested: motion to recommend approval of the Tier 2 TAM targets (roll call vote).
10. **FY21 – FY24 TIP Amendment: I-64 Gap Improvement – Segment A** – page 12
(Busching/10 minutes)
Action requested: motion to recommend amending the project obligations (roll call vote).
11. **Project Cost Estimating & Overruns** – page 14
(Busching/10 minutes)
Action requested: TAC is requested to review the project history and policy board direction and determine a course of action to address this concern.
12. **FY24 – FY29 STBG/CMAQ Allocations - Existing Project Requests** – page 16
(Busching/10 minutes)
Action requested: motion to recommend funding awards for existing projects (roll call vote).
13. **FY24 – FY27 TIP & ConnectRVA 2045 Conformity Projects List** – page 37
(Busching/10 minutes)
Action requested: motion to recommend the RRTPO project list for regional conformity assessment (roll call vote).
14. **Smart Scale Recommendations Review (focus on CVTA leveraging impacts)** – page 47
(Parsons/20 minutes)
15. **Transportation Agency Updates**
(10 minutes)
 - a. **DRPT** – Dubinsky
 - b. **GRTC** – Torres
 - c. **RideFinders** – O’Keeffe
 - d. **VDOT** - Mueller
16. **Future Meeting Topics** – page 51
(Smidler/5 minutes)
17. **TAC Member Comments**
(Smidler /5 minutes)
18. **Next Meeting: March 14, 2023**
(Smidler)
19. **Adjournment**
(Smidler)

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

**ZOOM MEETING MINUTES
January 10, 2023, 9:00 a.m.**

MEMBERS and ALTERNATES (A) PRESENT:

Town of Ashland		Charles City County		Chesterfield County	
Nora D. Amos	X	Gary Mitchell		Barbara K. Smith	X
Vacant (A)		Rhonda Russell (A)	X	Chessa Walker (A)	X
Goochland County		Hanover County		Henrico County	
Austin Goynes	X	Joseph E. Vidunas, FY23 Vice Chair	X	Sharon Smidler, FY23 Chair	X
Thomas M. Coleman (A)		J. Michael Flagg (A)		Todd Eure (A)	X
New Kent County		Powhatan County		City of Richmond	
Kelli Le Duc		Bret Schardein		Dironna Moore Clarke	X
		Vacant (A)		Vacant (A)	
Capital Region Airport Commission		DRPT		GRTC	
John B. Rutledge		Tiffany T. Dubinsky	X	Sam Sink	X
		Daniel Wagner (A)		Corey Robinson (A)	X
PlanRVA		RideFinders		RMTA	
Chet Parsons	X	Von S. Tisdale		Theresa Simmons	
Sulabh Aryal (A)		John O'Keeffe (A)	X		
VDOT					
Liz McAdory	X				
Nicole Mueller (A)	X				

The technology used for the RRTPO Technical Advisory Committee meeting was a web-hosted service created by Zoom and YouTube Live Streaming and was open and accessible for participation by members of the public. A recording of this meeting is available on our [Plan RVA YouTube Channel](#).

Virtual participation of this meeting by members of the committee is authorized under the City of Richmond Res. No. 2020-R025, - declaration of a local emergency due to the potential spread of COVID-19, adopted March 16, 2020. The resolution is available [here](#).

1. Welcome and Introductions

The Richmond Regional Transportation Planning Organization (RRTPO) Technical Advisory Committee (TAC) Chair, Sharon Smidler, presided and called the January 10, 2023, TAC meeting to order at 9:01 a.m.

2. Statement Regarding Virtual Meetings

Attendees' attention was directed to the statement regarding virtual meeting participation.

3. Roll Call & Certification of a Quorum

Janice Firestone, PlanRVA, took attendance by roll call and certified that a quorum was present.

4. Consideration of Amendments to the Meeting Agenda

Chet Parsons noted that Item 13 needs to be an information item only rather than an action item. The RRTPO Technical Advisory Committee approved the agenda as amended (voice vote).

5. Approval of December 13, 2022, Meeting Minutes

On motion of John O'Keefe, seconded by Austin Goyne, the RRTPO Technical Advisory Committee approved the minutes of the December 13, 2022, meeting as presented (voice vote).

6. Open Public Comment Period

There were no requests to address the committee.

7. TAC Chairman's Report

Chair Smidler did not have a formal report.

8. RRTPO Update

Chet Parsons provided this update and reported on recent discussions about increasing the role of CTAC.

a. 2050 Socioeconomic Data Workgroup - Update

Mr. Parsons reported that staff has been working on the employment distribution of the 2050 data. It will be sent to TAC members for locality review this month. The workgroup will schedule a meeting after that review and will seek Policy Board approval in March.

9. Federal Performance Measures Reporting

Greta Ryan, PlanRVA, provided this presentation and offered to answer any questions. She offered clarification that the requested action is to accept the targets that have been set by VDOT and the numbers on how the RRTPO is performing. The system performance measures are updated every four years.

The presentation is posted on the [meeting web page](#).

On motion of Barbara K. Smith, seconded by Joseph E. Vidunas, the RRTPO Technical Advisory Committee voted to recommend RRTPO approval of the following resolution (voice vote).

RESOLVED, that the RRTPO Policy Board submits the following letters: the annual submission of RRTPO safety target letter to VDOT as required by Federal regulations, the quadrennial submission of RRTPO asset condition and system performance targets letter to OIPI as required by Federal regulations.

10. FY21 – FY24 TIP Amendment Request – UPC 121682 – I-64/Ashland Road Interchange IAR

Myles Busching presented this request and offered to answer any questions. Austin Goyne clarified that the Park and Ride in that location is going to be moved. Mr. Busching clarified that there has been no change in the cost of the project; it is just being moved forward one fiscal year.

On motion of Austin Goyne, seconded by Barbara , the RRTPO Technical Advisory Committee voted to recommend RRTPO approval of the following resolution (voice vote).

Jurisdiction/Agency	Member	Aye	Nay	Abstain	Absent
Town of Ashland	Nora D. Amos	X			
Charles City County	Rhonda Russell	X			
Chesterfield County	Barbara K. Smith	X			
Goochland County	Austin Goyne	X			
Hanover County	Joseph E. Vidunas, Vice Chair	X			
Henrico County	Sharon Smidler, Chair	X			
New Kent County	Kelli Le Duc				
Powhatan County	Bret Schardein				
City of Richmond	Dironna Moore Clarke	X			
Capital Region Airport Commission	John B. Rutledge				
DRPT	Tiffany Dubinsky	X			
GRTC Transit System	Cory Robinson (A)	X			
PlanRVA	Chet Parsons	X			
RideFinders	John O’Keeffe (A)	X			
RIC Metropolitan Transp. Authority	Theresa Simmons				
VDOT	Liz McAdory	X			
Totals					

11. FY21 – FY24 TIP Amendment Request – GRTC005 – Bus Stop Amenities

Mr. Busching presented this request and offered to answer any questions.

On motion of Tiffany Dubinsky, seconded by Liz McAdory, the RRTPO Technical Advisory Committee voted to recommend RRTPO approval of the following resolution (voice vote).

Jurisdiction/Agency	Member	Aye	Nay	Abstain	Absent
Town of Ashland	Nora D. Amos	X			
Charles City County	Rhonda Russell	X			
Chesterfield County	Barbara K. Smith	X			
Goochland County	Austin Goyne	X			

Hanover County	Joseph E. Vidunas, Vice Chair	X			
Henrico County	Sharon Smidler, Chair	X			
New Kent County	Kelli Le Duc				
Powhatan County	Bret Schardein				
City of Richmond	Dironna Moore Clarke	X			
Capital Region Airport Commission	John B. Rutledge				
DRPT	Tiffany Dubinsky	X			
GRTC Transit System	Sam Sink	X			
PlanRVA	Chet Parsons	X			
RideFinders	John O'Keeffe (A)	X			
RIC Metropolitan Transp. Authority	Theresa Simmons				
VDOT	Liz McAdory	X			
Totals					

12. FY24 – FY29 STBG/CMAQ Allocations - Existing Project Requests

Mr. Busching presented this request and offered to answer any questions. Committee members had questions and Mr. Busching clarified that the projects staff did not recommend approval of funding for have been identified as having additional/other funding that can be considered. The funds, if not approved for the requested project, would be available for new project applications. Committee members expressed concerns with the assumption that CVTA local funds could be used for the projects and noted that the localities generally have other projects that are planned for CVTA local funds.

The group reviewed each of the existing project requests. Localities provided detailed explanations on the status and history of each of their respective projects. After discussion, it was decided to postpone action on these projects until the February meeting. That would send it to the Policy Board in March. Liz McAdory noted that VDOT would need the Policy Board decision by mid-March.

There was a consensus to defer action on this matter until the February TAC meeting.

The issue of cost overruns that the Policy Board would like TAC to address was also discussed. It will be on the February TAC agenda. It was suggested that staff have individual discussions with each locality to refine the narrative for each project on the history list.

13. FY24 – FY27 Transportation Improvement Program (TIP) Projects List

Mr. Busching reported that there has been a delay in the release of the TIP project list. He provided an updated schedule based on the delay and noted this will require an

additional TAC meeting in late April in order to move the item on for Policy Board action in May.

14. Transportation Agency Updates

a. DRPT

Tiffany Dubinsky provided this report. The agency update is posted with the [meeting documents](#).

b. GRTC

Cory Robinson provided an update on recent and upcoming GRTC activity provided information on current studies that are being conducted. He reported that the downtown transfer station is still under construction and is scheduled to be open soon.

c. RideFinders

John O’Keeffe, RideFinders, provided an update on the following RideFinders’ activities:

- Contacted Southside ReLeaf, GroundworkRVA, Capital Trees to partner with organizations efforts in underserved areas (area urban heat islands) by the planning of trees. creating green spaces and community gardens in food deserts.
- Working with VDOT on the replacement of the 6 missing RideFinders signs.
- Working with the City of Richmond’s Office of Equitable Transit and Mobility to provide their clients with the RideFinders Emergency Ride Home Pilot program. The City of Richmond’s Pilot program offers free rides to work for Temporary Assistance for Needy Families (TANF) eligible neighbors who live in Richmond Redevelopment and Housing Authority (RRHA) properties.
- Continued to promote GRTC and PlanRVA’s **West Broad Street Bus Rapid Transit (BRT) Corridor Analysis** survey on social media platforms and posted news story on our website.
- Continued promoting “**Be the CEO of Your Commute**” campaign.
- Reported results of DRPT facilitated Triennial Compliance Review at GRTC/RideFinders December Board of Directors Meeting.
- **Brigitte Carter** was recognized by the Chesapeake Chapter of the Association Commuter Transportation (ACT) as the **Behind the Scenes TDM Champion**. This award recognizes an exceptional non-supervisory, staff member who works behind the scenes who exhibits teamwork, dependability, professionalism and other outstanding qualities to make their transportation demand management (TDM) program a success.

d. VDOT

Lis McAdory, VDOT, provided an update on VDOT’s recent and upcoming activities, which is posted with the [meeting documents](#).

11. Future Meeting Topics

Chair Smidler reviewed the future meeting topics.

12. TAC Member Comments

There were no comments from TAC members.

13. Next Meeting: November

Chair Smidler noted the next meeting will be held on February 14, 2023.

14. Adjournment

Chair Smidler adjourned the meeting at 11:48 a.m.

TAC AGENDA 2/14/23; ITEM #9.

FFY22 TIER II GROUP TAM PERFORMANCE TARGETS

Richmond Regional Transportation Planning Organization

REQUESTED ACTION: Review and recommend RRTPO Policy Board approval of the FFY22 Tier II Group TAM performance targets and incorporation into the Transportation Improvement Program.

BACKGROUND: The National Transit Asset Management System Final Rule (49 U.S.C. 625) requires transit agencies that receive federal financial assistance under 49 U.S.C. Chapter 53 and own, operate, or manage capital assets used in the provision of public transportation create a Transit Asset Management (TAM) plan. Transit agencies can fulfill this requirement through an individual or group plan.

The Department of Rail and Public Transportation (DRPT) sponsors a Tier II Group TAM Plan for Tier II transit agencies. A Tier II transit agency is a subrecipient of FTA 5311 funds, or is an American Indian Tribe, or has 100 or fewer vehicles across all fixed route modes, or has 100 vehicles or less in 1 non-fixed route mode.

DRPT published a new FFY22 Virginia Group Tier II Transit Asset Management Plan on October 1, 2022, after The Plan was adopted by the 33 transit agencies who were eligible to participate in the plan. Bay Transit which serves the eastern counties in the region is a participating Tier II agency. The RRTPO can elect to follow the group plan performance targets or to set regionally developed targets.

FFY2023 TAM Targets for rolling stock and facilities for Tier II transit agencies:

Asset Category – Performance Measure	Asset Class	FFY2022
Revenue Vehicles		
Age - % of revenue vehicles within a particular asset class that have met or exceeded their Useful Life Benchmark (ULB)	AB – Articulated Bus	5%
	BU – Bus	15%
	CU – Cutaway	10%
	MV – Minivan	20%
	BR – Over-the-Road Bus	15%
	VN – Van	20%

Equipment		
Age - % of vehicles that have met or exceeded their Useful Life Benchmark (ULB)	Non-Revenue/Service Automobile	30%
	Trucks and other Rubber Tire Vehicles	30%
Facilities		
Condition - % of facilities with a condition rating below 3.0 on the FTA TERM Scale	Administrative Facilities	10%
	Maintenance Facility	10%
	Passenger Facilities	15%
	Parking Facilities	10%

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 adopts the FFY2022 Tier II TAM targets and incorporates them into the Transportation Improvement Program.

March 2, 2023

Wood Hudson
Statewide Transit Planner
Virginia Department of Rail and Public Transportation
600 East Main Street, Suite 3102
Richmond, VA 23219

Dear Mr Hudson,

Richmond Regional Transportation Planning Organization has reviewed and adopted Federal Fiscal Year TAM targets into the Transportation Improvement Program on 3/2/23. A copy of the MPOs updated TIP is available [here](#).

- RRTPO has opted to adopt the FFY22 Virginia Group Tier II Transit Asset Management Plan targets published in the TAM plan on October 1, 2022.

Respectfully,

Chet Parsons, AICP CTP



Secretary
Richmond Regional Transportation Planning Organization
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Richmond, Virginia 23224
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POLICY BOARD AGENDA 02/14/23; ITEM #10.

**FY21 – FY24 TIP AMENDMENT:
UPC 122805: I-64 GAP IMPROVEMENTS – SEGMENT A**

Richmond Regional Transportation Planning Organization

REQUESTED ACTION: Review and provide a recommendation to the policy board on a request from VDOT to amend the FY21 – FY24 Transportation Improvement Program (TIP) to add funding obligations and additional phases to an existing project

BACKGROUND: The RRTPO Policy Board has received a request from VDOT to amend the TIP to revise the planned obligations on UPC 122805: I-64 Gap Improvements – Segment A. The project currently has the preliminary engineering (PE) phase programmed in the TIP. The proposed amendment would add state funding for right-of-way (\$1,000,000) and construction (\$249,813,744), both in fiscal year 2023. As a state funded project, there is no impact on *federal* funding obligations.

Major work proposed in this project includes:

- 2 bridge widening/rehabilitations (EB/WB I-64 over Route 155 - N. Courthouse Road)
- 10.7 miles of I-64 roadway widening and pavement rehabilitation within the existing right-of-way
- Overhead signage and ITS Systems
- Sound Barrier Walls
- Retaining Walls
- Box Culvert and Pipe Repairs
- Storm Drainage Box Culverts and Pipes

A request for proposals for this project is expected this spring with a design-build contract award scheduled for this fall. The proposed amendments are necessary for the project to advance.

ACTION REQUESTED: The following resolution is presented for consideration and recommendation to the Policy Board:

RESOLVED, that the Richmond Regional Transportation Planning Organization Policy Board amends the *FY21 – FY24 Transportation Improvement Program (TIP)* to revise the planned obligations on UPC 122805: I-64 GAP IMPROVEMENTS – SEGMENT A to include:

- \$1,000,000 in Other (State) funding for Right-of-Way in fiscal year 2023
- \$249,813,744 in Other (State) funding for Construction in fiscal year 2023

Attachments

FY 2021 to FY 2024 Richmond Region TPO Transportation Improvement Program

Interstate

UPC 122805

Jurisdiction: New Kent County
Route/Street: I-64
Description: I-64 GAP IMPROVEMENTS - SEGMENT A
Scope: Reconstruction with Added Capacity
From: EXIT 205 BOTTOMS BRIDGE
To: EXIT 214 N. COURTHOUSE RD
Length: 10.7MI
Administered By: VDOT **Regionally Significant:** Yes
MPO Note:

No Image Available

Schedule

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

Cost Estimates / Previous Obligations

Goals addressed

Cost Estimates
PE:
RW:
CN:
Total: \$277,828,078

Access	No	Congestion	Yes	Environment	No
Freight	Yes	Landuse	No	Maintenance	No
Safety	Yes	Reliability	Yes	Multimodal	No

Federal Obligations

Phase	Fund Source	Match	Federal Obligations			
			FY21	FY22	FY23	FY24
PE	OTHER	\$0	\$0	\$0	\$27,014,334	\$0
RW	OTHER	\$0	\$0	\$0	\$1,000,000	\$0
CN	OTHER	\$0	\$0	\$0	\$249,813,744	\$0

Amendments

Amd 42 3/2/2023 Approved

1). Add FY23 RW Phase and obligate \$1,000,000 State Other funds. 2). Add FY23 CN Phase and obligate \$249,813,744 State Other funds.

Date Requested 1/17/2023

TAC AGENDA 2/14/23; ITEM #11.

PROJECT COST ESTIMATING

Richmond Regional Transportation Planning Organization

REQUESTED ACTION: Review historic project estimating performance and recommend any necessary changes to the policy board to reduce the impacts of cost overruns on regional funding programs

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).

In developing the FY23 – FY28 allocations plans, VDOT identified large shortfalls on three projects that had not been previously requested through the TPO application process. In total, these shortfalls totaled over \$13 million. To meet these existing project needs, no new projects were selected for the second year in a row.

The RRTPO policy board directed staff to review the performance of the STBG and CMAQ programs and identify opportunities to reduce cost overruns and their impacts on regional funding programs. Staff reviewed all active projects based on the SYIP estimates by phase over time. Staff presented the requested information at the January policy board meeting. The [presentation materials can be found here](#).

Of the 39 projects analyzed, staff found the median project was about 26% over the original estimate and TPO funding had increased by about 19%. These figures are within the AASHTO expected range for cost increases on projects selected in the planning phase.

Staff also identified a handful of mostly legacy projects which negatively impact the program. The cost of 11 (28%) projects has at least doubled for the original estimate, with 6 of them dating to the 2000s or earlier. On 8 (20%) projects, the TPO's funding commitment had at least doubled over the life of the project. In several cases, the estimate increases were driven by evolving project scopes (for example, the Mayo Bridge project started as a rehabilitation and evolved into a replacement).

The policy board has referred this question of how to address cost estimating and overruns to TAC with the following requests:

1. Provide an explanation for the cost increases in all cases where an active or recently completed project has exceeded its original budget (requested last month), and
2. Determine what policy changes are needed (if any) to reduce cost overruns and their impacts on regional funding programs. Some options to consider include:
 - a. Using more conservative estimate assumptions (like Smart Scale)
 - b. Increasing project definition before selection (e.g., requiring 30% design)
 - c. Reducing TPO exposure to overruns by awarding funds for a single phase or fixed dollar amounts

d. Improving time to delivery

TAC ACTION REQUESTED: TAC is requested to review the project history and policy board direction and determine a course of action to address this concern.

TAC AGENDA 2/14/23; ITEM #12.

FY24 – FY29 STBG/CMAQ EXISTING PROJECT REQUESTS

Richmond Regional Transportation Planning Organization

REQUESTED ACTION: Review existing project requests and provide a recommendation on FY24 – FY29 STBG/CMAQ funding awards

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).

In June of 2021, the RRTPO Policy Board adopted new guidelines for project selection and allocation of regional Surface Transportation Block Grant (STBG) and Congestion Mitigation and Air Quality (CMAQ) funds. The newly adopted guidelines can be reviewed [on the PlanRVA website](#).

The RRTPO held an existing project request application period in September. A total of eleven (11) applications were submitted for additional funding. A summary of the requests is included as Attachment A.

Based on the discussion at the October TAC meeting, staff have had additional discussions with project sponsors to understand the requests. Staff has also compiled a project history back to 2004 (where necessary) using the Six-Year Improvement Program.

A summary of the requests and the staff analysis from the January 2023 meeting are included as attachments to this report as reference materials.

TAC ACTION REQUESTED: TAC is requested to provide a funding recommendation on each project for incorporation into the draft funding allocation plans along with new projects if sufficient funding is available.

ATTACHMENTS

- A. Existing Project Requests
- B. Project History & Staff Recommendations

Project Title	Project UPC	Has the project estimate increased?	Explain the reasons for the increase in cost	Total Cost	Has the project schedule changed?	Explain the reasons for the change to the project schedule	Does this project need additional funding?	Are you requesting RRTPO funding for the full deficit?	Have you sought funding from other sources?	List the program, amount, and status of any requests for funding to address this deficit. If pending, include expected timeline for a decision	Do you have CVTA or other local funds which could be allocated to this shortfall?	Additional Funding Requested
RRTPO scenario planning pilot	118143	Yes	Project proposals returned higher than estimated - scope clarity	\$ 600,000	No		Yes	Yes	Yes	PlanRVA was not able to commit additional funding to this project. CVTA operating budget dues not have ability to cover this cost and the project dues not qualify for regional funding.	No	\$ 400,000
#SMART18 - RTE 360 WIDENING	13551	Yes	Bids were received on Aug. 19th and came in approximately 30% over the engineer's estimate. Only one bid was received and we don't feel like we will get a better result by rebidding.	\$ 34,752,000	No		Yes	No	No		Yes	\$ 1,600,000
Commerce Rd Improvements	15958	Yes	Increased costs due to market conditions	\$ 33,012,000	Yes	to be reauthorized by FHWA/VDOT	Yes	Yes	Yes	RSTP funding - \$ 3,770,000. Needed for construction phase. FY2024 or FY 2025	No	\$ 3,770,000
Early Settlers Rd (Robious Rd Hospital/Park) Sidewalk	113846	Yes	The cost estimate has been increased to address bid/market risk.	\$ 1,270,000	No		Yes	Yes	No		No	\$ 100,000
RideFinders Air Pollution Rediction	T203	No			No		No					
Route 1 Improvements: Ashcake Rd to Arbor Oak Dr	112042	Yes	Increased costs, in particular construction	\$ 14,269,086	No		Yes	Yes	No		No	\$ 2,759,106
Libbie Avenue Road Diet	115769	Yes	Refined estimate reflecting current construction costs and covering No-Post Local funds.	\$ 2,180,500	No		Yes	Yes	No	N/A	No	\$ 483,500
N. Parham Rd Traffic Signal and Sidewalk Project	109194	Yes	Refined cost estimate to reflect current construction costs and cover the remaining No-Post Local funds.	\$ 5,244,536	No		Yes	Yes	Yes	SMART Scale funding was previously secured during the FY20 application.	No	\$ 204,209
Jahnke Road - @ Lane Improvement	19035	Yes	Cost escalation due to inflation. (Materials and Labor) City is flexible with funding over the duration of two year construction period, with half each year.	\$ 21,800,000	Yes	Utility conflicts and railroad negotiations.	Yes	Yes	Yes	Federal - Regional STP \$1,000,000. No longer pending.	No	\$ 3,000,000
Deepwater Terminal Rd Project	104281	Yes	Inflation due to rising costs of materials and labor costs nationwide	\$ 7,822,698	Yes	challenges with property owners and businesses in the area delayed RW Acquisition process and steps	Yes	Yes	Yes	Project went to City Council seeking additional funding and it wasn't granted additional funding	No	\$ 1,750,000
Rte 623 - Improve Intersection	105733	No			Yes	A revised estimate was received from VDOT as a part of the annual SYIP review. After reviewing that estimate with VDOT, there were scope concerns. To remedy those concerns, a Smart Scale application is in process to fully validate the project. As such, the anticipated start date of PE will now be FY24 instead of FY23.	No					

Attachment B: Existing Project Requests – Staff Analysis

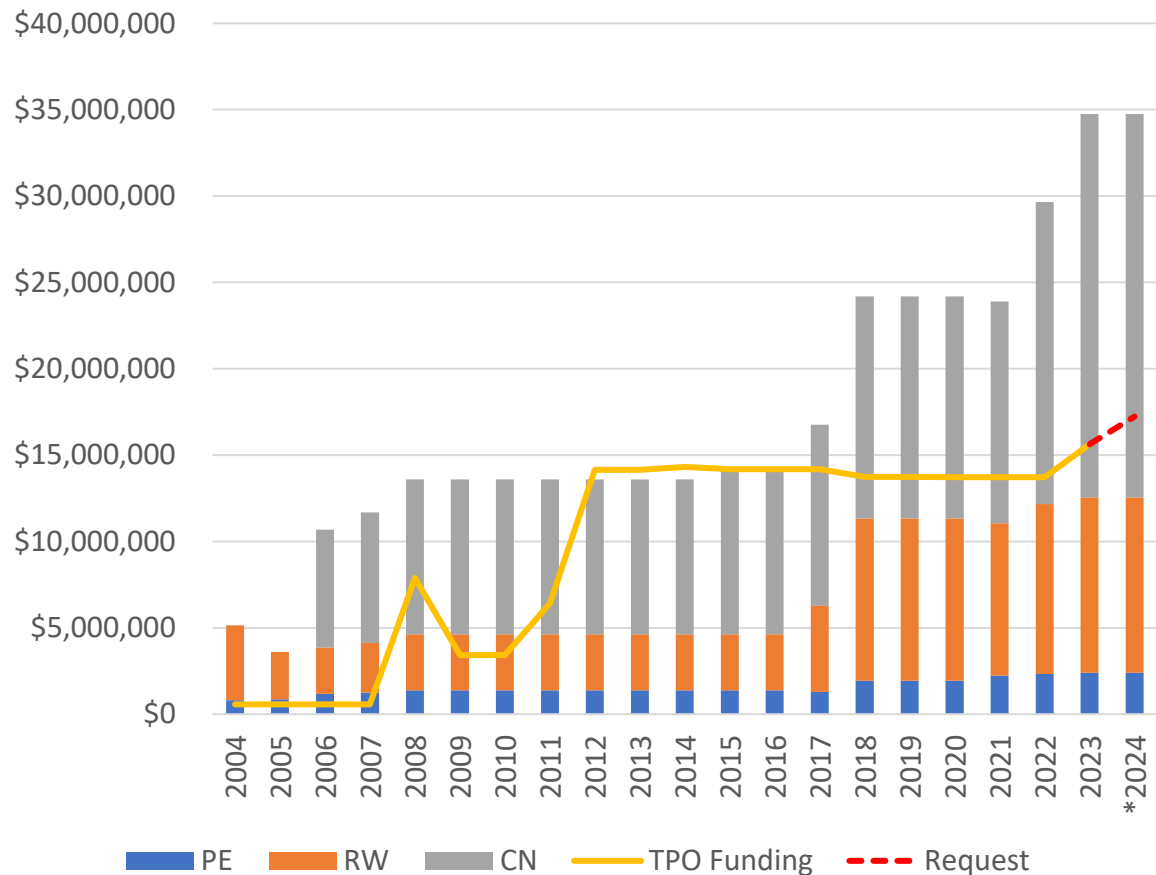
This spring, the Policy Board gave staff direction to reduce the cost of overruns to the TPO, including a review of the cost estimating practices of project sponsors and policies for prioritizing existing project requests. As noted in the main staff report, RRTPO staff have concerns about the use of STBG funds to address project deficits when no other funding sources have been sought. Staff remind localities of the general requirement to address increases using local funds where available.

Staff also remind sponsors of the financial programming practice of fully funding existing projects before funding new projects. As partners in the project funding and development process, the expectation is that local sponsors will also prioritize existing projects in the development pipeline when programming local transportation funding.

Staff has reviewed each project request against the SYIP and TPO allocation history and provided a general recommendation consistent with the *Regional Funding Framework* guidelines and Policy Board direction.

#SMART18 - RTE 360 WIDENING (UPC 13551)

Project Funding & Estimate History



Previous Estimate (FY23 SYIP – Summer 2022)

Total Estimate	\$29,551,000
Total Funding	\$31,451,000
Total TPO Funding	\$15,638,840
TPO Share of Total Estimate	52.9%
TPO Share of Total Funding	49.7%

New Estimate and Deficit

New Estimate	\$34,752,000
Total Deficit (Estimate – Funding)	\$3,301,000
Explanation	Bids were received in August and came in approximately 30% over the engineer's estimate. Only one bid was received, and locality staff does not expect a better result by rebidding.

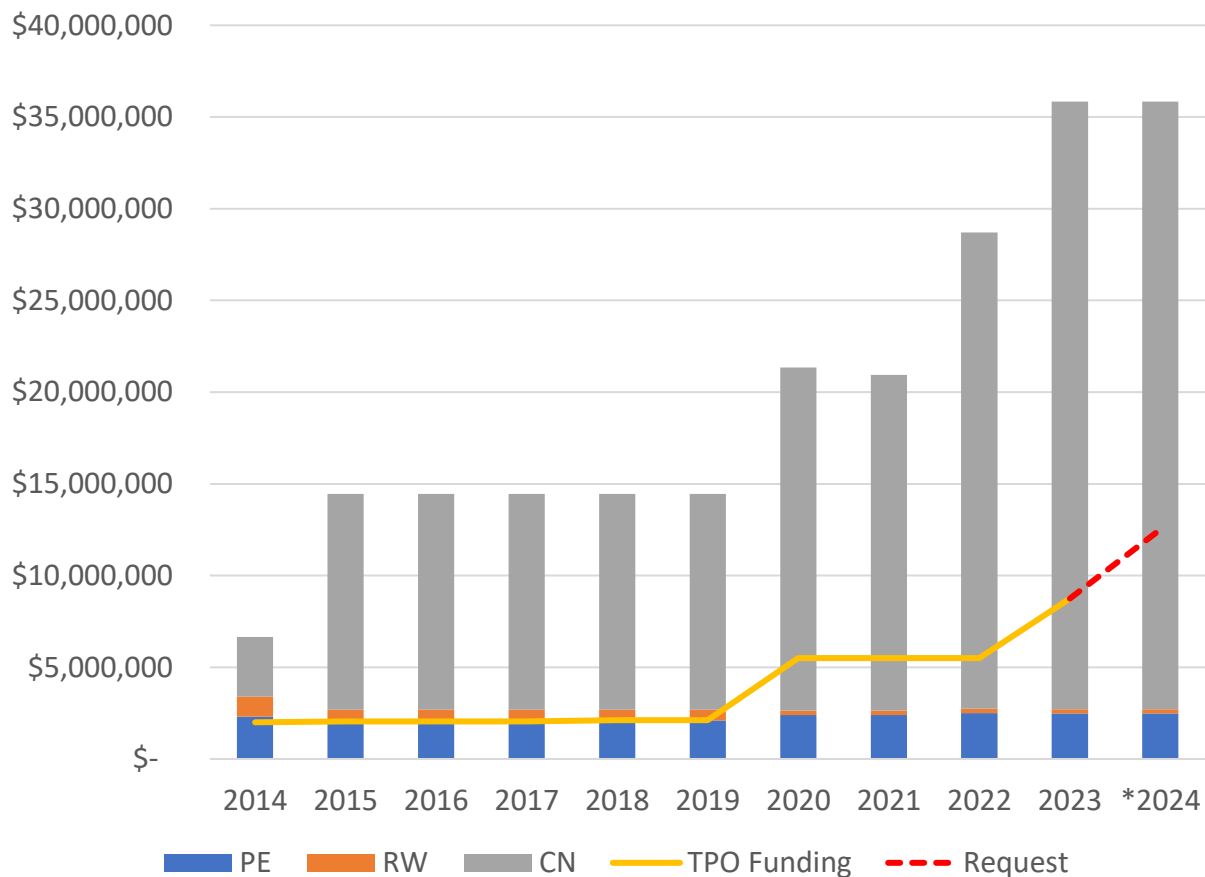
Request and Funding

Requested TPO Funding	\$1,600,000
Fiscal Year(s)	FY23, FY24, FY25
Request Share of Deficit	48.4%
Other Funds Sought	CVTA local
TPO Percent Increase	10.2%
Approval Authority	Policy Board

Staff Recommendation: Staff recognizes the significant local funding commitment to address the escalating cost of this project and appreciates the efforts to address this problem locally. Given the availability of local funds which have already been committed to this project and [adopted TPO policy](#), **staff recommends not funding this request.**

Commerce Rd Improvements (UPC 15958)

Project Funding & Estimate History



Previous Estimate (FY23 SYIP – Summer 2022)

Total Estimate	\$31,023,000
Total Funding	\$31,023,000
Total TPO Funding	\$8,746,277
TPO Share of Total Estimate	28.2%
TPO Share of Total Funding	28.2%

Updated Estimate and Deficit (Application)

New Estimate	\$35,847,000
Total Deficit (Estimate – Funding)	\$4,824,000
Explanation	Construction costs have increased as observed in the previous round of bidding, as well increasing costs due to inflation, rising material costs and rising labor costs. The City has found other funds

	to supplement the project, but a deficit of \$3.75M remains. The City has requested funding to cover the deficit in the current budget cycle, but nothing has been approved as yet. The Project has been bid once already. The City has sought authorization to readvertise. Environmental documentation is current and VDOT is holding authorization pending funding of the deficit.
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Request and Funding (Application)

Requested TPO Funding	\$3,770,000
Fiscal Year(s)	FY24, FY25
Request Share of Deficit	78.2%
Other Funds Sought	Local
TPO Percent Increase	43.1%
Approval Authority	Policy Board

Staff Recommendation: The RRTPO took midcycle action in 2021 to approve a transfer of more than \$3.2 million in response to bids received. The project was ultimately not awarded and is now scheduled for construction in the summer of 2023, subject to funding availability and reauthorization.

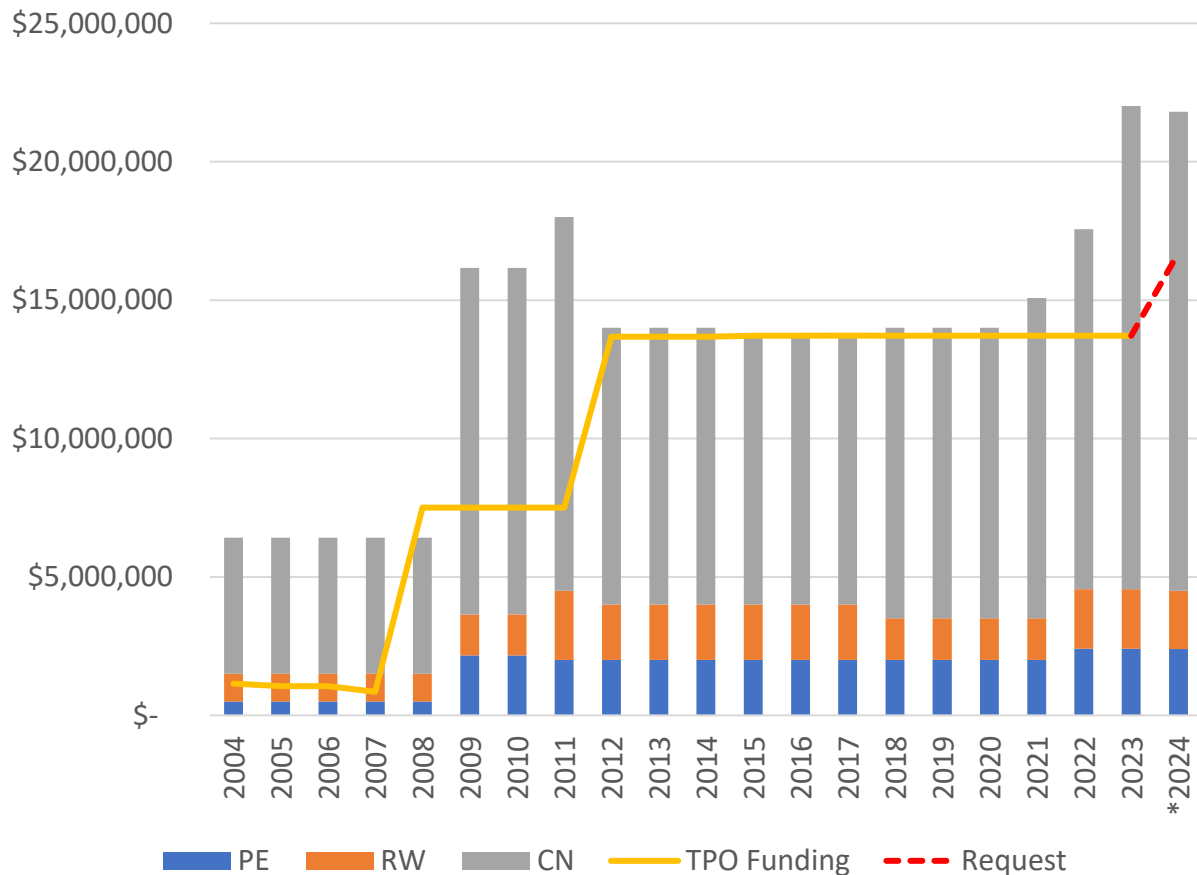
As discussed last year, this project has experienced rapid increases in cost over the past few years, well beyond the impact of inflation. Since FY2019, the project estimate has increased by more than \$21 million, a 148% increase in cost. The TPO has funded nearly half of this increase, increasing the regionally funded portion of the project from less than 15% to more than 24%. With the current request, the TPO share of the cost would increase further to 35%. Staff have significant concerns about continuing to increase the TPO share of a project that has grown well above the original estimate and where the sponsor has requested \$3M+ in additional funding in 3 of the past 5 cycles.

As the TPO has covered a disproportionate share of the recent increases, Staff recommend no additional TPO funding be awarded to this project.

If additional funding is awarded, staff recommend a partial award of \$1,360,025 to maintain the same cost share. Staff further recommend the funds be awarded contingent upon the project beginning delivery in FY25.

Jahnke Road – 2 Lane Improvements (UPC 19035)

Project Funding & Estimate History



Previous Estimate (FY23 Approved SYIP – Summer 2022)

Total Estimate	\$17,560,000
Total Funding	\$15,080,000
Total TPO Funding	\$13,712,178
TPO Share of Total Estimate	78.1%
TPO Share of Total Funding	90.9%

New Estimate and Deficit (Application)

New Estimate	\$21,800,000
Total Deficit (Estimate – Funding)	\$6,720,000
Explanation	CSXT railroad scope changes and negotiations for construction on their property. Additional utility conflict resolution caused by improper relocations by the owners, scope adjustments relating to required plan updates and/or due to

	State and City new engineering requirements. In addition, labor and material costs have increased due to unprecedented inflation. We have requested \$1 million in additional funding through the City's budget process. All major activities are complete with the exception of CSXT coordination. Final documents excluding those related to CSXT are in hand and under review or revisions. The design phase of the project is over 95% complete and we will be seeking CN authorization from VDOT once full funding of the project is secured.
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Request and Funding (Application)

Requested TPO Funding	\$3,000,000
Fiscal Year(s)	FY24, FY25
Request Share of Deficit	44.6%
Other Funds Sought	Local
TPO Percent Increase	21.9%
Approval Authority	Policy Board

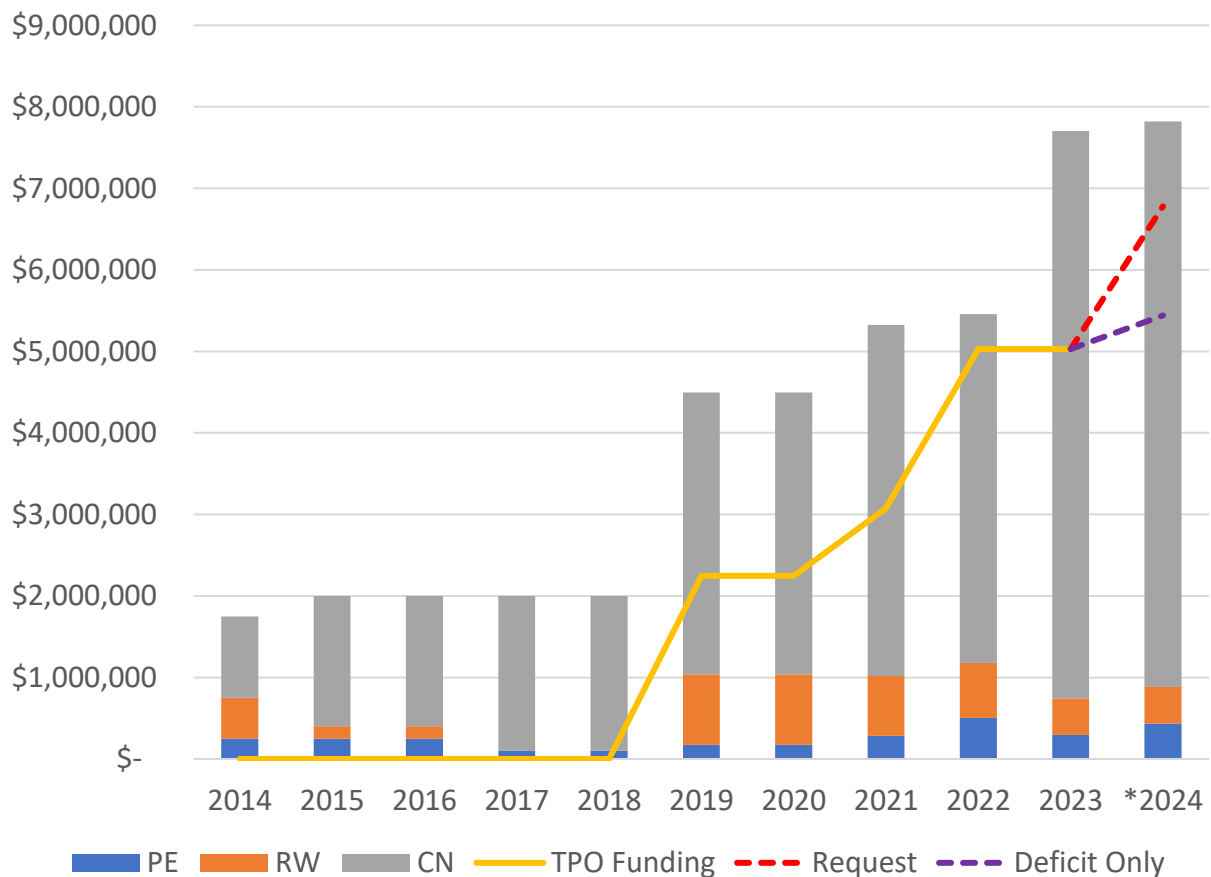
Staff Recommendation: As with the previous project above, staff have concerns about the timeline and uncertainty around this project. This project was previously advertised in FY19. At the time, the project was fully funded and was scheduled for completion in FY21. The project did not ultimately move to construction. Since that time, the estimate has increased by 56%.

The City of Richmond has found additional funding to cover a portion of the cost increase, however, the pending request would increase TPO funding on this project by another 22%. While this project has been largely TPO funded, TAC should consider the appropriateness of the TPO taking on additional costs for given the failure to deliver the project during the previous bid cycle. The estimate submitted in the application is below the revised six-year program estimate (\$22.016M), raising additional concerns about the ability to move this project to construction as scheduled.

Given the post-bid history, Staff recommend no additional TPO funding be awarded to this project. If additional funding is awarded, Staff recommend the funds be awarded contingent upon the project beginning delivery in FY24.

Deepwater Terminal Rd Project (UPC 104281)

Project Funding & Estimate History



Previous Estimate (FY23 SYIP – Summer 2022)

Total Estimate	\$5,458,000
Total Funding	\$7,411,000
Total TPO Funding	\$5,028,890
TPO Share of Total Estimate	92.1%
TPO Share of Total Funding	67.8%

New Estimate and Deficit (Application)

New Estimate	\$7,822,698
Total Deficit (Estimate – Funding)	\$411,698
Explanation	Inflation due to rising costs of materials and labor costs nationwide

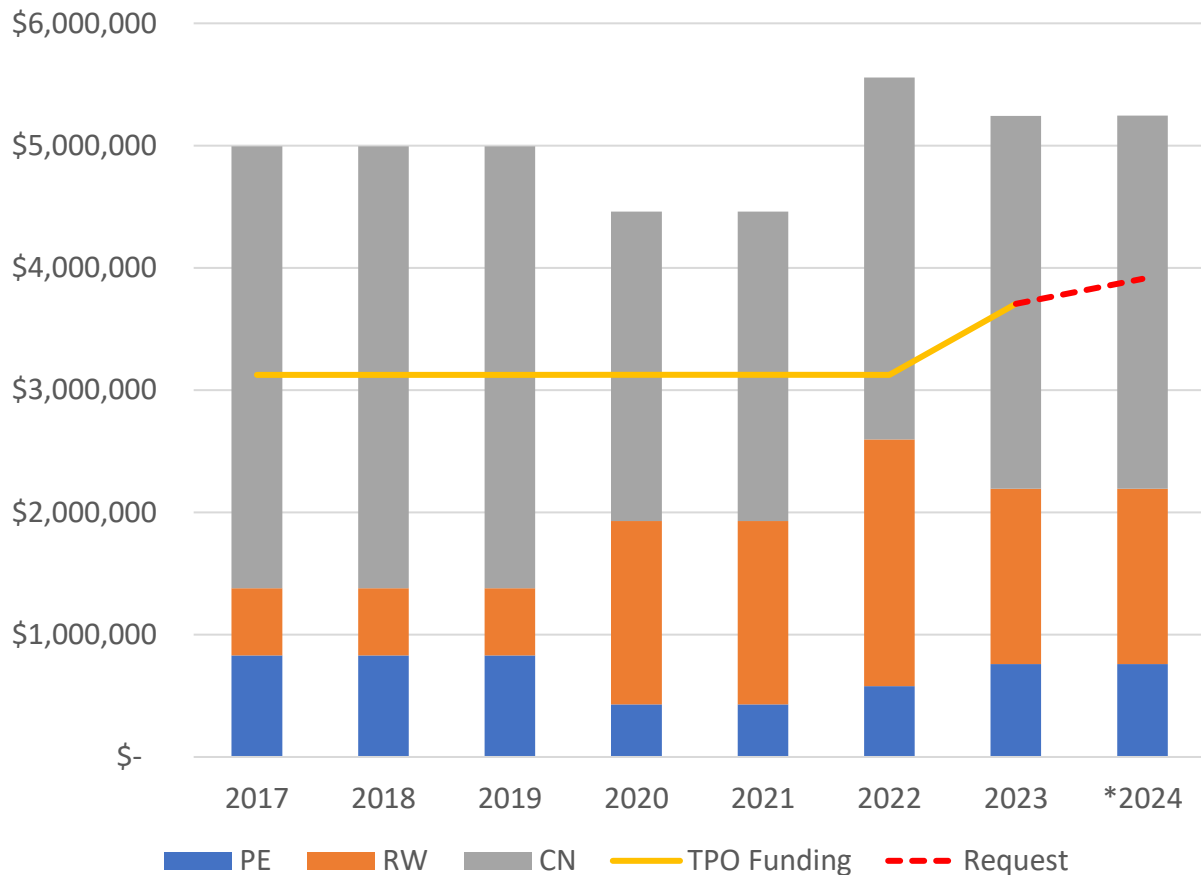
Request and Funding (Application)

Requested TPO Funding	\$1,750,000
Fiscal Year(s)	FY25, FY26
Request Share of Deficit	425.1%
Other Funds Sought	Local funds from City Council
TPO Percent Increase	34.8% (request)/8.2% (deficit)
Approval Authority	Policy Board / TAC

Staff Recommendation: This project has experienced minor cost increases over the past year, mostly attributable to inflation. Since selection, the TPO awarded funding has more than doubled at a rate faster than the increase in the project cost. The requested TPO funding exceeds the cost increase. The total deficit is estimated at \$412,000. As the balance is not needed until FY26, staff believes this can be addressed locally and does not support additional funding. **Staff recommends not funding this request.**

N. Parham Rd Traffic Signal and Sidewalk Project (UPC 109194)

Project Funding & Estimate History



Previous Estimate (FY23 SYIP – Summer 2022)

Total Estimate	\$5,244,536
Total Funding	\$5,621,014
Total TPO Funding	\$3,705,507
TPO Share of Total Estimate	70.7%
TPO Share of Total Funding	56.9%

New Estimate and Deficit (Application)

New Estimate	\$5,244,536
Total Deficit (Estimate – Funding)	\$0
Explanation	Locality is seeking to replace the remaining no-post/local commitment with RSTP funds

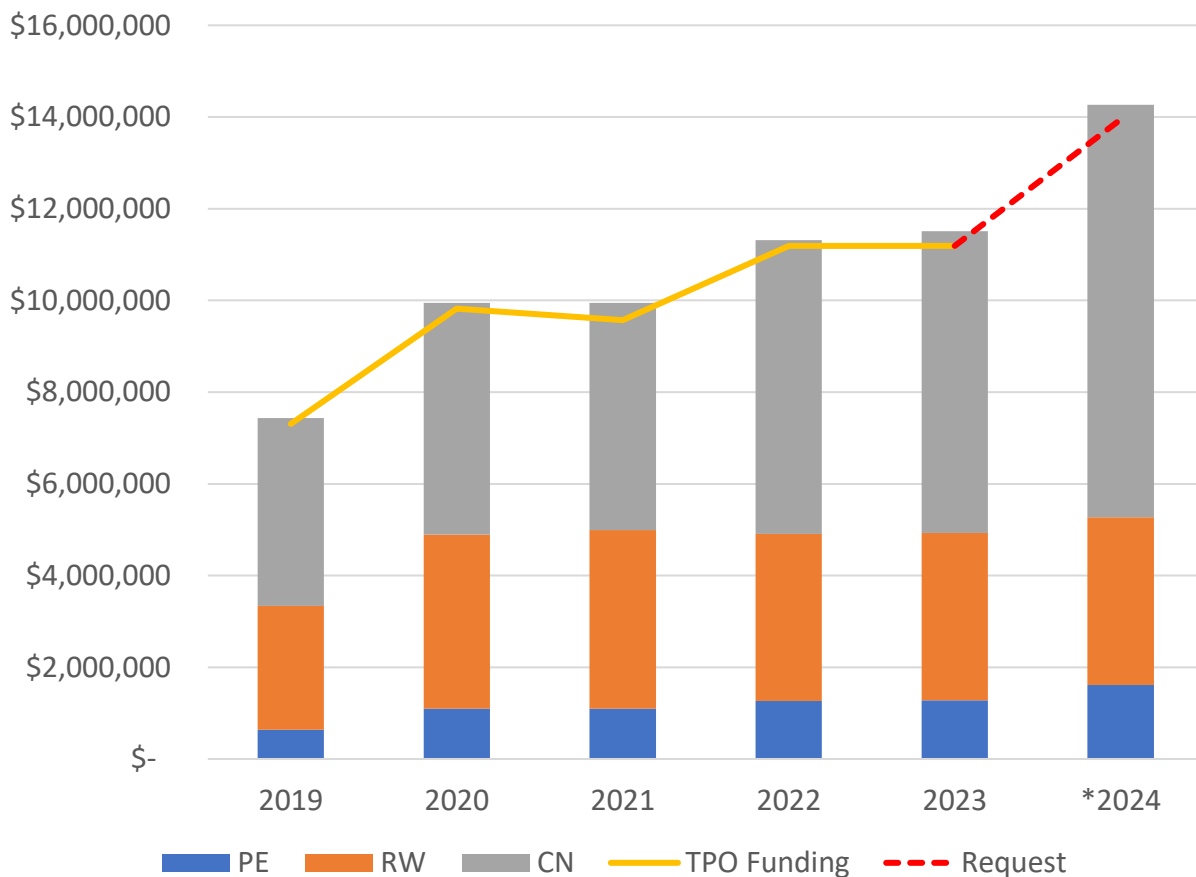
Request and Funding (Application)

Requested TPO Funding	\$204,029
Fiscal Year(s)	FY26
Request Share of Deficit	N/A
Other Funds Sought	N/A
TPO Percent Increase	5.5%
Approval Authority	TAC

Staff Recommendation: The TPO awarded over \$580,000 in additional funding to address cost increases on this project which were intended to replace the local commitment on the project at the time. This request is for another \$204,000 to replace additional local commitments/no-posts needed to advance the project with current increases in the estimate. Given the small amount and outyear for the need, **Staff recommends not funding this request.**

Route 1 Improvements: Ashcake Rd to Arbor Oak Dr (UPC 112042)

Project Funding & Estimate History



Previous Estimate (FY23 SYIP – Summer 2022)

Total Estimate	\$11,509,980
Total Funding	\$11,509,980
Total TPO Funding	\$11,185,253
TPO Share of Total Estimate	97.2%
TPO Share of Total Funding	97.2%

New Estimate and Deficit (Application)

New Estimate	\$14,269,086
Total Deficit (Estimate – Funding)	\$2,759,106
Explanation	Increased costs, in particular construction

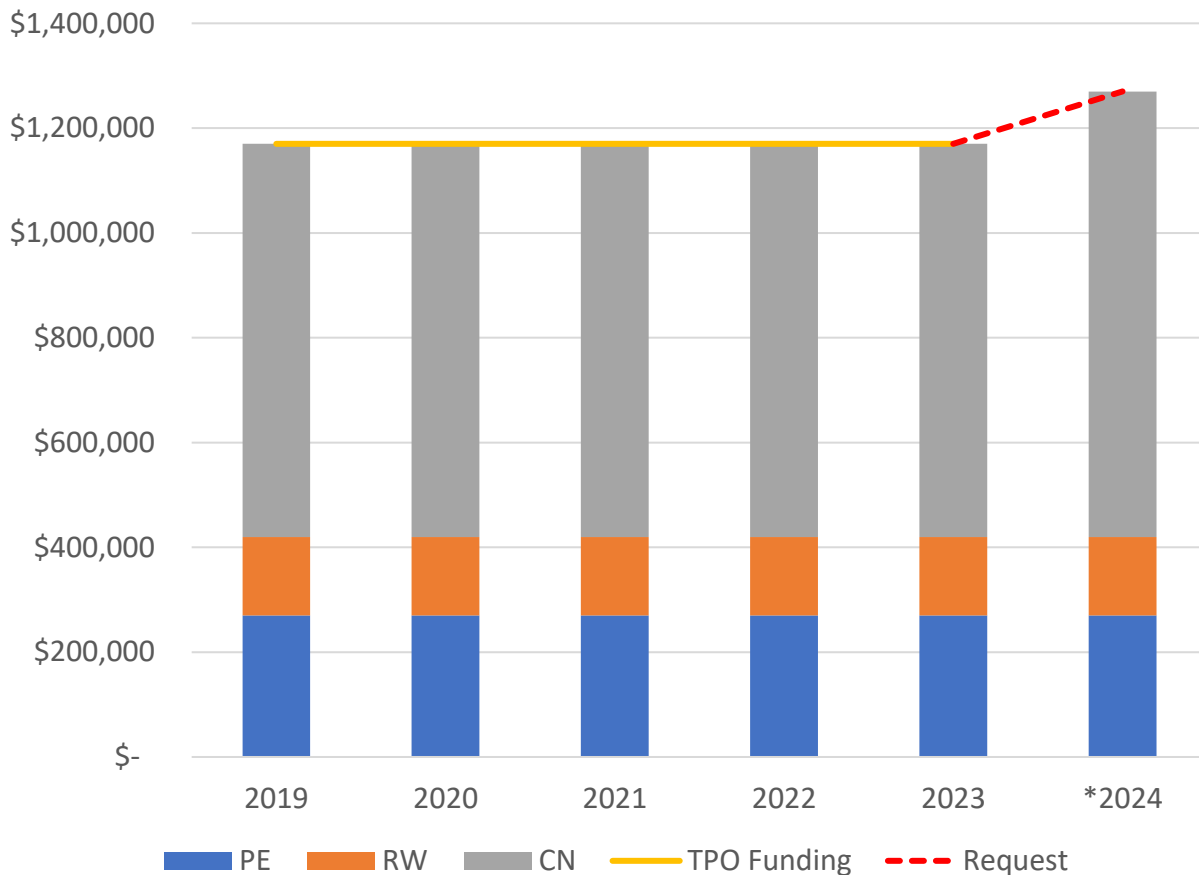
Request and Funding (Application)

Requested TPO Funding	\$2,759,106
Fiscal Year(s)	FY24
Request Share of Deficit	100%
Other Funds Sought	N/A
TPO Percent Increase	24.7%
Approval Authority	Policy Board

Staff Recommendation: This project has also experienced significant cost increases over the past few years and has nearly doubled in cost since selection. Unlike other projects, this project is nearly fully funded by the TPO and the locality's CVTA funding is not able to cover the costs. **Staff recommend additional funding be awarded as requested to advance this project.**

Early Settlers Rd (Robious Rd - Hospital/Park) Sidewalk (UPC 113846)

Project Funding & Estimate History



Previous Estimate (FY23 SYIP – Summer 2022)

Total Estimate	\$1,170,000
Total Funding	\$1,170,000
Total TPO Funding	\$1,170,000
TPO Share of Total Estimate	100%
TPO Share of Total Funding	100%

New Estimate and Deficit (Application)

New Estimate	\$1,270,000
Total Deficit (Estimate – Funding)	\$100,000
Explanation	Cost estimate updated to reflect current market

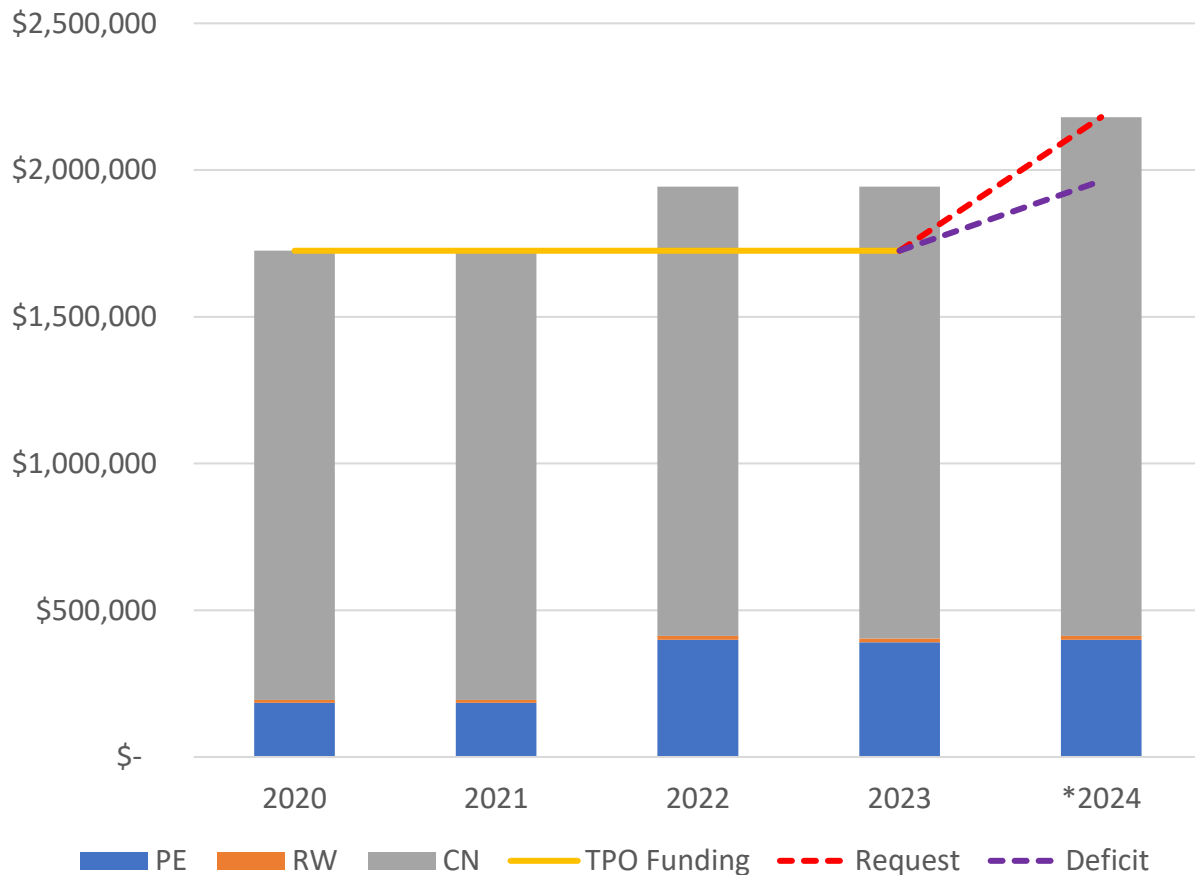
Request and Funding (Application)

Requested TPO Funding	\$100,000
Fiscal Year(s)	FY24
Request Share of Deficit	100%
Other Funds Sought	N/A
TPO Percent Increase	8.5%
Approval Authority	TAC

Staff Recommendation: The request for this project is small and the TPO has funded the full project to date. Consistent with the other recommendations above, staff believes locality funds are available to address this increase. **Staff recommends not funding this request.**

Libbie Avenue Road Diet (UPC 115769)

Project Funding & Estimate History



Previous Estimate (FY23 SYIP – Summer 2022)

Total Estimate	\$1,942,500
Total Funding	\$1,942,500
Total TPO Funding	\$1,725,000
TPO Share of Total Estimate	88.8%
TPO Share of Total Funding	88.8%

New Estimate and Deficit (Application)

New Estimate	\$2,180,500
Total Deficit (Estimate – Funding)	\$238,000
Explanation	Refined estimate reflecting current construction costs and covering No-Post Local funds.

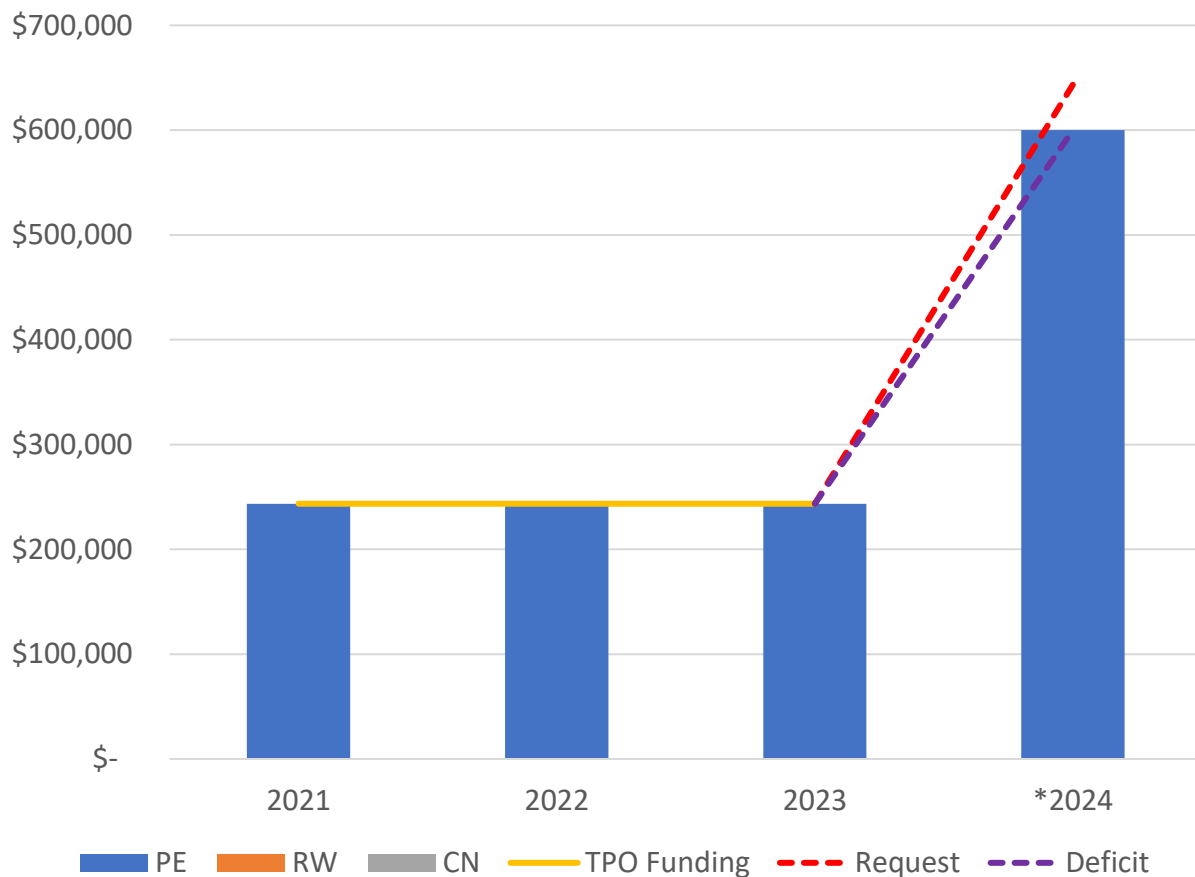
Request and Funding (Application)

Requested TPO Funding	\$483,500
Fiscal Year(s)	FY24, FY25
Request Share of Deficit	203.2%
Other Funds Sought	N/A
TPO Percent Increase	26.4% (request) / 13.8% (deficit)
Approval Authority	Policy Board

Staff Recommendation: This project has also been funded fully by the TPO with the locality putting in local funding/no post to keep the project moving forward. The sponsor has always intended to seek TPO funding for the full project. Given the relatively small deficit and future year of the need, staff believe this need can be met locally. **Staff recommend not funding this request.**

RRTPO Scenario Planning Pilot (UPC 118143)

Project Funding & Estimate History



Previous Estimate (FY23 SYIP – Summer 2022)

Total Estimate	\$243,550
Total Funding	\$243,550
Total TPO Funding	\$243,550
TPO Share of Total Estimate	100%
TPO Share of Total Funding	100%

New Estimate and Deficit (Application)

New Estimate	\$600,000
Total Deficit (Estimate – Funding)	\$356,450
Explanation	Project proposals returned higher than estimated; scope clarity

Request and Funding (Application)

Requested TPO Funding	\$400,000
Fiscal Year(s)	FY23
Request Share of Deficit	112.2%
Other Funds Sought	PlanRVA, CVTA
TPO Percent Increase	164.2% (request) / 146.4% (deficit)
Approval Authority	Policy Board

Staff Recommendation: The RRTPO does not have access to CVTA funding to address this cost increase and the PDC and CVTA operating budgets do not support the additional cost. The Scenario Planning Pilot is a precursor to the next Long-Range Transportation Plan. Given the lack of other potential funding sources, staff believe it is reasonable to apply additional STBG funding to this deficit while recognizing the significant increase in cost. **Staff recommend funding the request.**

TAC AGENDA 2/14/23; ITEM #13.

REGIONAL CONFORMITY ASSESSMENT PROJECT LIST

Richmond Regional Transportation Planning Organization

REQUESTED ACTION: Review the draft list of projects from the FY24 – FY27 Transportation Improvement Program and ConnectRVA 2045 for air quality conformity analysis and provide a recommendation to the policy board.

BACKGROUND: As part of the FY24 – FY27 TIP development, the Richmond-Petersburg Area is required to demonstrate conformity under the Clean Air Act (CAA). While in attainment for all current emissions standards, the region was a nonattainment area, and later a maintenance area, for the 1997 8-hour ozone standard. In 2018, the D.C. Circuit Court issued a decision in South Coast Air Quality Management District v. EPA which requires all nonattainment or maintenance areas under the 1997 standards to demonstrate conformity for the LRTP and the TIP, even when in attainment under the more stringent 2015 standards. The constrained list of projects in the ConnectRVA 2045 plan along with the ungrouped projects in the draft FY24-27 TIP that are located within the former 8-hour ozone maintenance area will constitute the RRTPO set of projects for this analysis. Staff is finalizing review of the project list with VDOT and DRPT; the attached list may be updated for the meeting.

The interagency consultation meeting is scheduled to take place before the March 14, 2023, TAC meeting. To accommodate the STIP development schedule, the proposed resolution would also authorize the TAC to review the conformity report and draft TIP and open public comment on both documents. The public review period is scheduled to run concurrently for both reports.

TAC ACTION REQUESTED: The following resolution is presented to TAC consideration and recommendation to the policy board:

RESOLVED, that the Richmond Regional Transportation Planning Organization policy board approves the attached list of ungrouped projects from the draft FY24 – FY27 Transportation Improvement Program and ConnectRVA 2045 as the universe of RRTPO projects for air quality conformity analysis as required by federal regulations (23 CFR § 450.326).

FURTHER RESOLVED, that the RRTPO policy board authorizes the TAC to review and open public comment on the draft FY24 – FY27 TIP and Regional Conformity Assessment at the March 14, 2023, meeting.

Attachment

SN	MPO	Jurisdiction	UPC	Description/Facility/Location	From	To	Improvement Type	Exist. Lanes	Prop. Lanes	Functional Class	Anticipated Opening Year	2024-27 TIP	2045 CLRP	Reg Sig for AQ?
	RRTPO	Ashland		I-95 & VA-54 - Connection SB I-95 off-ramp to Hill Carter Pkwy			Interchange Improvement			Interstate	2027		X	Yes
	RRTPO	Ashland		I-95 & VA-54 - Conversion of the interchange to a Diverging Diamond (DDI) (Exit 92)			Interchange Improvement			Interstate	2033		X	Yes
	RRTPO	Ashland		VA-54 - Widening with added capacity	Frances Rd	East Corporate Limits	Widening	2	4	Urban Minor Arterial	2027		X	Yes
	RRTPO	Ashland		US-1 - Widening with added capacity	US-54	Archie Cannon Dr	Widening	4	5	Urban Minor Arterial	2039		X	Yes
	RRTPO	Ashland		US-1 - Widening with added capacity	Ashcake Rd	Southern Town Limits	Widening	4	6	Urban Minor Arterial	2045		X	Yes
	RRTPO	Chesterfield		VA-76 (Powhite Pkwy Ext) - Powhite Parkway Extension Phase 1. Little Tomahawk Creek to Woolridge Rd (2 to 4 lanes), Charter Colony Pkwy (Grade-Separation), Brandermill Pkwy(Overpass)	Little Tomahawk Creek	Woolridge Rd	New Road	0	2	Future Urban Expressway	2027		X	Yes
	RRTPO	Chesterfield		VA-76 (Powhite Pkwy Ext) - Powhite Parkway Extension Phase 2. Woolridge Rd to Genito Rd (0-2 Lanes), Otterdale Rd overpass, at-grade Genito Rd intersection. Genito Rd Magnolia Green Pkwy (0 to 2 lanes), at-grade Magnolia Green Pkwy intersection	Woolridge Rd	Magnolia Green Pkwy	New Road	0	2	Future Urban Expressway	2027		X	Yes
	RRTPO	Chesterfield	112974	RTE 668 (WOOLRIDGE ROAD, RT 288-OLD HUNDRED ROAD) EXTENSION	0.299 MI South of Rte 652	0.435 MI North of Rte 288	New Road	0	4	Future Urban Minor Arterial	2025	X	X	Yes
	RRTPO	Chesterfield	111467	#SMART18 - SB Rt 288 to WB US 360 WB Off-Ramp	0.046 MI. N of Route 360 (Hull Street Rd.)	1.135 MI. N. of Route 360 (Hull Street Rd.)	Interchange Improvements			Interstate	2025	X	X	Yes
	RRTPO	Chesterfield		I-95 - Widening with added capacity	Exit 62 (VA-288)	Exit 64 (Willis Rd)	Widening	6	8	Interstate	2027		X	Yes
	RRTPO	Chesterfield		1-95 & VA-10 - Construction of a new Partial Cloverleaf Interchange (Exit 61) Reconfigure interchange ramps to accommodate the partial cloverleaf configuration: Eliminate southbound 1-95 to eastbound Route 10 off-ramp, Eliminate northbound 1-95 to westbound Route 10 off-ramp, Realign westbound Route 10 to northbound 1-95 on-ramp			Interchange Improvement			Interstate	2045		X	Yes
	RRTPO	Chesterfield		I-95 & Willis Rd - Construction of a new Double Roundabout Interchange (Exit 64)			Interchange Improvement			Interstate	2045		X	Yes
	RRTPO	Chesterfield	111713	#SMART18 - BBC Ph 1 - Bailey Br Conn., Brad McNeer Conn.	BRAD MC NEER PKWY	BAILEY BRIDGE ROAD	Interchange Improvements			Urban Expressway	2027	X	X	Yes
	RRTPO	Chesterfield		VA-150 & Dalebrook Dr - Elimination of On and Off-Ramps			Interchange Improvement			Urban Expressway	2027		X	Yes
	RRTPO	Chesterfield		VA-150 & Dalebrook Dr - Elimination of On and Off-Ramps			Interchange Improvement			Urban Expressway	2027		X	Yes
	RRTPO	Chesterfield		VA-150 & Strathmore Rd - Elimination of On and Off-Ramps			Interchange Improvement			Urban Expressway	2027		X	Yes
	RRTPO	Chesterfield		VA-150 & Strathmore Rd - Elimination of On and Off-Ramps			Interchange Improvement			Urban Expressway	2033		X	Yes
	RRTPO	Chesterfield		VA-150 & Hopkins Rd - Construction of a diverging diamond interchange			Interchange Improvement			Urban Expressway	2039		X	Yes
	RRTPO	Chesterfield		VA-150 & US-360 - Removal of SE, NE loops and signalization of NB ramp terminal			Interchange Improvement			Urban Expressway	2039		X	Yes
	RRTPO	Chesterfield		VA-150 & US-60 - Construction of a Partial Cloverleaf Interchange with contraflow left turns			Interchange Improvement			Urban Expressway	2039		X	Yes
	RRTPO	Chesterfield		VA-288 - Widening with added capacity	VA-76 (Powhite Pkwy)	US-360	Widening	4	6	Urban Expressway	2039		X	Yes
	RRTPO	Chesterfield		VA-150 & US-1 - Reconfiguration of the interchange to partial cloverleaf			Interchange Improvement			Urban Expressway	2045		X	Yes
	RRTPO	Chesterfield		VA-288 & US-360 - 1) Construction of Route 288 NB Flyover Ramp (1 lane) widening to 2 lanes at partial Diverging Diamond Interchange (DDI), 2) Reconstruction of SB on-ramp, 3) Realignment and widening of SB off-ramp to 2 lanes before DDI, 4) Roundabouts: Bailey Bridge Connector at Commonwealth Centre Connector (2 lane), Commonwealth Centre Connector at Commonwealth Centre Parkway (1 lane), 5) Cul-de-sac Commonwealth Centre Parkway			Interchange Improvement			Urban Expressway	2045		X	Yes
	RRTPO	Chesterfield		Old Hundred Road - Widening with added capacity	US-60	Mt Hermon Rd	Widening	2	4	Urban Minor Arterial	2027		X	Yes
	RRTPO	Chesterfield	107083	RTE 621 (WINTERPOCK, 360-ROYAL BIRKDALE) - MAJOR WIDENING	1.435 MI S INT RTE 360 (HULL STREET ROAD)	RTE 360 (HULL STREET ROAD)	Widening	2	4	Urban Minor Arterial	2027		X	Yes
	RRTPO	Chesterfield		Otterdale Rd - Widening with added capacity	US-360	Woolridge Rd	Widening	2	4	Urban Minor Arterial	2027		X	Yes
	RRTPO	Chesterfield	101020	#HB2.FY17 RTE 10 (BERMUDA TRIANGLE RD TO MEADOWVILLE RD)	1.73 mi. W of Rte. 618 (OLD BERMUDA HUNDRED RD)	0.27 mi. E of Rte. 618 (OLD BERMUDA HUNDRED ROAD)	Widening	4	6	Urban Principal Arterial	2022	X		Yes
	RRTPO	Chesterfield	102952	RTE 10 (I-95 - Rt 1) - WIDENING	0.087 MI W RTE 1(JEFF DAVIS HWY)	0.507 MI E RTE 1 (JEFF DAVIS HWY)	Widening	4	6	Urban Principal Arterial	2020	X		Yes
	RRTPO	Chesterfield	104889	RT 10 (Whitepine to Frith) WIDENING	0.787 MI N. of Rte. 288	1.110 MI S. of Rte. 288	Widening	4	6	Urban Principal Arterial	2022	X	X	Yes

SN	MPO	Jurisdiction	UPC	Description/Facility/Location	From	To	Improvement Type	Exist. Lanes	Prop. Lanes	Functional Class	Anticipated Opening Year	2024-27 TIP	2045 CLRP	Reg Sig for AQ?
	RRTPO	Chesterfield	104890	RTE 360 E (Lonas Pkwy to Castle Rock Rd) - WIDENING	0.190 Miles West of Bridgewood Rd.	0.029 Miles East of Castle Rock Rd.	Widening	5	6	Urban Principal Arterial	2022	X	X	Yes
	RRTPO	Chesterfield		US-360 - Widening with added capacity	E. of Cosby Rd	Magnolia Green Pkwy	Widening	4	6	Urban Principal Arterial	2045		X	Yes
	RRTPO	Chesterfield/Richmond		I-95 - Construction of an SB auxiliary lane between Exit 67 (VA-150) and Exit 69 (Bells Rd)	Exit 67 (VA-150)	Exit 69 (Bells Rd)	Auxiliary Lane			Interstate	2039		X	Yes
	RRTPO	Hanover		I-295 & Creighton Rd - Widening of the NB VA- 288 Off- Ramp to Two Lanes.	I-295 NB	Creighton Rd NB	Interchange Improvement			Interstate	2027		X	Yes
	RRTPO	Hanover	104957	#HB2.FY17 RTE 656 - SLIDING HILL ROAD CORRIDOR	0.35 MI W RTE 1265 (TOTOPOTOMOY TRAIL)	0.676 MI E RTE 1265 (TOTOPOTOMOY TRAIL)	Widening	2	4	Urban Minor Arterial	2020	X		Yes
	RRTPO	Hanover	109260	POLE GREEN RD WIDENING	Bell Creek Road	Rural Point Road	Widening	2	4	Urban Minor Arterial	2029	X	X	Yes
	RRTPO	Hanover		Pouncey Tract Rd - Widening with added capacity (0.25 mi)	Henrico Co. Line	Ashland Rd	Widening	2	4	Urban Minor Arterial	2027		X	Yes
	RRTPO	Hanover		US-33 - Widening with added capacity (1.3 mi)	Overhill Lake Ln	Winns Church Rd	Widening	2	4	Urban Minor Arterial	2033		X	Yes
	RRTPO	Hanover		Creighton Rd - Widening with added capacity (1.1mi)	I-295	Cold Harbor Rd	Widening	2	4	Urban Minor Arterial	2033		X	Yes
	RRTPO	Hanover		Meadowbridge Rd - Widening with added capacity (1.35 mi)	Henrico Co. Line	Atlee Rd	Widening	2	4	Urban Minor Arterial	2033		X	Yes
	RRTPO	Hanover		Rural Point Rd - Widening with added capacity (2.1 mi)	Studley Rd	Pole Green Rd	Widening	2	4	Urban Minor Arterial	2039		X	Yes
	RRTPO	Hanover		US-33 - Widening with added capacity (2.4 mi)	Winns Church Rd	Ashland Rd	Widening	2	4	Urban Minor Arterial	2039		X	Yes
	RRTPO	Hanover		Ashland Rd - Widening with added capacity (2.65 mi)	US-33	Blanton Rd	Widening	2	4	Urban Minor Arterial	2039		X	Yes
	RRTPO	Hanover		New Ashcake Rd - Construction of a new 2-lane road (1.75 mi)	New Ashcake Rd	Air Park Rd	New Road	0	2	Urban Minor Arterial	2039		X	Yes
	RRTPO	Hanover		Pole Green Rd - Widening with added capacity (1.85 mi)	Rural Point Rd	Walnut Grove Rd	Widening	2	4	Urban Minor Arterial	2039		X	Yes
	RRTPO	Hanover		Pole Green Rd - Widening with added capacity (2.15 mi)	Walnut Grove Rd	US-360	Widening	2	4	Urban Minor Arterial	2039		X	Yes
	RRTPO	Hanover		Rural Point Rd - Widening with added capacity (2.6 mi)	US-301	Studley Rd	Widening	2	4	Urban Minor Arterial	2045		X	Yes
	RRTPO	Hanover		Ashland Rd - Widening with added capacity (3.7 mi)	Henrico Co. Line	US-33	Widening	2	4	Urban Minor Arterial	2045		X	Yes
	RRTPO	Hanover/Henrico		I-295 - Construction of a SB auxiliary lane between the existing lane drop on I-295 SB and Chamberlayne Rd (Exit 41) off ramp (0.4mi)	I-95 Southbound Branch	Chamberlayne Rd (Exit- 41) off ramp	Auxiliary Lane			Interstate	2027		X	Yes
		Henrico		Magellan Parkway Bridge and Approach Section	Park Central Dr	I-95	New Bridge	0	2	Future Urban Minor Arterial	2025	X		Yes
	RRTPO	Henrico		Magellan Pkwy Extension Phase 3 (East of I-95)	Park Central Dr	Green City	New Road	0	2	Future Urban Minor Arterial	2024	X	X	Yes
	RRTPO	Henrico		Magellan Pkwy Extension Phase 1 (Retreat @ One)	I-95	US-1	New Road	0	2	Future Urban Minor Arterial	2027		X	Yes
	RRTPO	Henrico	107458	#HB2.FY17 RTE 64 - MAJOR WIDENING	RTE 295	EXIT 205 (BOTTOM'S BR)	Widening	4	6	Interstate	2019	X		Yes
	RRTPO	Henrico	120374	#I64CIP - I-64WB EXIT 181 IMPROVE INTERCHANGE CONFIGURATION	MM 181	MM 181	Interchange Improvements			Interstate	2027	X		Yes
	RRTPO	Henrico	120380	#I64CIP - I-64 E/WB - BROAD STREET - SHORT PUMP BUS SERVICE			Public Transportation			Interstate	2027	X		Yes
	RRTPO	Henrico	120384	#I64CIP - I-64 INCREASE BUS FREQUENCY- RTE7 / NINE MILE ROAD			Public Transportation			Interstate	2027	X		Yes
	RRTPO	Henrico		I-295 - Widening of the cross-section between I-295 SB deceleration and Exit 43 (Brook Rd) to a two-lane section (0.5mi)	I-295 SB deceleration lane	Exit 43 C	Interchange Improvement			Interstate	2027		X	Yes
	RRTPO	Henrico		I-295 - Construction of a single northbound auxiliary lane between the onramp from Nuckols Road SB (Exit 51) on-ramp and I-295 NB and I-64 Branch	Nuckols Rd (Exit 51)	Western Terminus	Auxiliary Lane			Interstate	2033		X	Yes
	RRTPO	Henrico		I-295 - Widening to a two-lane section from I-95 SB on ramp onto I-295(Exit 43) NB to end of C-D lane (0.5 mi)	I-95 SB on ramp	Exit 43 C	Interchange Improvement			Interstate	2033		X	Yes
	RRTPO	Henrico		I-64 - Construction of an auxiliary lane between Exit 180 (Gaskins Rd) and Exit 181 (Parham Rd)	Exit 180	Exit 181	Auxiliary Lane			Interstate	2033		X	Yes
	RRTPO	Henrico		I-64 - Construction of an auxiliary lane between Exit 183 (US 250) and Exit 185 (US-33)	Exit 183	Exit 185	Auxiliary Lane			Interstate	2033		X	Yes
	RRTPO	Henrico		I-64 - Construction of an auxiliary lane between Exit 183 (US 250) and Exit 185 (US-33)	Exit 183	Exit 185	Auxiliary Lane			Interstate	2033		X	Yes
	RRTPO	Henrico		I-64 & US-33 - Addition of a southbound through lane on Staples Mill Road between I-64 west on-ramp and I-64 east on-ramp. New two-phase signal at a widened, 2 lanes to 3 lanes, I-64 off ramp to limit SB weaving. Intersection improvements include added capacity at the US-33 and Bethlehem Rd intersection via additional turn bays and an RCUT/directional median at Millstone Rd			Interchange Improvement			Interstate	2033		X	Yes
	RRTPO	Henrico		I-64 - Construction of an auxiliary lane between Exit 181 (Parham Rd) and Exit 183 (US-250)	Exit 181	Exit 183	Auxiliary Lane			Interstate	2039		X	Yes
	RRTPO	Henrico		I-64 & Parham Rd - Improvement of Interchange Configuration. Widening EB ramp terminal to include dual right turn lanes			Interchange Improvement			Interstate	2039		X	Yes
	RRTPO	Henrico		I-95 & Parham Rd - Construction of a new Partial Cloverleaf Interchange (Exit 83). Improve interchange configuration at Parham Road to remove weaving movements.			Interchange Improvement			Interstate	2039		X	Yes
	RRTPO	Henrico		I- 64 & N. Gayton Rd - Construction of a new Interchange at I-64 in Short Pumo			New Interchange			Interstate	2045		X	Yes

SN	MPO	Jurisdiction	UPC	Description/Facility/Location	From	To	Improvement Type	Exist. Lanes	Prop. Lanes	Functional Class	Anticipated Opening Year	2024-27 TIP	2045 CLRP	Reg Sig for AQ?
	RRTPO	Henrico		1-64 - Construction of an EB & WB auxiliary lane between Exit 178 (US-250) and Exit 180 (Gaskins Rd). Reconstruction of Cox Rd Bridge. Widening of EB US-250 (W Broad Street/US Short Pump) to EB 1-64 ramp to two lane.	Exit 178	Exit 180	Auxiliary Lane			Interstate	2045		X	Yes
	RRTPO	Henrico		1-64 & Gaskins Rd - Improvement of Interchange Configuration. Convert Interchange to Partial-Cloverleaf. Removal of eastbound 1-64 off-ramp to northbound Gaskins Road loop ramp and the westbound 1-64 off-ramp to southbound Gaskins Road loop ramp. Allow left turn movements from the remaining eastbound and westbound I-64 off-ramps by installing left turn lanes and signalized ramp terminals.			Interchange Improvement			Interstate	2045		X	Yes
	RRTPO	Henrico	50529	RTE 9999 (THREE CHOPT ROAD) WIDEN TO 4 LANES	1.076 MI W INT. COX ROAD	0.241 MI E INT. GASKINS ROAD	Widening	2	4	Urban Minor Arterial	2026	X	X	Yes
	RRTPO	Henrico	60933	RTE 9999 - DABBS HOUSE RD; RECONSTRUCTION	INT. DABBS HOUSE ROAD AND NINE MILE ROAD	0.075 MI. N OF INT. DABBS HOUSE RD & E RICHMOND RD	Widening	2	4	Urban Minor Arterial	2022	X		Yes
	RRTPO	Henrico	111716	#SMART18 - RICHMOND-HENRICO TURNPIKE -- SOUTH SGMT	LABURNUM AVENUE	HUMMINGBIRD RD	Widening	2	4	Urban Minor Arterial	2025	X	X	Yes
	RRTPO	Henrico		Springfield Rd - Widening with added capacity and pedestrian accommodations	Staples Mill Rd	Francistown Rd	Widening	2	4	Urban Minor Arterial	2027		X	Yes
	RRTPO	Henrico		Woodman Rd - Widening with added capacity and pedestrian accommodations	Hermitage Rd	Hilliard Rd	Widening	2	4	Urban Minor Arterial	2027		X	Yes
	RRTPO	Henrico		Pouncey Tract Rd - Widening with added capacity (to include center turnlane, two through lanes each direction) and bike/ped facilities	Nuckols Rd	Grey Oaks Park Dr	Widening	2	5	Urban Minor Arterial	2033		X	Yes
	RRTPO	Henrico		Pump Rd - Widening with added capacity and pedestrian accommodations	Walbrook Rd	Waltham Dr	Widening	2	4	Urban Minor Arterial	2033		X	Yes
	RRTPO	Henrico		Three Chopt Rd - Widening with added capacity and pedestrian accommodations	Skipwith Rd	Horsepen Rd	Widening	2	4	Urban Minor Arterial	2033		X	Yes
	RRTPO	Henrico		Charles City Rd - Widening with added capacity	Laburnum Ave	Monahan Rd	Widening	2	4	Urban Minor Arterial	2033		X	Yes
	RRTPO	Henrico		Creighton Rd - Widening with added capacity and bike/ped facilities	Sandy Ln	City Limits	Widening	2	3	Urban Minor Arterial	2033		X	Yes
	RRTPO	Henrico		Darbytown Rd - Widening with added capacity and pedestrian accommodations	S Laburnum Ave	Doran Rd	Widening	2	4	Urban Minor Arterial	2033		X	Yes
	RRTPO	Henrico		Lauderdale Dr - Widening with added capacity and bike/ped facilities	Westbriar Dr	Eadenbury Dr	Widening	2	4	Urban Minor Arterial	2033		X	Yes
	RRTPO	Henrico		Masonic Ln/Brittles Ln - Widening with added capacity and bike/ped facilities	Nine Mile Rd	Williamsburg Rd	Widening	2	4	Urban Minor Arterial	2033		X	Yes
	RRTPO	Henrico		Nuckols Rd - Widening with added capacity and pedestrian accommodations	Shady Grove Rd	Springfield Rd	Widening	4	6	Urban Minor Arterial	2033		X	Yes
	RRTPO	Henrico		Pouncey Tract Rd - Widening with added capacity and pedestrian accommodations	US-250	N. Gayton Rd	Widening	2	4	Urban Minor Arterial	2033		X	Yes
	RRTPO	Henrico		Pouncey Tract Rd - Widening with added capacity and pedestrian accommodations	Grey Oaks Park Dr	N. Gayton Rd	Widening	2	4	Urban Minor Arterial	2033		X	Yes
	RRTPO	Henrico		River Road - Widening with added capacity and pedestrian accommodations	Sleepy Hollow Rd	E/O VA-150	Widening	2	4	Urban Minor Arterial	2039		X	Yes
	RRTPO	Henrico		Springfield Rd - Construction of a new two-lane road with bike/ped facilities	Francistown Rd	Olde Millbrooke Way	New Road	0	2	Urban Minor Arterial	2039		X	Yes
	RRTPO	Henrico		Three Chopt Rd - Widening with added capacity and pedestrian accommodations	Gaskins Rd	N Parham Rd	Widening	2	4	Urban Minor Arterial	2039		X	Yes
	RRTPO	Henrico		Charles City Rd - Widening with added capacity	Williamsburg Rd	Eastport Blvd	Widening	2	4	Urban Minor Arterial	2039		X	Yes
	RRTPO	Henrico		Church Rd - Widening with added capacity and bike/ped facilities	Three Chopt Rd	John Rolfe Pkwy	Widening	2	4	Urban Minor Arterial	2039		X	Yes
	RRTPO	Henrico		Creighton Rd - Widening with added capacity and bike/ped facilities	Cedar Fork Rd	Hanover County Line	Widening	2	4	Urban Minor Arterial	2039		X	Yes
	RRTPO	Henrico		Richmond Henrico Tpk - Widening with added capacity and bike/ped facilities	Hanover County Line	Railroad Crossing	Widening	2	4	Urban Minor Arterial	2045		X	Yes
	RRTPO	Henrico		Woodman Rd - Widening with added capacity and pedestrian accommodations	Mountain Rd	Hungary Rd	Widening	2	4	Urban Minor Arterial	2045		X	Yes
	RRTPO	Henrico		S Airport Dr - Widening with added capacity and bike/ped facilities	Audubon Dr	Williamsburg Rd	Widening	4	6	Urban Principal Arterial	2027		X	Yes
	RRTPO	Henrico/Richmond		1-64 - Construction of an auxiliary lane between Exit 185 (US 33) and Exit 186 (I-195)	Exit 185	Exit 186	Auxiliary Lane			Interstate	2027		X	Yes
	RRTPO	Multi-jurisdictional: Richmond MPO	120381	#164CIP - E/WB EXPRESS BUS ROUTE-22x SHORT PUMP TO DOWNTOWN			Public Transportation			Interstate	2027	X		Yes
	RRTPO	Richmond	104281	DEEPWATER TERMINAL RD - EXTEND EXISTING ROADWAY	END EXISTING DEEPWATER TERMINAL	GOODES ST	New Road	0	2	Future Urban Minor Arterial	2027		X	Yes
	RRTPO	Richmond	108649	RTE 5 (MAIN STREET) - NEW ROAD	HENRICO COUNTY LINE	0.75 MI N HENRICO COUNTY LINE	New Road	0	2	Future Urban Minor Arterial	2027		X	Yes

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	RRTPO	Richmond		I-95 & VA-161 - Conversion of SB I-95 off-ramp at VA-161 (Exit 78) to two lanes. Removal of one lane from SB I-95 prior to on-ramp from EB I-64. Merge 3 lanes to 2 before on- ramp from I-64. Convert off-ramp to Boulevard (VA-161) to 2 lanes (I choose lane).			Interchange Improvement			Interstate	2027		X	Yes
	RRTPO	Richmond		I-95 & Belvidere St - Improvement of interchange configuration at Belvidere St/Chamberlayne Ave (Exit 76). Construct C-D Road from Exit 76 to Exit 75.Construct SPUI (single Point Urban Interchange) at Belvidere Street and remove the northbound off-ramp to Chamberlayne Avenue.			Interchange Improvement			Interstate	2039		X	Yes
	RRTPO	Richmond		I-95 & I-64 - Improvement of interchange configuration with I-64 to improve the SB I-95 to WB I-64 ramp (Exit 79). Merge 3 lanes to 2 after on-ramp from Laburnum. 2-lane on-ramp from SB I-95.Convert WB I-64 on-ramp from SB I-95 to two lanes. Remove one lane from WB I-64 prior to on-ramp.			Interchange Improvement			Interstate	2039		X	Yes
	RRTPO	Richmond		Walmsley Blvd - Construction of a new 2-lane road	US-1	Commerce Road	New Road	0	2	Urban Minor Arterial	2045		X	Yes
	RRTPO	Richmond		US-60 & Belt Blvd - Removal of the existing traffic signals in the vicinity of the interchange at the ramps. Construction of two new roundabouts, one in north and other in south of the bridge.			Interchange Improvement			Urban Principal Arterial	2033		X	Yes
	RRTPO	Richmond		US-60 - Widen bridge over Belt Blvd and extend deceleration and acceleration lanes over CSX	Division Street	CSX RR	Widening	4	6	Urban Principal Arterial	2045		X	Yes
	RRTPO	Ashland		Elmont Rd - Construction of a new 2-lane road	Medical Dr	VA-54/Vaughan Rd	New Road	0	2	Future Urban Major Collector	2027		X	No
	RRTPO	Ashland		Archie Cannon Dr - Construction of a bridge over CSX RR			New Overpass	2	2	Urban Major Collector	2039		X	No
	RRTPO	Ashland	103393	ASHLAND TROLLEY LINE TRAIL	MAPLE ST EXTENSION	TROLLEY LINE TRAIL PARK	Bike/Pedestrian				2021	X		No
	RRTPO	Ashland	119072	#SMART22 - ASHCAKE ROAD PEDESTRIAN IMPROVEMENTS	Rt. 1 (Washington Highway)	Maple Street	Bike/Pedestrian				2027		X	No
	RRTPO	Ashland	112042	ROUTE 1 IMPROVEMENTS: ASHCAKE RD TO ARBOR OAK DR	0.056 MI N OF ASHCAKE RD	0.010 MI S OF ARBOR OAK DR	Safety				2027		X	No
	RRTPO	Charles City		Route 155 - Connection between Charles City and New Kent courthouses (spur from Virginia Capital Trail)	VA-5(Charles City Schools)	New Kent County Line	Bike/Pedestrian				2039		X	No
	RRTPO	Chesterfield	107088	RTE 636 - NASH ROAD EXTENSION	0.08 MI S of Beach Rd. (Rte. 655)	0.009 MI N. of Iron Bridge Rd. (Rte. 10)	New Road	0	2	Future Major Collector	2027		X	No
	RRTPO	Chesterfield		Woolridge Rd - Widening with added capacity	Watermill Pkwy	Genito Rd	Widening	2	4	Urban Major Collector	2027		X	No
	RRTPO	Chesterfield	110393	#HB2.FY17 RT 10 (BERM TRI TO MEADOWV) GARVEE DEBT SERVICE			Other					X	X	No
	RRTPO	Chesterfield	111984	#SMART18 - I-95 AuxLanes b/w Rte.288/Rte.10-GARVEE Debt Serv			Other					X	X	No
	RRTPO	Chesterfield	115193	Road Diet Study (Hopkins, Turner, Whitepine)	Various	Various	PE Only					X		No
	RRTPO	Chesterfield	115202	Countywide Sidewalk Plan	Various	Various	Other					X		No
	RRTPO	Chesterfield	115534	Hopkins/Chippenham Interchange Modification Report (IMR)	Various	Various	Other					X		No
	RRTPO	Chesterfield	118144	US 360 Superstreets Study	Winterpock Rd	Harbour Point Parkway/Mockingbird Lane	PE Only					X		No
	RRTPO	Chesterfield	118145	Route 60 Corridor Improvement Study	Winterfield Rd/LeGordon Drive	Old Buckingham Road/Woolridge Rd	PE Only					X		No
	RRTPO	Chesterfield		Fall Line / Route 1 - Chesterfield Fall Line Trail: Segment 2B MM 4.0 to MM 9.4 (Only Portion Within RRTPO)	Brander Bridge Rd	VA- 10/W. Hundred Rd	Bike/Pedestrian				2027		X	No
	RRTPO	Chesterfield		Fall Line / Route 1 - Chesterfield Fall Line Trail: Segment 2D MM 10.7 to MM 12.9	Chester Rd	Galena Ave	Bike/Pedestrian				2027		X	No
	RRTPO	Chesterfield		Fall Line / Route 1 - Chesterfield Fall Line Trail: Segment 3A MM 12.9 to MM 13.6	Galena Ave	Kingsdale Rd	Bike/Pedestrian				2027		X	No
	RRTPO	Chesterfield		Fall Line / Route 1 - Chesterfield Fall Line Trail: Segment 3D MM 16.8 to MM 17.7	Wayside Park/Falling Cr	US-1	Bike/Pedestrian				2027		X	No
	RRTPO	Chesterfield		Fall Line / Route 1 - Chesterfield Fall Line Trail: Segment 3E MM 17.7 to MM 18.6	US-1	Walmsley Blvd	Bike/Pedestrian				2027		X	No
	RRTPO	Chesterfield		Connector to Stratton Park - Shared Use Path (eventually connecting Stratton Park to Pocahontas State Park)	VA-150	Jessup Road	Bike/Pedestrian				2027		X	No
	RRTPO	Chesterfield		Midlothian @ Chippenham - New P&R lot of 270 spaces on 1.9 AC			Park & Ride				2027		X	No
	RRTPO	Chesterfield		Huguenot Rd at Forest Hill Ave - New P&R lot to replace unofficial lot: 130 spaces on 0.9 AC			Park & Ride				2027		X	No
	RRTPO	Chesterfield		VA- 76/US-60 - New P& R lot			Park & Ride				2027		X	No
	RRTPO	Chesterfield		VA-76/Jhanke - New P& R lot			Park & Ride				2027		X	No
	RRTPO	Chesterfield		Fall Line / Route 1 - Chesterfield Fall Line Trail: Park Ext to Chester Rd.	VA-10/W. Hundred Rd	Chester Rd	Bike/Pedestrian				2033		X	No
	RRTPO	Chesterfield		Fall Line / Route 1 - Chesterfield Fall Line Trail: Segment 3C MM 14.9 to MM 16.8	Gettings Ln	Wayside Park/Falling Cr	Bike/Pedestrian				2033		X	No
	RRTPO	Chesterfield		Fall Line / Route 1 - Chesterfield Fall Line Trail: Eliham Avenue to Dwight Avenue	Eliham Ave	Dwight Ave	Bike/Pedestrian				2033		X	No
	RRTPO	Chesterfield		VA-10/VA- 288 at I-95/I-295 - New P&R lot of 250 spaces on 1.7 AC			Park & Ride				2033		X	No

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	RRTPO	Chesterfield		Fall Line / Route 1 - Chesterfield Fall Line Trail: Segment 3B MM 13.6 to MM 14.9	US-1/Kingsdale Rd	Gettings Ln	Bike/Pedestrian				2045		X	No
	RRTPO	Chesterfield		US-1 & West Hundred Rd - Construction of Innovative Intersection: Median u-turns all approaches			Intersection Improvements				2045		X	No
	RRTPO	Chesterfield		US-360 & Various - Construction of US-360 Superstreet at Winterpock Road, Spring Run Road, Chital Drive, Deer Run Road, and Harbor Pointe Parkway			Intersection Improvements				2045		X	No
	RRTPO	Chesterfield	115415	#SMART20 - RT 1 (FALLING CK. WAYSIDE - FOOD LION) BIKE/PED	Falling Ck. Wayside	Food Lion	Bike/Pedestrian				2027		X	No
	RRTPO	Chesterfield	118146	ROUTE 1 (HOLIDAY LANE - WILLIS ROAD) SHARED-USE PATH	0.03 mile north of Willis Road	Holiday Lane	Safety				2027		X	No
	RRTPO	Chesterfield	109322	#HB2.FY17 RTE 95 - IMPROVE INTERCHANGE AT RTE 10	0.09 mi. S of Rt. 10	0.59 mi. N of Rt. 10	Safety				2027		X	No
	RRTPO	Chesterfield	T25567	#SMART22 - POWHITE SBCHIPPENHAM CAPACITY SAFETY IMPROVEMENTS			Safety				2027		X	No
	RRTPO	Chesterfield		Bridge - Replacement/Rehabilitation - Jeff Davis Hwy @ Ashton Creek			Bridge				2039		X	No
	RRTPO	Chesterfield	CHS0001	Paratransit Vehicles			Public Transportation					X		No
	RRTPO	Chesterfield	CHS0003	Operating Assistance			Public Transportation					X		No
	RRTPO	Chesterfield	CHS0004	Capital Cost of Contracting			Public Transportation					X		No
	RRTPO	GRTC Service Area	GRTC003	Preventive Maintenance			Public Transportation					X		No
	RRTPO	GRTC Service Area	GRTC004	Replace Rolling Stock			Public Transportation					X		No
	RRTPO	GRTC Service Area	GRTC005	Transit Amenities			Public Transportation					X		No
	RRTPO	GRTC Service Area	GRTC008	Paratransit Vehicles			Public Transportation					X		No
	RRTPO	GRTC Service Area	GRTC031	Surveillance/Security Equipment			Public Transportation					X		No
	RRTPO	GRTC Service Area	GRTC032	Shop Equipment			Public Transportation					X		No
	RRTPO	GRTC Service Area	GRTC033	Computer Hardware			Public Transportation					X		No
	RRTPO	GRTC Service Area	GRTC034	Computer Software			Public Transportation					X		No
	RRTPO	GRTC Service Area	GRTC035	Support Vehicles			Public Transportation					X		No
	RRTPO	GRTC Service Area	GRTC056	Renovation of Admin Maint Facility			Public Transportation					X		No
	RRTPO	GRTC Service Area	GRTC060	Mobility Management			Public Transportation					X		No
	RRTPO	GRTC Service Area	GRTC065	Articulated Vehicles			Public Transportation					X		No
	RRTPO	Hanover	115195	Atlee Station Rd Widening (Phase 2)	0.124 MI N OF RTE 1860 (Castle Tower Rd)	0.067 MI S OF RTE 1255 (Warren Ave)	Widening	2	4	Urban Major Collector	2029	X	X	No
	RRTPO	Hanover		Cauthorne Rd - Widening with added capacity (4.0 mi)	Ashland Rd	Henrico Co. Line	Widening	2	4	Urban Major Collector	2039		X	No
	RRTPO	Hanover		Cedar Ln - Widening with added capacity (2.1 mi)	US-1	Elmont Rd	Widening	2	4	Urban Major Collector	2039		X	No
	RRTPO	Hanover		Atlee Station Rd - Widening with added capacity (1.5 mi)	Kings Charter Dr	Sliding Hill Rd	Widening	2	4	Urban Major Collector	2039		X	No
	RRTPO	Hanover		Woodside Ln - Construction of a new 2-lane road (1.1 mi)	Jamestown Rd	Hickory Hill Rd	New Road	0	2	Urban Minor Collector	2033		X	No
	RRTPO	Hanover	13551	#SMART18 - RTE 360 WIDENING	0.61 MI W RTE 643 (LEE DAVIS RD)	0.19 MI E RTE 643 (LEE DAVIS RD)	Safety				2025	X	X	No
	RRTPO	Hanover	56181	RTE 33 - ADD LEFT TURN LANES AT THE INTERSECTION OF RTE 623	0.310 MI S RTE 623 (ASHLAND RD)	0.285 MI N RTE 623 (ASHLAND RD)	Intersection Improvements				2019	X		No
	RRTPO	Hanover	77121	RTE 638 - CONSTRUCT LTL & ADD SB REC. LN	0.2 MILE SOUTH OF ROUTE 301	INTERSECTION ROUTE 301	Intersection Improvements				2016	X		No
	RRTPO	Hanover	81667	RTE 615 (CREIGHTON RD) - ROUNDABOUT	COLD HARBOR RD - FR 0.16 MI N CREIGHTON RD TO 0.08 MI S	CREIGHTON RD - FR 0.12 MI W COLD HARBOR RD TO 0.07 MI E	Intersection Improvements				2020	X		No
	RRTPO	Hanover	109988	#SGR21VB -RT 715 - BR ONLY OVER NEWFOUND RIVER (Fed 9578)	0.80 Miles North of Rte 781	0.90 Miles North of Rte 781	Bridge				2021	X		No
	RRTPO	Hanover		Fall Line / Route 1 - Hanover Fall Line: Segment 7C - MM 37.4 to MM 43.3	Winfrey Rd (Henrico)	Gwathmey Church Rd	Bike/Pedestrian				2027		X	No
	RRTPO	Hanover		US- 301 & VA-54 - Converting "Y" intersection to a roundabout			Intersection Improvements				2033		X	No
	RRTPO	Hanover		signal and dedicated left and right turn lanes on US-1			Intersection Improvements				2033		X	No
	RRTPO	Hanover		Lewistown Rd & Ashcake Rd - Reconfiguration from a stop			Intersection Improvements				2033		X	No
	RRTPO	Hanover	118947	#SMART22 - SLIDING HILL ROAD/PEAKS ROAD ROUNDABOUT	Ashcake Road	Peaks Road	Intersection Improvements				2027		X	No
	RRTPO	Hanover	HC50001	Operating Assistance			Public Transportation					X		No
	RRTPO	Hanover	HC50002	Capital Cost of Contracting			Public Transportation					X		No
	RRTPO	Hanover or Ashland		Lewistown Rd/Lakeridge Pkwy or Ashland - New P&R Lot of 200 spaces on 1.4 AC			Park & Ride				2027		X	No
	RRTPO	Henrico		Dickens Rd - Widening with added capacity and bike/ped facilities	Staples Mill Rd	Oconto Rd	Widening	2	4	Urban Major Collector	2027		X	No
	RRTPO	Henrico		Horsepen Rd - Widening with added capacity and pedestrian accommodations	Three Chopt Rd	Dexter Rd	Widening	4	6	Urban Major Collector	2027		X	No
	RRTPO	Henrico		Bethlehem Rd - Widening with added capacity and bike/ped facilities	Libbie Ave	Dickens Rd	Widening	2	4	Urban Major Collector	2027		X	No

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	RRTPO	Henrico		Mill Rd - Widening with added capacity and pedestrian accommodations	Mill Place Dr	Mountain Rd	Widening	2	4	Urban Major Collector	2027		X	No
	RRTPO	Henrico		Shady Grove Rd - Widening with added capacity and bike/ped facilities	Nuckols Rd	Hanover County line	Widening	2	4	Urban Major Collector	2033		X	No
	RRTPO	Henrico		N Gayton Rd - Widening with added capacity (to include center turnlane, one through lanes each direction) and bike/ped facilities	US-250	Lauderdale Dr	Widening	2	3	Urban Major Collector	2039		X	No
	RRTPO	Henrico		Pemberton Rd - Widening with added capacity and bike/ped facilities	Quiocassin Rd	US-250	Widening	2	4	Urban Major Collector	2039		X	No
	RRTPO	Henrico		Greenwood Rd - Widening with added capacity and bike and pedestrian accommodations	Woodman Road	County Line	Widening	2	4	Urban Major Collector	2045		X	No
	RRTPO	Henrico		Carolina Ave - Widening with added capacity and bike/ped facilities	Richmond Henrico Tpk	Laburnum Ave	Widening	2	4	Urban Major Collector	2045		X	No
	RRTPO	Henrico		Courtney Rd - Widening with added capacity and bike/ped facilities	Staples Mill Rd	Mountain Rd	Widening	2	4	Urban Major Collector	2033		X	No
	RRTPO	Henrico	-23339	PE for Parking Lots - Henrico County	Various	Various	PE Only					X		No
	RRTPO	Henrico	50528	THREE CHOPT ROAD - WIDENING - PE ONLY	BARRINGTON HILL DRIVE	GASKINS ROAD	PE Only					X		No
	RRTPO	Henrico	60934	RTE 9999 - SADLER RD; WIDEN & RECONSTRUCT; FED ESCROW PROJ	0.005 MI WEST OF DOMINION BOULEVARD	0.030 MI EAST OF CEDAR FOREST ROAD	PE Only					X		No
	RRTPO	Henrico	97565	RTE 64 - REPLACE BRIDGES OVER RTE 156 (FED ID 9760 & 9762)	0.473 MILE WEST OF ROUTE 156	0.475 MILE EAST OF ROUTE 156	Bridge				2022	X		No
	RRTPO	Henrico	104880	RIDGEFIELD PKWY - CONSTRUCT SIDEWALK	PUMP RD	FALCONBRIDGE DR	Bike/Pedestrian				2021	X		No
	RRTPO	Henrico	107535	DOREY PARK - SHARED-USE PATH - TAP	1.0 mi S of the int of Darbytown Rd and Dorey Pk	0.1 mi S of the int of Darbytown Rd and Dorey Pk	Bike/Pedestrian				2021	X		No
	RRTPO	Henrico	109193	CRAC CNG BUS PURCHASE	various	various	Public Transportation				2023	X		No
	RRTPO	Henrico	110394	#HB2.FY17 RTE 64 - MAJOR WIDENING GARVEE DEBT SERVICE			Other					X	X	No
	RRTPO	Henrico	110968	FOUR MILE CREEK VCT IMPROVEMENTS	0.1 mi E of Farmer's Circle Drive	0.1 mi W of Farmer's Circle Drive	Bike/Pedestrian				2025	X		No
	RRTPO	Henrico	113844	I-64 at Parham IMR	25 miles north of Mayland Drvie	Fordson Road	PE Only					X		No
	RRTPO	Henrico	115001	Parham Road/Hungary Road Bicycle and Pedestrian Study	Parham Road - Various	Hungary Road - Various	PE Only					X		No
	RRTPO	Henrico	118150	Nuckols Road Pedestrian Improvements	Springfield Road	Capital One way	Bike/Pedestrian				2028	X		No
	RRTPO	Henrico	118470	W Broad St Pedestrian and Transit Improvements - Glenside Dr	Glenside Drive	Parham Road	Bike/Pedestrian				2027	X	X	No
	RRTPO	Henrico	121681	#BF- RTE 0 MEADOW RD (FED ID 9652) CR	215 miles TO GRAPEVINE RD	0.15 miles TO 60	Bridge				2027	X		No
	RRTPO	Henrico		Fall Line / Route 1 - Henrico Fall Line Trail Phase 4: Lakeside Community Trail Section III	Lakeside Recreation Area	Hilliard Rd	Bike/Pedestrian				2027		X	No
	RRTPO	Henrico		Fall Line / Route 1 - Henrico Fall Line Trail Phase 6: Villa Park	Lakeside Ave	Parham Rd	Bike/Pedestrian				2027		X	No
	RRTPO	Henrico		Nuckols Rd Trail - Multiuse Trail	Springfield Rd	Francistown Rd	Bike/Pedestrian				2027		X	No
	RRTPO	Henrico		Magolia Ridge Dr - Multiuse trail connecting Fall Line to Virginia Center Commons	Brook Rd	Woodman Rd Extended	Bike/Pedestrian				2027		X	No
	RRTPO	Henrico		US-1 & E Parham Rd - Operational improvements and pedestrian accommodations			Intersection Improvements				2027		X	No
	RRTPO	Henrico		US-250 & Glenside Drive - Operational improvements and pedestrian accommodations			Intersection Improvements				2027		X	No
	RRTPO	Henrico		US-250 & Pouncey Tract Rd - Increase capacity at US-250 & Pouncey Tract Rd intersection with an additional lane			Intersection Improvements				2027		X	No
	RRTPO	Henrico		I-64/US-60 at Laburnum Rd - New P&R lot of 120 spaces on 0.8 AC parcel			Park & Ride				2027		X	No
	RRTPO	Henrico		US-250 at Willow Lawn/Staples Mill (Pulse western terminus) - New P&R lot subject of much site search, 290 spaces on 2.0 AC			Park & Ride				2027		X	No
	RRTPO	Henrico		I-64 at I-295 in Short Pump - New P&R lot of 320 spaces on 2.2 AC			Park & Ride				2027		X	No
	RRTPO	Henrico		Cox Rd - Cox Rd Bike Facility	US-250	North end of Cox Rd	Bike/Pedestrian				2033		X	No
	RRTPO	Henrico		Mountain Rd - Shared Use Trail	Woodman Rd	Staples Mill Rd	Bike/Pedestrian				2033		X	No
	RRTPO	Henrico		Wilton on the James Trail - Shared Use Trail	VA-5	James River	Bike/Pedestrian				2033		X	No
	RRTPO	Henrico		US-250 & Parham Rd - Operational improvements and pedestrian accommodations			Intersection Improvements				2033		X	No
	RRTPO	Henrico		VA Center Commons/I-295/I-95 - New P&R Lot of 380 Spaces on 2.6 AC			Park & Ride				2033		X	No
	RRTPO	Henrico		Parham Rd & Patterson Ave - Construction of additional turn lanes and pedestrian accommodations			Intersection Improvements				2033		X	No
	RRTPO	Henrico		Fall Line/ Route 1 - Henrico Fall Line Trail Phase 7: Longdale	Parham Rd	Woodman Rd Extended	Bike/Pedestrian				2045		X	No
	RRTPO	Henrico	115411	#SMART20 - N LABURNUM AVE PED AND TRANSIT IMPROVEMENTS	Harvie	Creighton Rd	Bike/Pedestrian				2027		X	No

SN	MPO	Jurisdiction	UPC	Description/Facility/Location	From	To	Improvement Type	Exist. Lanes	Prop. Lanes	Functional Class	Anticipated Opening Year	2024-27 TIP	2045 CLRP	Reg Sig for AQ?
	RRTPO	Henrico	115417	#SMART20 - W BROAD ST PEDESTRIAN AND TRANSIT IMPROVEMENTS	Pemberton Road	Parham Road	Bike/Pedestrian				2027		X	No
	RRTPO	Henrico	118065	LAKESIDE COMMUNITY TRAIL PHASE 1	Spring Park Street	Gillespie Avenue	Bike/Pedestrian				2027		X	No
	RRTPO	Henrico	118091	LAKESIDE COMMUNITY TRAIL PHASE 2	Dumbarton Road	Lakeside Recreation Area	Bike/Pedestrian				2027		X	No
	RRTPO	Henrico	118153	BROOK ROAD & HILLIARD ROAD TRAIL	Belmont Recreation Center	Lakeside Avenue and Brook Road Intersection	Bike/Pedestrian				2027		X	No
	RRTPO	Henrico	118937	#SMART22 - WILLIAMSBURG RD PEDESTRIAN & TRANSIT IMPROVEMENTS	Charles City Rd	Laburnum Ave	Bike/Pedestrian				2027		X	No
	RRTPO	Henrico	118940	#SMART22 - NINE MILE RD MULTIMODAL MOBILITY & SAFETY IMPROVE			Bike/Pedestrian				2027		X	No
	RRTPO	Henrico	117049	S. LABURNUM/ROUTE 5 INTERSECTION IMPROVEMENTS	05 MI N of Rte 5 (New Market Rd)	Rte 5 (New Market Rd)	Intersection Improvements				2027		X	No
	RRTPO	Henrico	104148	SADLER RD - RECONSTRUCTION	0.005 MI WEST OF DOMINION BLVD	0.030 MI EAST OF CEDAR FOREST ROAD	Reconstruction/Maintenance				2027		X	No
	RRTPO	Henrico	101034	#HB2.FY17 RTE 6 PATTERSON AVE AT PARHAM RD INTERSECTION	0.27 MI W RTE 7518 (PARHAM RD)	0.28 MI E RTE 7518 (PARHAM RD)	Safety				2027		X	No
	RRTPO	Henrico	110910	#SMART18 - PARHAM RD PEDESTRIAN & TRANSIT STOP IMPROVEMENTS	6 mi E. of Broad Street on Parham Road	HUNGARY SPRING ROAD	Safety				2027		X	No
	RRTPO	Henrico	111637	#SMART18 - BROAD ST PEDESTRIAN & TRANSIT STOP IMPROVEMENTS	FOREST AVENUE	WILLOW LAWN AVENUE	Safety				2027		X	No
	RRTPO	Henrico	118597	W BROAD ST INTERSECTION IMPROVEMENTS AT DOMINION AND COX	Old Sadler Road	Lexington Farm Road	Safety				2027		X	No
	RRTPO	Henrico		Bridge - Replacement/Rehabilitation - Wbl I-64 @ Airport Drive (VA-156)			Bridge				2039		X	No
	RRTPO	Henrico		Bridge - Replacement/Rehabilitation - I-195 @ VA-197 & CSX			Bridge				2039		X	No
	RRTPO	Henrico		Bridge - Replacement/Rehabilitation - Parham Road @ CSX Railway			Bridge				2039		X	No
	RRTPO	Henrico		Bridge - Replacement/Rehabilitation - Ebl I-64 @ Airport Drive (VA-156)			Bridge				2039		X	No
	RRTPO	Henrico or New Kent		I-295at US-60-Technology Blvd/Elko Rd - New P&R lot of 120 space on 0.8 AC as alternative to Bottoms Bridge P&R expansion which is over-capacity			Park & Ride				2027		X	No
	RRTPO	Henrico or Richmond		East End CBD at Pulse Terminus-Rockets - New P&R lot of 130 spaces on 0.9 AC parcel			Park & Ride				2027		X	No
	RRTPO	Multi-jurisdictional	101492	RICHMOND REGION-WIDE TRAFFIC/OPERATIONS IMPROVEMENTS			Safety				2027		X	No
	RRTPO	Multi-jurisdictional: Richmond MPO	86357	RAMPO Travel Demand Modeling On-Call Consultant Support			Other					X		No
	RRTPO	Multi-jurisdictional: Richmond MPO	CAA0001	Operating Assistance			Public Transportation					X		No
	RRTPO	Multi-jurisdictional: Richmond MPO	CAA0002	Mobility Management			Public Transportation					X		No
	RRTPO	Richmond	-20113	GRTC REPLACEMENT OF ROLLING STOCK CNG BUSES (FY22)	N/A	N/A	Public Transportation					X		No
	RRTPO	Richmond	-203	Regionwide Air Pollution Reduction Program - Ridefinders	Regionwide Air Pollution Reduction Program		Public Transportation					X		No
	RRTPO	Richmond	15955	RTE 1 - INTERSECTION IMPROVEMENTS AT HOPKINS RD & HARWOOD ST	0.008 MI S CHESTERMAN AVE	0.435 MI N CHESTERMAN AVE	Intersection Improvements				2024	X		No
	RRTPO	Richmond	15958	COMMERCE ROAD - WIDENING	BELLS ROAD (SOUTH JUNCTION)	0.13 Mile N. of BELLEMEADE ROAD	Reconstruction/Maintenance				2026	X		No
	RRTPO	Richmond	19035	JAHNKE ROAD - 2 LANE IMPROVEMENTS	BLAKEMORE RD	FOREST HILL AVE	Reconstruction/Maintenance				2025	X		No
	RRTPO	Richmond	19036	FOREST HILL AVENUE IMPROVEMENTS	HATHAWAY RD	POWHITE PARKWAY	Reconstruction/Maintenance				2020	X		No
	RRTPO	Richmond	93087	#SGRT7VB - RT 195 - BR REPAIR OVER RT 76, CSX (Fed 21552)	0.145 MI N OF RTE 76	0.071 MI S OF RTE 76	Bridge				2021	X		No
	RRTPO	Richmond	104887	RTE 60 - BRIDGE REHABILITATION	AT RTE 161 (BELT BLVD)		Bridge				2020	X		No
	RRTPO	Richmond	107515	CARNATION STREET - ADD SIDEWALK - TAP	RTE 60 (MIDLOTHIAN TPKE)	HIOAKS RD	Bike/Pedestrian				2019	X		No
	RRTPO	Richmond	113832	Richmond Marine Terminal (RMT) - Drop Lot	various	various	Other				2024	X	X	No
	RRTPO	Richmond	115222	Park-N-Ride Bus Purchase	Various	Various	Other				2024	X		No
	RRTPO	Richmond	115815	I-64 Express Barge Service Expansion	RMT	RMT	Other				2025	X	X	No
	RRTPO	Richmond	119673	I-95 at Commerce Road Access Study	Various	Various	PE Only					X		No
	RRTPO	Richmond		Fall Line / Route 1 - Richmond Fall Line Trail: Segment 4B - MM 20.7 to MM 21.8	Bellemeade Rd	Commerce Rd.	Bike/Pedestrian				2027		X	No

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	RRTPO	Richmond		Fall Line / Route 1 - Richmond Fall Line Trail: Segment 4C - MM 21.8 to MM 23.9	Commerce Rd	Decatur St	Bike/Pedestrian				2027		X	No
	RRTPO	Richmond		Fall Line / Route 1 - Richmond Fall Line Trail: Segment 4D - MM 23.9 to MM 24.3	Semmes Ave	Potterfield Bridge	Bike/Pedestrian				2027		X	No
	RRTPO	Richmond		Fall Line / Route 1 - Richmond Fall Line Trail: Segment 5B - MM 25.6 to MM 26.6	3rd St.	W. Duval St	Bike/Pedestrian				2027		X	No
	RRTPO	Richmond		Fall Line / Route 1 - Richmond Fall Line Trail: Segment 5C - MM 26.6 to MM 27.6	W. Duval St	Admiral St	Bike/Pedestrian				2027		X	No
	RRTPO	Richmond		Fall Line / Route 1 - Richmond Fall Line Trail: Segment 5D - MM 27.6 to MM 28.5	Admiral St	Brookland Pkwy	Bike/Pedestrian				2027		X	No
	RRTPO	Richmond		Fall Line / Route 1 - Richmond Fall Line Trail: Segment 6A - MM 28.5 to MM 30.5	Brookland Pkwy	Bellevue Ave	Bike/Pedestrian				2027		X	No
	RRTPO	Richmond		Fall Line / Route 1 - Richmond Fall Line Trail: Segment 6B - MM 30.5 to MM 31.2	Bellevue Ave	Lakeside Ave	Bike/Pedestrian				2027		X	No
	RRTPO	Richmond		US-360 & Broad Rock Blvd - Construction of an alternative intersection with displaced left turns			Intersection Improvements				2027		X	No
	RRTPO	Richmond		US-360, Midlothian Turnpike & Clopton St - Construction of a new roundabout in the five legged intersection			Intersection Improvements				2027		X	No
	RRTPO	Richmond		VA-161, Brookland Pkwy & Westwood Ave - Construction of a new roundabout in the five legged intersection			Intersection Improvements				2027		X	No
	RRTPO	Richmond		23rd Street & Franklin Street Neighborhood Transit Center			Public Transportation				2027		X	No
	RRTPO	Richmond		Downtown Transfer Center			Public Transportation				2027		X	No
	RRTPO	Richmond		VA-10 & Walmsley Blvd - Construction of a new roundabout			Intersection Improvements				2033		X	No
	RRTPO	Richmond		VA-161 & Broad Rock Blvd - Construction of a new roundabout			Intersection Improvements				2033		X	No
	RRTPO	Richmond		Commerce Rd & Walmsley Blvd - Construction of a roundabout at Commerce Rd and Walmsley Boulevard Intersection			Intersection Improvements				2033		X	No
	RRTPO	Richmond		Southside Transfer Center			Public Transportation				2033		X	No
	RRTPO	Richmond	115410	#SMART20 - RIVERFRONT/ORLEANS BRT STATION PED SAFETY/STREETS	VARIOUS	VARIOUS	Bike/Pedestrian				2027		X	No
	RRTPO	Richmond	115416	#SMART20 SHOCKOE BOTTOM BRT STATION PED SAFETY/STREETSCAPE	VARIOUS	VARIOUS	Bike/Pedestrian				2027		X	No
	RRTPO	Richmond	115555	#SMART20 - SCOTT'S ADD BRT STATION PED SAFETY/STREETSCAPE	VARIOUS	VARIOUS	Bike/Pedestrian				2027		X	No
	RRTPO	Richmond	118943	#SMART22 - JAMES RIVER BRANCH - RAIL TO TRAIL GREENWAY	Hopkins Road	W 49th Street	Bike/Pedestrian				2027		X	No
	RRTPO	Richmond	119192	#SMART22 - POWHITE NB AT CHIPPENHAM CAPACITY AND SAFETY IMPR			Safety				2027		X	No
	RRTPO	Richmond	118942	#SMART22 - ARTICULATED VEHICLES FOR BUS RAPID TRANSIT EXPANS			Other				2027		X	No
	RRTPO	Richmond	118944	#SMART22 - ROUTE 1 PHASE II IMPROVEMENTS	Route 360 / Hull Street Road	Maury Street	Reconstruction/Maintenance				2027		X	No
	RRTPO	Richmond	109310	#HB2.FY17 SHOCKOE VALLEY ST IMPROVEMENT	VARIOUS	VARIOUS	Safety				2027		X	No
	RRTPO	Richmond	109321	#HB2.FY17 RTE 95 - IMPROVE INTERCHANGE AT MAURY ST	0.058 MI. W OF MAURY ST	0.061 MI. E OF MAURY ST	Safety				2027		X	No
	RRTPO	Richmond	111465	#SMART18 - I-95/I-64 OVERLAP: EMERGENCY PULL- OFFS	MAURY STREET	I-64 W	Safety				2027		X	No
	RRTPO	Richmond	118941	#SMART22 - BROAD STREET STREETSCAPE W/ PULSE BRT EXPANSION			Public Transportation				2027		X	No
	RRTPO	Richmond	109320	#HB2.FY17 SB 195 BELVIDERE ST INTERCHANGE SAFETY IMPROVEMENT	0.079 MILES WEST OF RTE. 1	0.202 MILES EAST OF RTE. 1	Safety				2027		X	No
	RRTPO	Richmond	T25568	#SMART22 - ASHLAND TO PBURG TRAIL US 1 WALMSLEY TO BELLEMEADE			Bike/Pedestrian				2027		X	No
	RRTPO	Richmond	T25569	#SMART22 - ASHLAND PBURG TRAIL CHICKAHOMINY RIVER CROSSING			Bike/Pedestrian				2027		X	No
	RRTPO	Richmond	T25570	#SMART22 - A-TO-P TRAIL: RT.1 (FALLING CRK AVE. - FOOD LION)			Bike/Pedestrian				2027		X	No
	RRTPO	Richmond		Bridge - Replacement/Rehabilitation - Broad Street @ I-95			Bridge				2039		X	No
	RRTPO	Richmond		Bridge - Replacement/Rehabilitation - Cary Street @ I-195 & CSX Railroad			Bridge				2039		X	No
	RRTPO	Richmond		Bridge - Replacement/Rehabilitation - 14th Street @ James River South Div			Bridge				2039		X	No
	RRTPO	Richmond		Bridge - Replacement/Rehabilitation - Broad Street @ CSX Abandoned Spur Line			Bridge				2039		X	No
	RRTPO	Richmond		Bridge - Replacement/Rehabilitation - 14th Street @ James River North Div			Bridge				2039		X	No
	RRTPO	Richmond		Bridge - Replacement/Rehabilitation - Wbl I-64 @ I- 95			Bridge				2039		X	No
	RRTPO	Richmond		Bridge - Replacement/Rehabilitation - Sbl I-195 @ VA- 76, CSX Rr & Ramp S			Bridge				2039		X	No
	RRTPO	Richmond		Bridge - Replacement/Rehabilitation - Ramp To 5th & I-95S @ I-95			Bridge				2039		X	No
	RRTPO	Richmond		Bridge - Replacement/Rehabilitation - North Boulevard @ CSX Railway			Bridge				2039		X	No

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	RRTPO	Richmond		Bridge Replacement with Shared Used Path - Westover Hills Blvd (RMTA) @ James River			Bridge				2039		X	No
	RRTPO	Richmond District-wide	118143	RRTPO Scenario Planning Pilot	Various	Various	PE Only					X		No
	RRTPO	Richmond/ Henrico		Enhanced Transit Service -Broad St - 11.5 miles from Willow Lawn to Short Pump	Willow Lawn	Short Pump	Public Transportation				2033		X	No
	RRTPO	Richmond/ Henrico/ Hanover/ Ashland		BRT -Rt 1 North - 15.7 miles from The Pulse BRT downtown to Ashland along US 1	CBD	Ashland	Public Transportation				2033		X	No
	RRTPO	Richmond/ Henrico		Enhanced Transit Service -West End South - 15.85 miles enhanced 15-min service	Cary/Main	Gayton Crossing	Public Transportation				2039		X	No
	RRTPO	Richmond/ Henrico		Enhanced Transit Service -RIC Airport - 10.5 miles from CBD to Airport via Williamsburg Rd	CBD	RIC Airport	Public Transportation				2045		X	No
	RRTPO	Richmond/Chesterfield		Enhanced Transit Service - Midlothian - 14.3 miles, from CBD to Stonebridge replace less frequent service with more frequency; new service from Stonebridge to Chesterfield Town Center	CBD	Chesterfield Town Center	Public Transportation				2033		X	No
	RRTPO	Statewide	-20741	VEHICLE FUEL CONVERSION PROGRAM MARKETING			Other				2018	X		No
	RRTPO	Statewide	-11802	Vehicle Fuel Conversion Program			Other				2018	X		No
	RRTPO	Statewide	115869	#ITTF20 STATEWIDE TECHNOLOGY FOR OPERATIONS	Various	Various	Safety					X		No
	RRTPO	Statewide	116656	#195CIP VARIABLE SPEED LIMITS - PROGRAM UPC	Various	Various	Safety					X		No
	RRTPO	Statewide	116657	#195CIP RAMP METERING PROGRAM UPC	Various	Various	Safety					X		No
	RRTPO	Statewide	116658	#195CIP GEOFENCED EMERGENCY NOTIFICATIONS - PROGRAM UPC	Various	Various	Safety					X		No
	RRTPO	Statewide	116659	#195CIP ADVANCED WORK ZONE TECHNOLOGY - PROGRAM UPC	Various	Various	Safety					X		No
	RRTPO	Statewide	116661	#195CIP CORRIDOR TECHNOLOGY IMPROVEMENTS - PROGRAM UPC	Various	Various	Safety					X		No

ID	Project Title	Sponsor	YOE Estimate	Rd 5 Benefit Score	Rd 5 B/C Score	CVTA Regional Leveraged	Total Leveraged	Additional Leverage Needed ⁽¹⁾	ROI at Target Leverage	Staff Scenario Funding
9313	Hill Carter Parkway Extension	Ashland Town	\$22,517,888	10.43	4.64		\$ 50,000	\$ -	449.36	Yes
9389	Trolley Line Trail Phase 2	Ashland Town	\$2,462,964	0.05	0.18		\$ -	\$ 2,358,094	0.04	No
9390	Vaughan Road Extended	Ashland Town	\$15,023,420	6.24	4.17		\$ 50,000	\$ 545,638	24.22	No
9394	Green Chimney	Ashland Town	\$11,846,775	6.51	5.51		\$ 50,000	\$ (50,000)	No Leverage Needed	Yes
9014	Route 360 (Woodlake - Otterdale) Widening	Chesterfield County	\$39,745,070	5.28	2.67	\$ 20,000,000	\$ 20,000,000	\$ 7,534,811	0.44	No
9109	Route 60/Route 150 - Interchange Improvements	Chesterfield County	\$35,024,332	5.77	1.65		\$ -	\$ 21,680,974	0.62	No
9111	Belmont Road/Cogbill Road - Roundabout	Chesterfield County	\$8,656,131	1.91	2.20		\$ -	\$ 4,244,776	1.04	No
9154	Route 360/Deer Run Drive/Harbour View Court - RCUT	Chesterfield County	\$22,243,092	10.77	4.84		\$ -	\$ -	No Leverage Needed	Yes
9206	Busy Street Extended	Chesterfield County	\$20,192,537	7.91	3.92		\$ -	\$ 3,148,856	5.41	No
9287	Huguenot Rd at Robious & Cranbeck Capacity & Safety Improvmt	Chesterfield County	\$21,213,068	6.14	2.90		\$ -	\$ 7,006,273	2.03	No
9364	Route 360/Harbour Pointe Pkwy/Mockingbird Ln - RCUT	Chesterfield County	\$20,487,571	6.07	2.97		\$ -	\$ 6,439,809	2.18	No
9409	RT 360/Duckridge/Hancock Village Shopping Center - RCUT	Chesterfield County	\$17,546,227	4.14	2.36		\$ -	\$ 7,964,381	1.20	No
9412	RT 360 at Winterpock Rd/Shopping Center Entrance - RCUT	Chesterfield County	\$21,975,351	6.77	3.08		\$ -	\$ 7,388,453	1.97	No
9413	RT 360 at Spring Run Rd/Temie Lee Pkwy - RCUT	Chesterfield County	\$26,644,615	11.16	4.19		\$ -	\$ 2,603,086	9.24	No
9135	I-64 at Ashland Rd. (Rte. 623) Interchange	Goochland County	\$75,917,941	6.36	1.51	\$ 33,699,829	\$ 33,699,829	\$ 27,641,130	0.24	No
9411	I-64 at Oilville Road (Rte. 617) Interchange	Goochland County	\$7,512,460	1.98	2.87	\$ 606,000	\$ 606,000	\$ 2,327,426	1.56	No
9073	Route 250 at Route 288 Interchange Improvements	Goochland County	\$30,945,914	2.66	0.86		\$ -	\$ 24,796,937	0.25	No

ID	Project Title	Sponsor	YOE Estimate	Rd 5 Benefit Score	Rd 5 B/C Score	CVTA Regional Leveraged	Total Leveraged	Additional Leverage Needed ⁽¹⁾	ROI at Target Leverage	Staff Scenario Funding
9445	Hockett Road Re-alignment	Goochland County	\$16,787,222	4.26	40.91		\$ 15,745,325	\$ (8,814,183)	1.42	Yes
9001	C Fall Line Trail with Transit Improvements Manchester Br.	GRTC	\$28,213,185	26.98	10.10	\$ 1,500,000	\$ 1,500,000	\$ (1,500,000)	No Leverage Needed	Yes
9108	Route 60 (Ruthers Rd - Providence Rd) Pedestrian Improvemnts	GRTC	\$10,951,557	5.29	4.83		\$ -	\$ 3,695,312	1.96	No
9302	Rt 1 (Rt 10 to Brightpoint Comm College) Transit Access Impr	GRTC	\$10,277,469	2.83	2.76		\$ -	\$ 6,390,299	0.61	No
9376	Rt 1 (Osborne Rd - Moores Lake Rd) Transit Access Improvemts	GRTC	\$10,523,898	2.01	1.91		\$ -	\$ 7,768,771	0.35	No
9385	Brook Road Improvements - Azalea Ave to Brook Run Shopping	GRTC	\$21,499,008	4.95	2.30		\$ -	\$ 14,706,352	0.46	No
9386	Nine Mile Road - Dabbs House Road to Laburnum Avenue	GRTC	\$28,815,273	4.19	1.45		\$ -	\$ 23,071,393	0.25	No
9415	S. Laburnum Ave Ped Improvements - Thornhurst St to Gay Ave	GRTC	\$12,611,366	3.91	3.10		\$ -	\$ 7,247,322	0.74	No
9045	Greenwood Church/Blanton/Ashland/Ash cake Roads Roundabout	Hanover County	\$6,997,049	0.61	1.25		\$ 2,127,855	\$ 3,466,778	0.25	No
9050	Rt. 54 Left Turn Lane at Goddins Hill Rd	Hanover County	\$5,060,708	0.81	2.29		\$ 1,534,943	\$ 1,658,808	0.58	No
9085	Creighton Rd LTLs at Sledd's Lake Rd & Tammy Ln	Hanover County	\$4,215,689	0.80	1.90		\$ -	\$ 2,362,341	0.78	No
9043	W Broad Street Short Pump	Henrico County	\$25,999,970	24.79	10.89	\$ 3,230,000	\$ 3,230,000	\$ (3,230,000)	No Leverage Needed	Yes
9041	Staples Mill Road Improvements	Henrico County	\$32,135,419	19.26	7.28	\$ 5,670,000	\$ 5,670,000	\$ (5,670,000)	No Leverage Needed	Yes
9042	Springfield Road Improvements	Henrico County	\$15,888,305	6.48	4.32		\$ 900,000	\$ 411,323	11.12	No
9044	Carolina Avenue Improvements	Henrico County	\$34,784,879	5.63	1.62		\$ -	\$ 21,775,146	0.60	No

ID	Project Title	Sponsor	YOE Estimate	Rd 5 Benefit Score	Rd 5 B/C Score	CVTA Regional Leveraged	Total Leveraged	Additional Leverage Needed ⁽¹⁾	ROI at Target Leverage	Staff Scenario Funding
9046	Route 60/Route 33/Beulah Rd Roundabout & Gateway Project	Henrico County	\$13,222,320	5.08	3.84		\$ -	\$ 1,476,576	7.95	No
9049	E. Parham Road Improvements - I-95 to Cleveland St	Henrico County	\$14,480,767	6.14	4.24		\$ -	\$ 292,495	48.51	No
9062	Glenside Drive/Horsepen Road Safety Improvements	Henrico County	\$17,207,282	4.12	2.39		\$ -	\$ 7,678,208	1.24	No
9086	Gaskins Road @ I-64 (Southern Quad Partial Cloverleaf)	Henrico County	\$62,415,185	3.22	0.52		\$ -	\$ 54,963,270	0.14	No
9420	Gaskins Road Interchange @ I-64 (North Quad & Aux Lanes)	Henrico County	\$56,679,181	4.10	0.72		\$ -	\$ 47,193,236	0.20	No
9458	S. Laburnum Ave - Gay Ave Thru Cut	Henrico County	\$5,151,501	3.19	6.19		\$ -	\$ -	No Leverage Needed	Yes
9325	Route 288 Northbound - Hard Shoulder Running	PlanRVA	\$39,561,735	22.00	9.34	\$ 8,000,000	\$ 16,000,000	\$ (6,668,366)	3.24	Yes
9422	Parham Rd Ped Improvements Holly Hill Rd to Three Chopt Rd	PlanRVA	\$12,282,481	7.81	6.36		\$ -	\$ 1,544,052	6.95	No
9416	Route 360/I-64 Interchange Reconfiguration	PlanRVA	\$15,523,933	9.38	6.04		\$ -	\$ 2,630,173	4.90	No
9267	I-95/Willis Road - Interchange Improvements	PlanRVA	\$135,638,008	10.13	0.75		\$ -	\$ 121,717,285	0.11	No
9371	U.S. Route 60 at State Route 13/603 RCUT	Powhatan County	\$8,642,508	2.22	3.42		\$ 2,160,627	\$ 1,358,061	1.46	No
9372	Dorset Road, Batterson Road & Route 60 RCUT	Powhatan County	\$8,461,236	1.11	1.75		\$ 2,115,309	\$ 3,774,280	0.44	No
9378	New Dorset Road & Route 60 RCUT	Powhatan County	\$7,841,123	1.46	2.47		\$ 1,960,281	\$ 2,515,530	0.75	No
9430	U.S. Route 60 at Red Lane Road: Continuous Green-T	Powhatan County	\$6,539,006	0.40	0.82		\$ 1,634,752	\$ 3,973,058	0.17	No
8929	B US360 Hull Street Phase II	Richmond City	\$21,067,622	5.73	4.14	\$ 6,291,851	\$ 7,249,581	\$ 578,747	1.69	No
8930	C Forest Hill Avenue Phase II Improvements	Richmond City	\$39,622,772	6.68	2.68	\$ 14,645,821	\$ 14,645,821	\$ 10,399,969	0.58	No

ID	Project Title	Sponsor	YOE Estimate	Rd 5 Benefit Score	Rd 5 B/C Score	CVTA Regional Leveraged	Total Leveraged	Additional Leverage Needed ⁽¹⁾	ROI at Target Leverage	Staff Scenario Funding
8928	A Gillies Creek Greenway	Richmond City	\$5,340,700	9.15	17.12		\$ -	\$ -	No Leverage Needed	Yes
8931	D Clay Street Streetscape Improvements	Richmond City	\$18,770,662	17.67	9.41		\$ -	\$ -	No Leverage Needed	Yes
8933	E Belt Boulevard (SR161) Streetscape	Richmond City	\$36,862,887	7.11	1.93		\$ -	\$ 21,554,947	0.71	No
8934	F Hey Road Streetscape	Richmond City	\$20,061,265	2.68	1.99		\$ 6,600,000	\$ 7,263,353	0.45	No
8936	H Norfolk Street Bridge Connection	Richmond City	\$41,830,387	11.67	2.79		\$ -	\$ 16,704,183	1.50	No
8937	I Commerce Road Streetscape	Richmond City	\$20,331,645	4.35	2.25		\$ 1,000,000	\$ 9,263,685	0.98	No
8938	J Hull Street Shared Use Path Improvements	Richmond City	\$11,027,213	7.24	9.02		\$ 3,000,000	\$ (3,000,000)	No Leverage Needed	Yes
9257	Nine Mile Road - Gordons Lane to Dabbs House Road	RRTPO	\$12,297,545	4.66	3.79		\$ -	\$ 5,414,844	1.27	No
9241	Williamsburg Road - Randall Avenue to Charles City Road	RRTPO	\$17,651,980	2.91	1.65		\$ -	\$ 13,353,133	0.32	No
9270	I-95/Route 10 Interchange Improvement, Phase II	RRTPO	\$48,786,841	3.42	1.08	\$ 17,086,282	\$ 17,086,282	\$ 26,647,429	0.12	No
8927	SB 288 HSR Lane - West Creek Parkway to Route 711	RRTPO	\$57,898,083	16.28	3.04	\$ 4,372,138	\$ 4,372,138	\$ 31,156,526	0.63	No
9240	W Broad Street Intersection Improvements at Parham Road	RRTPO	\$13,835,131	6.93	6.17	\$ 2,611,000	\$ 2,611,000	\$ 1,703,075	2.21	No
9162	Route 360 at Brad McNeer - Continuous Green-T	RRTPO	\$12,429,941	8.94	7.19		\$ -	\$ 145,229	84.59	No
8944	I-64 Gap: Exit 205 to Exit 211	RRTPO	\$195,302,750	17.61	1.85	\$ 100,000,000	\$ 100,000,000	\$ 71,095,718	0.14	No
9010	B Fall Line Trail - Commerce Road Phase II	RRTPO	\$70,549,453	14.48	3.32	\$ 27,000,000	\$ 27,000,000	\$ 23,654,102	0.39	No
9009	A Broad Street Streetscape w/ Pulse BRT Expansion Phase III	RRTPO	\$23,852,736	25.82	17.16	\$ 8,800,000	\$ 8,800,000	\$ (8,800,000)	No Leverage Needed	Yes

(1) Steps to identify target leverage: (i) Identify lowest score where sufficient funding remaining in District Grant or High Priority Projects pot as appropriate based on staff scenario and actual leverage; (ii) Using the project benefit score, calculate Smart Scale request amount needed to get to score; (iii) Subtract actual leverage from target leverage to determine additional leverage needed. This process was iterated based on the revised request until the result stabilized.

TAC AGENDA 2/14/23

TAC Future Meeting Topics*

Future Meeting Topics

- DRPT – Virginia Statewide Rail Plan
- Scenario Planning
- CVTA Project Prioritization Updates
- Transit Modernization Study Update

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