



## Technical Advisory Committee Meeting Agenda

**February 2, 2023, 2:00 p.m.**

Rockingham County Administration Center  
20 East Gay Street  
Harrisonburg, VA 22802

### To Join Meeting Via Zoom:

**Meeting ID:** 831 7396 3220   \*\*\*\*   **Passcode:** 492921   \*\*\*\*   **Dial In:** +1 646 931 3860

1. Call to Order
2. Approval of Minutes of the November 3, 2022 Meeting\*
3. Public Comment
4. Consideration of 2045 Fiscally-Constrained Long Range Plan (CLRP) (TAC AF #23-1)\*
5. HRMPO 2023 Infrastructure Condition and System Performance Measures (TAC Memo #23-1)
6. HRMPO 2023 Safety Performance Targets (TAC Memo #23-2)
7. FY 21-24 Transportation Improvement Program (TIP) Amendment (TAC Memo #23-3)
8. Agency Updates
  - a. VDOT
  - b. DRPT
  - c. HDPT
  - d. Harrisonburg Public Works
9. Other Business
10. Upcoming Meetings
  - a. HRMPO Policy Board Meeting, Thursday, February 16, 2023, 3:00 p.m.
  - b. HRMPO TAC Meeting, Thursday, March 2, 2023, 2:00 p.m.
11. Adjournment

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\* Action needed

**HRMPO TAC Minutes**  
**November 3, 2022, 2:00 p.m.**  
Rockingham County Administration Center  
20 East Gay Street  
Harrisonburg, Virginia 22802

<b>Voting Member</b>	<b>Alternates</b>	<b>Staff</b>
<b>City of Harrisonburg</b>	Megan Byler, Bridgewater	✓ Ann Cundy
✓ Tom Hartman	Libby Clark, Mt. Crawford	✓ Ansley Heller
✓ Bill Blessing, Chair	✓ Jakob zumFelde, Harrisonburg	✓ Rita Whitfield
Thanh Dang	Elliot Menge, Harrisonburg	
✓ Erin Yancey	Dan Rublee, Harrisonburg	<b>Others</b>
✓ Cheryl Spain	Josh Dunlap, VDOT	✓ Shane McCabe, VDOT*
<b>Rockingham County</b>	Jeff Lineberry, VDOT	✓ Kyle Lawrence, SVBC*
✓ Rhonda Cooper, Vice Chair	✓ Burgess Lindsey, VDOT	✓ Sam Styers, McCormick Taylor*
Casey Armstrong	Angela Lawrence, Dayton	✓ Jon Crisafi, Kittelson & Associates*
✓ Rachel Salatin	Kayla Yankey, Rockingham	✓ Dylan Nicely, Rockingham
<b>Town of Bridgewater</b>	Wood Hudson, DRPT	✓ Kim Sandum, Shen. Alliance
✓ Alex Wilmer	Gerald Gatobu, Harrisonburg	✓ Neal Dillard, Mt. Crawford
<b>Town of Dayton</b>		
✓ Christa Hall		
<b>Town of Mt. Crawford</b>	<b>Non-Voting Members</b>	
J. C. Smythers	Kevin Jones, FHWA	
<b>VDOT</b>	Michelle DeAngelis, FTA	
✓ Brad Reed	Bill Yates, JMU	
Don Komara	Rusty Harrington, Aviation	
<b>DRPT</b>	✓ Valerie Kramer	
✓ Grace Stankus*		
*Zoom Participants		

**Call to Order**

The November 3, 2022, meeting of the Harrisonburg-Rockingham Metropolitan Planning Organization Technical Advisory Committee (HRMPO TAC) was called to order at 2:00 p.m. by Chairperson Bill Blessing. Pursuant to §2.2-3708.2 of the Code of Virginia, HRMPO Policy Board members may participate in meetings of the HRMPO or its committees through electronic communication means. Those who attended virtually are indicated by an asterisk; all others attended in-person. A voting member who participated by Zoom per the HRMPO Resolution (outlining

electronic participation when the member is unable to attend the meeting) will provide a qualifying reason for participating electronically, which will be recorded in written form and attached to the file minutes.

### **Minutes**

Chairperson Blessing presented the minutes from the September 1, 2022, TAC meeting. Ms. Cooper moved, seconded by Mr. Hartman, to approve the minutes as presented. Motion carried unanimously.

### **Public Comment**

Chairperson Blessing opened the floor for public comment. There were no comments from the public.

### **Long Range Transportation Plan (LRTP) Phase 2 Report and Consideration of 2045 Project and Studies List (TAC Action Form AF#22-2)**

Chairperson Blessing presented the LRTP Phase 2 Report and Consideration of 2045 Project and Studies List. Ms. Cundy reported on the MetroQuest survey for Phase 2 of public engagement, noting that the survey closed on September 16<sup>th</sup>, with 685 respondents. She noted that respondents rated all the projects and studies in the survey more favorably than negatively. Ms. Cundy stated that MPO staff developed a Phase 2 Public Engagement Report, which is posted on the HRMPO's website. She noted that the LRTP Working Group reviewed public input and all comments, which are also posted on the Website. Ms. Cundy reported on the next steps, noting that the HRMPO will continue working with consultants Kimley-Horn to score the project list and prioritize the studies and will present a draft scored project list and final revenue projections for highway and transit investments to the Working Group in December 2022. Ms. Cooper moved, seconded by Mr. Reed, to recommend that the Policy Board approve the list of projects and studies for scoring and prioritization in the 2045 LRTP. Motion was carried by unanimous vote.

### **Presentation: *City of Harrisonburg Mt. Clinton Pike Reconfiguration Study*, Jon Crisafi, PT, PTOE, Senior Engineer, Kittelson & Associates, Inc.**

Mr. Hartman introduced and welcomed Mr. Jon Crisafi, Senior Engineer, Kittelson & Associates, Inc. Mr. Crisafi presented a PowerPoint presentation on the City of Harrisonburg Mt. Clinton Pike Reconfiguration Study. He stated that the study purpose was to evaluate existing traffic operations and safety conditions, identify opportunities for improving safety/connectivity, assess future travel projections and development patterns, and develop road reconfiguration design concept. Mr. Jakob

zumFelde reviewed the next steps, noting that the City will coordinate public outreach and implementation and construction is scheduled for 2023.

## **Agency Updates**

### **Department of Transportation (VDOT)**

Mr. Lindsey reported on the following construction projects in the area: noted that the bikeway signs have been installed on the Route 720 bridge project; gave an update on the Route 33 bridge project in Harrisonburg, which replaces two bridges over Interstate 81 at Exit 247, noting that lane closures will begin next week and construction signs have been installed; reported on the Route 682 Friedens Church Road bridge project in Rockingham County; gave an update on the Town of Broadway's Route 259 bridge replacement project; reported on Route 11 widening just south of Harrisonburg, noting that progress was continuing with the right-of-way acquisition; gave an update on the sidewalk project on Route 11 at Harrisonburg's city limits, noting that a public hearing was held on October 19<sup>th</sup> on the project and according to the comments from the hearing, the proposed project was well received; reported on the Mt. Crawford Park and Ride lot improvement project, noting that the project is currently in the design phase; and gave an update on Friedmans' Church road curve project around the Church to the east of the Interstate, noting that it is scheduled for advertisement this month. Mr. Reed reported on the status of the SMART SCALE validation process, noting that it is ongoing and finalization of cost estimates will be wrapping up soon; and reported on three Transportation Improvement Program (TIP) amendments that he will be presenting next month to the HRMPO.

### **Department of Rail and Public Transportation (DRPT)**

Ms. Stankus reported on DRPT's staff changes, noting that Mr. Zach Trogdon is DRPT's new Chief of Public Transportation, and Mr. Grant Sparks has resumed his role as Director of Transit Planning. She reported on two upcoming workshops that DRPT will be hosting: 1) a Public Transit Grant Application Workshop for local and regional transit agency partners across Virginia on November 16, 2022, at 10:00 a.m. in preparation for the Fiscal Year 2024 grant application cycle, which opens on December 1, 2022; and 2) a virtual Commuter Assistance Program Grant Workshop on November 15, 2022, from 10 a.m. to noon for any agency and vanpool provider that may seek grant funds from DRPT to operate a commuter assistance program or project. Ms. Stankus gave an update on DRPT's Coordinated Human Services Mobility (CHSM) Plan, noting that the Plan identifies statewide and regional gaps as well as recommendations for meeting transportation needs and improving human services transportation in Virginia for older adults, people with disabilities, and individuals with low income.



She noted that DRPT is requesting input to develop needs and recommendations about transportation preferences via survey.

**Harrisonburg Department of Public Transportation (HDPT)**

Ms. Spain gave an update on HDPT, noting that HDPT is preparing for the FY24 grant cycle. She reported on the purchasing of transit buses and the need for additional bus drivers. Ms. Spain reported on the status of the Microtransit Feasibility Study.

**City of Harrisonburg Department of Public Works**

Mr. Hartman reported on the preparation of the City's snow plows for the upcoming winter season; ongoing paving construction projects in the City of Harrisonburg; the South Main Street project, noting that engineering is set to begin soon; and reported on the status of the Port Republic Road and University Boulevard relocation projects, noting that they are entering the right of way utility phase.

**Other Business**

Under Other Business, Ms. Cundy reported on the National Association of MPOs (AMPO) Annual Conference she attended in Minneapolis, MN on October 25-28. She stated that the AMPO Annual Conference is the premier event for MPOs to learn and network and provides the opportunity to meet with other MPO directors, transportation planners, and elected officials from across the country. Ms. Cundy stated that she, along with the Director of the Richmond MPO and Avid Core consultants, gave a presentation on hybrid public engagement.

**Upcoming Meetings**

Chairperson Blessing announced that the HRMPO Policy Board will hold a meeting on November 17, 2022, at 3:00 p.m.; and the next HRMPO TAC meeting will be held on December 1, 2022, at 2:00 p.m.

**Adjournment**

There being no further business to come before the Commission, a motion for adjournment was unanimously passed at 3:10 p.m.

Respectfully submitted,

Ann Cundy  
Director of Transportation



**TO:** Harrisonburg-Rockingham MPO Technical Advisory Committee

**FROM:** Ann Cundy, Director of Transportation

**MEETING  
DATE:** February 2, 2023

**RE:** **TAC Action Form #23-1 –Consideration of 2045 Fiscally-  
Constrained Long Range Plan (CLRP)**

#### RECOMMENDATION:

Recommend that the TAC approve the CLRP for inclusion in the 2045 Long Range Transportation Plan (LRTP), and recommend its approval to the Policy Board.

#### EXECUTIVE SUMMARY:

MPO Long Range Transportation Plans must include a list of projects that can reasonably be delivered with projected available revenues during the planning period, and that demonstrate their benefits to the region via a performance-based evaluation methodology. HRMPO staff, the LRTP Working Group, and consultants Kimley-Horn have developed a set of deliverables for the CLRP.

#### BACKGROUND

##### *Project Evaluation and Prioritization*

HRMPO contracted with Kimley-Horn to score the Universe of Projects based on evaluation measures for each LRTP Goal Area: Safety, Accessibility, Land Use, Economic Development, and Environmental Mitigation. It should be noted that Congestion Mitigation is a LRTP Goal Area; however, none of the projects in the Universe of Projects can be evaluated individually for their congestion mitigation benefits via the Travel Demand Model. Kimley-Horn thus did not score projects on Congestion Mitigation benefits. **Attachments 1 and 2** document the process of evaluating projects' performance and ability to deliver benefits in support of the HRMPO region's LRTP goals.

##### *Revenues*

Projected revenues for the region reflect base assumptions developed by VDOT and DRPT (for HDPT) and programmed revenues for the years of the FY23-28 Six Year Improvement Program (SYIP). We have grouped the two SMART SCALE programs together, and grouped the discretionary programs (Transportation Alternatives, Highway Safety Improvement Program, and Revenue Sharing) together in **Attachment 3**.

##### *CLRP*

The CLRP documents the prioritized projects from the Universe of Projects that can be funded with the projected revenues through 2045. Projects funded in the FY23-28 SYIP + projects recommended for funding in the SMART SCALE Round 5 staff funding scenario are considered "Committed," and were not part of the fiscal constraint exercise. They are still included in the LRTP to document projects



to be constructed in the MPO in the next 25 years. Attachment 4 documents the draft CLRP on page 1 and the Committed List on page 2.

#### NEXT STEPS

With the TAC's recommendation, HRMPO staff will share the draft 2045 CLRP with the Policy Board at the February 16, 2023, meeting prior to including it in the draft 2045 LRTP Document.

#### ATTACHMENTS:

Attachment 1: 2045 LRTP Goal Areas and Goal Weighting

Attachment 2: Project Scoring Summary

Attachment 3: 2045 Projected Revenues

Attachment 4: Draft 2045 CLRP and Committed List



<b>Goal Area and Weight</b>	<b>HRMPO LRTP Goal</b>
<b>Safety — 27%</b>	Increase the safety and security of the transportation system for all users.
<b>Accessibility — 24%</b>	Provide an efficient, reliable transportation system for pedestrians, bicyclists and transit users, including traditionally underserved populations.
<b>Economic Development — 23%</b>	Support and improve the economic vitality of the region by encouraging a transportation system that provides access to jobs and education, and attracts businesses and entrepreneurs to the region.
	Ensure connectivity of the transportation system across modes for the transport of both people and goods.
<b>Environment — 12%</b>	Improve quality of life by protecting and enhancing historic and natural resources, promoting energy conservation, maintaining air quality, and expanding regional recreation networks.
<b>Land Use — 14%</b>	Encourage the coordination of land use and transportation planning in order for transportation improvements to support future growth.



PROJECT ID	JURISDICTION	PROJECT NAME	Rank	Project Score	Project Cost	Project Benefit	Safety Weighted Factor Value	Accessibility Weighted Factor	Economic Development Weighted Factor Value	Environment Weighted Factor	Land Use Weighted Factor Value
39	Harrisonburg	Mason St. Improvements	1	5133.39	\$ 40,000.00	20.5	0.0	2.6	7.6	2.0	8.3
45	Harrisonburg	Mason St. Improvements	2	2953.28	\$ 100,000.00	29.5	4.4	3.6	7.2	5.5	8.8
38	Harrisonburg	Mason St. Improvements	3	1856.87	\$ 100,000.00	18.6	0.2	6.9	7.1	4.3	0.0
83	Harrisonburg	Burgess Rd./Linda Ln. Reconfigurations	4	500.99	\$ 800,000.00	40.1	14.3	12.1	6.7	7.0	0.0
90	Harrisonburg	VA-42 (High St.)	5	394.21	\$ 500,000.00	19.7	0.0	10.7	1.1	7.9	0.0
20	Harrisonburg	S. Carlton St. Improvements	6	252.39	\$ 1,000,000.00	25.2	0.4	2.5	8.0	9.0	5.3
9	Rockingham	Erickson Ave. Improvements	7	180.08	\$ 1,000,000.00	18.0	0.0	5.4	0.0	8.0	4.6
17	Harrisonburg	Old Furnace Rd. Sidewalks	8	125.34	\$ 1,500,000.00	18.8	0.0	4.3	3.0	7.9	3.6
104	Harrisonburg	Erickson Ave. and Pear St. R-CUT	11	88.17	\$ 3,500,000.00	30.9	8.4	7.6	2.4	5.9	6.5
81	Rockingham	US-33(Spotswood Trail) at VA-280(Stone Spring Rd.) Turn Lane Improvements	9	91.25	\$ 3,076,300.00	28.1	0.4	16.0	1.9	6.9	2.8
63	Harrisonburg	S. Main Corridor Improvements (Northern Scope)	10	88.43	\$ 6,738,070.00	59.6	1.9	16.3	18.9	8.7	13.7
91	Harrisonburg	Neff Ave.	12	73.53	\$ 2,000,000.00	14.7	0.0	2.1	4.6	7.9	0.0
102	Harrisonburg	Mt. Clinton Pike Corridor Safety	14	62.37	\$ 6,800,000.00	42.4	2.7	9.7	11.9	8.0	10.2
105	Harrisonburg	Reservoir St. Sidewalk	13	62.92	\$ 4,900,000.00	30.8	0.0	9.6	2.0	8.0	11.3
82	Rockingham	US-33(Spotswood Trail) at Rockingham Park Way R-CUT	15	61.93	\$ 3,600,000.00	22.3	0.9	15.2	0.2	5.9	0.0
15	Rockingham	Garbers Church Rd. Improvements	16	49.96	\$ 2,500,000.00	12.5	0.1	6.4	0.1	6.0	0.0
106	Harrisonburg	N.Main St. Sidewalk	17	49.66	\$ 6,000,000.00	29.8	0.0	6.4	7.4	10.0	6.1
35	Rockingham	US-33 Improvements	18	47.32	\$ 11,000,000.00	52.0	27.0	6.6	4.4	10.0	4.1
85	Harrisonburg	Neff Ave. Shared Use Path	21	40.17	\$ 4,000,000.00	16.1	2.9	1.1	2.2	9.9	0.0
37	Harrisonburg	E. Market St. and Reservoir St. Intersection Improvements	19	44.45	\$ 7,000,000.00	31.1	1.1	12.1	9.6	8.3	0.0
59	Harrisonburg	Erickson Ave. Multimodal Improvements	20	42.72	\$ 6,400,000.00	27.3	0.0	9.9	1.0	9.9	6.6
4	Harrisonburg	Country Club Rd. (west) Improvements	22	39.88	\$ 10,000,000.00	39.9	0.6	12.3	9.1	11.0	6.9
103	Harrisonburg	Liberty St.- Downtown Harrisonburg	24	32.61	\$ 12,200,000.00	39.8	8.7	7.8	6.7	7.8	8.8
86	Rockingham	US-33(Spotswood Trail) at VA-276(Cross Keys Road) R-CUT	23	36.65	\$ 7,700,000.00	28.2	3.3	12.7	0.3	5.9	6.0
58	Harrisonburg	Martin Luther King Jr Way Extension	25	31.82	\$ 13,600,000.00	43.3	0.0	8.2	16.1	12.0	7.0
62	Bridgewater	Riverwalk	28	27.63	\$ 4,000,000.00	11.1	1.3	1.0	0.0	8.8	0.0
8	Rockingham	Oakwood Dr. Improvements	26	29.50	\$ 10,500,000.00	31.0	0.0	4.5	3.0	9.5	14.0
84	Harrisonburg	Bluestone Trail Extension	29	27.12	\$ 10,000,000.00	27.1	9.0	3.4	5.5	9.1	0.0
18	Harrisonburg	Country Club Rd. (east) Improvements	27	28.03	\$ 17,000,000.00	47.6	2.5	13.2	8.1	11.0	12.9
30	Harrisonburg	Smithland Rd. Improvements	30	16.27	\$ 15,000,000.00	24.4	0.5	6.7	4.1	9.7	3.3
21	Harrisonburg	Pleasant Valley Rd. Improvements	31	15.27	\$ 25,700,000.00	39.2	1.2	8.7	10.5	10.8	8.1

HRMPO 2045 LRTP Projected Revenues - Highway												
Funding Program	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	FY2033	FY2034
Interstate 81 Improvement Program	\$15,749,000	\$95,355,000	\$11,119,000	\$38,269,000	\$55,070,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SMART SCALE (DGP and SHPP)	\$8,038,000	\$14,293,000	\$13,100,000	\$4,281,000	\$2,401,000	\$3,026,000	\$5,260,445	\$5,418,780	\$5,517,006	\$5,689,053	\$5,900,636	\$6,070,126
Discretionary Programs (TAP, HSIP, RS)	\$9,194,000	\$6,378,000	\$2,527,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
State of Good Repair	\$9,666,000	\$7,737,000	\$5,813,000	\$646,000	\$0	\$0	\$3,053,075	\$3,171,827	\$3,245,496	\$3,374,531	\$3,533,218	\$3,660,336
Maintenance – Localities	\$6,000,000	\$6,186,000	\$6,377,766	\$6,575,477	\$6,779,317	\$6,989,475	\$7,206,149	\$7,429,540	\$7,659,855	\$7,897,311	\$8,142,128	\$8,394,534
Maintenance – VDOT	\$22,121,646	\$22,188,278	\$22,707,159	\$23,217,256	\$24,184,263	\$24,705,725	\$25,238,722	\$25,783,510	\$26,340,351	\$26,909,510	\$27,491,260	\$28,085,882

Funding Program	FY2035	FY2036	FY2037	FY2038	FY2039	FY2040	FY2041	FY2042	FY2043	FY2044	FY2045	Total
Interstate 81 Improvement Program	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$215,562,000
SMART SCALE (DGP and SHPP)	\$6,214,931	\$6,380,017	\$6,547,890	\$6,717,488	\$6,894,709	\$7,086,202	\$7,272,319	\$7,471,944	\$7,642,924	\$7,796,357	\$7,948,525	\$156,968,352
Discretionary Programs (TAP, HSIP, RS)	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$38,099,000
State of Good Repair	\$3,768,940	\$3,892,754	\$4,018,659	\$4,145,858	\$4,278,774	\$4,422,393	\$4,561,981	\$4,711,700	\$4,839,935	\$4,955,009	\$5,069,135	\$92,565,624
Maintenance – Localities	\$8,654,764	\$8,923,062	\$9,199,677	\$9,484,867	\$9,778,898	\$10,082,043	\$10,394,587	\$10,716,819	\$11,049,040	\$11,391,561	\$11,744,699	\$197,057,566
Maintenance – VDOT	\$28,693,658	\$29,314,882	\$29,949,850	\$30,598,868	\$31,262,245	\$31,940,301	\$32,633,360	\$33,341,755	\$34,065,826	\$34,805,919	\$35,562,390	\$651,142,616

**Assumptions:**

Average \$1 mil each year in TAP/RS/HSIP

Improve 81 Phase 2 unknown, so no revenue past what's in the SYIP

No increases based on ILJA. Only a 5-year bill.

Maintenance - Localities Based on Harrisonburg FY23 and historic maintenance payments annual increase of 3.1%/year

**HRMPO 2045 LRTP Projected Revenues - Transit**

<b>Estimated Total Annual Transit Revenues</b>				
	<b>5303</b>	<b>5307/5340</b>	<b>5339</b>	<b>Total</b>
FY 2022	\$129,709	\$3,797,790	\$928,820	<b>\$4,856,319</b>
FY 2023	\$133,600	\$3,911,723.70	\$956,684.42	<b>\$5,002,008</b>
FY 2024	\$137,608	\$4,029,075.41	\$985,384.95	<b>\$5,152,069</b>
FY 2025	\$141,737	\$4,149,947.67	\$1,014,946.50	<b>\$5,306,631</b>
FY 2026	\$145,989	\$4,274,446.10	\$1,045,394.89	<b>\$5,465,830</b>
FY 2027	\$150,368	\$4,402,679.49	\$1,076,756.74	<b>\$5,629,805</b>
FY 2028	\$154,879	\$4,534,759.87	\$1,109,059.44	<b>\$5,798,699</b>
FY 2029	\$159,526	\$4,670,802.67	\$1,142,331.22	<b>\$5,972,660</b>
FY 2030	\$164,311	\$4,810,926.75	\$1,176,601.16	<b>\$6,151,839</b>
FY 2031	\$169,241	\$4,955,254.55	\$1,211,899.20	<b>\$6,336,395</b>
FY 2032	\$174,318	\$5,103,912.19	\$1,248,256.17	<b>\$6,526,486</b>
FY 2033	\$179,548	\$5,257,029.55	\$1,285,703.86	<b>\$6,722,281</b>
FY 2034	\$184,934	\$5,414,740.44	\$1,324,274.97	<b>\$6,923,949</b>
FY 2035	\$190,482	\$5,577,182.65	\$1,364,003.22	<b>\$7,131,668</b>
FY 2036	\$196,197	\$5,744,498.13	\$1,404,923.32	<b>\$7,345,618</b>
FY 2037	\$202,082	\$5,916,833.08	\$1,447,071.02	<b>\$7,565,986</b>
FY 2038	\$208,145	\$6,094,338.07	\$1,490,483.15	<b>\$7,792,966</b>
FY 2039	\$214,389	\$6,277,168.21	\$1,535,197.64	<b>\$8,026,755</b>
FY 2040	\$220,821	\$6,465,483.26	\$1,581,253.57	<b>\$8,267,558</b>
FY 2041	\$227,446	\$6,659,447.75	\$1,628,691.18	<b>\$8,515,584</b>
FY 2042	\$234,269	\$6,859,231.19	\$1,677,551.91	<b>\$8,771,052</b>
FY 2043	\$241,297	\$7,065,008.12	\$1,727,878.47	<b>\$9,034,184</b>
FY 2044	\$248,536	\$7,276,958.37	\$1,779,714.83	<b>\$9,305,209</b>
FY 2045	\$255,992	\$7,495,267.12	\$1,833,106.27	<b>\$9,584,365</b>
<b>Total</b>	<b>\$4,465,423</b>	<b>\$130,744,504</b>	<b>\$31,975,988</b>	<b>\$167,185,915</b>

Assumptions:

DRPT provided FY2023-27 allocations at the level of FY2022 funding, with a 3% inflation factor. For all additional years beyond FY2027, DRPT recommends using a straight line projection.



**Draft 2045 CLRP**

PROJECT ID	Rank from Scoring	JURISDICTION	PROJECT NAME	PROJECT DESCRIPTION	Funding Program	Term (SYIP, Mid, Long)	2022 Cost Estimate	YOE Cost Estimate		Fiscally Constrained		
SMART SCALE												
83	4	Harrisonburg	Burgess Rd./Linda Ln. Reconfigurations	Reconfigurations of Burgess Rd. median and Linda Ln./Frontage Rd. intersection with removal of Traffic Signal	SS	Long	\$800,000	\$1,380,000		Available SMART SCALE FY30-FY45	Sum of Projects	Balance
20	6	Harrisonburg	S. Carlton St. Improvements	Improve to a three-lane facility including center turn lanes, sidewalks and storm drain facilities	SS	Mid	\$1,000,000	\$1,480,000		\$106,568,907	\$105,184,344	\$1,384,563
63	11	Harrisonburg	S. Main St. Corridor--Northern Scope	S. Main St. - Install raised median, sidewalk from Mosby Rd. to Pleasant Valley Rd.	SS	Mid	\$6,738,070	\$9,972,344				
91	12	Harrisonburg	Neff Ave. Sidewalks	Add sidewalks from Reservoir St. to Valley Mall entrance	SS	Mid	\$2,000,000	\$2,960,000				
102	13	Harrisonburg	Mt. Clinton Pike Corridor Safety	Install sidewalk on north side from Acorn Dr. to N. Main St. Install pedestrian crossing for Northend Greenway at railroad crossing near VA-42 (Virginia Ave.). Install roundabout at Acorn Dr.	SS	Mid	\$6,800,000	\$10,064,000				
82	15	Rockingham	US-33(Spotswood Trail) at Rockingham Park Way R-CUT	US-33(Spotswood Trail) at Rockingham Park Way Restricted Crossing U-Turn	SS	Mid	\$3,600,000	\$5,328,000				
15	16	Rockingham	Garbers Church Rd. Improvements	Provide wide shoulders (buggy lanes) and add turn lanes at appropriate locations from Erickson Ave to VA-42 (John Wayland Hwy)	SS	Mid	\$2,500,000	\$3,700,000				
4	22	Harrisonburg	Country Club Rd. (west) Improvements	Create center turn lane with sidewalk and shared use path Country Club Rd. from Vine St. to the 1-81 bridge	SS	Mid	\$10,000,000	\$14,800,000				
103	23	Harrisonburg	Liberty St.- Downtown Harrisonburg	Reconfigure Liberty St. between N. Main/Noll Dr. and Main St. to convert one travel lane to a buffered cycle track.	SS	Mid	\$12,200,000	\$18,056,000				
86	24	Rockingham	US-33(Spotswood Trail) at VA-276(Cross Keys Road) R-CUT	US-33(Spotswood Trail) at VA-276(Cross Keys Road) Restricted Crossing U-Turn	SS	Mid	\$7,700,000	\$11,396,000				
58	25	Harrisonburg	Martin Luther King Jr Way Extension	Extend Martin Luther King Jr Way from E. Market St. into Country Club Rd. Create new intersection with Country Club Rd. Add sidewalk and bike facilities to Martin Luther King Jr Way and Country Club Rd.	SS	Mid	\$13,600,000	\$20,128,000				
62	26	Bridgewater	Riverwalk	Extend Riverwalk shared use path and bike lane from Wildwood Park to Sandy Bottom Park	SS	Mid	\$4,000,000	\$5,920,000				
8	27	Rockingham	Oakwood Dr. Improvements	Improve to 2-lane rural collector from US-11 to Bridgewater Town limits. Include shared use path.	SS	Long	\$10,500,000	\$18,112,500				
84	28	Harrisonburg	Bluestone Trail Extension	Extend the Bluestone Trail from Stone Spring Rd. to Rocktown High School and S. Main St.	SS	Mid	\$10,000,000	\$17,250,000				
18	29	Harrisonburg	Country Club Rd. (east) Improvements	Construct a three-lane facility including a center turn lane with sidewalk and shared use path on Country Club Rd. from the I-81 bridge to E. Market St.	SS	Mid	\$17,000,000	\$25,160,000				

30	30	Harrisonburg	Smithland Rd. Improvements	Widen Smithland Rd. to a 3-lane urban median arterial facility. Realign the intersection of Smithland Rd. and Old Furnace Rd. to make Smithland Rd. the through movement and Old Furnace (from the County) the stop condition. Construct a shared use path from this intersection to connect to the existing shared use path located along Smithland Rd. near Smithland Fields	SS	Long	\$15,000,000	\$25,875,000				
21	31	Harrisonburg	Pleasant Valley Rd. Improvements	Improve Pleasant Valley Rd. to a three-lane facility including a center turn lanes and shared use path from S. Main St. to SCL	SS	Long	\$25,700,000	\$44,332,500				
<b>Discretionary Programs</b>										Fiscally Constrained		
90	5	Harrisonburg	VA-42 (High St.)	Add sidewalk on west side of road from Hidden Creek Ln. to Erickson Ave.	TAP	Mid	\$500,000	\$740,000				
9	7	Rockingham	Erickson Ave. Improvements	Add bike lanes both sides from US-33 (S. Main St.) to WCL	TAP	Mid	\$1,000,000	\$1,480,000		Available Discretionary FY30-FY45	Sum of Projects	Balance
17	8	Harrisonburg	Old Furnace Rd. Sidewalks	Construct sidewalk to fill gaps and add pedestrian infrastructure at intersections to create continuous pedestrian route between Summit St. and Oriole Ln.	TAP	Mid	\$1,500,000	\$2,220,000		\$16,000,000	\$14,912,924	\$1,087,076
81	10	Rockingham	US-33(Spotswood Trail) at VA-280(Stone Spring Rd.) Turn Lane Improvements	Install additional northbound approach lane on VA-280(Stone Spring Rd.)	RS	Mid	\$3,076,300	\$4,552,924				
35	18	Rockingham	US-33 Improvements	Implement corridor-wide safety and operational improvements from US-33 Arterial Management Plan from ECL to MPO Boundary, to include crossover modification, updated signs and markings, and rumble strips	TAP/HSIP	Mid	\$11,000,000	\$16,280,000				
85	19	Harrisonburg	Neff Ave. Shared Use Path	Construct a Shared Use Path along the south side of Neff Ave. Between Port Republic Rd. and Carrier Aboretum Trail at Sunchase Drive	TAP	Mid	\$4,000,000	\$5,920,000				
37	20	Harrisonburg	E. Market St. and Reservoir St. Intersection Improvements	Widen Reservoir St. at the intersection, rebuild the signal, and improve crosswalks to improve safety and operations	RS	Mid	\$7,000,000	\$10,360,000				
59	21	Harrisonburg	Erickson Ave. Multimodal Improvements	Add bike and pedestrian facilities between VA-42 (John Wayland Hwy) and Garbers Church Rd.	TAP	Mid	\$6,400,000	\$9,472,000				



**2045 LRTP Committed (Funded) Projects**

PROJECT ID	JURISDICTION	PROJECT NAME	PROJECT DESCRIPTION	Cost Estimate
104	Harrisonburg	Erickson Ave. and Pear St. R-CUT	Provide a Restructured Crossing U-Turn intersection to relocate the northbound Pear St. left turns to U-turns on Erickson Ave.	\$3,500,000
105	Harrisonburg	Reservoir St. Sidewalk	Install sidewalk on east side of Reservoir St. from Dutch Mill Ct to Harrisonburg Crossing shopping center entrance.	\$4,900,000
100	Harrisonburg	S. Main St. Corridor- Southern Scope	Implement recommendations from Project Pipeline study, including median, dual left and thru cut at Pleasant Valley Rd., and sidewalk on the Pleasant Velly approach to S. Main St., and from Kaylor Park Drive to Pointe Drive.	\$6,165,499
106	Harrisonburg	N.Main St. Sidewalk	Install sidewalk on west side and bike lanes on both sides of US-11(N.Main St.) from Charles St. to Mt Clinton Pike. Install sidewalk on south side of Vine St. from N. Main St. and Harris Gardens.	\$6,000,000
39	Harrisonburg	Mason St. Improvements	E. Bruce St. and S. Mason St., bulb outs and realign north leg crosswalk, sidewalk on the southern side of the intersection, and narrowing eastbound approach to a single lane.	\$40,000
45	Harrisonburg	Mason St. Improvements	E. Wolfe St. and N. Mason St., install crosswalks and eastbound turning lane	\$100,000
38	Harrisonburg	Mason St. Improvements	E. Market St. and N. Mason St., add a westbound right hand turning lane with right turn overlap.	\$100,000
TBD	Harrisonburg	NORTHEND GREENWAY BROOKSIDE PHASE TAP	FY23-28 SYIP/Description Forthcoming	\$386,000
	Harrisonburg	University Blvd Relocation RS		\$16,508,000
	Harrisonburg	COUNTRY CLUB RD. SIDEWALK - SRTS ENHANCEMENT		\$610,000
	Bridgewater	Riverwalk Phase III (TAP)		\$481,000
	Bridgewater	Gen Oak Connector		\$22,000
	Bridgewater	Main Street Pedestrian Improvements		\$92,000
	Harrisonburg	#SMART18 - (ST) I-81 EXIT 247 INTERCHANGE IMPROVEMENTS		\$3,260,000
	Harrisonburg	#SMART22 - S. MAIN & I-81 EXIT 243 INTERCHANGE IMPROVEMENTS		\$4,619,000
	Harrisonburg	#SMART22 - S. MAIN SAFET IMPROVEMENTS		\$2,208,000
	Harrisonburg	#SMART22 - PORT REPUBLIC ROAD TURN LANE AND SIDEWALK		\$2,243,000
	Harrisonburg	#SMART20 UNIVERSITY BLVD/EVELYN BYRD AVE RD DIET & SIDEWALK		\$2,723,000
	Rockingham	#HB2.FY17 ROUTE 11 S. VALLEY PIKE ROADWAY IMPROVEMENTS		\$183,000
	Rockingham	#SMART20 US 11 N(NORTH VALLEY PIKE) SIDEWALK		\$1,799,000
	Rockingham	#SMART20 US 33 & ROUTE 620 TURN LANES		\$452,000



PROJECT ID	JURISDICTION	PROJECT NAME	PROJECT DESCRIPTION	Cost Estimate
	Rockingham	#SMART22 - Smithland Road Shoulder Widening		\$3,227,000
	Harrisonburg	#SGR17VB - RT. 33 REPL BRIDGES OVER NSRR (FED 20446 & 20447)		\$3,689,000
	Harrisonburg	#SGR18VB - RT 33 OVER I-81 EXIT 247 IMPR EBL; STR NO. 20443		\$7,053,000
	Harrisonburg	#SGR19VB - RT 33 OVER I-81 EXIT 247 IMPR WBL (STR 20441)		\$13,120,000
	Harrisonburg	#SMART22 - N. MAIN STREET SIDEWALK		\$2,061,000
	Harrisonburg	#SMART22 - PORT REPUBLIC ROAD CORRIDOR IMPROVEMENTS		\$3,539,000
	Harrisonburg	#SMART20 US 33 (MARKET STREET) AND I-81 IMPROVEMENTS		\$7,375,000
	Rockingham	#SMART22 - MOUNT CRAWFORD PARK AND RIDE LOT IMPROVEMENTS		\$2,725,000
	Rockingham	#HB2.FY17 RT 11 S VALLEY PK RDWY IMPROVE GARVEE DEBT SERVICE		\$8,725,000
	MPO	#I81CIP NB & SB MM 242 TO 248, 3-LANE WIDENING (ID #62)		\$215,562,000



**TO:** Harrisonburg-Rockingham MPO Policy Board  
**FROM:** Ansley Heller, Transportation Planner  
**MEETING DATE:** February 2, 2023  
**RE:** **TAC Memo #23-2: HRMPO 2023 Safety Performance Targets**

## EXECUTIVE SUMMARY

In 2016, the Federal Highway Administration (FHWA) established National Performance Measures for Safety Performance for the Highway Safety Improvement Program (HSIP) to assess fatalities and serious injuries on public roads. The FHWA requires that state DOTs and MPOs set statewide annual safety percentage targets for reducing the number and rate of fatalities and serious injuries.

The HRMPO must concur with VDOT's safety targets or set MPO-specific targets by February 28, 2023. There is no penalty for not meeting the targets.

## STATEWIDE TARGETS AND GOALS

### Approved Targets

In June 2022, the Commonwealth Transportation Board (CTB) approved OIPI's proposed methodology and statewide targets for calendar year 2023. OIPI's methodology establishes targets from statistical models that project future safety performance based on data variables and expected crash reductions from completed projects. Data variables include five-year trends of the annual number of fatalities, serious injuries, and non-motorized fatalities and serious injuries.

In 2023, OIPI projects 1,012 fatalities, 7,465 serious injuries, and 662 non-motorized fatalities and serious injuries statewide. The number and rate of fatalities and serious injuries are based on the following 2023 percentage changes:

- Fatalities: Increase of 3.69%
- Serious Injuries: Decrease of 0.52%
- Non-Motorized Fatalities and Serious Injuries: Decrease of 0.86%
- Vehicle Miles Traveled: Increase of 0.77%

### Aspirational Goals

While the CTB approved OIPI's 2023 statewide targets, the Board found the anticipated safety outcomes unacceptable. As a result, the CTB established "Aspirational Safety Performance Goals" to be consistent with the State's 2022 – 2026 Strategic Highway Safety Plan, which establishes a goal to reduce fatalities and serious injuries by two percent annually. **Table 1** summarizes both the approved safety targets, and the aspirational goals.





**Table 1 2023 Approved Safety Targets and Aspirational Goals**

Safety Measures	Approved Statewide Safety Targets	Aspirational Safety Performance Goals
Number of Fatalities	1,012	930
Rate of Fatalities per 100 million VMT	1.216	1.117
Number of Serious Injuries	7,465	7,104
Rate of Serious Injuries per 100 million VMT	8.971	8.537
Number of Non-Motorized Fatalities and Serious Injuries	662	658

Between 2019 and 2022, HRMPO’s fatality rate and the total number of fatalities met or exceeded the statewide targets. In 2021 the MPO recorded seven fatalities, exceeding the 2021 goal. Data from January 1, 2022 - October 31, 2022 shows nine fatalities, over double the 2022 fatality target.

Non-motorized Fatalities/Severe injuries follow a slightly different trend. In 2019 and 2021, non-motorized fatalities/serious injuries met or exceeded the safety targets, whereas in 2020 and 2022, they were below safety targets.

**Table 2: Safety Targets and Actual Numbers, 2019 – 2023**

	2019 Target	2019 Actual	2020 Target	2020 Actual	2021 Target	2021 Actual	2022 Target	2022 Actual*	2023 Target
Fatalities	2	4	4	10	4	7	4	9	4
Rate of Fatalities per 100M VMT	0.33	0.56	0.65	0.827	0.633	0.591	0.621	NA	0.626
Serious Injuries	40	42	40	34	41	55	37	39	38
Rate of Serious Injury Per 100M VMT	6.08	6.508	6.033	6.07	6.119	6.121	5.799	NA	5.582
Non-motorized Fatalities/Serious Injuries	5	8	5	3	5	5	6	4	6

\*Data from January 1 – October 31, 2022

**NEXT SETPS**

Staff will submit a letter to VDOT concurring with the statewide safety targets for 2022, and continue to evaluate opportunities for the MPO, state, and local partners to address the upward trend in fatal and serious injury crashes in the region.

**ATTACHMENT**

[HRMPO letter of concurrence with State DOT safety targets](#)



**TO:** Harrisonburg-Rockingham MPO Policy Board

**FROM:** Ansley Heller, Transportation Planner

**MEETING DATE:** February 2, 2023

**RE:** **TAC Memo #23-3 – FY 21-24 Transportation Improvement Program (TIP) Amendment Release for Public Comment**

## EXECUTIVE SUMMARY

The TIP must include all funded construction projects in an urbanized area. Through the review process for the TIP and STIP update for fiscal years 2024 – 2027, VDOT and MPO staff identified two projects in the current FY 2021 - 2024 TIP under “Construction: Safety/ITS/Operational Improvements” that should be ungrouped and listed as individual projects based on their scale and regional significance.

The following projects are recommended for ungrouping and are listed on page 24 of the attached TIP Amendment:

- UPC 108810 - US 11 Valley Pike Road Improvements
- UPC 116280 - I-81 Widening MM 242-248

## NEXT STEPS

Staff will release the FY21-24 TIP Amendment for a 21-day public comment period and present the Amendment to the Policy Board for approval at the next scheduled Board meeting.

## ATTACHMENT

[FY21-24 TIP Amendment](#)