

August 5, 2016

MEMORANDUM

TO: Members, Transportation Technical Committee
FROM: Mark McCaskill, AICP, Director of TPO Programs
SUBJ: August 11, 2016 TTC Meeting/Agenda

The August meeting of the Transportation Technical Committee (TTC) will be held Thursday, August 11, 2016 at 1:30 pm at the Roanoke Valley-Alleghany Regional Commission office (Top Floor Conference Room), 313 Luck Avenue, SW in Roanoke, VA.

AGENDA

1. Welcome, Call to Order, Introductions *Chairman Sexton*
2. Action on the July 14, 2016 Minutes, pp. 2-6 *Chairman Sexton*
3. Final Report of the Federal TMA Certification Review of the *Mark McCaskill*
Roanoke Valley TPO, p. 7 and [Attachment](#)
4. Work Session to Further Develop Financially-Constrained *Mark McCaskill & Bryan Hill*
List of Projects, pp. 8-14
5. Other Business
6. Comments by Members and/or Citizens
7. Adjournment

TPO POLICY BOARD: Cities of Roanoke and Salem; Counties of Bedford, Botetourt, Montgomery and Roanoke; Town of Vinton; Greater Roanoke Transit Company (*Valley Metro*); Roanoke-Blacksburg Regional Airport; Virginia Department of Rail & Public Transportation; Virginia Department of Transportation

MINUTES

Transportation Technical Committee Meeting July 14, 2016

The July meeting of the Transportation Technical Committee was held on Thursday, July 14, 2016 at 1:30 p.m. at the Roanoke Valley-Alleghany Regional Commission office, 313 Luck Avenue, SW, Roanoke, VA. Attendance follows:

Member

Liz Belcher
 Dan Brugh
 Chris Chittum
 Michael Gray
 Joey Hiner
 David Holladay
 Mark Jamison
 Kevin Price
 Cody Sexton
 Ben Tripp
 Karla Turman
 Tori Williams

Representing

Roanoke Valley Greenway Commission
 Montgomery County
 City of Roanoke
 VDOT – Salem District
 Town of Vinton
 Roanoke County
 City of Roanoke
 Valley Metro
 Botetourt County
 City of Salem
 Town of Vinton
 Roanoke County

Staff Present: Cristina Finch, Bryan Hill, Mark McCaskill, Amanda McGee and Jackie Pace.

1. CALL TO ORDER, WELCOME & GUESTS IN ATTENDANCE

Chairman Holladay called the meeting to order at 1:30 p.m. and noted that a quorum was present. The following guests were in attendance: Megan Cronise, Roanoke County; Carl Palmer, Valley Metro; Sherman Stovall, City of Roanoke; and Ben Wolfenstein, Commission Intern.

2. APPROVAL OF THE JUNE 9, 2016 MINUTES

The Minutes of the June 9, 2016 TTC meeting were previously distributed.

TPO POLICY BOARD: Cities of Roanoke and Salem; Counties of Bedford, Botetourt, Montgomery and Roanoke; Town of Vinton; Greater Roanoke Transit Company (*Valley Metro*); Roanoke-Blacksburg Regional Airport; Virginia Department of Rail & Public Transportation; Virginia Department of Transportation

Transportation Technical Committee Action:

Liz Belcher moved approval of the June 9, 2016 TTC Minutes, as presented. The motion was seconded by Mark Jamison and carried. Cody Sexton abstained from the vote.

3. 2016 NOMINATING COMMITTEE REPORT

• **Election of Chair and Vice Chair**

At the June 9, 2016 TTC meeting, the following members were named to serve as the 2016 Nominating Committee: David Holladay, Michael Gray and Mark Jamison. The Nominating Committee was tasked with preparing a slate of nominees for TTC officers (Chair and Vice Chair) to be presented at the next business meeting.

The Nominating Committee presented the following slate of nominees for consideration --

| | |
|------------|---|
| Chair | Cody Sexton (Botetourt County representative) |
| Vice Chair | Ben Tripp (City of Salem representative) |

Article VI, Section 2 of the TTC Bylaws states... *“The Chair and Vice Chair shall serve for a two-year term or until their successors are elected and shall be eligible for re-election. The election of officers shall be held at the July meeting of every even numbered year and those members elected to office shall assume their duties at the conclusion of the meeting.”*

The floor was opened for additional nominations. None were voiced. The nominations were declared closed.

Transportation Technical Committee Action:

The TTC unanimously approved the proposed slate, as presented by the Nominating Committee, to serve as TTC officers for a two-year term ending June 30, 2018: Chair – Cody Sexton and Vice Chair – Ben Tripp, respectively.

David Holladay was thanked for his service as TTC Chairman for the past two years.

4. UNFINISHED BUSINESS FROM THE JUNE 9, 2016 MEETING

• **Final Review of the Draft Roanoke Valley Transit Vision Plan**

Chairman Holladay stated that County officials/staff continue to review the Roanoke Valley Transit Vision Plan. County of Roanoke, City of Roanoke and Valley Metro staffs recently met to discuss the plan. Chairman Holladay stated that the County needs additional time to continue its review.

5. FY 2015-2018 TIP AMENDMENT DISCUSSION

Bryan Hill reported that at the June TPO Meeting, VDOT officials informed the TPO Policy Board that it would be requesting an amendment to the FY 2015-2018 Transportation Improvement Program (TIP). The amendment includes two HB2 projects for consideration: Colonial Avenue

improvements, and Lila Drive/Route 115 Intersection Safety Improvements. Additionally, four new RSTP projects are included in the amendment: Valley Metro and Southern Area Agency on Aging Transit Vehicle Replacements, Tinker Creek Pedestrian Bridge, Tinker Creek Trail Extension and the Tinker Creek Connectivity Study.

Other new projects (SMART SCALE approved projects) will be grouped which does not require any revision of the TIP. Liz Belcher asked that since SMART SCALE funding was secured for the Lila Drive project, would it be removed from the RSTP list of projects. Michael Gray said he would look into that matter.

A 30-day public review and comment period began June 26, 2016. An official public hearing on the TIP Amendment will take place at the July 28, 2016 TPO Policy Board meeting at 1:00 p.m.

6. FY'17 SMART SCALE RECOMMENDATIONS

- **Candidate Project Application Recommendations to be Submitted by the Roanoke Valley Transportation Planning Organization (RVTPO)**

Bryan Hill stated that the RVTPO Policy Board is comfortable with applying for smaller scale projects on I-81, noting that the goal is to see I-81 widened. Staff presented a project listing that the Policy Board will be asked to endorse at their July 28, 2016 meeting so the application process can begin in August. Staff will be recommending the following list of FY'17 SMART SCALE (*formerly HB2*) project applications to be submitted by the Roanoke Valley Transportation Planning Organization:

- I-81 Auxiliary Lane from Exit 150 to the Truck Scales;
- I-81 Auxiliary Lane from Exits 141 and 143;
- I-81 Northbound Ramp Extension at Exit 137;
- I-81 Southbound Ramp Extension at Exit 137;
- I-581/I-81 Northbound Ramp Extension; and
- I-81 Southbound Ramp Extension at Exit 143.

Mr. Hill asked TTC members if there were any comments or changes to the list. TTC members suggested that the TPO Policy Board also consider the following additions to the project list: (1) Route 419/U.S. 220 Expressway Lane/Ramp Extension; (2) Auxiliary Lane Northbound from Exits 140 and 141; and (3) Auxiliary Lane Southbound from Exits 140 and 141.

VDOT District Planner Michael Gray indicated that VDOT would recommend to the TPO that they not apply for the ramp extension projects.

7. CONSTRAINED LIST DISCUSSION

Projects on the Constrained and Vision Lists were distributed earlier in the agenda packet. Mark McCaskill reported on the timeline for the Constrained Long-Range Transportation Plan. The first draft will be presented at the August TPO Meeting, a 30-day public comment period will begin, to be followed by a public meeting and final action on the plan at the September TPO meeting.

Cody Sexton asked that the Route 220 project (north of Eagle Rock, \$66 million) be taken off the list since it does not fall in the TPO Study Area.

Mark McCaskill asked TTC members to review the project lists and send their feedback to either him or Bryan Hill.

Michael Gray asked staff to remove all fully-funded projects in the Six-Year Improvement Program from the draft constrained list and include them in a separate table. This is because staff/VDOT can't really decide "short term," "medium term," or "long-term" for projects that are already in the SYIP. Furthermore, the fully-funded SYIP projects will serve as years 2017-2022 of the financially constrained list of projects.

8. RSTP INFORMATION UPDATE/DISCUSSION

Mark McCaskill stated that in order to get the discussion going concerning the Regional Surface Transportation Program (RSTP), he had prepared three scenarios for TTC members to review (sent via email). Mr. McCaskill also reported that Liz Belcher informed him before the meeting that she also had prepared a scenario she would like for the TTC to consider.

Ms. Belcher was asked to present her scenario to TTC members and staff. Ms. Belcher stated her aim was to look at keeping projects moving that were close to construction. Michael Gray asked that VDOT's original estimate of the gap between available funding and programmed funding be placed on the screen for comparison sake. Ms. Belcher stated that in the three scenarios provided by Mark McCaskill, the Eddy Bridge project needed \$632,114 rather than \$405,600 so that difference of \$226,514 could be programmed in FY17 since the project is ready to go out to construction.

Ms. Belcher next referred to input for engineering from the Roanoke City greenway project that Mark McCaskill's scenarios stated would need another \$3.5 million. Mark Jamison corroborated that statement by saying that the City of Roanoke would be appreciative of any help it can receive. Mr. Jamison re-iterated that the City of Roanoke is about to send bids for the first part of the project so they really need money in '17 and '18 because of project timing (would not do them any good to have the money in '22).

Michael Gray stated that by analogy, VDOT's perspective for SMART SCALE is that projects are fully funded and project sponsor's "*feet are held to the fire*" about project estimates. He stated that whoever has this project needs to be ready to answer questions from the RVTPO Policy Board if they are asking for more money. The project originally asked for \$2.8 million and it now it is up to \$6.3 million.

With regard to the Lila Drive/Rte. 117 Improvements project, Ms. Belcher stated that her scenario only shows \$517,000 and \$518,000 for FY17 and FY18 which could increase to \$750,000 in each fiscal year since the County of Roanoke stated that Lila Drive could be removed from the RSTP Financial Plan due to being fully funded under the SMART SCALE program. It is noted that this is less than the original \$3.5 million that was requested as a cost overrun because it is assumed that the City of Roanoke should be responsible for a portion of the shortfall.

Other changes in the proposed scenario included:

- Plantation Road project asked for an extra \$100,000. That project is out to bid.
- Tinker Creek Pedestrian Bridge project. Vinton asked that the project be pushed back which freed up \$1.5 million in '17.
- The Valley Metro Bus Replacement amount was extended for another \$1,955,439 in FY'22 (which still does not fully fund the original project award amount of \$14,127,475).
- Donnie Underwood (Roanoke City Parks & Recreation staff) had asked that \$300,000 be moved to '17 so money could be saved by bidding two consultant projects together. The total funding amount did not change.

Discussion ensued about the scenario presented by Liz Belcher.

Transportation Technical Committee Action:

Mark Jamison moved that the scenario presented by Liz Belcher be forwarded to the TPO Policy Board as the TTC's recommendation, as revised to include the changes discussed at the meeting. The motion was seconded by Cody Sexton and carried.

The meeting was adjourned at 3:25 p.m.

Submitted by Jackie L. Pace
Recording Secretary

Postscript: After the meeting, staff discovered that the RSTP Policy and Procedures Manual requires that project sponsor should notify the RVTPO Policy Board with a request and justification for project cost or scope changes of more than 10%. With that in mind, RSTP discussion will be taken up at the August RVTPO meeting and project sponsors will be invited so that they can communicate a request and justification for the project cost changes of more than 10% (that are included in the TTC recommendation). The presentation of information at the August RVTPO meeting will proceed as follows:

- Mark McCaskill will frame the discussion by presenting the relevant portions of the RSTP Policy and Procedures Manual and emphasizing general planning values that were highlighted in the recent federal review such as including projects that address ADA or Environmental Justice whenever possible.
- Cody Sexton, TTC Chairman, will present the specific TTC recommendation.
- Project sponsors will be asked to speak to the cost overruns and explain why, in their view, they occurred.

STAFF REPORT

SUBJ: Federal Certification Review of the Roanoke Valley Transportation Planning Organization (RVTPO) Planning Process

The Roanoke, VA TMA Certification Review report from the USDOT is attached for your reference and review. The FTA and FHWA presented this report to the RVTPO Policy Board at their July 28, 2016 meeting and no further action is needed. The important takeaway is that there were no corrective actions and several commendations. FTA and FHWA staff stated that this is very good for a first Federal Certification Review. The report is being brought to your attention to provide opportunity for discussion and any questions you may have. We will be incorporating the recommendations in this report over the next several work programs, so it is important to get the discussion started.

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STAFF REPORT

SUBJ: Work Session on Draft Financially Constrained List of Projects

The purpose of this work session is to settle any remaining questions/decisions about the number, type and basic assumptions of the draft list, so that the staff can provide the RVTPO with a draft financially constrained list at their August 25, 2016 meeting. A 30-day public comment period will also be announced in late August so that the RVTPO can take action at their September meeting.

The key item to decide regards the funding categories for each project. Each category RSTP, SMART SCALE and TA has its own financial constraint. We need you to decide for each project, that is eligible for more than one category, a preference for funding source. For example, your preference for "Project X" may be (First) SMART SCALE, (Second) RSTP, and (Third) TA. This will help us when we total up the numbers and choices/tradeoffs need to be made. Please either send your preferences to Mark and/or Bryan ahead of the workshop or bring them to the workshop. Staff will balance remaining balances in the constrained list with the "Other Discretionary" category. You don't need to express a preference for that category.

The attached draft list is up-to-date, based on staff's current understanding. We are still awaiting final input and feedback from several local governments. We may email the TTC with incremental updates to the draft constrained list before next Thursday's meeting. We will have updated information to you as soon as feedback and the process allows.

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**DRAFT FINANCIALLY CONSTRAINED LIST OF PROJECTS
PROJECTS NOT IN THE SIX-YEAR IMPROVEMENT PROGRAM**

| Project | Locality/Agency | Cost Estimate | Short-Term | Medium-Term | Long-Term | Generally Preferred Time Frame | Eligibility |
|--|---|---------------|------------|-------------|-----------|--------------------------------|-----------------------|
| Road/Highway/Interstate Projects | | | | | | | |
| Valley View Boulevard Extension | City of Roanoke | \$48,334,000 | 4 | 2 | 1 | Short-Term | RSTP, Smart Scale |
| Jefferson St. – Elm to McClanahan (road diet) | City of Roanoke | \$12,700,800 | 1 | 2 | 3 | Short-to Long-Term | RSTP, Smart Scale |
| East Main Street Phase II – Brand Ave. to Kessler Mill | City of Salem | \$13,000,000 | 3 | 2 | 0 | Short to Medium-Term | RSTP, Smart Scale |
| East Main Street/Downtown Salem Streetscape | City of Salem | \$7,000,000 | 2 | 3 | 0 | Short to Medium-Term | RSTP, Smart Scale, TA |
| Downtown Streetscape and Intersection Improvements | City of Salem | \$300,000 | 4 | 0 | 0 | Short-Term | RSTP, Smart Scale, TA |
| Airport Road/Route 118 Tunnel Rehabilitation | Roanoke-Blacksburg Regional Airport | \$6,425,000 | 3 | 2 | 1 | Short to Medium-Term | RSTP, Smart Scale |
| Auxiliary Lane Projects | | | | | | | |
| I-81 Auxiliary Lane Projects | Roanoke Co., Botetourt Co., City of Salem | \$100,000,000 | | | | Short-Term | Smart Scale |
| Studies | | | | | | | |
| Colonial Avenue Improvements – Brandon Ave. to Winding Way (streetscape, C&G, sidewalk, widen 1-in., drainage) | City of Roanoke | \$5,335,400 | 2 | 4 | 0 | Medium-Term | RSTP, Smart Scale, TA |
| Bike/Pedestrian/Transit Access Projects | | | | | | | |
| King St. – Gus Nicks to Orange (add turn lanes, C&G, sidewalk, bike lanes, drainage, reconstruct signal) | City of Roanoke | \$7,511,000 | 0 | 5 | 1 | Medium-Term | RSTP, Smart Scale |
| Liberty Rd. - Burrell to Hollins (add turn lanes, C&G, sidewalk, bike lanes, drainage, reconstruct signal) | City of Roanoke | \$6,941,200 | 1 | 3 | 2 | Medium to Long-Term | RSTP, Smart Scale |
| Melrose/Salem Turnpike/Orange (dev. Of village ctrs., bike/ped impr, parking, drainage) | City of Roanoke | \$1,512,000 | 3 | 2 | 2 | Any Timeframe | RSTP, Smart Scale, TA |
| Valley View Blvd. Transit Access/Pedestrian Improvements | City of Roanoke | \$300,000 | 4 | 0 | 0 | Short-Term | RSTP, Smart Scale, TA |
| Bus Stop Accessibility | City of Roanoke / GRTC | \$1,000,000 | 3 | 2 | 0 | Short to Medium-Term | RSTP, Smart Scale, TA |
| Real Time Information System (short-term) | GRTC | \$225,000 | 4 | 1 | 0 | Short-Term | RSTP, Smart Scale |
| Various Bus Stop Access Improvements/Enhancements | GRTC / Various Localities | \$2,000,000 | 2 | 2 | 2 | Any Timeframe | RSTP, Smart Scale, TA |
| Electric Road/419 & Brambleton to Postal Multimodal Improvements | Roanoke Co. | \$100,000 | 3 | 1 | 0 | Short-Term | RSTP, Smart Scale, TA |
| West Main Street Pedestrian Improvements – Phase II | Roanoke Co. | \$909,386 | | | | | RSTP, Smart Scale, TA |
| Brambleton Avenue – Transit/Bike/Ped Improvements | Roanoke Co., City of Roanoke | \$3,634,000 | 1 | 4 | 1 | Medium-Term | RSTP, Smart Scale, TA |
| Transit Facilities Projects | | | | | | | |
| Downtown Roanoke Intermodal Station | City of Roanoke / GRTC | \$10,000,000 | 3 | 3 | 0 | Short to Medium-Term | RSTP, Smart Scale, TA |
| Carilion Transfer Facility | City of Roanoke / GRTC | \$750,000 | 3 | 2 | 0 | Short to Medium-Term | RSTP, Smart Scale, TA |
| Crossroads Transfer Facility | City of Roanoke / GRTC | \$750,000 | 2 | 3 | 0 | Short to Medium-Term | RSTP, Smart Scale, TA |
| Roanoke County Transfer Facilities (various) | Roanoke Co. / GRTC | \$850,000 | 2 | 3 | 0 | Short to Medium-Term | RSTP, Smart Scale, TA |
| Lewis Gale Transfer Facility | City of Salem | \$100,000 | 4 | 1 | 0 | Short-Term | RSTP, Smart Scale, TA |
| Downtown Salem Transfer Facility | City of Salem | \$100,000 | 3 | 2 | 0 | Short to Medium-Term | RSTP, Smart Scale, TA |
| VA Medical Center Transfer Facility | City of Salem | \$50,000 | 3 | 1 | 0 | Short-Term | RSTP, Smart Scale, TA |
| Transit Vehicles Projects | | | | | | | |
| Ongoing Bus Replacement and Rebuild Program | GRTC | \$14,127,475 | 2 | 4 | 2 | Any Timeframe | RSTP |
| Six (6) Additional Vehicles (short-term) | GRTC | \$2,790,000 | 3 | 2 | 0 | Short to Medium-Term | RSTP, Smart Scale |
| Greenway Projects | | | | | | | |
| Mason Creek Greenway | City of Salem | \$1,500,000 | 4 | 2 | 0 | Short to Medium-Term | RSTP, Smart Scale, TA |
| Roanoke River Greenway from Rotary Park to Roanoke City Corporate Limit | City of Salem | \$3,000,000 | | | | Short-Term | RSTP, Smart Scale, TA |
| Glade Creek Greenway, Phase II | Town of Vinton | \$526,210 | 4 | 1 | 1 | Short-Term | RSTP, Smart Scale, TA |
| Glade Creek Greenway, Phase III | Town of Vinton | \$300,000 | 2 | 2 | 1 | Any Timeframe | RSTP, Smart Scale, TA |

| | | | | | | | |
|---|-----------------|---------------|---|---|---|------------|-----------------------|
| Tinker Creek Trail Extension | City of Roanoke | \$1,220,000 | 5 | 1 | 0 | Short-Term | RSTP, Smart Scale, TA |
| ITS Projects | | | | | | | |
| Traffic signal improvements at Electric Road/419 & Brambleton Ave. (traffic & video control sensors, upgrade to LED lights) | Roanoke Co. | \$280,000 | 4 | 1 | 0 | Short-Term | RSTP, Smart Scale |
| | | \$253,571,471 | | | | | |

Notes:

1. Cost estimates in red were developed by staff using VDOT's Project Cost Estimating System
2. The number assigned in "Short, Medium and Long-Term" columns are representative of votes received for each time frame.
3. Any project(s) with no votes for the preferred timeframe were submitted by staff and localities following the initial voting.

DRAFT FINANCIALLY CONSTRAINED LIST OF PROJECTS
PROJECTS CURRENTLY IN THE SIX-YEAR IMPROVEMENT PROGRAM

| Project | Locality/Agency | SYIP Fully Funded | Short-Term | Medium-Term | Long-Term | Generally Preferred Time Frame |
|---|---|-------------------|------------|-------------|-----------|--------------------------------|
| RSTP Projects | | | | | | |
| Tinker Creek Trail Extension | City of Roanoke | \$1,220,000 | 5 | 1 | 0 | Short-Term |
| Tinker Creek Greenway Connectivity Study | City of Roanoke, Botetourt Co., Roanoke Co. | \$400,000 | 6 | 1 | 0 | Short-Term |
| Tinker Creek Pedestrian Bridge | City of Roanoke, Town of Vinton | \$1,459,500 | 6 | 0 | 0 | Short-Term |
| Valley Metro Transit Vehicle Replacements | GRTC | \$14,127,475 | 2 | 4 | 2 | Any Timeframe |
| SMART SCALE Projects | | | | | | |
| HB2 FY17 Transit Accessibility Improvements on Edgewood Street | City of Roanoke | \$351,000 | 4 | 2 | 0 | Short to Medium-Term |
| HB2 FY17 U.S. 220 Communications and Adaptive System Project | City of Roanoke | \$423,000 | 5 | 1 | 0 | Short-Term |
| HB2 FY17 Colonial Avenue Improvements | City of Roanoke | \$7,000,000 | 4 | 1 | 0 | Short-Term |
| HB2 FY17 10TH Street - 2 Lane, Bike Lane, Curb & Gutter, Sidewalk | City of Roanoke | \$12,451,000 | 4 | 1 | 1 | Short-Term |
| HB2 FY17 Multimodal Improvements along Boulevard | City of Salem | \$885,000 | 3 | 0 | 0 | Short-Term |
| HB2 FY17 U.S. 460 - Widen TO 3 Lanes w/ Bike Lane, Curb, Sidewalk | City of Salem | \$2,912,000 | 2 | 2 | 0 | Short to Medium-Term |
| HB2 FY17 Roanoke River Greenway, Green Hill Park to Riverside Park | Roanoke Co. | \$4,542,000 | 6 | 0 | 0 | Short-Term |
| HB2 FY17 I-81 NB Auxiliary Lane from Exit 141 to 143 | Roanoke Co. | \$18,323,000 | 6 | 0 | 0 | Short-Term |
| HB2 FY17 Lila Dr. / Rte. 115 Intersection Safety Improvements | Roanoke Co. | \$1,269,000 | 5 | 1 | 0 | Short-Term |
| HB2 FY17 Rte. 311 / Rte. 419 Int. Safety & Congestion Improvements | Roanoke Co. | \$1,957,000 | 4 | 1 | 0 | Short-Term |
| HB2 FY17 Rte. 419 Safety Improvements at Tanglewood | Roanoke Co. | \$5,853,000 | 4 | 2 | 0 | Short to Medium-Term |
| Road/Highway/Interstate Projects | | | | | | |
| Rte. 24 Bedford County - Safety Improvements | Bedford Co. | \$1,600,000 | 2 | 2 | 0 | Short to Medium-Term |
| Rte. 460 Safety Improvements | Bedford Co. | \$4,510,000 | 4 | 1 | 0 | Short-Term |
| Rte. 11,220,220A Access Management Project at I-81 Exit 150 | Botetourt Co. | \$18,038,000 | 2 | 3 | 0 | Short to Medium-Term |
| Tenth Street Improvements | City of Roanoke | \$3,459,000 | 4 | 1 | 0 | Short-Term |
| 13 th Street/Hollins Rd. Improvements | City of Roanoke | \$40,909,000 | 3 | 2 | 2 | Short to Medium-Term |
| Develop Orange Avenue to Urban 6 Lanes | City of Roanoke | \$45,381,000 | 1 | 2 | 4 | Long-Term |
| I-73 - Roanoke County - Partial PE Only | Roanoke Co. | \$39,996,000 | 0 | 2 | 4 | Medium to Long-Term |
| Rte. U000 - Walnut Ave. Int. Improvement at 8th Street | Town of Vinton | \$2,318,000 | 2 | 2 | 0 | Short to Medium-Term |
| Bike/Pedestrian/Transit Access Projects | | | | | | |
| Rte. 221 Bedford Co. - Bike & Ped Safety Improvements *(discuss scope @ mtg.) | Bedford Co. | \$2,550,000 | 2 | 1 | 2 | Any Timeframe |
| Garden City Blvd. Bike/Ped - Transportation Alternatives | City of Roanoke | \$246,000 | 6 | 0 | 0 | Short-Term |
| East Main Street / College Avenue - Pedestrian Improvements | City of Salem | \$1,001,000 | 4 | 0 | 0 | Short-Term |
| West Main Street Sidewalk Installation | Roanoke Co. | \$134,000 | 6 | 0 | 0 | Short-Term |
| Rte. 311 (under I-81) Bike & Ped Safety Improvements | Roanoke Co. | \$700,000 | 2 | 4 | 0 | Short to Medium-Term |
| Rte. 11 & 117 (Peters Creek Rd./Williamson Rd. Int.) - Bike & Ped Safety Improvements | Roanoke Co. | \$1,000,000 | 1 | 4 | 1 | Medium-Term |
| Seniors/Individuals with Disabilities Transit Projects | | | | | | |
| Southern Area Agency on Aging Transit Vehicle Replacements | SAAoA | \$240,000 | | | | Short-Term |
| RADAR Paratransit Vehicles | RADAR | \$585,000 | | | | Short-Term |
| Greenway Projects | | | | | | |
| Roanoke River Greenway - City of Roanoke to Blue Ridge Parkway | Roanoke Co. | \$1,608,000 | 5 | 1 | 0 | Short-Term |

| Transportation Demand Management | | | | | | |
|---|--------------|----------------------|---|---|---|------------|
| Exit 140 Park and Ride Reconstruction | Roanoke Co. | \$474,000 | 4 | 1 | 1 | Short-Term |
| | TOTAL | \$220,715,000 | | | | |

Notes:

1. Cost estimates highlighted yellow indicate a balance in the SYIP after FY22.
2. The number assigned in "Short, Medium and Long-Term" columns are representative of votes received for each time frame.
3. Any project(s) with no votes for the preferred timeframe were submitted by staff and localities following the initial voting.

DRAFT FINANCIALLY CONSTRAINED LIST OF PROJECTS

VISION LIST OF PROJECTS

| Project | Locality/Agency | Cost Estimate | Eligibility |
|---|-----------------------------------|---------------|-----------------------|
| Road/Highway/Interstate Projects | | | |
| Hershberger Rd. – Cove to Peters Creek (add turn lanes, C&G, sidewalk, bike lanes, drainage) | City of Roanoke | \$6,889,400 | RSTP, Smart Scale, TA |
| Cove Rd. – Hershberger to Peters Creek (add turn lanes, C&G, sidewalk, bike lanes, drainage) | City of Roanoke | \$7,511,000 | RSTP, Smart Scale, TA |
| Church Ave. – Jefferson to 5th streetscape improvements | City of Roanoke | \$2,797,200 | RSTP, Smart Scale |
| Williamson Rd. – Orange to Angell (road diet) | City of Roanoke | \$9,531,200 | RSTP, Smart Scale |
| Memorial Ave. – Grandin to Denniston (streetscape impr.) | City of Roanoke | \$1,450,400 | RSTP, Smart Scale |
| Hollins Rd. (Orange Ave. to Liberty Rd) widening to 4 lanes w/bicycle ln. | City of Roanoke | \$6,106,740 | RSTP, Smart Scale, TA |
| McVitty Rd. & Old Cave Spring Rd. Improvements | Roanoke Co. | \$19,305,742 | RSTP, Smart Scale |
| Friendship Lane/Carvins Creek Bridge Replacement | Roanoke Co. | \$136,495 | RSTP, HSIP |
| Apperson Drive over Roanoke River Bridge Repl./Widening – Bike/Ped Accommodations | City of Salem | \$5,150,000 | RSTP, Smart Scale, TA |
| Interchange Lighting at I-81 Exits 137-150 | Salem, Roanoke Co., Botetourt Co. | \$8,410,000 | RSTP |
| Walnut Avenue and 8 th Street Intersection | Town of Vinton | \$2,334,931 | RSTP, Smart Scale, TA |
| Comprehensive Traffic Intersection Improvements | Town of Vinton | \$2,750,000 | RSTP, Smart Scale |
| Bike/Pedestrian/Transit Access Projects | | | |
| Campbell Avenue Bike and Ped Improvements | City of Roanoke | \$3,300,000 | RSTP, Smart Scale, TA |
| 9th St., SE (streetscape, pedestrian improvements, roundabouts, road diet & ped impr.) | City of Roanoke | \$7,252,000 | RSTP, Smart Scale, TA |
| Second Pedestrian Bridge over I-581 at Valley View Blvd. | City of Roanoke | \$4,000,000 | RSTP, Smart Scale, TA |
| Future Joint Transit/Bike/Ped Improvement Projects | City of Roanoke, Roanoke Co. | \$1,855,000 | RSTP, Smart Scale, TA |
| Apperson Drive Streetscape/Multimodal Improvements | City of Salem | \$250,000 | RSTP, Smart Scale, TA |
| Braeburn Drive – Transit/Bike/Ped Improvements | City of Salem | \$510,000 | RSTP, Smart Scale, TA |
| Virginia Ave./Rte. 24 bicycle improvements (from ECL City of Roanoke to Chestnut St. * (Discuss this and other bike projects at mtg.) | Town of Vinton | TBD | RSTP, Smart Scale, TA |
| Hardy Road SRTS Project (to include new signalized intersection) | Town of Vinton | \$250,000 | RSTP, Smart Scale, TA |

| Transit Facilities Projects | | | |
|---|------|----------------------|-------------------|
| Valley Metro Expanded Maintenance Facility | GRTC | \$2,200,000 | RSTP, Smart Scale |
| Transit Vehicles Projects | | | |
| Nine (9) Additional Vehicles (medium-term) | GRTC | \$5,274,000 | RSTP, Smart Scale |
| Twenty-two (22) Additional Vehicles (long-term) | GRTC | \$14,740,000 | RSTP, Smart Scale |
| NOTE: cost estimates in red were developed by staff using VDOT's Project Cost Estimating System. | | \$112,004,108 | |