



HRMPO Policy Board Meeting Agenda February 16, 2023, 3:00 p.m. VIA ZOOM Only

To Join Meeting Via Zoom:

Meeting ID: 893 4412 4047 **** **Passcode:** 306573 **** **Dial In:** 301-715-8592

1. Call to Order
2. Approval of Minutes of the December 15, 2022, Policy Board Meeting*
3. Public Comment
4. Election of Officers (BAF #23-01)*
5. Consideration of the FY 21-24 Transportation Improvement Program (TIP) Amendment (BAF #23-02)*
6. Consideration of the Draft 2045 Fiscally-Constrained Long Range Plan (CLRP) (BAF #23-3)*
7. HRMPO 2023 Infrastructure Condition and System Performance Measures (Board Memo #23-1)
8. HRMPO 2023 Safety Performance Targets (Board Memo #23-2)
9. Agency Updates
 - a. VDOT
 - b. DRPT
 - c. HDPT
 - d. Localities
10. Upcoming Meetings
 - a. HRMPO TAC Meeting, Thursday, March 2, 2023, 2:00 p.m.
 - b. HRMPO Policy Board Meeting, Thursday, March, 16, 2023, 3:00 p.m.
11. Adjournment

* Action needed



HRMPO Policy Board Minutes December 15, 2022, 3:00 p.m.

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

Voting Members	Non-Voting Members	Staff
City of Harrisonburg	Kevin Jones, FHWA	Bonnie Riedesel, CSPDC
Sal Romero	Michelle DeAngelis, FTA	✓ Ann Cundy, CSPDC
Deanna Reed	Rusty Harrington, Aviation	✓ Ansley Heller, CSPDC
Vacant	✓ Grace Stankus, DRPT	✓ Rita Whitfield, CSPDC
✓ Gerald Gatobu	Bill Yates, JMU	
	✓ Valerie Kramer, JMU	
Rockingham County	Alternates	✓ Tom Hartman, Harrisonburg
✓ Casey Armstrong	✓ Rhonda Cooper, Rockingham	✓ Burgess Lindsey, VDOT
Rick Chandler	Rachel Salatin, Rockingham	✓ Chris Quinn, Harrisonburg-Rockingham Chamber
Stephen King	Cheryl Spain, Harrisonburg	✓ Kyle Lawrence, Shenandoah Valley Bicycle Coalition
Town of Mt. Crawford	Ande Banks, Harrisonburg	✓ Erin Belt, VDOT
✓ Dennis Driver, Chair	✓ Alex Wilmer, Bridgewater	✓ Kim Sandum, Shenandoah Alliance
Town of Dayton	✓ Neal Dillard, Mt. Crawford	
Angela Lawrence	✓ Christa Hall, Dayton	
Town of Bridgewater	✓ Brad Reed, VDOT	
Jay Litten	Jeff Lineberry, VDOT	
VDOT	✓ Don Komara, VDOT	
✓ Todd Stevens	Matt Dana, VDOT	
	Wood Hudson, DRPT	

Call to Order

The December 15, 2022, meeting of the Harrisonburg-Rockingham Metropolitan Planning Organization (HRMPO) Policy Board was called to order at 3:05 p.m. by Chairperson Dennis Driver. Based on the 2022 amendment to Virginia's FOIA law, the HRMPO is eligible to hold up to three meetings virtually each year. Due to inclement weather, the HRMPO December 15, 2022, meeting was held via video conferencing using Zoom.

Chairperson Driver introduced and welcomed Mr. Todd Stevens, new representative for VDOT; and Mr. Neal Dillard, Town Mt. Crawford.



Approval of Minutes

Chairperson Driver presented the minutes from the October 20, 2022, HRMPO Policy Board meeting. Mr. Armstrong moved, seconded by Mr. Gatobu, to approve the minutes as presented. Motion carried with Ms. Cooper abstaining due to her absence from the meeting.

Public Comment

Chairperson Driver opened the floor to the public for comments. There were no comments from the public.

Consideration of the HRMPO 2023 Meeting Calendar (BAF #22-7)

Chairperson Driver presented for consideration the HRMPO 2023 Meeting Calendar. Ms. Cundy reviewed the Calendar, noting that staff will publish a public notice for the 2023 meeting schedules in local newspapers and post them on www.hrvampo.org in accordance with the HRMPO Public Participation Plan (PPP). She stated that changes to the date, time or location of all meetings will be posted on the website and publicly noticed in local newspapers as required by the PPP. Ms. Cundy suggested the MPO look into the possibility of revising the PPP to allow more flexibility of being able to hold all virtual meetings by Zoom when there is inclement weather, while still making sure the MPO is responsive to the public and the requirements of the State's FOIA law. Ms. Cooper stated that the Community Development Room has been reserved for the listed meetings for 2023. Mr. Armstrong moved, seconded by Mr. Gatobu, for approval of the HRMPO 2023 Meeting Calendar. Motion was carried by unanimous vote.

Consideration of the FY21-24 Transportation Improvement Program (TIP) Amendment Release for Public Comment (BAF #22-8)

Chairperson Driver presented for consideration the FY21-24 TIP Amendment to be released for public comment. Ms. Cundy noted that VDOT and MPO staff identified two projects in the current FY21-24 TIP under "Construction: Safety/ITS/Operational Improvements" that should be ungrouped and listed as individual projects based on their scale and regional significance: 1) UPC 108810 - US 11 Valley Pike Road Improvements; and 2) UPC 116280 - I-81 Widening MM 242-248. She stated that 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. Mr. Armstrong moved, seconded by Mr. Stevens, to release the FY 21-24 TIP amendment for public comment. Motion carried unanimously.



Consideration of the 2045 Long Range Transportation Plan (LRTP) Final Project List (BAF #22-9)

Chairperson Driver presented for consideration the 2045 LRTP Final Project List (attached to file minutes). Ms. Cundy gave a review on the final Universe of Projects (UOP) and how it was developed, noting that the final UOP includes projects from recent plans and studies, the 2040 LRTP, and from Kimley Horn's gap analysis of regional transportation deficiencies. She noted that through Phase II public engagement, the public reviewed and provided comment on the proposed projects. Ms. Cundy noted that six hundred eighty-five (685) people responded to the Phase II survey on the UOP. She stated that the projects with the highest approval rates featured improvements to pedestrian and cycling infrastructure, with safety and accessibility concerns as reasons these projects ranked so highly. Ms. Cundy stated that at their November 3, 2022 meeting, the TAC recommended that the Policy Board approve the final UOP for scoring and prioritization to create the fiscally-constrained and vision lists in the 2045 LRTP. Mr. Armstrong moved, seconded by Mr. Gatobu, to approve the final UOP for the 2045 LRTP. Motion was carried by unanimous vote.

Presentation: National Electric Vehicle Infrastructure Formula Program, Erin Belt, Decarbonization Lead, VDOT

Chairperson Driver introduced and welcomed Ms. Erin Belt, Decarbonization Lead, VDOT, who was present to give a presentation on the Virginia National Electric Vehicle Infrastructure (NEVI) Program. Ms. Belt stated that the NEVI Formula program will provide dedicated funding to States to strategically deploy EV charging infrastructure and establish an interconnected network to facilitate data collection, access, and reliability. She noted that the Deployment Plan, adopted September 2022, will be a living document that will be updated at least annually, and VDOT will continue its outreach strategies throughout the five-year NEVI program duration to further solicit stakeholder input, refine and adjust strategies, and evaluate whether Commonwealth and national goals are being achieved. Ms. Belt reported on NEVI charging stations, the Deployment Plan Vision and Goals, planning phases, public outreach, Virginia EV charging infrastructure, and alternative fuel corridors. She presented existing and potential AFC sites, and reviewed charging station deployment and grant program for charging and fueling infrastructure.

Agency Updates

Virginia Department of Transportation (VDOT)

Mr. Komara gave an update on the following projects: reported on the inclement weather conditions that occurred today, noting that the Interstates and primary roads are clear; reported on the status of the Friedens Church Road bridge project in Rockingham County, noting that the bridge is completed; reported on the Route 720 Smithland Road, noting that the project is moving along; gave an update on the Route 33 bridge construction project at Exit 247, with a completion date of October 2025; reported on the Fairfield bridge project, noting that it was moving along well and should be completed next year; gave an update on the four-lane Route 11 project and meeting with property owners; reported on the public hearing that was held on October 19th regarding the sidewalk project on Route 11 at Harrisonburg's city limits; and reported on I-81 projects and suggested visiting <https://improve81.org> for updates. Mr. Reed reported on SMART SCALE, noting that staff is progressing towards a staff recommended scenario. He stated that the CTB will hold a meeting on January 17, 2023, and will review initially funded SMART SCALE projects recommended by staff at that meeting. Mr. Reed reported on SMART SCALE validation, noting that it will be wrapped up in December as well as cost estimates.

Virginia Department of Rail and Public Transportation (DRPT)

Ms. Stankus report on FY24 applications for Rail Transit and Commuter Assistance, noting that DRPT is currently accepting applications. She noted that if anyone has any questions regarding the applications, to please contact her.

City of Harrisonburg Department of Public Transportation (HDPT)

Mr. Gatobu gave an update on the Microtransit Feasibility Study, noting that it was ongoing. He noted that the City of Harrisonburg public schools were out for the Holidays and will return in January, as well as James Madison University. Mr. Gatobu reported on the shortage of bus drivers.

City of Harrisonburg Public Works

Mr. Hartman reported on the City of Harrisonburg's SMART SCALE projects, noting that the City has six projects that are currently under the engineering phase.



Other Business

On behalf of the HRMPO members, Ms. Cundy expressed her sincere appreciation to Chairperson Driver for his dedicated service to the Policy Board, and to the people of the region, shown during his incumbency from October 2015 to December 2022. Chairperson Driver expressed his appreciation to the HRMPO members, VDOT, and HRMPO staff for their hard work and dedication.

Upcoming Meetings

Chairperson Driver announced the following upcoming meetings: HRMPO TAC meeting will be held on January 5, 2023, at 2:00 p.m., and the HRMPO Policy Board meeting will be held on January 19, 2023, at 3:00 p.m.

Adjournment

There being no further business to come before the HRMPO Policy Board, Mr. Armstrong moved, seconded by Mr. Gatobu, for adjournment at 4:15 p.m. Motion was carried by unanimous vote.

Respectfully submitted,

A handwritten signature in cursive script that reads "Ann W. Cundy".

Ann Cundy
Director of Transportation



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

FROM: Bonnie Riedesel, Secretary-Treasurer

MEETING DATE: February 16, 2023

RE: **Policy Board Action Form #23-1 – Special Election of Officers**

RECOMMENDATION:

Recommend election of a Board Chair and Vice-Chair to fill the unexpired terms for the now-vacant positions.

EXECUTIVE SUMMARY

The former HRMPO Policy Board Chair, Dennis Driver, and Vice-Chair, Richard Baugh, are no longer members of their local elected bodies, and have vacated their roles on the MPO Policy Board. The current voting members must elect a Chair and Vice-Chair to fill their unexpired terms.

The current Chair and Vice-Chair terms end on June 30, 2023.

BACKGROUND

The Chair and Vice Chair must be elected officials, and shall serve for two years, or until their successors are elected. A City representative and a County or Town representative shall serve as either Chair or Vice Chair; however, in no case shall both offices be filled with representatives from the same locality at the same time. For the purposes of this section, County and Towns are considered to be one locality. The Secretary-Treasurer shall be the CSPDC Executive Director.



TO: Harrisonburg-Rockingham MPO Policy Board

FROM: Ann Cundy, Director of Transportation

MEETING DATE: February 16, 2023

RE: **Policy Board Action Form #23-2 – FY 21-24 Transportation Improvement Program (TIP) Amendment**

RECOMMENDATION:

Staff recommends approval of the FY 21-24 TIP Amendment by the Policy Board.

EXECUTIVE

SUMMARY

The Policy Board approved release of a draft FY 21-24 TIP Amendment at the December 18, 2022, Board meeting for a 21-day public comment period. The HRMPO did not receive any public or agency comments during that period. The amendment, which ungroups two regionally significant projects, is included on page 26 of the TIP document.

BACKGROUND

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 26 of the attached TIP Amendment:

- [UPC 108810](#) - US 11 Valley Pike Road Improvements from Oakwood Drive (VA 704) to Pike Church Road (VA 701)
- [UPC 116280](#) - I-81 Widening MM 242-248

ATTACHMENT

[FY 21-24 TIP Amendment](#)



TO: Harrisonburg-Rockingham MPO Technical Advisory Committee

FROM: Ann Cundy, Director of Transportation

MEETING DATE: February 16, 2023

RE: **Board Action Form #23-3 – Consideration of the Draft 2045 Fiscally-Constrained Long Range Plan (CLRP)**

RECOMMENDATION:

Recommend that the Board approve the fiscally-constrained project list for inclusion in the draft 2045 Long Range Transportation Plan (LRTP).

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 scoring process. HRMPO staff, the LRTP Working Group, and consultants Kimley-Horn have developed a set of CLRP deliverables for the Board's consideration. The TAC recommended approval of the draft 2045 CLRP for inclusion in the LRTP at the February 3, 2023 meeting.

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 their 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 that can be funded with the projected revenues through 2045, and reflects inflated *Year Of Expenditure* project cost estimates. To calculate the Year of Expenditure cost estimates, the LRTP Working Group defined projects as SYIP, Mid- or Long-Term, and identified a mid-year for each time period. Staff then applied an inflation factor to 2022 cost estimates for the mid-year of each time period.

Committed List

Projects funded in the FY23-28 SYIP + projects recommended for funding in the SMART SCALE Round 5 staff 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 pages 1 and 2, and the Committed List starting on page 3.

NEXT STEPS

With the Board’s approval, staff will include the CLRP in the draft 2045 LRTP Document and complete environmental review and environmental justice analysis of the projects prior to releasing the draft document for public comment.

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



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BAF 23-03 Attachment 1

Goal Area and Weight	HRMPO LRTP Goal
Safety — 27%	Increase the safety and security of the transportation system for all users.
Accessibility — 24%	Provide an efficient, reliable transportation system for pedestrians, bicyclists and transit users, including traditionally underserved populations.
Economic Development — 23%	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.
Environment — 12%	Improve quality of life by protecting and enhancing historic and natural resources, promoting energy conservation, maintaining air quality, and expanding regional recreation networks.
Land Use — 14%	Encourage the coordination of land use and transportation planning in order for transportation improvements to support future growth.

BAF 23-3 Attachment 2

PROJECT ID	JURISDICTION	PROJECT NAME	Rank	Project Score	Project Cost	Project Benefit	Safety Weighted Factor Value	Accessibility Weighted Factor Value	Economic Development Weighted Factor Value	Environment Weighted Factor Value	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
63	Harrisonburg	S. Main Corridor Improvements (Northern Scope)	9	110.51	\$ 5,391,741.00	59.6	1.9	16.3	18.9	8.7	13.7
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	10	91.25	\$ 3,076,300.00	28.1	0.4	16.0	1.9	6.9	2.8
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

BAF 23-3 Attachment 3

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 IIJA. 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

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

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.

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	\$103,191,777	\$3,377,130
63	9	Harrisonburg	S. Main St. Corridor--Northern Scope	S. Main St. - Install raised median, sidewalk from Mosby Rd. to Pleasant Valley Rd.	SS	Mid	\$5,391,741	\$7,979,777				
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				

Discretionary Programs										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	11	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				

PROJECT ID	JURISDICTION	PROJECT NAME	PROJECT DESCRIPTION	PROJECT BEGIN POINT	PROJECT END POINT	Funding Program	Term (SYIP, Mid, Long)	2022 Cost Estimate
104	Harrisonburg	Erickson Ave. and Pear St. R-CUT	From: Pear St. To Erickson Ave. Provide a Restructured Crossing U-Turn intersection to relocate the northbound Pear St. left turns to U-turns on Erickson Ave.	Pear St	Erickson Ave	SS	SYIP	\$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.	Dutch Mill Ct	Harrisonburg Crossing shopping center	SS	SYIP	\$4,900,000
100	Harrisonburg	S. Main St. Corridor-Southern	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.	Pleasant Valley Rd	Pointe Dr	SS	SYIP	\$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.	Charles St	Mt Clinton Pike	SS	SYIP	\$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.	E Bruce St	S Mason St	Maintenance	SYIP/Repaving	\$40,000
45	Harrisonburg	Mason St. Improvements	E. Wolfe St. and N. Mason St., install crosswalks and eastbound turning lane	E Wolfe St	N Mason St	Maintenance	SYIP/Repaving	\$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.	E Market St	N Mason St	Maintenance	SYIP/Repaving	\$100,000
1	Harrisonburg	(UPC- 121206) NORTHEND GREENWAY BROOKSIDE PHASE TAP	Construct shared use path between Roberts Court and the existing path at Jefferson St. 0.1900 MI http://syip.virginiadot.org/Pages/lineitemDetails.aspx?syp_scenario_id=281&line_item_id=1791654	Shared Use	Pathway	TAP/HSIP/RS	SYIP	\$386,000

2	Harrisonburg	University Blvd Extension	Reconstruct University Blvd with added capacity from Port Republic Road to Carrier Drive.			TAP/HSIP/RS	SYIP	\$16,508,000
3	Harrisonburg	COUNTRY CLUB RD. SIDEWALK - SRTS ENHANCEMENT	Facilities for Pedestrians and Bicycles from Linda Ln to the Spotswood TRLPK 0.1800 MI http://syip.virginiadot.org/Pages/lineitemDetails.aspx?syp_scenario_id=281&line_item_id=1791655	(In SYIP- From: Safe Routes)	(In SYIP- To: To Schools)	TAP/HSIP/RS	SYIP	\$610,000
5	Bridgewater	(UPC- 121208) Riverwalk Phase III (TAP)	Facilities for Pedestrians and Bicycles from the Riverwalk to the trail system 0.2500 MI http://syip.virginiadot.org/Pages/lineitemDetails.aspx?syp_scenario_id=281&line_item_id=1791657	Riverwalk	Trail System	TAP/HSIP/RS	SYIP	\$481,000
6	Bridgewater	(UPC- 113896) Gen Oak Connector	Facilities for Pedestrians and Bicycles from N. Liberty St. to Naomi Ln connecting Generations Park to Oakdale Park 0.3000 MI http://syip.virginiadot.org/Pages/lineitemDetails.aspx?	N. Liberty St.	Naomi Ln	TAP/HSIP/RS	SYIP	\$22,000
7	Bridgewater	Main Street Pedestrian Improvements	Facilities for pedestrians and bicycles from East Riverside Dr. to Turner Ashby Dr. 1.6000 MI http://syip.virginiadot.org/Pages/lineitemDetails.aspx?syp_scenario_id=281&line_item_id=1568891	East Riverside Drive	Turner Ashby Drive	TAP/HSIP/RS	SYIP	\$92,000

10	Harrisonburg	#SMART18 (ID 1327) - (ST) I-81 EXIT 247 INTERCHANGE IMPROVEMENTS	<p>From: 0.147 MI S. of I-81 To: 0.008 MI S. of I-81</p> <p>Modifications to the NB on and off ramps at Exit 247 on I-81, beginning 0.147 MI. South of I-81 and ending 0.008 MI South of I-81.</p> <p>Relocation of NB on ramp and addition of a lane to the NB off ramp. Extension of LTL on Rt 33 to Linda Lane and construction of median between LTL and thru lanes.</p> <p>0.1390 MI</p> <p>http://syip.virginiadot.org/Pages/lineitemDetails.aspx?syp_scenario_id=286&line_item_id=1498153</p>	0.147 MI. South of I-81	0.008 MI South of I-81	SS	SYIP	\$3,260,000
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11	Harrisonburg	#SMART22 (ID 7141)- S. MAIN & I-81 EXIT 243 INTERCHANGE IMPROVEMENTS	<p>Intersections of I-81 Exit 243 Ramps and RT.11</p> <p>On US 11 at the I-81 Exit 243/Covenant Dr. intersection, widen SB approach and on-ramp to allow dual LTLs from US 11 onto on-ramp; extend SB LTLs storage.</p> <p>Widen WB approach to allow dual LTLs onto SB US-11; extend WB LTL storage and clarify yield and merge conditions.</p> <p>Offset NB LTL to maintain permissive movement (no widening).</p> <p>Add overhead wayfinding signage for I-81 on US-11.</p> <p>Close 0.26 mile sidewalk gap.</p> <p>Add signalized crosswalk across Covenant Dr, Pleasant Valley Rd, and US 11</p> <p>http://syip.virginiaidot.org/Pages/lineitemDetails.aspx?syp_scenario_id=286&line_item_id=1746618</p>			SS	SYIP	\$4,619,000
12	Harrisonburg	#SMART22 (ID 7139) - S. MAIN SAFET IMPROVEMENTS	<p>The project adds a 3' wide concrete median on S. Main Street from just south of Mosby Rd to Stone Spring Rd/Erickson Ave, with a break to maintain a full access entrance to Dukes Plaza. The median will prevent left turns into and out of many commercial entrances along this high crash corridor. The project adds a 5' wide sidewalk on the east side of the road and shelters at three bus stops to improve multimodal access on the corridor. Existing bike lanes will be removed to accommodate the median.</p>			SS	SYIP	\$2,208,000

13	Harrisonburg	#SMART22 (ID 6831)- PORT REPUBLIC ROAD TURN LANE AND SIDEWALK	<p>From: Bluestone Drive To: Crawford Ave.</p> <p>Project extends the EB Port Republic Rd. left turn lane at Bluestone Dr. from 100' of storage to 300'. Road widening and sidewalk reconstruction on the north side of the road, supported by approximately 275' of retaining wall, will provide the needed space for the new turn lane length. About 450' of 5' wide sidewalk will be constructed on the south side of the project, including retaining wall for most of its length. A median will be constructed in the functional area of the intersection.</p> <p>http://syip.virginiaidot.org/Pages/lineitemDetails.aspx?syp_scenario_id=286&line_item_id=1746611</p>			SS	SYIP	\$2,243,000
14	Harrisonburg	#SMART20 (ID 3588)-UNIVERSITY BLVD/EVELYN BYRD AVE RD DIET & SIDEWALK	<p>From: Int. of E. Market St. To: Int. of Reservoir St.</p> <p>This project will convert University Blvd and Evelyn Byrd Avenue from 4 lanes to 2 lanes with a center turn lane. Bike lanes, sidewalks, crosswalks, and bus shelters will be added, and sidewalk connections made to side streets.</p> <p>http://syip.virginiaidot.org/Pages/lineitemDetails.aspx?syp_scenario_id=286&line_item_id=1589920</p>			SS	SYIP	\$2,723,000

16	Rockingham	#HB2. FY17 (ID 561) - ROUTE 11 S. VALLEY PIKE ROADWAY IMPROVEMENTS	<p>From: Int. Rt 704 To: 0.005 MI N. Int. Rt 701</p> <p>The 1.3-mile project will begin just south of the intersection of US 11 (South Valley Pike) and Rt. 704 East (Cecil Wampler Road) and include a signalized intersection at this location. This signal would need to be synchronized with the signal at Rt. 704 West (Oakwood Drive). The project will proceed north on US 11 to the south corporate limits of the City of Harrisonburg and taper back to the existing two-lane typical section at this location. Widening will be to the west of the existing US 11 for a four-lane divided highway with wide shoulders for bicycle lanes. A new intersection, with signals, will be at the entrance to the Rockingham County fairgrounds. Turn lanes will be provided at all intersections requiring, them based on an engineering analysis, so as to adequately and safely serve the existing transportation network.</p> <p>http://syip.virginiaidot.org/Pages/lineitemDetails.aspx?syp_scenario_id=286&line_item_id=1443566</p>			SS	SYIP	\$183,000
19	Rockingham	#SMART20 (ID 3962)- US 11 N (NORTH VALLEY PIKE) SIDEWALK	<p>Add 5' sidewalk & footbridge on southbound side of US 11, from Mt. Clinton Pike (Harrisonburg) to Jewell Street, for a total distance of 1.05 miles.</p> <p>Install sidewalk on outside of typical ditch section; and 4' buffer along 1300' C&B section.</p> <p>http://syip.virginiaidot.org/Pages/lineitemDetails.aspx?syp_scenario_id=281&line_item_id=1589883</p>			SS	SYIP	\$1,799,000

22	Rockingham	#SMART20 (ID 3979)- US 33 & ROUTE 620 TURN LANES	<p>From: 0.08 MI W. of Indian Trail Rd. To: 0.07 MI N. of Rt. 33.</p> <p>At the intersection of US 33 and Rt. 620 (Keezletown Rd), the project would extend the US 33 eastbound, 100-foot, left-turn lane an additional 200 feet for a total length of 300 feet. The project also adds a 150 foot left-turn lane on Rt 620 southbound.</p> <p>With no dedicated right-turn lane, commuters using Rt. 620 for right turns to work in activity centers to the west encounter back-ups and conflicts. The US 33 lane extension will significantly improve traffic flow that is currently congesting the through movements, causing back-ups and accidents due to stopped vehicles in the through lane. Through-motorists, who can't advance eastward in the passing lane, attempt to quickly move into the driving lane when they see the stopped traffic ahead. In some cases, they remain caught in the ever-lengthening line of backed up traffic.</p> <p>http://syip.virginiadot.org/Pages/lineitemDetails.aspx?syp_scenario_id=286&line_item_id=159711 <u>1</u></p>			SS	SYIP	\$452,000
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23	Rockingham	#SMART22 (ID 7125)- Smithland Road Shoulder Widening	<p>From: Harrisonburg City Limits To: Rt. 11</p> <p>This project would widen approximately 1,850 ft of Rt. 720/Smithland Road beginning 300 ft from US-11 to add 4-ft shoulders on both sides and increase lane width from 10-ft to 12-ft where possible. A right turn lane (100-ft storage + 100-ft taper) would be added on Rt. 720 at US-11. The existing 2-lane roadway has a 20-ft typical section with no shoulders or rumble strips. Proposed treatments are intended to mitigate roadway departure and other crash types along this Minor Collector segment.</p> <p>http://syip.virginiaidot.org/Pages/lineitemDetails.aspx?syp_scenario_id=286&line_item_id=1746616</p>			SS	SYIP	\$3,227,000
24	Rockingham	#SGR17VB - RT. 33 REPL BRIDGES OVER NSRR (FED 20446 & 20447)	<p>Bridge Replacement W/O Added Capacity from S. Carlton St. intersection to beginning of I-81 SB On Ramp</p> <p>http://syip.virginiaidot.org/Pages/lineitemDetails.aspx?syp_scenario_id=226&line_item_id=1059727</p>	S. Carlton St Intersection	Beginning of SB I-81 On Ramp	SGR	SYIP	\$3,689,000
25	Harrisonburg	#SGR18VB - RT 33 OVER I-81 EXIT 247 IMPR EBL; STR NO. 20443	<p>Reconstruction W/O Added Capacity from the Intersection of SB I-81 On Ramp to the Intersection of SB I-81 off Ramp</p> <p>http://syip.virginiaidot.org/Pages/lineitemDetails.aspx?syp_scenario_id=233&line_item_id=1180290</p>	Intersection of SB I-81 On Ramp	Intersection of SB I-81 Off Ramp	SGR	SYIP	\$7,053,000

26	Rockingham	#SGR19VB - RT 33 OVER I-81 EXIT 247 IMPR WBL (STR 20441)	Bridge Replacement W/O Added Capacity from the Intersection of SB I-81 On Ramp to the Intersection of SB I-81 off Ramp http://syip.virginiaidot.org/Pages/lineitemDetails.aspx?syp_scenario_id=244&line_item_id=157622_1	Intersection of SB I-81 On Ramp	Intersection of SB I-81 Off Ramp	SGR	SYIP	\$13,120,000
27	Harrisonburg	#SMART22 (ID 7098)- N. MAIN STREET SIDEWALK	From: Holly Hill Dr. To: Vine St. The project will construct 1,800 linear feet of sidewalk from Holly Hill Dr to Vine St. It will be 4" concrete construction, 5' wide, with a 2' grass buffer. Existing curb and gutter will be reconstructed, and new curb and gutter will replace 750' of currently open drainage. Four new drop inlets, ~800' of storm pipe, and 175' of retaining wall will be constructed. 10 entrances will be reconstructed with ADA accessibility. Signalized crosswalks will be added at the intersection with Vine St. http://syip.virginiaidot.org/Pages/lineitemDetails.aspx?syp_scenario_id=286&line_item_id=1746634	Holy Hill Dr.	Vine St.	SS	SYIP	\$2,061,000

28	Harrisonburg	#SMART22 (ID 7099)- PORT REPUBLIC ROAD CORRIDOR IMPROVEMENTS	<p>From: Devon Lane To: Hunter Road</p> <p>Project adds a traffic signal, including signalized crosswalks, at the Port Republic Rd/Bradley Dr intersection.</p> <p>Port Republic Rd will be widened to create a WB left-turn lane with approximately 100' of storage and 100' taper. Sidewalk and bike lane will be reconstructed.</p> <p>A 3' wide concrete median will be constructed along the entire segment between the Bradley Dr and Devon Ln intersections.</p> <p>A channelizing island will be added at Hunters Rd/Port Republic Rd intersection to prohibit left turns.</p> <p>http://syip.virginiaidot.org/Pages/lineitemDetails.aspx?syp_scenario_id=286&line_item_id=1746635</p>			SS	SYIP	\$3,539,000
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29	Harrisonburg	#SMART20 (ID 4027)- US 33 (MARKET STREET) AND I-81 IMPROVEMENTS	<p>From: 0.346 MI W. of I-81 To: 0.277 MI E. OF I-81</p> <p>This project will re-align I-81 Exit 247 SB off-ramp, add a 500 foot acceleration merge lane, and construct a 10-ft shared use path (SUP) in the median of US 33 (Market Street) from MLK Way to Burgess Rd/ Linda Lane.</p> <p>The project will improve the I-81 Exit 247 southbound off ramp geometry and provide a merge lane where none currently exists, enhancing safety and peak period congestion. The 10-ft wide median SUP will have pedestrian signals and crossing improvements at four intersections along the corridor, and will extend from Martin Luther King Jr. Way, along the eastbound NSRR and I-81 Bridges, and terminate at the intersection of Burgess Rd/ Linda Lane (approximately 0.62 miles in length).</p> <p>This project will include the replacement of 4 bridges. In-kind replacement of these bridges is funded through existing SYIP allocations from the State of Good Repair program, while the requested Smart Scale funds will cover all of the enhancements. This project will add improvements to US 33 (Market Street) in the vicinity of I-81 Exit 247, which is partially funded (UPC #100781, #104177, #113487, & #112052). The SUP is a component supported by both the City of Harrisonburg and Harrisonburg-Rockingham MPO Bike/Pedestrian Plans. The project addresses the region's vision for US 33 as a multi-modal corridor by connecting into a future Transit Center and Park and Ride lot which will be located at the intersection of MLK Way and Market Street.</p> <p>http://syip.virginiaidot.org/Pages/lineitemDetails.aspx?syp_scenario_id=286&line_item_id=159</p>			SS	SYIP	\$7,375,000
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31	Rockingham	#SMART22 (ID 6703)- MOUNT CRAWFORD PARK AND RIDE LOT IMPROVEMENTS	<p>Improve existing park and ride lot.</p> <p>Add 32 parking spaces for a total of 82; parking lot reconfiguration, excavation, curbing, lot resurfacing and striping. BMP expansion. Small Right of way needed. Add a bus stop and shelter, bike racks, lighting, and an electric vehicle charging station.</p> <p>http://syip.virginia-dot.org/Pages/lineitemDetails.aspx?syp_scenario_id=286&line_item_id=1746628</p>			SS	SYIP	\$2,725,000
33	MPO	#I81CIP NB & SB MM 242 TO 248, 3-LANE WIDENING (ID #62)	<p>From mile marker 242.0 to mile marker 248.8</p> <p>Widen to three lanes between Exit 243 and Exit 247</p> <p>http://syip.virginia-dot.org/Pages/lineitemDetails.aspx?syp_scenario_id=286&line_item_id=1661501</p>	Exit 243	Exit 2247	I-81	SYIP	\$215,562,000



TO: Harrisonburg-Rockingham MPO Policy Board

FROM: Ansley Heller, Transportation Planner

MEETING DATE: February 16, 2023

RE: **Policy Board Memo #23-1: 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 2023, 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 Statewide Safety Targets](#)



TO: Harrisonburg-Rockingham MPO Technical Advisory Committee

FROM: Ansley Heller, Transportation Planner

MEETING DATE: February 16, 2023

RE: **Policy Board Memo #23-2: HRMPO 2023 Infrastructure Condition and System Performance Measures**

EXECUTIVE SUMMARY

In 2016, the Federal Highway Administration (FHWA) established National Performance Measures to assess asset condition and system performance on the National Highway System (NHS). The State and HRMPO must report targets to FHWA for a four-year performance period, with progress reports every two years.

On September 21, 2022, Virginia's Office of Intermodal Planning and Investment (OIPI) established a new set of four-year statewide targets for condition of bridge decks and pavement and system performance measures, including travel time reliability. These targets were approved on the same day by the Commonwealth Transportation Board (CTB).

The HRMPO may concur with the State targets or set MPO-specific targets by March 20, 2023. By concurring with the statewide targets, the HRMPO agrees to plan and program projects to contribute toward achieving the State targets. There is no penalty for not meeting the targets.

STATEWIDE TARGETS

FHWA requires that Virginia track six asset condition and system performance measures and set targets which the CTB approves. These targets cover a January 1, 2022 through December 31, 2025 reporting period (see **Tables 1 and 2**). The four-year targets evaluate overall goals, and the two-year targets assess progress.

Table 1: Statewide Asset Condition Measures

Asset Condition Measures	Scope	2-Year Target (2023)	4-Year Target (2025)
Percentage of Pavement in Good Condition	Interstate	45%	45%
Percentage of Pavement in Poor Condition	Interstate	3%	3%
Percentage of Pavement in Good Condition	NHS (Non-Interstate)	25%	25%
Percentage of Pavement in Poor Condition	NHS (Non-Interstate)	5.0%	5.0%
Percentage of Deck Area of Bridges in Good Condition	NHS	27.2%	25.1%
Percentage of Deck Area of Bridges in Poor Condition	NHS	3.3%	3.6%



Table 2: System Performance (Travel Time, Congestion, and Air Quality) Statewide Targets

System Performance Measures	Scope	2-Year Target (2023)	4-Year Target (2025)
Percentage of Reliable "Person-Miles Traveled"	Interstate	85%	85%
Percentage of Reliable "Person-Miles Traveled"	NHS (Non-Interstate)	88%	88%
Truck Travel Times Reliability Index	Interstate	1.64	1.64

HRMPO ASSET CONDITIONS AND SYSTEM PERFORMANCE

Bridge Deck Condition

The HRMPO region did not meet the statewide targets for percent of deck area on the NHS in good condition or in poor condition during the first reporting period, 2018-2021 (see **Table 3**). The percentage of bridge deck area in good condition has remained at 24.3% since 2019. The percentage of bridge deck area in poor condition has remained at 18.6% since 2019.

These bridge deck conditions follow statewide trends, with 11 of the 15 MPOs in the State also not meeting these targets for most years.

Table 3. Bridge Conditions, 2018- 2021

	2021 Target	2018	2019	2020	2021
Percentage of Deck Area of Bridges in Good Condition	30.5%	24.2%	24.3%	24.3%	24.3%
Percentage of Deck Area of Bridges in Poor Condition	3%	19.1%	18.6%	18.6%	18.6%

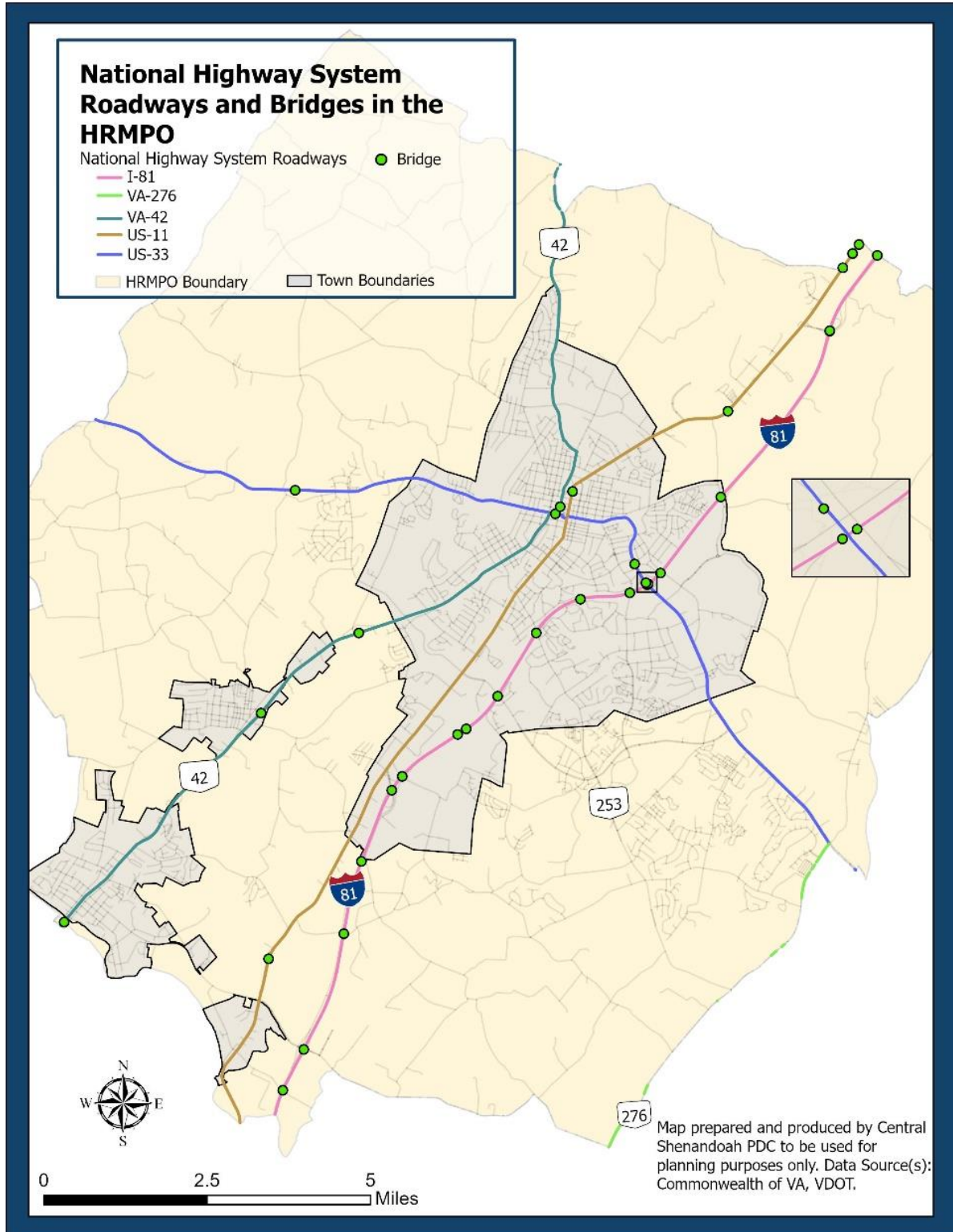


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Map 1: NHS Roadways and Bridges in the HRMPO





Pavement Conditions

During the 2018-2021 reporting period, the HRMPO met or exceeded state targets for pavement conditions in every category except Percentage of Pavement in Good Condition- Interstate. 2018 was the last year the MPO met the target for percentage of pavement in good condition on the interstate.

Table 4. Pavement Conditions, 2018-2021

	2021 Target	2018	2019	2020	2021
Percentage of Pavement in Good Condition (Interstate)	45%	45.5%	35.3%	40.6%	38%
Percentage of Pavement in Poor Condition (Interstate)	30%	0%	0%	0%	0%
Percentage of Pavement in Good Condition (Non-Interstate NHS)	25%	32.6%	36.4%	36.5%	31.2%
Percentage of Pavement in Poor Condition (Non-Interstate NHS)	5%	0%	0%	0.2%	0.3%

System Performance Measures

Travel time reliability measures the consistency or dependability in travel times, as measured from day-to-day and/or across different times of the day. During the 2018-2021 reporting period, the HRMPO met the statewide targets every year for travel reliability-related measures (**Table 5**).

Table 5. Travel Reliability, 2018-2021

	2021 Target	2018	2019	2020	2021
Percentage of Person-Miles Traveled that are Reliable (Interstate)	82%	100%	100%	100%	100%
Percentage of Person-Miles Traveled that are Reliable (Non-Interstate NHS)	82.5%	95.9%	94.8%	98.3%	99.9%
Truck Travel Time Reliability Index (Interstate)	1.56	1.09	1.07	1.07	1.11

Next Steps

Staff will submit a letter to OIPI concurring with the statewide performance targets for 2022 - 2025 and continue to evaluate opportunities for the MPO, state, and local partners to prioritize and program projects that will help Virginia meet its performance targets.

ATTACHMENT

[HRMPO letter of Concurrence with OIPI performance measures](#)