

I-81 CORRIDOR IMPROVEMENT PROGRAM

Governor's Transportation Conference 2022

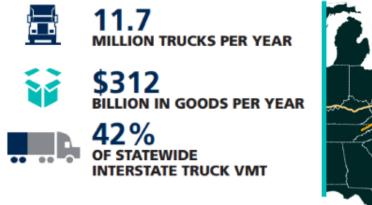


October 27, 2022

I-81 Corridor Improvement Program

Passed by the General Assembly and signed into law by Governor Northam on April 3, 2019

Approximately \$2.8 billion investment in innovative and targeted improvements that will substantially affect the safety and reliability of this critical corridor.





An I-81 Advisory Committee was established to provide advice and recommendations to the Commonwealth Transportation Board (CTB) regarding the development of the I-81 Corridor Improvement Plan.



Program Core Objectives

Enhanced Safety

This program is implementing a series of improvements such as lane and shoulder widening to reduce the rate and frequency of crashes along the corridor.

Reduced Congestion

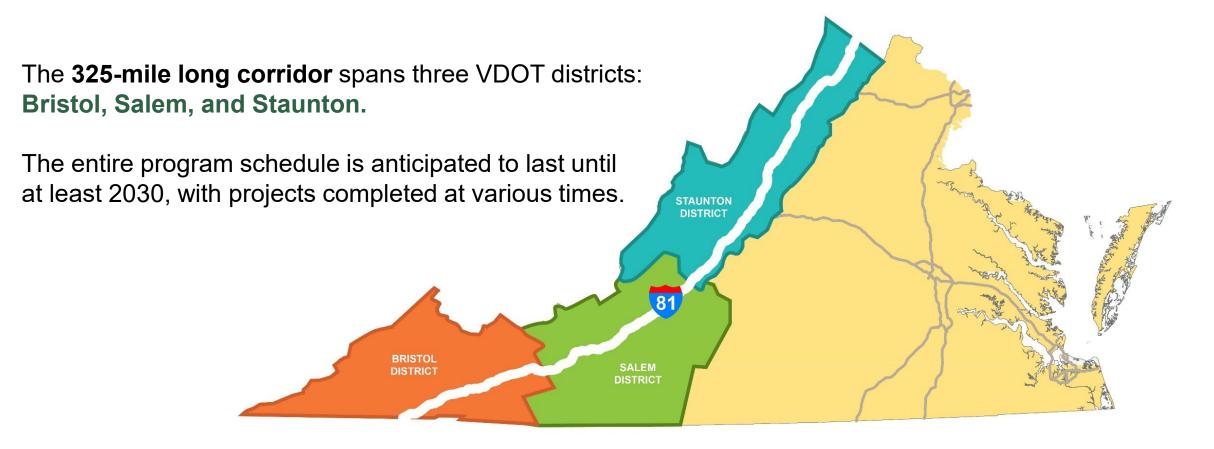
The program improvements are reducing congestion and improving reliability by adding capacity in specific areas of the corridor and improving speed of incident clearance to help limit travel delays.

Economic Development

I-81 is the main corridor and key economic artery of western Virginia. These improvements will ensure that goods and services critical to our economy move safely and efficiently through and within the region.

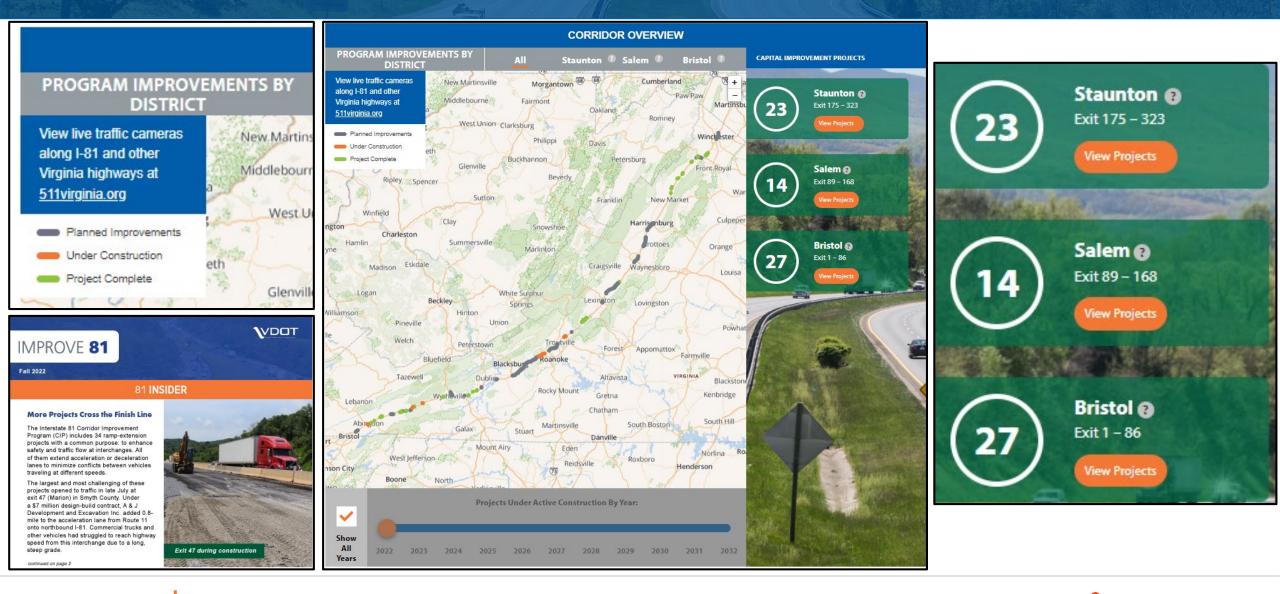


Planned Improvements & Schedule





Improve81.org – Why you should visit



5

Improve81.org – Why you should visit

I-81 Corridor News and Multimedia



Newsletters

81 Insider provides updates on project construction, design, technology and more. Summer 2022 issue is available below.

FEATURED NEWSLETTER

View archived newsletters

Join our mailing list



FEATURED PODCAST

Podcasts

the I-81 corridor.

View all podcasts

Google Podcasts

Apple Podcasts

The Improve I-81 podcast follows the

progress of the improvement projects along



Videos

Stay informed with our informational videos about the improvement projects along the I-81 corridor.

FEATURED VIDEOS





Mile Marker ▼	Improvement	Jurisdiction	Construction Start	Construction End	Budget	Directions	Status	Project ID	Traffic Impacts
88	Curve improvements (flashing chevrons)	Pulaski County	August 2019	October 2019	\$163,000	Northbound only	Project Complete	28	N/A
90.2 - 90.7	Extend acceleration lane at Exit 89	Pulaski County	May 2020	August 2020	\$4.7M	Northbound only	Project Complete	29	N/A
94.2 - 93.7	Extend acceleration lane at Exit 94	Pulaski County / Pulaski	November 2025	December 2026	\$3M - \$7M	Southbound only	Planned Improvements	38	N/A
105.5 - 106	Extend acceleration lane at Exit 105	Montgomery County / Radford	December 2025	May 2027	\$11M	Northbound only	Planned Improvements	30	N/A
116.2 - 128.4	Widen to three lanes between MM116 and Exit 128	Montgomery County / Christianburg	April 2027	March 2033	\$215M - \$260M	Northbound only	Planned Improvements	31	N/A



Capital Improvement Projects

There are currently **64 Capital Improvement projects** within the Program. Some of these projects include:



Widening

The addition of a third lane for added capacity and safety. Some projects include the addition of a third lane in both the northbound and southbound directions while some projects include the addition of a third lane in only one direction.



Acceleration/Deceleration Lane Extension

Allows drivers additional time to make appropriate speed adjustments on the entrance and exit ramps before merging into interstate traffic or encountering sharper curves and stop conditions on exit ramps.



Curve Improvement

Installation of static and/or flashing chevron signs along specific curves to notify drivers of upcoming sharp or challenging curves where crashes are prevalent.



Capital Improvement Projects

There are currently **64 Capital Improvement projects** within the Program. Some of these projects include:



Truck Climbing Lane

An additional lane added to enable trucks to ascend a steep grade at a lower speed while maintaining regular traffic speeds for passenger vehicles.



Auxiliary Lanes

Allows drivers additional time to speed up or slow down when merging on or off I-81. Typically constructed between two interchanges, these lanes help enhance safety by reducing traffic "weaving" between I-81 travel lanes and ramps.



Shoulder widening

Wider shoulder lanes increase safety for the travelling public during emergencies such as flat tire or breakdown, provide recovery area for errant vehicles, and enhance safety for emergency responders.





Project Development Process (Capital Projects)

Total of 64 Projects	PLANNING	PRELIMINARY ENGINEERING (PE) & ENVIRONMENTAL EVALUATION	DESIGN	RIGHT OF WAY & UTILITY COORDINATION	CONSTRUCTION	COMPLETE
2021 Status	13 Projects	3 Projects	19 Projects		13 Projects	16 Projects
2022 Status	6 Projects	5 Projects	15 Projects	1 Project	8 Projects	29 Projects

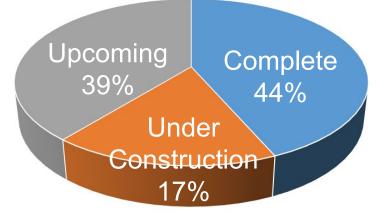
IMPROVE **81** I-81 Corridor Improvement Program

VDOT 9



Capital Improvement Project Status – Bristol District

- 9 upcoming projects \$220 million
- 4 projects under construction \$33 million
- 10 projects construction complete \$47.5 million





Exit 47 Smyth County

Northbound acceleration lane and ramp extension





•

•

•

•

•

Capital Improvement Project Status – Bristol District

- Completed Projects:
 - Exit 19 NB Decel Lane Extension (Abingdon)
 - Exit 26 SB Accel & Decel Lane Extension (Emory)
 - Exit 39 SB Accel & Decel, NB Decel Lane Extension (Seven Mile Ford)
 - Exit 44 SB Accel Lane Extension (Marion)
 - Exit 47 NB Accel Lane Extension (Marion)
 - Exit 67 Decel Lane Extension (South of Wytheville)
 - Exit 84 SB Decel Lane Extension (North of Fort Chiswell)
 - **Projects Under Construction:**
 - Exit 17 SB Acceleration Lane Extension (Abingdon)
 - Exit 39 to MM 40.6 NB Truck Climbing Lane (Seven Mile Ford)
 - Exit 47 SB Accel; Exit 54 SB Auxiliary Lane (South of Rural Retreat)



Capital Improvement Project Status – Bristol District

Upcoming Projects:

- Exit 10 to Exit 7 SB widening to three lanes (Bristol)
- Exit 32 to MM 33.5 NB Truck Climbing Lane (Glade Spring) Advertise Summer 2023
- MM 34 to MM 33 SB Truck Climbing Lane (Glade Spring) Advertise Summer 2023
- Exit 45 NB Decel Lane Extension (Marion)
- Exit 72 NB Decel Extension and I-77 Exit 41 to I-81 SB Exit 72 Auxiliary Lane Design-Build with Request For Qualifications advertisement Spring 2023. (Wytheville)
- I-81 Exit 73 to I-77 Exit 41 SB Decel Lane Extension and Ramp Reconstruction (Wytheville)
- Exit 73 to Exit 72 SB Auxiliary Lane (Wytheville)
- Exit 81 SB Decel Lane Extension (Fort Chiswell)





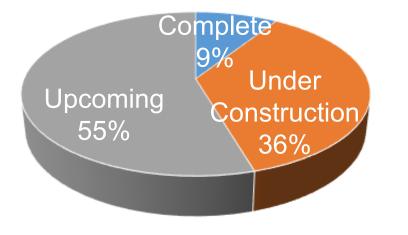
Capital Improvement Project Status – Salem District

- 6 upcoming projects \$796 million 4 projects under construction \$300 million
- 1 projects construction complete \$4.8 million



Exit 137-141 Salem and Roanoke County

Northbound and southbound widening









Capital Improvement Project Status – Salem District

- **Completed Projects:**
 - Exit 89 NB Acceleration Lane Extension (Pulaski)
- **Projects Under Construction:**
 - Troutville Rest Area SB Entrance and Exit Extension (2 projects) Troutville
 - Exit 137 to Exit 141 Widening NB and SB
 - (Design Build, 2 projects bundled) Salem
- **Upcoming Projects:**
 - MM 116 to Exit 128 Widening NB Only Construction 2027 (Christiansburg to Ironto)
 - Exit 128 to Exit 137 Widening NB Only Construction 2027 (Ironto to Salem)
 - Exit 143 to Exit 150 Widening NB & SB Construction 2025 (Roanoke to Troutville)



•

Capital Improvement Project Status – Salem District

Upcoming Projects Continued:

- Exit 162 NB Accel Lane Extension Construction 2025 (Buchanan)
- Exit 105 NB Accel Lane Extension Construction 2026 (Radford)
- Exit 94 SB Accel Lane Extension Construction 2025 (Pulaski)





Capital Improvement Project Status – Staunton District

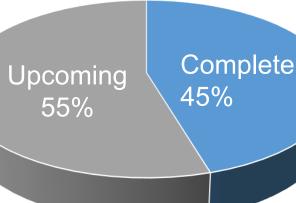
- 12 upcoming projects \$963 million
- 0 projects currently under construction
- 10 projects construction complete

\$19.8 million



Exit 205 Rockbridge County

Acceleration lane extension, off-ramp widening, and turn lane construction









Capital Improvement Project Status – Staunton District

- **Completed Projects:**
 - Exit 302 NB Accel, Exit 302 SB Decel, Exit 283 SB Accel,
 - Exit 269 NB Decel, Exit 279 SB Accel
 - Exit 291 NB Accel, Exit 296 SB Accel, Exit 304 NB Accel
 - Exit 205 SB Accel, Exit 205 NB Accel (Raphine)
- **Projects Under Construction: None**
- **Upcoming Projects:**
 - Exit 221 to Exit 220 SB Auxiliary Lane Construction Fall/Winter 2023 (South of Staunton)
 - Exit 221 to Exit 225 NB and SB Widening Construction Summer 2023 (Staunton)
 - Weyers Cave NB and SB Truck Climbing Lanes Construction Spring 2025
 - Exit 242 to Exit 248 NB and SB Widening Construction Summer 2025 (Harrisonburg)
 - Exit 299 to Exit 296 SB Widening Construction Fall/Winter 2024 (Strasburg)



Capital Improvement Project Status – Staunton District

Upcoming Projects Continued:

- Exit 313 to Exit 317 NB and SB Widening Construction 2027 (Winchester)
- Mt. Sidney Rest Area SB Decel Lane Extension Construction 2026
- Mt. Sidney Rest Area SB Accel Lane Extension Construction 2026
- Mt. Sidney Rest Area NB Accel Lane Extension Construction 2026
- Rockbridge County Shoulder Improvements Construction 2026
- Exit 188 NB Accel Extension Construction 2025



Operational Improvements

The Program also includes a host of **Operational Improvements** which enhance safety as well as mobility, particularly during emergency events. Examples of operational improvements include:



Digital Message Signs

Digital message boards help to alert drivers in real time of incidents along the interstate and assist with directing them to alternate routes.



Additional Traffic Cameras (CCTV)

The additional traffic cameras assist the Traffic Operations Center during emergency events as well as provide information to travelers via the VA 511 system.



Enhancements to Safety Service Patrol

Additional hours of operations and additional routes help to protect the travelling public during vehicle emergencies, speed up recovery time, and protect incident zones.



Operational Improvements

The Program also includes a host of **Operational Improvements** which enhance safety as well as mobility, particularly during emergency events. Examples of operational improvements include:



Detour Route Improvements

One of the biggest challenges of the I-81 Corridor is the lack of reliable alternative routes. Low cost, high return investments in signal systems and minor geometric improvements help to efficiently move traffic around incidents on the interstate.



Enhancements to Clearance Times

Reducing incident clearance time saves time, money, and enhances reliability along the interstate system. The implementation of a Towing and Recovery Incentive Program (TRIP) and lift-and-tow devices help to clear incidents more quickly to keep traffic moving.



Operational Improvement Project Status

Operational Improvement Type	Status			
Safety Service Patrol (SSP) enhancements	COMPLETE			
Lift and tow on SSP vehicles	COMPLETE			
Towing and Recovery Incentive Program (TRIP)	COMPLETE			
Traffic camera installations	COMPLETE			
Digital message sign installations	COMPLETE			
Arterial Signal Improvements	ONGOING			









Operational Improvement Project Status

Parallel Route Upgrades

Minor geometric improvement projects to facilitate access to and from I-81 during incidents are <u>complete</u> (3 projects in Rockbridge County)

Traffic Signal Upgrades

- Bristol District 1 project <u>complete</u>, 1 project advertised for construction, 1 project to be advertised in 2023.
- Salem District 1 project <u>complete</u>, 1 project under construction (Dec. 2023 completion), 1 project to be advertised December 2022.
- Staunton District 2 projects to begin construction early 2023, 2 projects to be advertised for construction November 2022.



Contacts

Communications Contacts

I-81 CIP Communications Specialist Kenneth Slack | 540-414-5670 ken.slack@vdot.virginia.gov

Bristol District: Michelle Earl | 276-696-3283 michelle.earl@vdot.virginia.gov

Salem District: Jason Bond | 540-387-5493 jason.bond@vdot.virginia.gov

Staunton District: Sandy Myers | 540-332-9201 sandy.myers@vdot.virginia.gov

Program Team

Program Delivery Director Dave Covington | 540-487-6943 dave.covington@vdot.virginia.gov





Discussion

