



Tier 1 Recommendations October 31, 2017



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GUYa District



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VMTP GENERALIZED MAP OF CONSOLIDATED NEEDS SALEM DISTRICT

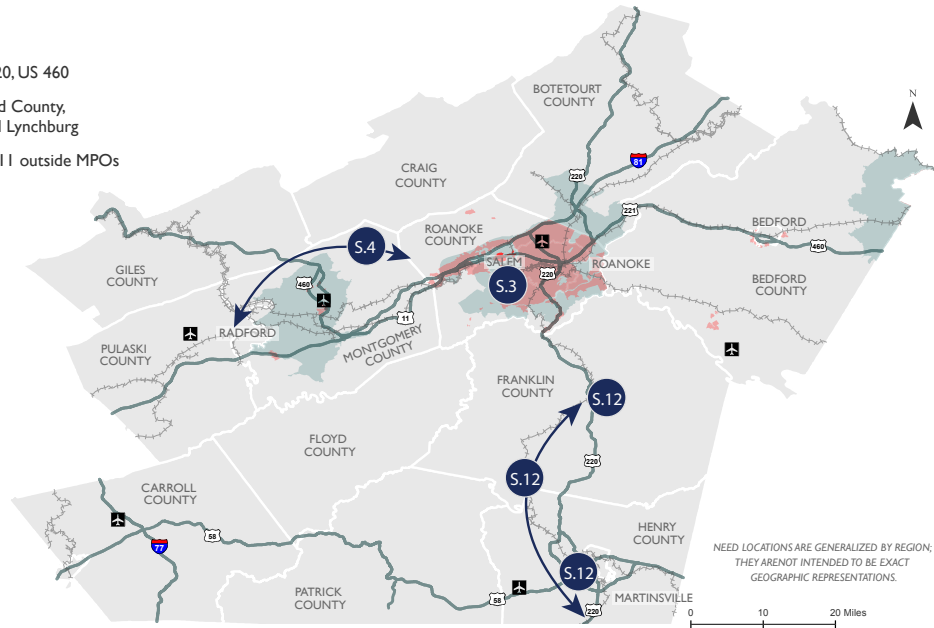
NEED TIER

- Tier 1: Most critical District needs based on local input and data.

DISTRICT-WIDE NEEDS

- S.1 Within RVTPO: I-81, I-581, US 11, US 220, US 460
- S.9 US 460 and US 220 corridors in Bedford County, between Roanoke, New River Valley and Lynchburg
- S.11 I-81 (north of RVTPO), US 460 and US 11 outside MPOs
- S.17 Greenway and Regional Trail system

- Airport
- CoSS
- UDA
- MPO



NEED LOCATIONS ARE GENERALIZED BY REGION; THEY ARE NOT INTENDED TO BE EXACT GEOGRAPHIC REPRESENTATIONS.

Tier 1 District Needs	
Need	Need Description
S.1	Within the RVTPO, I-81, I-581, US 11, US 220, US 460 have congestion, reliability, and safety needs for regional freight and passenger movement.
S.3	Within the RVTPO, regional activity centers and Urban Development Areas (UDAs) have bicycle and pedestrian needs.
S.7	Within NRVMP, Pepper's Ferry Rd has connectivity, congestion, safety, and TDM needs.
S.9	Within the Salem District, the US 460 and US 220 corridors from New River Valley to Roanoke and Roanoke to Lynchburg have intercity transit, interregional connectivity, reliability, congestion, airport access, and safety needs.
S.11	Within the Salem District, I-81, US 460, and US 11 have reliability, congestion, redundancy, mode choice and safety needs.
S.12	Within the Salem District, US 220 and US 58 between Martinsville, Ridgeway, and Rocky Mount have safety, congestion, and reliability needs. The Rocky Mount UDA and UDAs within this corridor have circulation, safety and access needs.
S.17	Within the Salem District, the Greenway and Regional Trail system have network connectivity and mode choice needs.

Funded Projects	
Need(s)	Project Name
S.1	Route 11, 220, 220A Access Management Project at I-81 Exit 150, Botetourt County (2015 - 2018 Transportation Improvement Plan)
S.1	Route 220 Corridor Improvements, Botetourt County (2015 - 2018 Transportation Improvement Plan)
S.1	13th Street on Rte. 460, City of Roanoke (2015 - 2018 Transportation Improvement Plan)
S.1, S.11	I-81 Improvements to exit 150 interchange, Botetourt County (VDOT SYIP)
S.1	ARRA I-581 - at Elm Ave, City of Roanoke (Design-Build) (VDOT SYIP)
S.1	I-581 - Valley View Interchange Phase II, City of Roanoke (VDOT SYIP)
S.1	US 220 Communications and Adaptive System Project, Roanoke County (SMART SCALE, Phase 1)
S.1	US 460 "S" Curves, Bedford County, (SMART SCALE, Phase 1)
S.1	Mainline Improvements: Auxiliary lane on SB I-81 between Exits 141 and 143, Roanoke County (SMART SCALE, Phase 2)
S.3	Two multimodal studies, City of Roanoke
S.3	Three bicycle/pedestrian projects, City of Roanoke (VDOT SYIP)
S.3	10th Street Reconstruction, City of Roanoke (SMART SCALE, Phase 1)
S.3	Colonial Avenue Improvements, City of Roanoke (SMART SCALE, Phase 1)
S.3, S.17	Transit Accessibility Improvements on Edgewood Street, City of Roanoke (SMART SCALE, Phase 1)
S.3	Three bicycle/pedestrian projects, Roanoke County (VDOT SYIP)
S.3	Route 419 Widening, Safety, and Multimodal Improvements, Roanoke County (Smart Scale, Phase 1)
S.3	Route 311/419 Safety and Congestion Improvements, Roanoke County (Smart Scale, Phase 1)
S.3	Lila Drive/Route 115 Intersection Safety Improvements, Roanoke County (Smart Scale, Phase 1)
S.3	Three bicycle/pedestrian projects in Vinton, Roanoke County (VDOT SYIP)
S.3, S.17	10th Street NW - Phase I & II, City of Roanoke (City of Roanoke CIP)
S.3	Orange Avenue and King Street, City of Roanoke (City of Roanoke CIP)
S.3	Ongoing Streetscape Improvements, City of Roanoke (City of Roanoke CIP)
S.3	Six Bicycle and Pedestrian Improvement Projects, City of Salem (City of Salem CIP)
S.3	East Main Street Route 460 Phase 1, City of Salem (SMART SCALE, Phase 1)
S.3	Mason Creek Greenway Phase 3, City of Salem (SMART SCALE, Phase 2)
S.3, S.17	Plantation Rd Bike, Pedestrian and Streetscape Improvements, Roanoke County (2015 - 2018 Transportation Improvement Plan)
S.3	West Main Street Sidewalk Improvements, Roanoke County (SMART SCALE, Phase 2)
S.4, S.9	Intercity Passenger Bus Service from Blacksburg to Washington, D.C., Multi-jurisdictional
S.7	Safe Routes to School - Bellview ES, Montgomery County (VDOT SYIP)

Need(s)	Project Name
S.9	Rail improvements and acquisition from Lynchburg to Roanoke for Extension of Service, Multi-jurisdictional (DRPT SYIP)
S.9	US 220 Communications and Adaptive System Project, Roanoke County (SMART SCALE, Phase 1)
S.11	I-81 Exit 140 Park and Ride Facility Expansion, Roanoke County (VDOT SYIP)
S.11	Intercity Passenger Bus Service from Blacksburg to Washington, D.C., Multi-jurisdictional
S.11	Intersection Improvements - North Franklin Street and Cambria Street, Montgomery County, (SMART SCALE, Phase 1)
S.12	Route 220 Safety Improvements, Henry County (VDOT SYIP)
S.12	US 58 East Turn Lane at US 58/220 Bypass, Henry County (VDOT SYIP)
S.12	Intersection Re-alignment of 220-Bus and Rte. 40 in the Town of Rocky Mount, Franklin County (SMART SCALE, Phase 2 Application)
S.17	Roanoke Valley Greenway, Multi-jurisdictional (2015 - 2018 Transportation Improvement Plan)

Project Recommendations						
ID	Tier 1 Need(s)	Project Name	Jurisdiction	Type	Cost (\$M)	Page
SA01	S1	Mainline Improvements: Auxiliary lane on SB I-81 between Exits 150 and the truck scales, Botetourt County	Botetourt County	Highway	\$21.50	1
SA02	S1	Mainline Improvement: Auxiliary lane on SB I-81 between Exits 140 and 141, Roanoke County	Roanoke County	Highway	\$14.80	3
SA03	S1	Mainline Improvements: Auxiliary lane on NB I-81 between Exits 140 and 141, Multi-jurisdictional	Multiple	Highway	\$16	5
SA04	S1	Route 221 Widening, Roanoke County	Roanoke County	Highway	TBD	7
SA05	S1, S3	US 220 Expressway Acceleration Lane Improvement, City of Roanoke	Roanoke City	Highway	\$2.02	9
SA06	S1, S9	US 460 Access Management & Safety Improvements, Multi-jurisdictional	Multiple	Highway	\$6.40	11
SA07	S1	Interchange Improvements: Extend acceleration/deceleration ramps at I-81 Exits 132,137, 140 and 143, Multi-jurisdictional	Multiple	Highway	\$21	13
SA08	S1	Mainline Improvement: Add auxiliary lane to NB I-81 from the truck scales to Exit 150, Multi-jurisdictional	Multiple	Highway	\$26	15
SA09	S1, S4, S11	Interchange Improvement: I-81 Exit 114, Montgomery County	Montgomery County	Highway	\$28.50	17
SA10	S1	US 11 Corridor ITS and Signal Improvement and Safety Improvements in RVTPO, Multi-jurisdictional	Multiple	Highway	\$7	19

ID	Tier 1 Need(s)	Project Name	Jurisdiction	Type	Cost (\$M)	Page
SA11	S1	Study operational improvements from exit 137 to exit 143 on the I-81 corridor, Multi-jurisdictional	Multiple	Highway	TBD	21
SA12	S1, S9	Access management improvements on US 460, Multi-jurisdictional	Multiple	Highway	\$38	22
SA13	S1	I-581 / US 220 Improvement Study, Multi-Jurisdictional	Multiple	Highway	TBD	24
SA14	S3, S11	Grade separation over railroad at 13th St. & Hollins Rd, City of Roanoke	Roanoke City	Highway, bike/ped	\$60	25
SA15	S3	East Main St. Widening and Accessibility Improvements - Brand Rd. to Kessler Mill Rd, City of Salem	Salem City	Highway, Bike.ped, Bus Transit	\$11.50	27
SA16	S3	Roanoke Valley Greenway - Blue Ridge Pkwy to Rutrough Point, Roanoke County	Roanoke County	Bike/ped	\$3.30	29
SA17	S3, S17	Bike Improvements connecting Amtrak and Roanoke Valley Greenway, City of Roanoke	Roanoke City	Highway, Bike/ped	\$0.12	31
SA18	S3, S17	Study sidewalk and pedestrian improvements along transit routes, Roanoke City	Roanoke City	Bike/ped	TBD	33
SA19	S4	Mainline Improvement: Ironto Rest Area Climbing Lane, Multi-jurisdictional	Multiple	Highway	\$37.60	34
SA20	S4	I-81 corridor Active Traffic Management System from Buchanan to Dublin, Multi-jurisdictional	Multiple	Highway	\$55.00	36

ID	Tier 1 Need(s)	Project Name	Jurisdiction	Type	Cost (\$M)	Page
SA21	S4	within NRVMPD from Exits 98 through Exit 109, Multi-jurisdictional	Multiple	Highway	\$23	38
SA22	S4	US 11 Corridor ITS and Signal Improvement from Christiansburg to Dublin, Multi-jurisdictional	Multiple	Highway	\$7.00	40
SA23	S4	Rte. 8 (Riner Rd.) Park and Ride near I-81 (Exit 114), Montgomery County	Montgomery County	TDM	\$2	42
SA24	S7	Pepper's Ferry Road and N. Franklin St. Connector in the Town of Christiansburg, Montgomery County	Montgomery County	Highway	\$24	44
SA25	S7	Prices Fork/ Peppers Ferry Intersection, Montgomery County	Montgomery County	Highway, Bike/ped	\$4	46
SA26	S7	Peppers Ferry Road Bicycle / Pedestrian / Road Diet Improvements Study, Montgomery County	Montgomery County	Highway, Bike/ped	TBD	48
SA27	S9	Feasibility study of passenger rail from Roanoke to Blacksburg, Multi-jurisdictional	Multiple	Rail Transit, TDM	TBD	49
SA28	S9	Study intercity bus service serving cities along the I-81 corridor within Salem District, Multi-jurisdictional	Multiple	Bus Transit	TBD	50
SA29	S9, S11	Access management improvements on US 460/US 11 west of the City of Roanoke to Christiansburg, Multi-jurisdictional	Multiple	Highway	18	51
SA30	S9	Second Amtrak Service from Lynchburg to Roanoke, Multi-jurisdictional	Multiple	Rail Transit	TBD	53

ID	Tier 1 Need(s)	Project Name	Jurisdiction	Type	Cost (\$M)	Page
SA31	S11	I-81 Exit 150 Park and Ride Improvement and Expansion, Botetourt County	Botetourt County	TDM	7.5	54
SA32	S11	Route 11 Traffic Improvements Project, Pulaski County	Pulaski County	Highway, Bike/ped	4.49	56
SA33	S11	North Franklin Street - Depot Street Intersection Upgrade, Montgomery County	Montgomery County	Highway, Bike/ped	2.89	58
SA34	S11	Communication and coordination incident management plan for I-81 corridor within the Salem District, Multi-jurisdictional	Multiple	Highway	Strategy	60
SA35	S12	Rte. 220 Safety and Corridor Improvements in Franklin and Roanoke Counties, Multi-jurisdictional	Multiple	Highway	34	61
SA36	S12	Rte 220 Access Management and Corridor Improvement Strategies in Henry, Franklin and Roanoke Counties, Multi-jurisdictional	Multiple	Highway	30.55	63
SA37	S17	Regional Greenway Continual Development and Improvements, Multi-jurisdictional	Multiple	TBD	TBD	65
SA38	S17	Improvements to intersections, transit, turn movements, and streetscape in Downtown Salem, City of Salem	Salem City	Highway, Bike/ped, Bus Transit	3.63	66
SA39	S17	Appalachian Trail Pedestrian Study in Craig and Botetourt Counties, Multi-jurisdictional	Multiple	Bike/ped	TBD	67



Salem District

Project Sheets

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details

Project Reference Number

SA01

Short Description

Mainline Improvements: Auxiliary lane on SB I-81 between Exits 150 and the truck scales, Botetourt County

District

Salem

Local Jurisdiction

Botetourt County

VMTP Need Type (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

2040 CoSS Segment B2 Needs A, 2025 Roanoke Regional Need B

Project Status:

Smart Scale Round 2 application

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Construct an auxiliary lane on SB I-81 between Exit 150 and truck scales to reduce congestion, increase reliability and increase safety. (SMART SCALE, Phase 2 Application 1002)

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other: _____

Estimated Project Cost (in \$M)

\$ 21.50

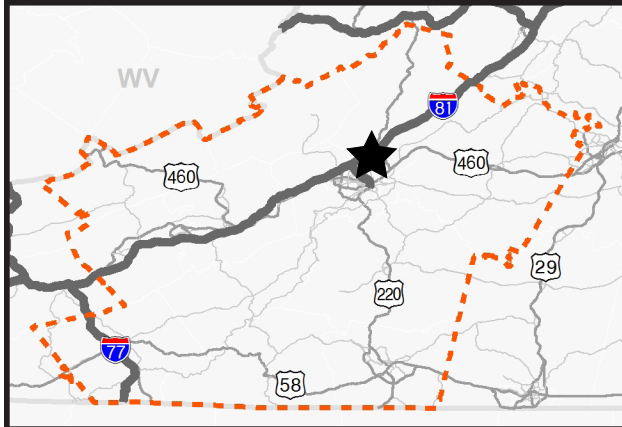
Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Reduce the conflict of speed variance between trucks and the rest of traffic
Congestion Mitigation	Reduces the hindrance of low speed climbing trucks to the rest of traffic
Accessibility	Accessibility increase from decrease in congestion and increase in reliability
Land Use	Project would increase the efficiency of the current transportation land-use
Environment	Project does not have a significant environmental benefit
Economic Development	Project does not have an economic development benefit



Project Reference Number: SA01
 Short Project Description: Mainline Improvements: Auxiliary lane on SB I-81 between Exits 150 and the truck scales

VDOT District: Salem
 Local Jurisdiction: Botetourt County

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details

Project Reference Number

SA02

Short Description

Mainline Improvement: Auxiliary lane on SB I-81 between Exits 140 and 141, Roanoke County

District

Salem

Local Jurisdiction

Roanoke County

VMTP Need Type (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

2040 CoSS Segment B2 Needs A, 2025 Roanoke Regional Need B

Project Status:

Smart Scale Round 2 application

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Construct an auxiliary lane on SB I-81 between Exit 140 and Exit 141 in Roanoke County to reduce congestion, increase reliability and increase safety. (SMART SCALE, Phase 2 Application 1047)

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other: _____

Estimated Project Cost (in \$M)

\$ 14.80

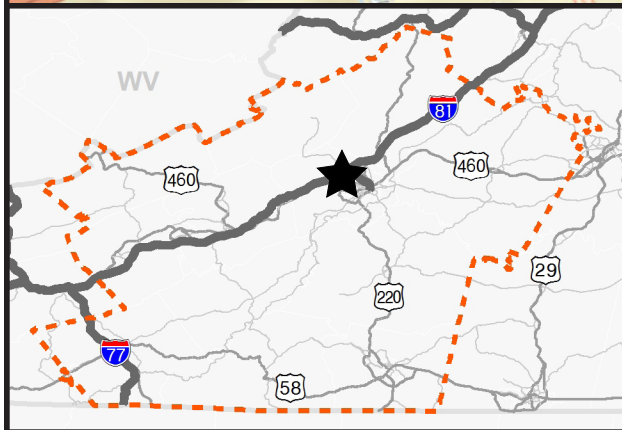
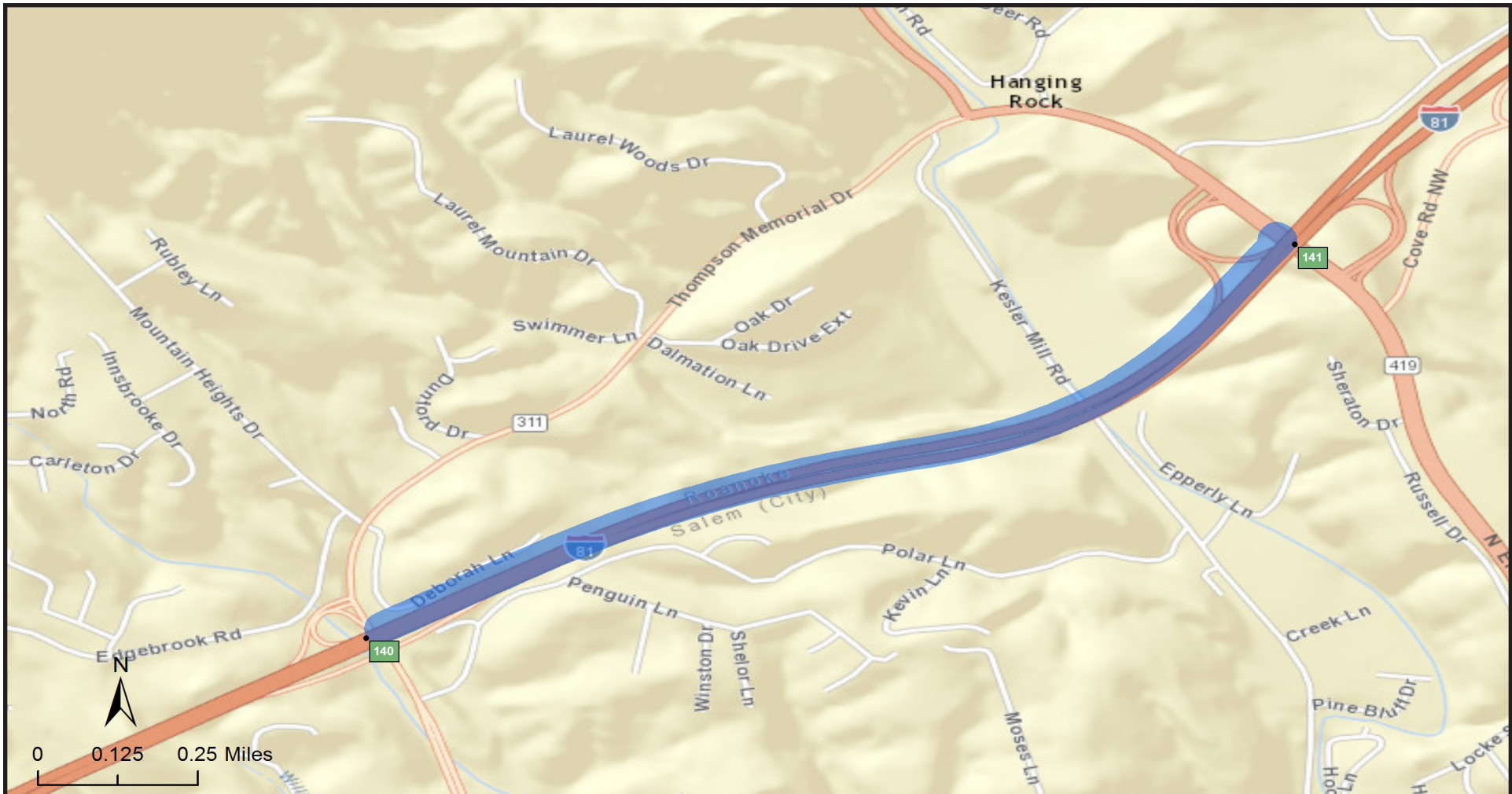
Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Reduce the conflict of speed variance between trucks and the rest of traffic
Congestion Mitigation	Reduces the hindrance of low speed climbing trucks to the rest of traffic
Accessibility	Accessibility increase from decrease in congestion and increase in reliability
Land Use	Project would increase the efficiency of the current transportation land-use
Environment	Project does not have a significant environmental benefit
Economic Development	Project does not have an economic development benefit



Project Reference Number: SA02
 Short Project Description: Mainline Improvements: Auxiliary lane on SB I-81 between Exits 140 and 141
 VDOT District: Salem
 Local Jurisdiction: Roanoke County

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details

Project Reference Number

SA03

Short Description

Mainline Improvements: Auxiliary lane on NB I-81 between Exits 140 and 141, Multi-jurisdictional

District

Salem

Local Jurisdiction

Multiple

VMTP Need Type (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

2040 CoSS Segment B2 Needs A, 2025 Roanoke Regional Need B

Project Status:

Smart Scale Round 2 application

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Construct an auxiliary lane on NB I-81 between Exit 140 and 141 to reduce congestion, increase reliability and increase safety. (SMART SCALE, Phase 2 Application 1039)

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other: _____

Estimated Project Cost (in \$M)

\$ 16.00

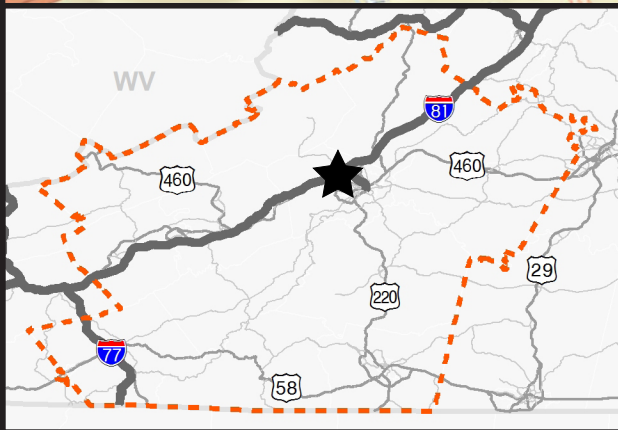
Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Reduce the conflict of speed variance between trucks and the rest of traffic
Congestion Mitigation	Reduces the hindrance of low speed climbing trucks to the rest of traffic
Accessibility	Accessibility increase from decrease in congestion and increase in reliability
Land Use	Project would increase the efficiency of the current transportation land-use
Environment	Project does not have a significant environmental benefit
Economic Development	Project does not have an economic development benefit



Project Reference Number: SA03
 Short Project Description: Mainline Improvements: Auxiliary lane on NB I-81 between Exits 140 and 141
 VDOT District: Salem
 Local Jurisdiction: Roanoke County

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details

Project Reference Number

SA04

Short Description

Route 221 Widening, Roanoke County

District

Salem

Local Jurisdiction

Roanoke County

VMTP Need Type (Place X in all applicable boxes)

Corridor of Statewide Significance
 Regional Network
 UDAs
 Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Regional Network Need F

Project Status:

Initiation recently within a Transit Development Plan, VDOT, DRPT, transit provider, MPO, PDC, or other local planning document

Recommendation Features

Type (Place X in all applicable boxes)

Highway
 Bike/Pedestrian
 Bus Transit
 Rail Transit
 Freight Rail
 Travel Demand Management

Detailed Description of Improvements

Widen Rte. 221 from 2 lanes to 4 lanes from Rte. 752 to Rte. 688 in Roanoke County.

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE
 TAP
 CMAQ
 HSIP
 Prescoping
 Other:

Estimated Project Cost (in \$M)

TBD

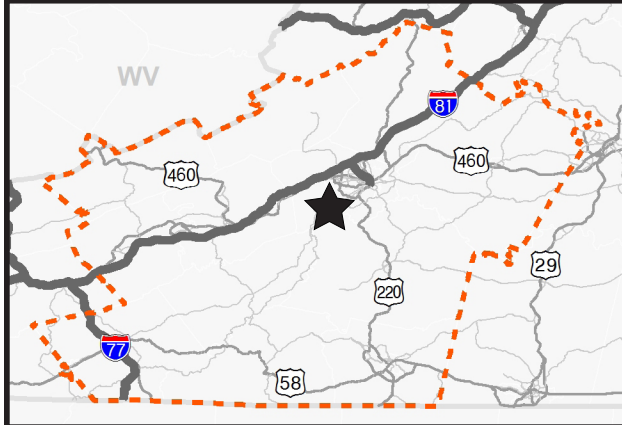
Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	NA
Congestion Mitigation	NA
Accessibility	NA
Land Use	NA
Environment	NA
Economic Development	NA



Project Reference Number: SA04
Short Project Description: Rte. 221 Widening
VDOT District: Salem
Local Jurisdiction: Roanoke County

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details

Project Reference Number

SA05

Short Description

US 220 Expressway Acceleration Lane Improvement, City of Roanoke

District

Salem

Local Jurisdiction

Roanoke City

VMTP Need Type (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

2040 CoSS Segment F2 Need A & I

Project Status:

Smart Scale Round 2 application

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Reconstruct paving section to facilitate a dedicated lane for southbound Route 419 loop ramp entry onto northbound Route 220 to improve safety and reliability. This work includes improving sub-base pavement structure to support daily traffic load in certain areas that do not have an adequate pavement structure, adjusting lane configuration within existing footprint of the travel way, modifying super elevation to accommodate revised transition, adjusting concrete barrier to accommodate super elevation improvement and milling and overlaying existing pavement between the end of the structure over Route 419 and the end of the improvements in the northbound direction. (SMART SCALE, Phase 2 Application 1049)

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other: _____

Estimated Project Cost (in \$M)

\$ 2.02

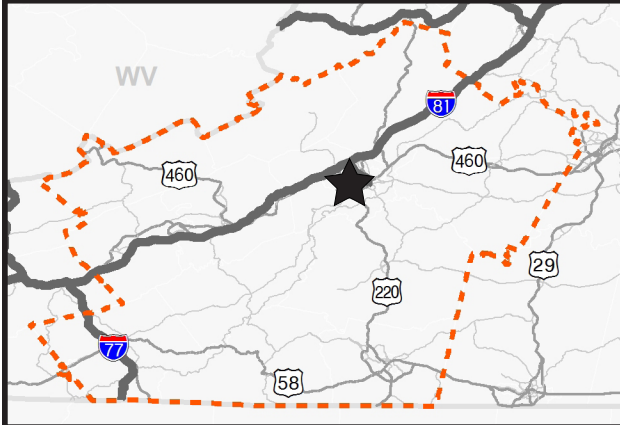
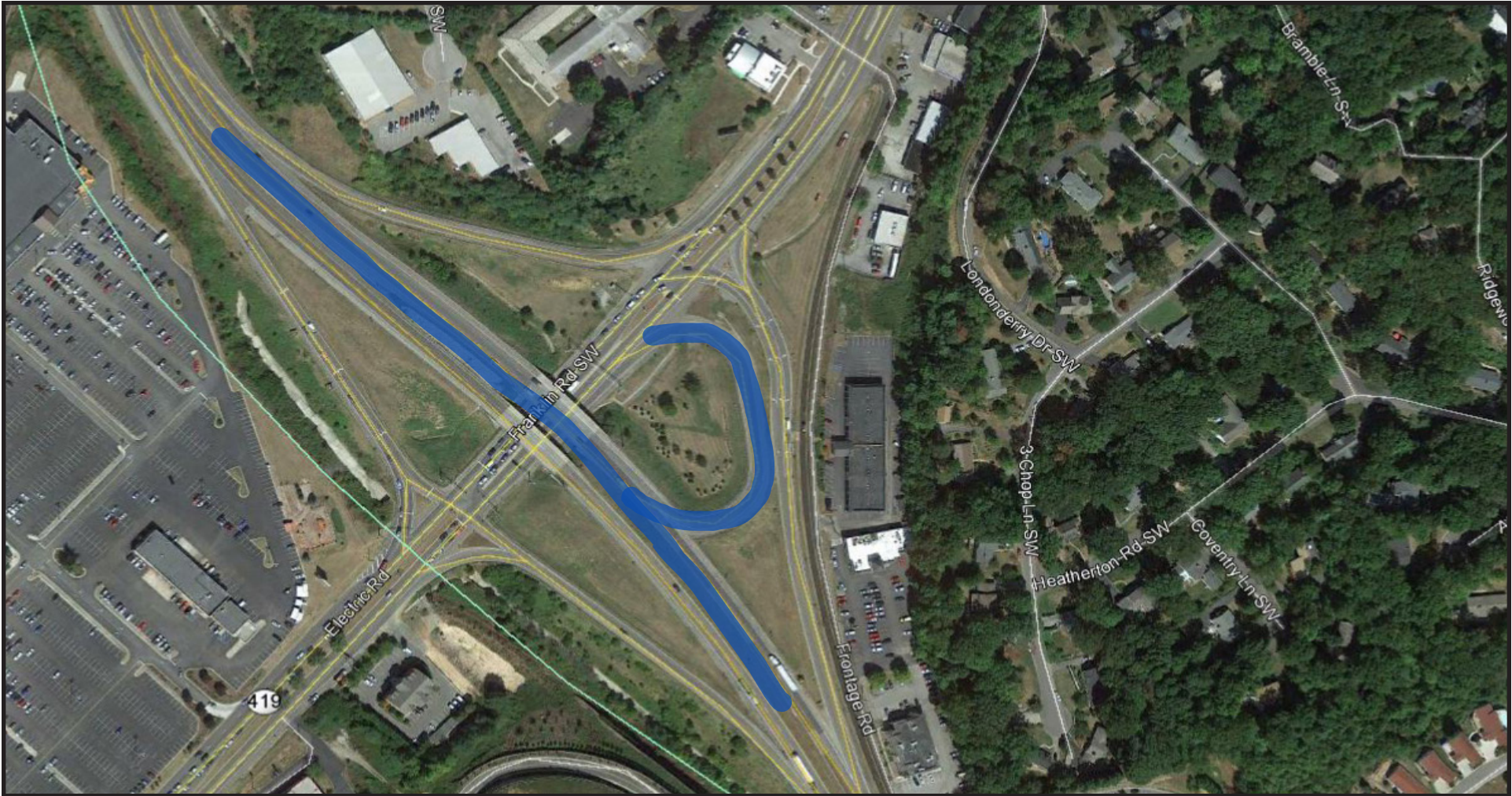
Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Increased safety from extending the acceleration lane and increasing merging area
Congestion Mitigation	Congestion mitigation from improved interchange operations
Accessibility	No accessibility benefit anticipated
Land Use	Project supports mixed-use development and in-fill
Environment	Environmental benefits from congestion reduction
Economic Development	Enhances acces near the project but is not adjacent to the project



Project Reference Number: SA05
Short Project Description: US 220 Expressway Acceleration Lane Improvement

VDOT District: Salem
Local Jurisdiction: Roanoke City

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number**

Short Description

US 460 Access Management & Safety Improvements, Multi-jurisdictional

District Local Jurisdiction

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

2040 CoSS Segment E2 Needs R, V & X, 2025 Roanoke Regional Need F

Project Status:

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Safety improvements along US 460 from Evan Ln to Patrick Rd. NE and Access Management improvements from I-581 to 24th St. NE. to correct safety deficiencies.

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other:

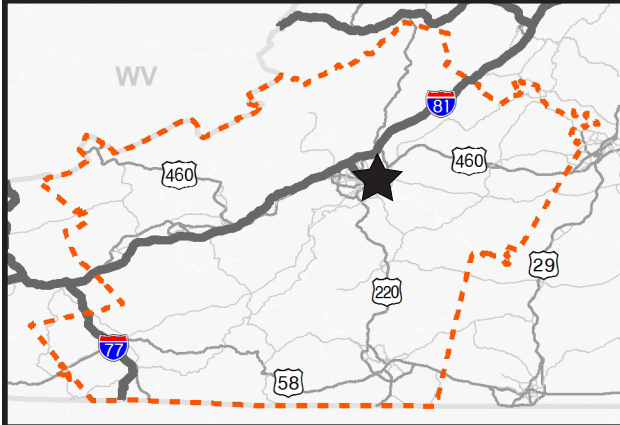
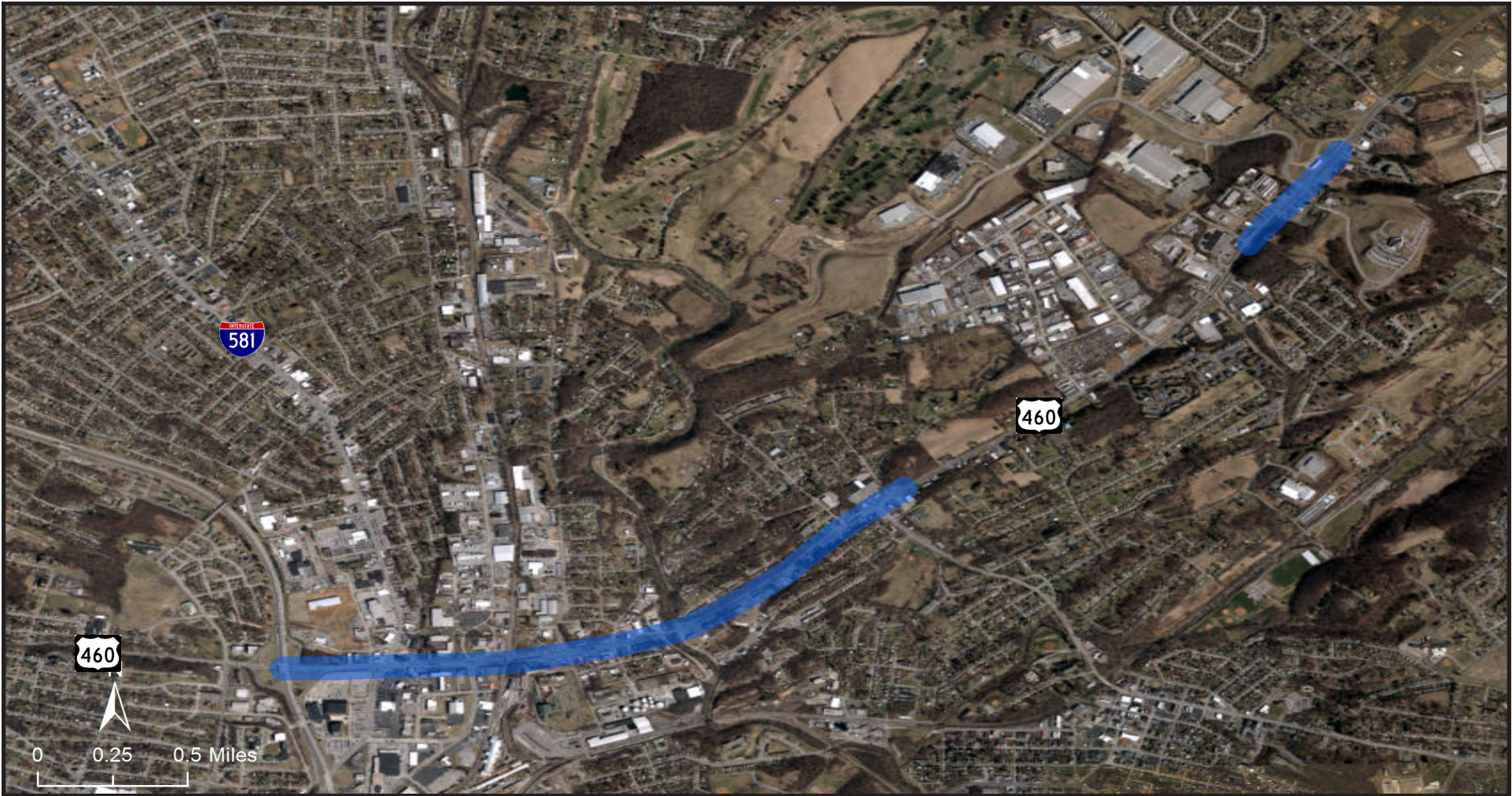
Estimated Project Cost (in \$M) Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Reduction in crashes increases reliability and reduces congestion
Congestion Mitigation	Reduction in congestion from increased reliability
Accessibility	Accessibility increase from decrease in congestion and increase in reliability
Land Use	Increased safety and reliability would promote in-fill of adjacent mixed-use properties
Environment	Reduction in congestion results in reduced delay and environmental impacts
Economic Development	Increase in reliability will be beneficial for economic development



Project Reference Number: SA06
Short Project Description: US 460 Access Management & Safety Improvements

VDOT District: Salem
Local Jurisdiction: Roanoke County, Roanoke City

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number**

Short Description

District **Local Jurisdiction**

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Project Status:

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Extend the acceleration and deceleration ramps on I-81 at Exit 143 SB decel, Exit 137 NB accel, Exit 137 SB decel, Exit 143 NB accel, Exit 132 NB accel, weigh station SB accel, Exit 140 SB accel and weigh station NB to reduce congestion, increase reliability and increase safety.

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other:

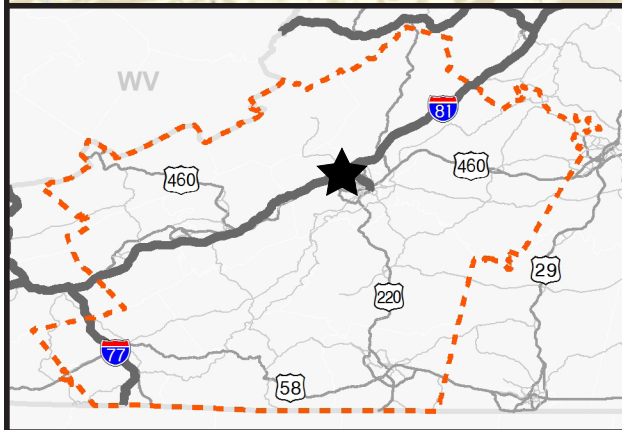
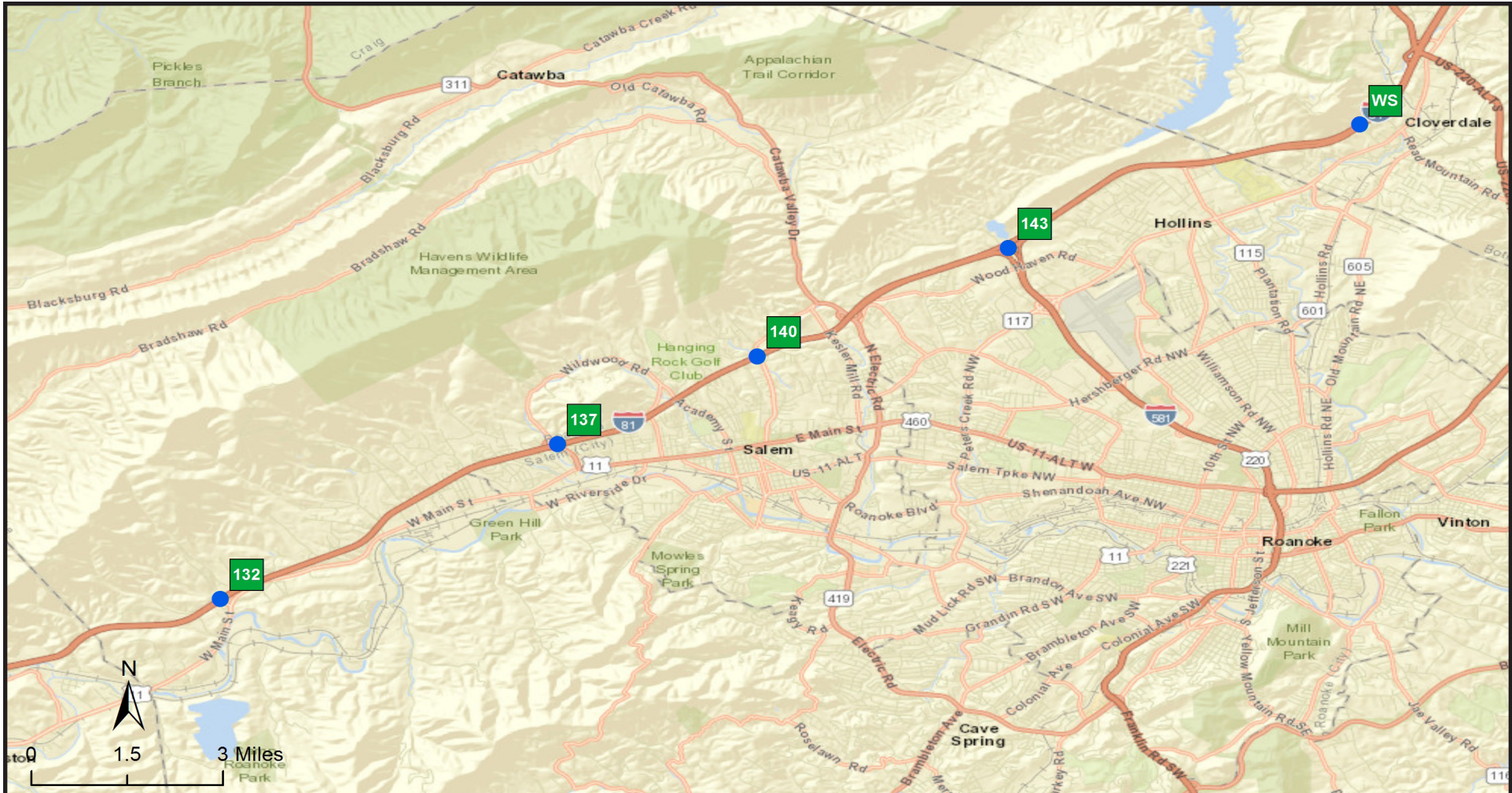
Estimated Project Cost (in \$M) Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Providing more room for merges reduces conflict and increase safety
Congestion Mitigation	Extending ramps will provide more room to merge on and off the interstate
Accessibility	Accessibility increase from decrease in congestion and increase in reliability
Land Use	No anticipated support for in-fill adjacent to project
Environment	Project does not have a significant environmental benefit
Economic Development	Increase in reliability of the corridor will be beneficial for economic development



Project Reference Number: SA07
 Short Project Description: Interchange Improvements: Extend acceleration/deceleration ramps at I-81 Exits 132,137, 140 and 143

VDOT District: Salem
 Local Jurisdiction: Botetourt County, Roanoke County, Salem City

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number**

Short Description

Mainline Improvement: Add auxiliary lane to NB I-81 from the truck scales to Exit 150, Multi-jurisdictional

District **Local Jurisdiction**

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

2040 CoSS Segment B2 Needs A, 2025 Roanoke Regional Need B

Project Status:

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Add auxiliary lane NB I-81 from truck scales to Exit 150 to reduce congestion, increase reliability and increase safety.

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other:

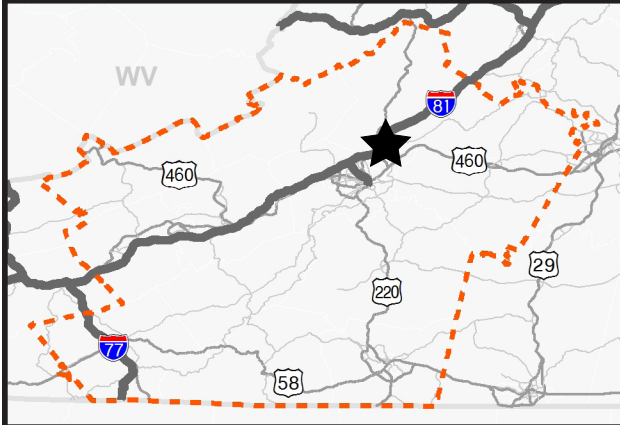
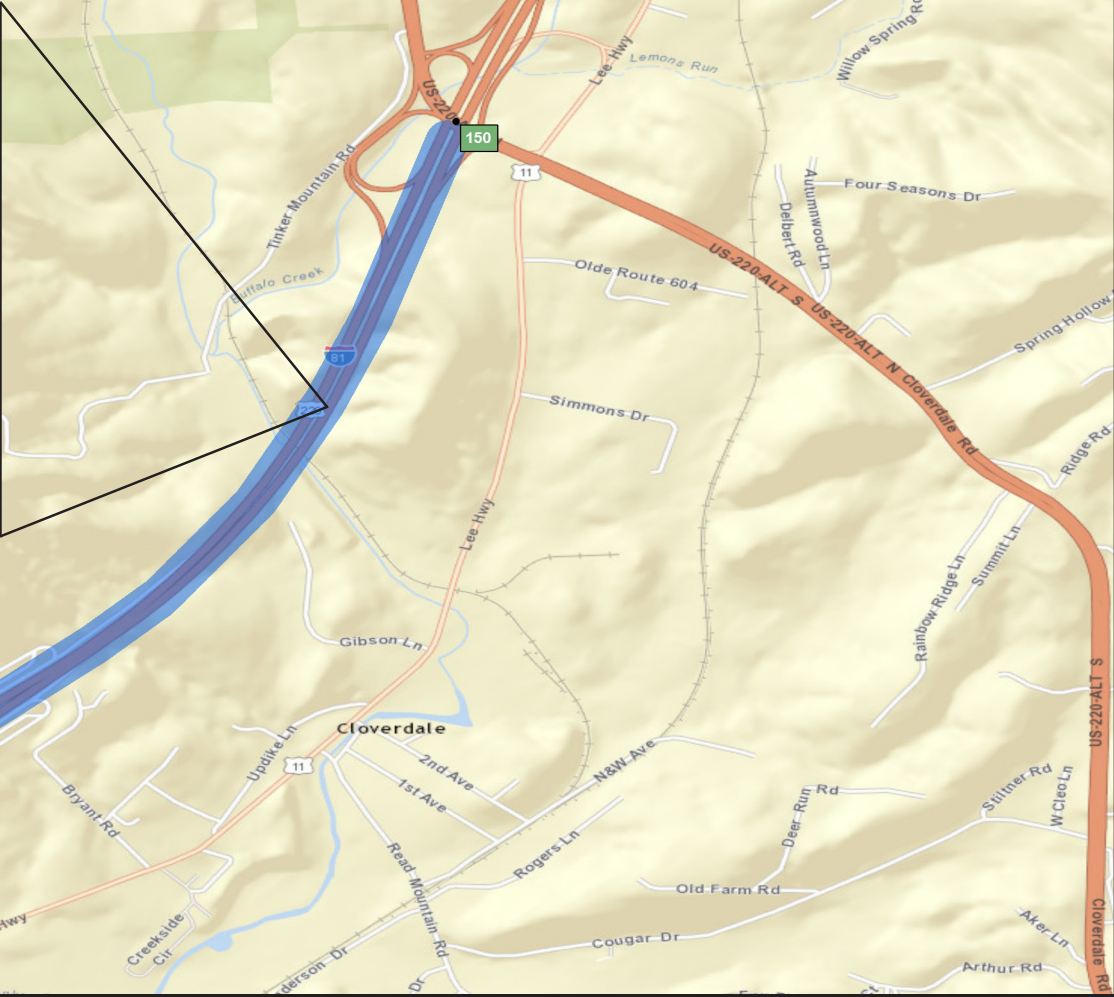
Estimated Project Cost (in \$M) Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Reduces the conflict of speed variance between trucks and the rest of traffic
Congestion Mitigation	Reduces the hindrance of low speed climbing trucks to the rest of traffic
Accessibility	Accessibility increase from decrease in congestion and increase in reliability
Land Use	No anticipated support for in-fill adjacent to project
Environment	Project does not have a significant environmental benefit
Economic Development	Increase in reliability of the corridor will be beneficial for economic development



Project Reference Number: SA08
Short Project Description: Mainline Improvements: Add auxiliary lane to NB I-81 from the truck scales to Exit 150, Multi-jurisdictional
VDOT District: Salem
Local Jurisdiction: Roanoke County, Salem City, Botetourt County

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number**

Short Description

District Local Jurisdiction

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Project Status:

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Improve interchange at Exit 114, including approaches and improvements to Rte. 8 to reduce congestion on I-81 and improve the safety characteristics of the interchange.

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other:

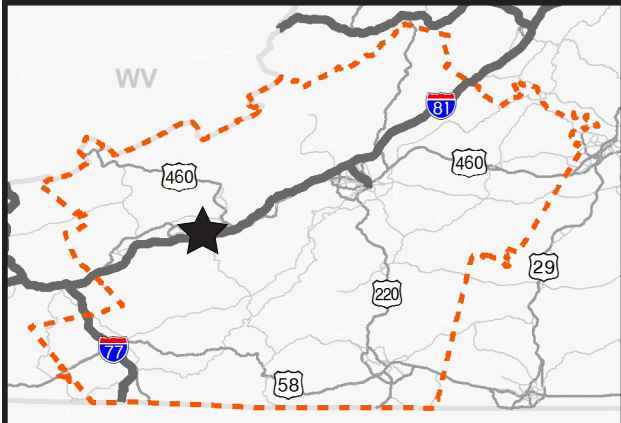
Estimated Project Cost (in \$M) Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Improves the safety characteristics of the interchange
Congestion Mitigation	Reduces the hindrance of trucks climbing at low speed and entering/exiting I-81
Accessibility	Accessibility increase from decrease in congestion and increase in reliability
Land Use	No anticipated support for in-fill adjacent to project
Environment	Project does not have a significant environmental benefit
Economic Development	Increase in reliability will be beneficial for economic development



Project Reference Number: SA09
Short Project Description: Interchange Improvement: I-81
Exit 114

VDOT District: Salem
Local Jurisdiction: Montgomery County

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details

Project Reference Number

SA10

Short Description

US 11 Corridor ITS and Signal Improvement and Safety Improvements in RVTPO, Multi-jurisdictional

District

Salem

Local Jurisdiction

Multiple

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

2040 CoSS Segment B2 Need N, S, Q, 2025 Roanoke Regional Need B

Project Status:

New, unique recommendation

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Enhanced traffic signal system and ITS equipment on US 11 from Cloverdale Rd. to Rte. 117 (Peterscreek Rd.) and from intersection of E. Main St and Electric Rd. to Daugherty Rd. Access management and safety improvements on US 11 / 460 in Salem from Greene St. to Texas Hollow Rd. to increase reliability and decrease congestion. This would allow for better operational efficiency of the corridor and emergency management during incidents on I-81. Technologies could be incorporated with an ATMS system along I-81 for increase incident management and operational efficiency.

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other: _____

Estimated Project Cost (in \$M)

\$ 7.00

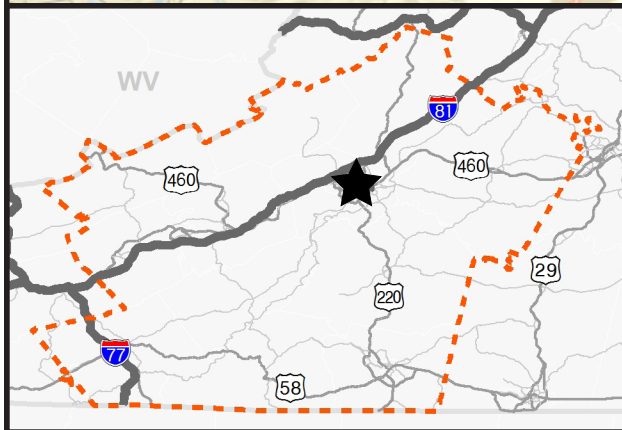
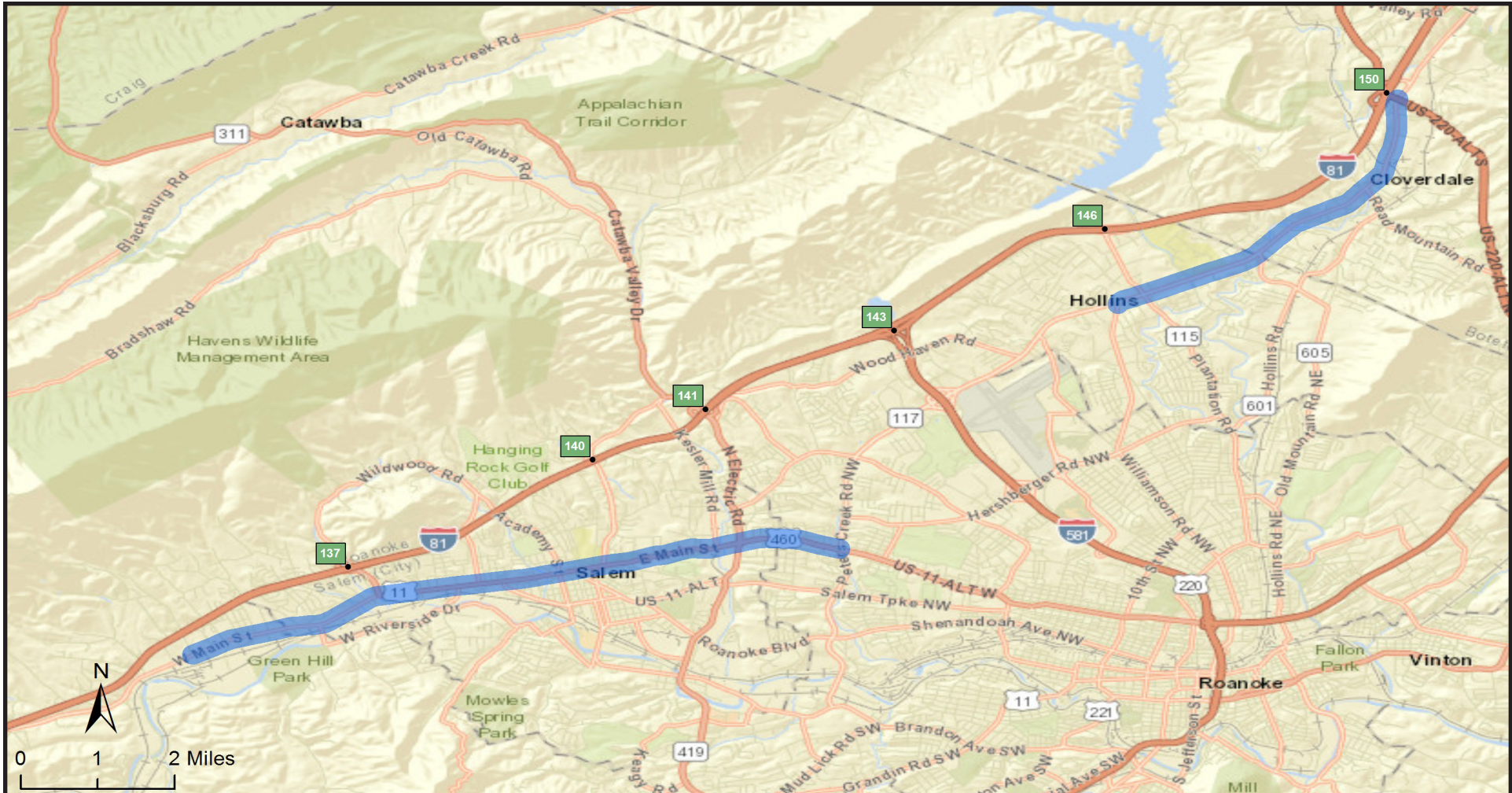
Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Consolidating accesses will reduce conflicts and increase safety
Congestion Mitigation	Reduction in congestion from increased responsiveness of signals and ops staff
Accessibility	Accessibility increase from decrease in congestion and increase in reliability
Land Use	Increased safety and reliability would promote in-fill of adjacent mixed-use properties
Environment	Reduction in congestion results in reduced delay and environmental impacts
Economic Development	Increase in reliability of the corridor will be beneficial for economic development



Project Reference Number: SA10
 Short Project Description: US 11 corridor ITS and Signal Improvement and Safety Improvements in RVTP0
 VDOT District: Salem
 Local Jurisdiction: Salem City, Roanoke City, Roanoke County

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number**

Short Description

Study operational improvements from exit 137 to exit 143 on the I-81 corridor, Multi-jurisdictional

District **Local Jurisdiction**

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

CoSS Needs 40, 41, 42, 37, 38, 47; Roanoke Regional Network Needs B, C, D, E, F; UDA 72

Project Status:

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Study operational improvements from exit 137 to exit 143 on the I-81 corridor and along 581 in downtown Roanoke. Many short trips in the area utilize I-81 and I-581 and increase congestion on these corridors. Study to explore operational improvements along these corridors to ensure their operational and economic stability. (Map is not available for studies)

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other:

Estimated Project Cost (in \$M) Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Improvements to the safety characteristics of the interchanges
Congestion Mitigation	Operational improvements would reduce congestion within the corridor
Accessibility	Accessibility increase from decrease in congestion and increase in reliability
Land Use	Improved operations to support accessibility for mixed-use development and in-fill
Environment	Environmental benefits from congestion reduction
Economic Development	Increase in reliability will be beneficial for economic development

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** SA12

Short Description

Access management improvements on US 460, Multi-jurisdictional

District: Salem Local Jurisdiction: Multiple

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance
 Regional Network
 UDAs
 Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Regional Network Need G

Project Status: New, unique recommendation

Recommendation Features

Type (Place X in all applicable boxes)

Highway
 Bike/Pedestrian
 Bus Transit
 Rail Transit
 Freight Rail
 Travel Demand Management

Detailed Description of Improvements

Develop and implement access management projects along US 460 from the Roanoke City/County line to the Bedford / Campbell County line (38 miles). This is in order to improve safety and maintain the capacity and reliability of the corridor.

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE
 TAP
 CMAQ
 HSIP
 Prescoping
 Other:

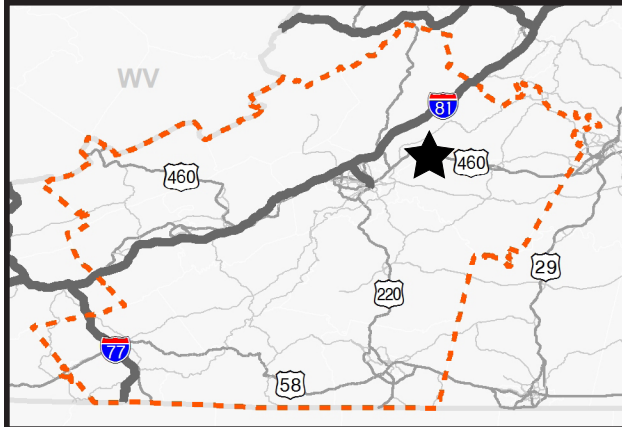
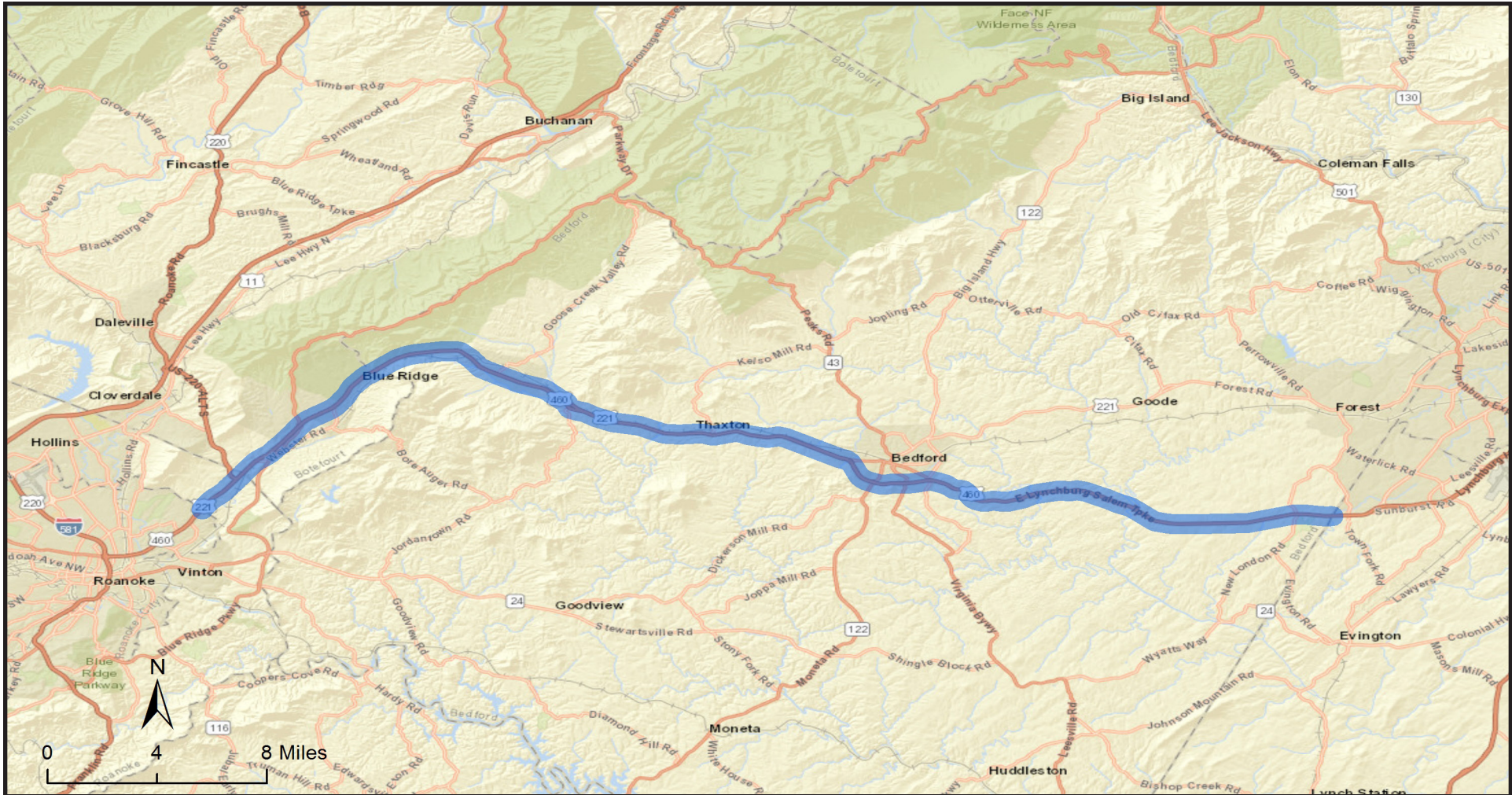
Estimated Project Cost (in \$M) \$ 38.00 Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Reduction in conflict locations and crashes increases reliability and reduces congestion
Congestion Mitigation	Reduction in congestion from increased reliability
Accessibility	Accessibility increase from decrease in congestion and increase in reliability
Land Use	Increased safety and reliability would promote in-fill of adjacent mixed-use properties
Environment	Reduction in congestion results in reduced delay and environmental impacts
Economic Development	Increase in reliability will be beneficial for economic development



Project Reference Number: SA12

Short Project Description: Access management improvements on US 460

VDOT District: Salem

Local Jurisdictions: Bedford County, Botetourt County, Roanoke County

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number**

Short Description

District **Local Jurisdiction**

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Project Status:

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Study operational improvements for I-581 / Route 220 from the Peter's Creek Rd. interchange through to the Rte. 419 (Electric Rd.) interchange. Many short trips in the area I-581 / US 220 and increase congestion on these corridors. Study to explore operational improvements along these corridors to ensure their operational and economic stability. Study is eligible for prescoping funds, and recommendations for the project may be eligible for SMART SCALE funding. (Map is not available for studies)

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other:

Estimated Project Cost (in \$M)

Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Improvements to the safety characteristics of the interchanges
Congestion Mitigation	Operational improvements would reduce congestion within the corridor
Accessibility	Accessibility increase from decrease in congestion and increase in reliability
Land Use	Improved operations to support accessibility for mixed-use development and in-fill
Environment	Environmental benefits from congestion reduction
Economic Development	Increase in reliability will be beneficial for economic development

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details

Project Reference Number

SA14

Short Description

Grade separation over railroad at 13th St. & Hollins Rd, City of Roanoke

District

Salem

Local Jurisdiction

Roanoke City

VMTP Need Type (Place X in all applicable boxes)

Corridor of Statewide Significance
 Regional Network
 UDAs
 Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Regional Needs A, F; Roanoke City UDA

Project Status:

Smart Scale Round 2 application

Recommendation Features

Type (Place X in all applicable boxes)

Highway
 Bike/Pedestrian
 Bus Transit
 Rail Transit
 Freight Rail
 Travel Demand Management

Detailed Description of Improvements

Eliminate an at-grade railroad crossing by constructing a bridge over the tracks and the Lick Run stream crossing and will increase capacity in a commercial corridor, thereby, providing an enhanced connection between Route 460 (Orange Avenue) and Campbell Avenue into downtown Roanoke. The project is located just east of downtown Roanoke in an area with heavy commercial and industrial uses. Pedestrian and bicycle accommodations will be provided in both directions for the length of the project. (SMART SCALE, Phase 2 Application 1423)

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE
 TAP
 CMAQ
 HSIP
 Prescoping
 Other:

Estimated Project Cost (in \$M)

\$ 60.00

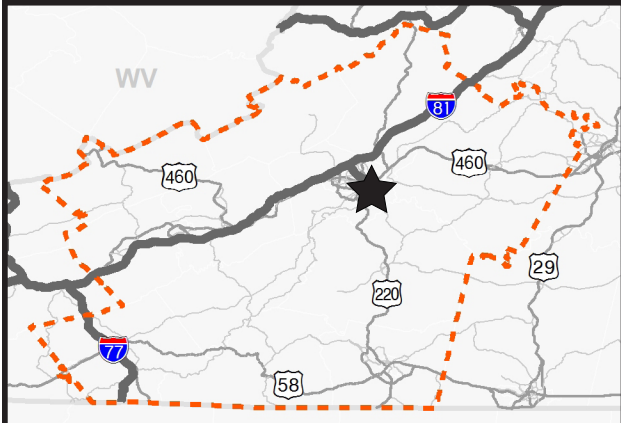
Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Increases safety by eliminating vehicle-train conflicts
Congestion Mitigation	Reduces congestion due to train crossing
Accessibility	Project includes bike/ped improvements for increased accessibility
Land Use	Project supports adjacent in-fill development
Environment	Improved bus service and congestion reductions to provide environmental benefit
Economic Development	Better reliability and capacity increases the viability of the local rail terminals



Project Reference Number: SA14
Short Project Description: Grade separation over railroad at 13th St. & Hollins Rd
VDOT District: Salem
Local Jurisdiction: Roanoke City

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details

Project Reference Number

SA15

Short Description

East Main St. Widening and Accessibility Improvements - Brand Rd. to Kessler Mill Rd, City of Salem

District

Salem

Local Jurisdiction

Salem City

VMTP Need Type (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

2040 CoSS Segment E2, Need U; Regional Need F; Salem City East UDA

Project Status:

Smart Scale Round 2 application

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Improve traffic flow and accessibility for motorists, bicyclists and pedestrians who use the 0.25-mile section of East Main Street (Route 460) in the City of Salem that provides access to the City's commercial and residential properties and the future Mason's Creek Greenway (currently under design). The existing roadway typical section provides lanes varying in width from 12 to 15 feet with a 10ft 2-way left turn lane existing mostly throughout the project limits except where a dedicated turn lanes exist for movements onto Kessler Mill Rd. A non-pedestrian/bike friendly railroad crossing and the lack of any shoulders prevents the safe use of the corridor by pedestrians and cyclist. Upgraded bus stop within project area. (SMART SCALE, Phase 2 Application 1342)

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other: _____

Estimated Project Cost (in \$M)

\$ 11.50

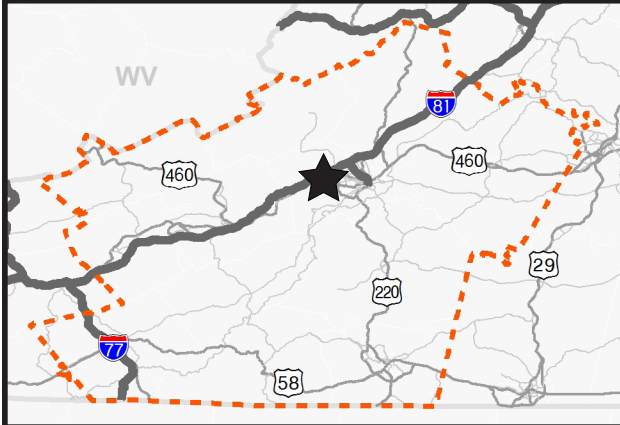
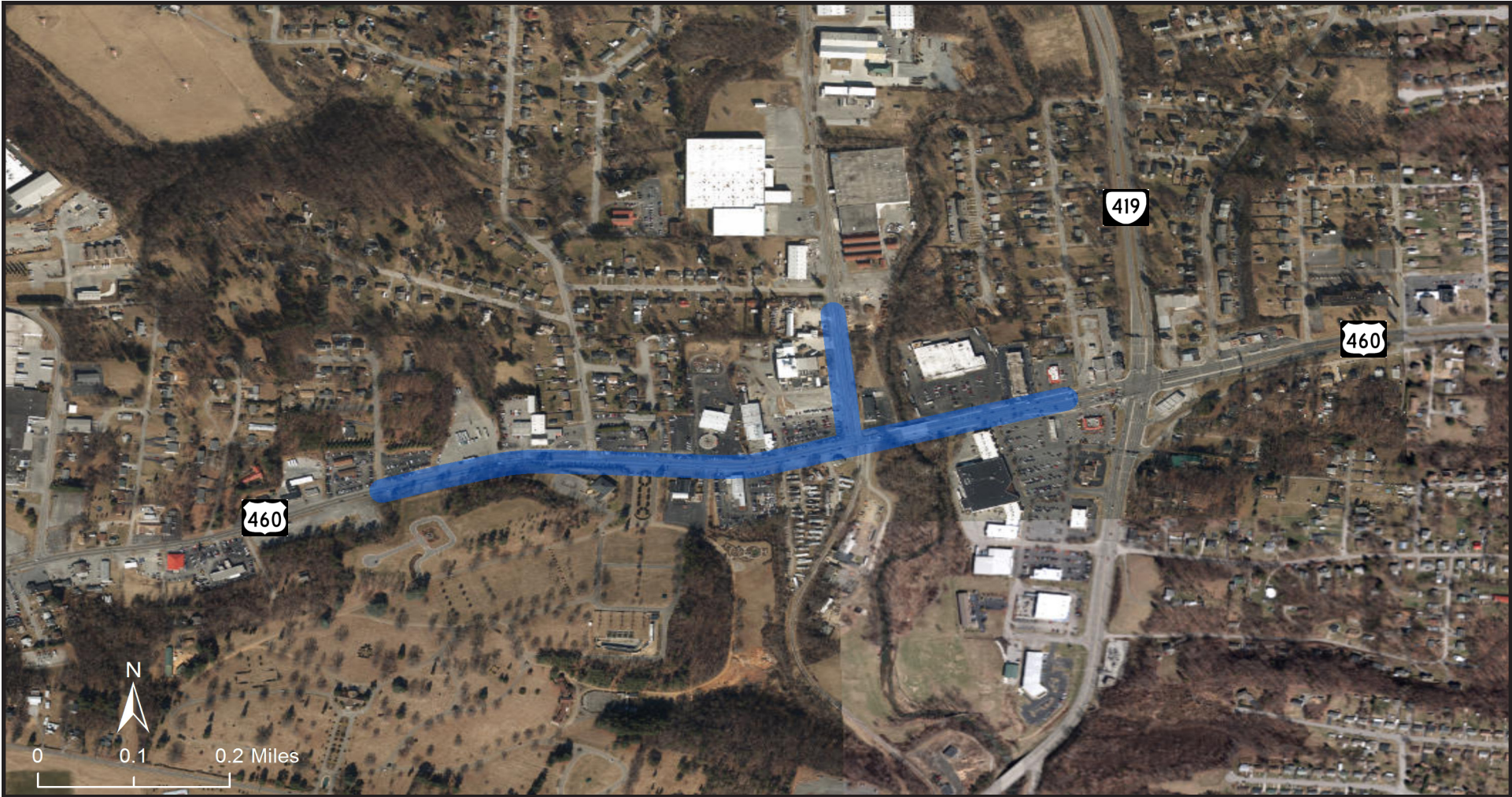
Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Improved safety through better access management and dedicated bike/ped facilities
Congestion Mitigation	Reduction in congestion from better access management
Accessibility	Project includes bike/ped and bus stop improvements for increased accessibility
Land Use	Project supports adjacent in-fill and mixed-use development
Environment	Reduction in congestion reduces impact on air quality
Economic Development	Enhances access for development in surrounding area



Project Reference Number: SA15
Short Project Description: East Main St. Widening and Accessibility Improvements - Brand Rd. to Kessler Mill Rd

VDOT District: Salem
Local Jurisdiction: Salem City

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details

Project Reference Number

SA16

Short Description

Roanoke Valley Greenway - Blue Ridge Pkwy to Rutrough Point, Roanoke County

District

Salem

Local Jurisdiction

Roanoke County

VMTP Need Type (Place X in all applicable boxes)

Corridor of Statewide Significance
 Regional Network
 UDAs
 Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Regional Need A; Roanoke County-Route 24/116/Vinton/Mount Pleasant UDA

Project Status:

Smart Scale Round 2 application

Recommendation Features

Type (Place X in all applicable boxes)

Highway
 Bike/Pedestrian
 Bus Transit
 Rail Transit
 Freight Rail
 Travel Demand Management

Detailed Description of Improvements

Construct the 1.8 mile greenway through Explore Park as a shared use path for bicyclists and pedestrians. The greenway will be constructed ten feet wide and paved to meet accessibility guidelines. This proposed section of the greenway will link residents and tourists in the urbanized areas of the Roanoke Valley with outdoor recreation amenities in rural areas including Explore Park, the Blue Ridge Parkway, and Smith Mountain Lake. (SMART SCALE, Phase 2, Application 1309)

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE
 TAP
 CMAQ
 HSIP
 Prescoping
 Other:

Estimated Project Cost (in \$M)

\$ 3.30

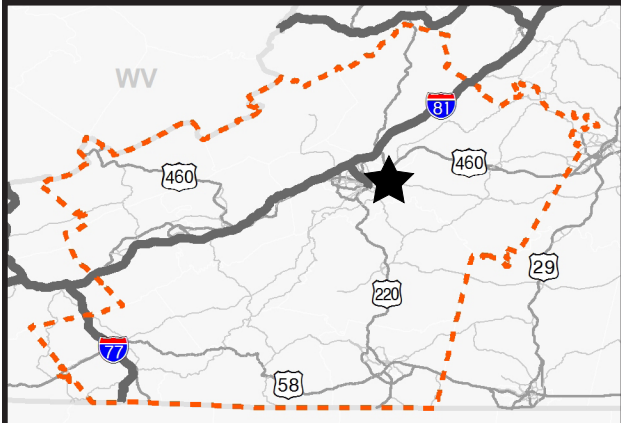
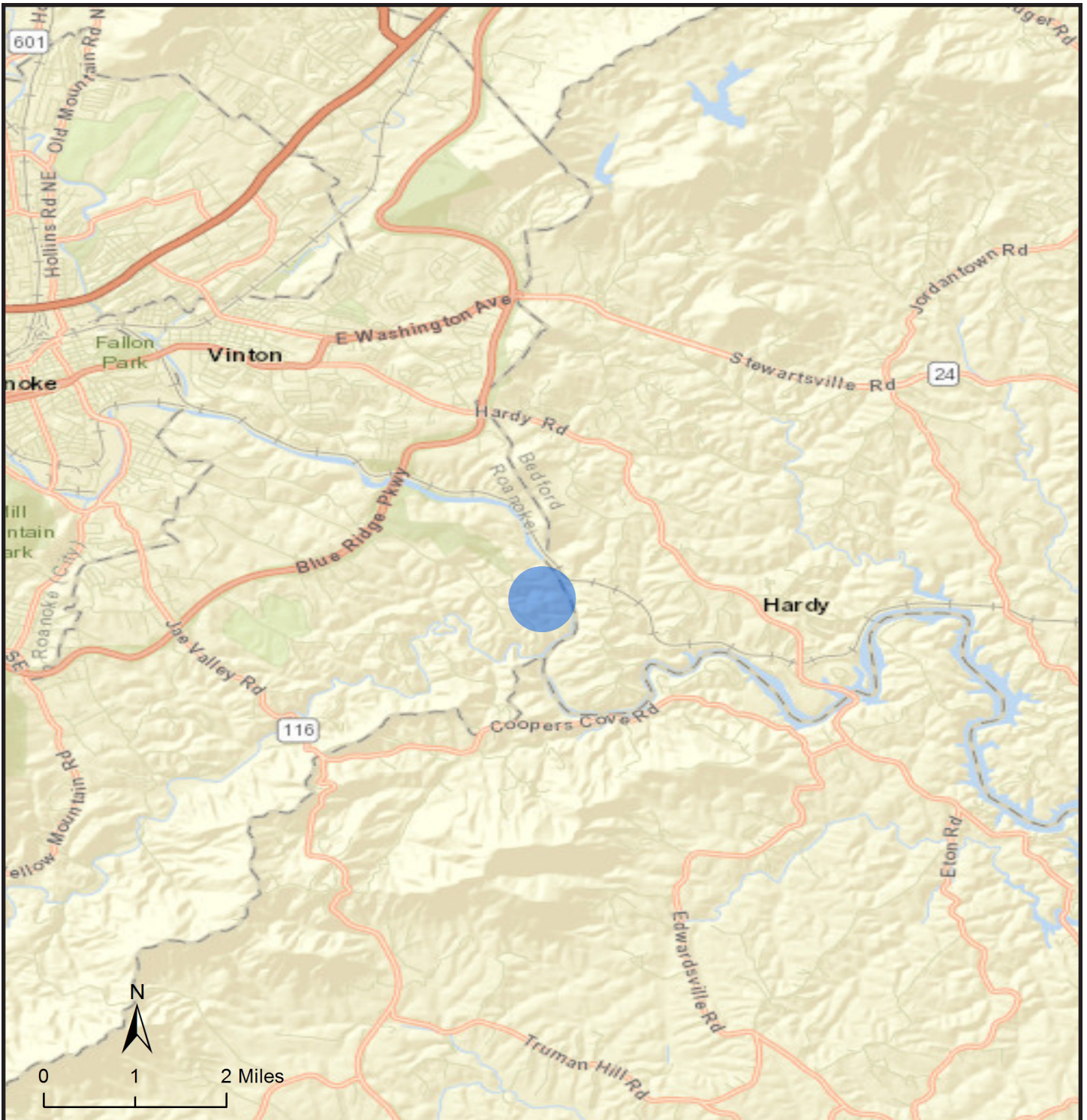
Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Project does not anticipate a substantial safety improvement
Congestion Mitigation	Project does not anticipate a substantial congestion improvement
Accessibility	Accessibility increases from modal choice
Land Use	Project supports adjacent mixed-use development
Environment	Environmental benefits from bike/ped improvements
Economic Development	Support for economic development through connectivity and accessibility



Project Reference Number: SA16
 Short Project Description: Roanoke River Greenway - Blue Ridge Pkwy to Rutrough Point
 VDOT District: Salem
 Local Jurisdiction: Roanoke County

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details

Project Reference Number

SA17

Short Description

Bike Improvements connecting Amtrak and Roanoke Valley Greenway, City of Roanoke

District

Salem

Local Jurisdiction

Roanoke City

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

2025 Roanoke Regional Need A

Project Status:

New, unique recommendation

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Install wayfinding to activity areas and bike routes. Sharrows on Wise Ave. SE and Campell Ave. SE from Fallon Park to Rte. 11, Campbell Ave SW from 13th St. SW to S. Jefferson St. and on 13th St. from Roanoke Ave. SW to Campbell Ave. SW. Roundabout at Campbell Ave. SW & 10th St. SW. This project will increase accessibility, connectivity and mode choice. These improvements would better link the new Amtrack station and downtown to the existing Roanoke Greenway network.

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other: City funding

Estimated Project Cost (in \$M)

\$ 0.12

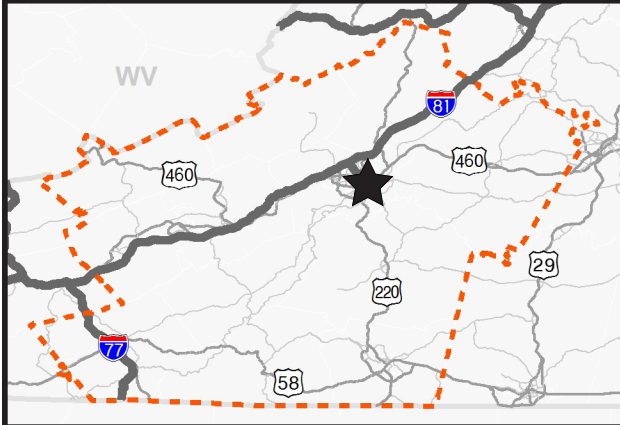
Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Moderate safety improvement at Campbell Ave. SW & 10th St. SW.
Congestion Mitigation	Reduction in congestion from increase in modal choice
Accessibility	Increases accesibility within the area by providing improved bike accomodations
Land Use	Increased safety and reliabily would promote in-fill of adjacent mixed-use properties.
Environment	Reduced environmental impact from reduction in VMT
Economic Development	Supports economic development with increase in multimodal access



Project Reference Number: SA17
 Short Project Description: Roanoke Bike Improvements connecting Amtrak and Roanoke Greenway
 VDOT District: Salem
 Local Jurisdiction: Roanoke City

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number**

Short Description

Study sidewalk and pedestrian improvements along transit routes, Roanoke City

District **Local Jurisdiction**

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance
 Regional Network
 UDAs
 Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Roanoke Regional Network Need A

Project Status:

Recommendation Features

Type (Place X in all applicable boxes)

Highway
 Bike/Pedestrian
 Bus Transit
 Rail Transit
 Freight Rail
 Travel Demand Management

Detailed Description of Improvements

Produce a study to determine to necessary sidewalk and pedestrian improvements along transit routes within the City of Roanoke to improve accessibility. The study is eligible for prescoping funds. The possible recommendations for the project may be eligible for SMART SCALE, TAP, and CMAQ funding. (Map is not available for studies)

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE
 TAP
 CMAQ
 HSIP
 Prescoping
 Other:

Estimated Project Cost (in \$M) Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Increased safety from enhanced pedestrian accommodations
Congestion Mitigation	Reduction in congestion from increase in modal choice
Accessibility	Increases accesibility within the area by providing improved bike/ped accomodations
Land Use	Increase in accesibility will promote in-fill of adjacent mixed-use development
Environment	Reduced environmental impact from reduction in VMT
Economic Development	Supports economic development with increase in multimodal access

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number**

Short Description

Mainline Improvement: Ironto Rest Area Climbing Lane, Multi-jurisdictional

District Local Jurisdiction

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

2025 Roanoke Regional Need B

Project Status:

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Construct climbing lane along NB I-81 from the Ironto Rest Area to Exit 132 to reduce congestion, increase reliability and increase safety.

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other:

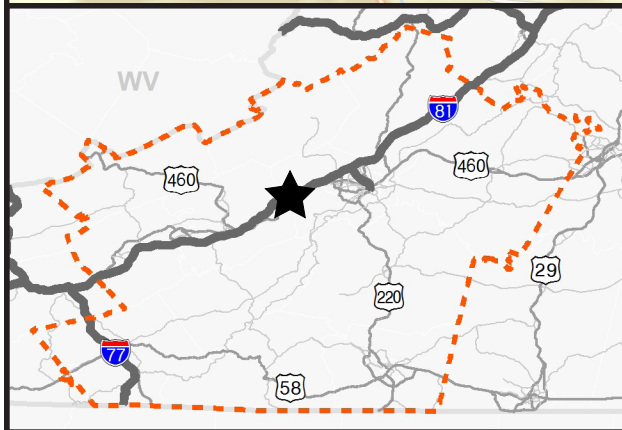
Estimated Project Cost (in \$M) Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Reduces the conflict of speed variance between trucks and the rest of traffic
Congestion Mitigation	Reduces the hindrance of low speed climbing trucks to the rest of traffic
Accessibility	Accessibility increase from decrease in congestion and increase in reliability
Land Use	No anticipated support for in-fill adjacent to project
Environment	Project does not have a significant environmental benefit
Economic Development	Increase in reliability will be beneficial for economic development



Project Reference Number: SA19
 Short Project Description: Mainline Improvement: Ironto Rest Area Climbing Lane
 VDOT District: Salem
 Local Jurisdiction: Montgomery County, Roanoke County

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number**

Short Description

District Local Jurisdiction

SMART SCALE Needs Categories (Place X in all applicable boxes)
 Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Project Status:

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Potential Funding Sources

(Place X in all applicable boxes)

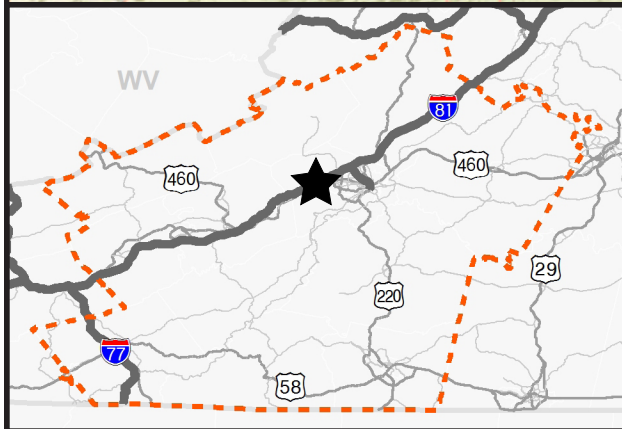
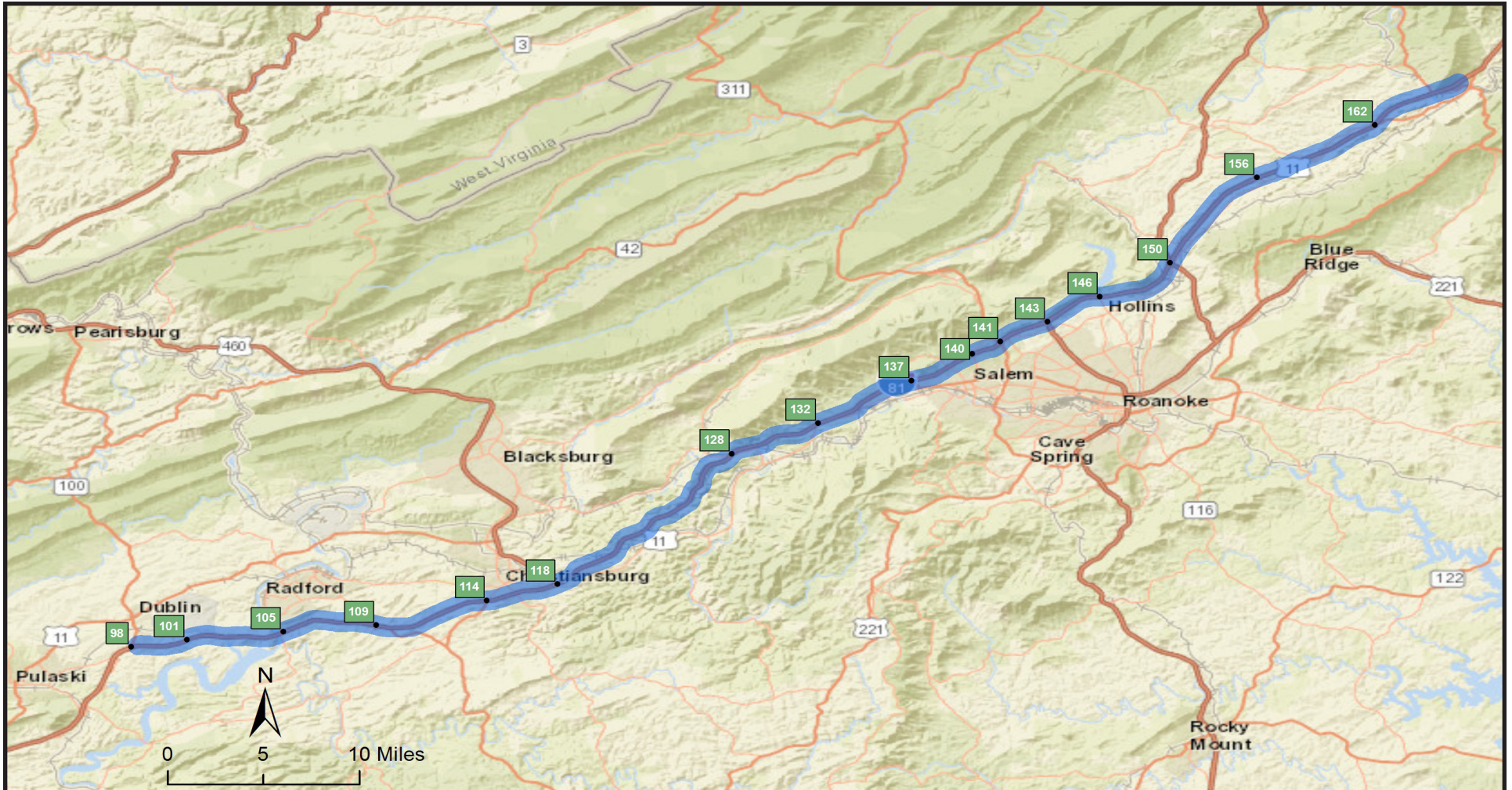
SMART SCALE TAP CMAQ HSIP Prescoping Other:

Estimated Project Cost (in \$M) Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

	Comments
Safety	Safety benefits from increased driver awareness and incident management
Congestion Mitigation	Reduction of congestion through real time management of the highway system
Accessibility	Accessibility increase from decrease in congestion and increase in reliability
Land Use	No anticipated support for in-fill adjacent to project
Environment	Reliability and congestion benefits improve air quality
Economic Development	Reliability and efficiency improvements support development



Project Reference Number: SA20
 Short Project Description: I-81 corridor Active Traffic Management System from Buchanan to Dublin

VDOT District: Salem
 Local Jurisdiction: Botetourt County, Montgomery County, Pulaski County, Radford City, Roanoke County

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** SA21

Short Description

Truck improvements to I-81 within NRVMPPO from Exits 98 through Exit 109, Multi-jurisdictional

District Salem **Local Jurisdiction** Multiple

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

2040 CoSS Segment B2 Needs A, C, G, H 2025 NRVMPPO Regional Network Need A

Project Status: New, unique recommendation

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Install climbing lanes along NB I-81 from Exit 98 to Exit 101 and from MM 106.1 to MM 107.5. Extend the acceleration and deceleration ramps at Exits 98 and 105. Project would increase reliability and safety and reduce congestion.

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other:

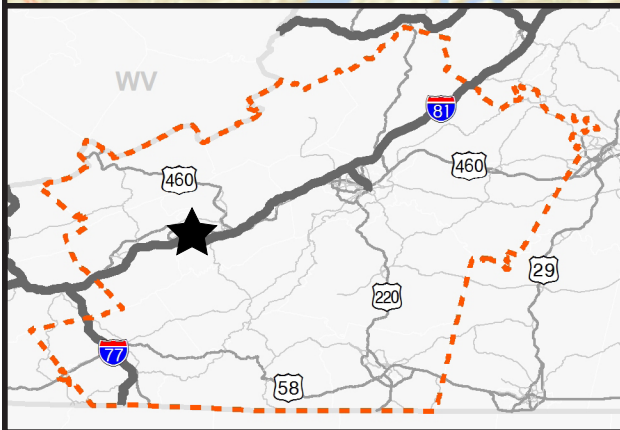
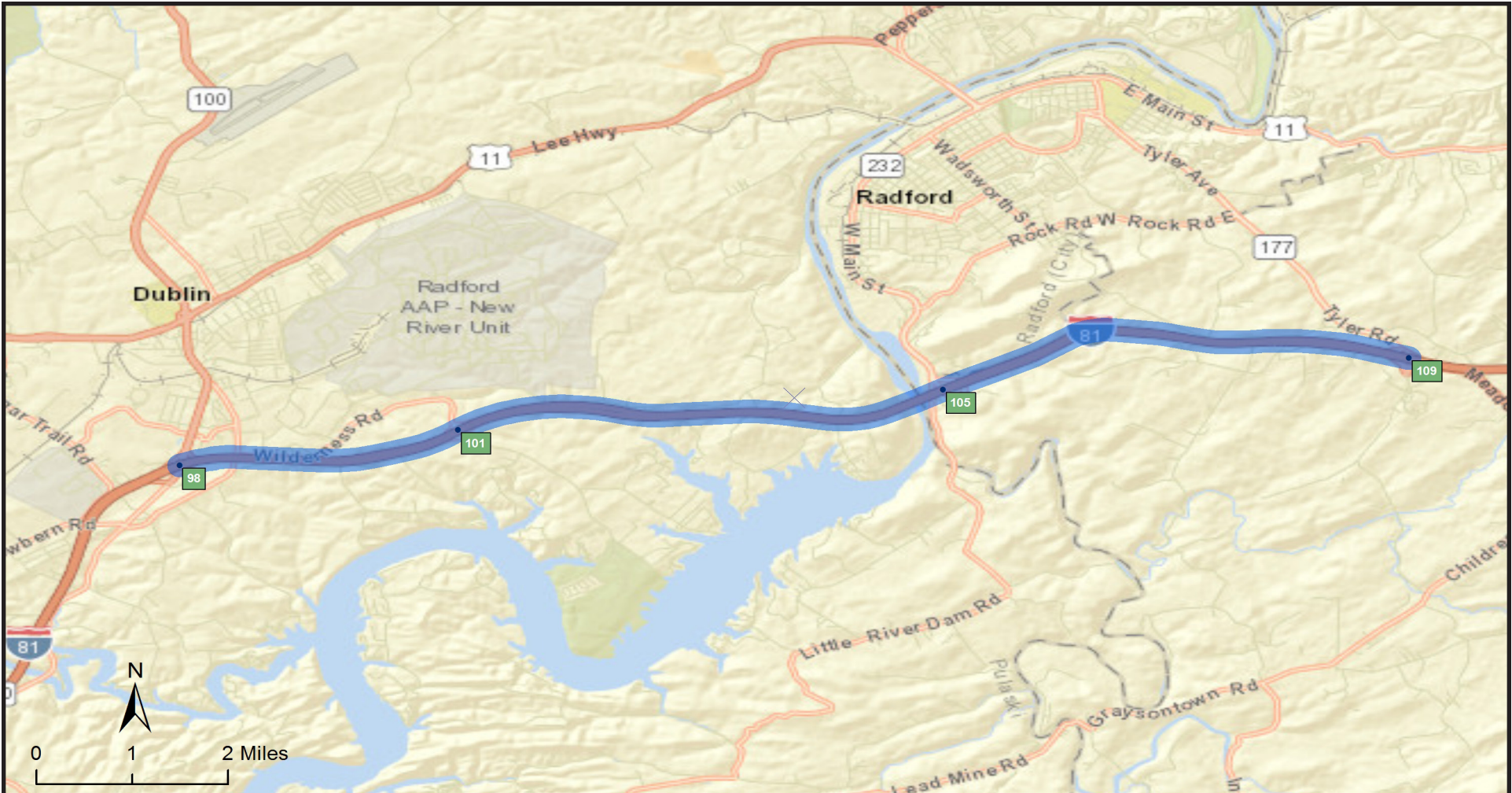
Estimated Project Cost (in \$M) \$ 22.80 Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Reduce the conflict of speed variance between trucks and the rest of traffic
Congestion Mitigation	Reduces the hindrance of trucks climbing at low speed and entering/exiting I-81
Accessibility	Accessibility increase from decrease in congestion and increase in reliability
Land Use	No anticipated support for in-fill adjacent to project
Environment	Project does not have an environmental benefit
Economic Development	Project does not have an economic development benefit



Project Reference Number: SA21
 Short Project Description: Truck improvements to I-81 within NRVMPO from Exits 98 through Exit 109
 VDOT District: Salem
 Local Jurisdiction: Montgomery County, Pulaski County

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number**

Short Description

US 11 Corridor ITS and Signal Improvement from Christiansburg to Dublin, Multi-jurisdictional

District **Local Jurisdiction**

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

2040 CoSS Segment B2 Need S, 2025 Roanoke Regional Need B

Project Status:

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Installation of enhanced traffic signal system and ITS equipment along US 11 from Exit 118C to the Rte. 11 interchange with Rte. 100 (Cleburne Blvd.) to increase reliability and decrease congestion. This would allow for better operational efficiency of the corridor and emergency management during incidents on I-81. Technologies could be incorporated with an ATMS system along I-81 for increase incident management and operational efficiency.

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other:

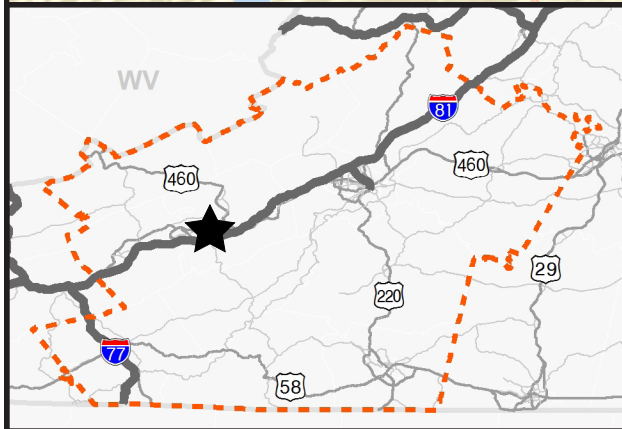
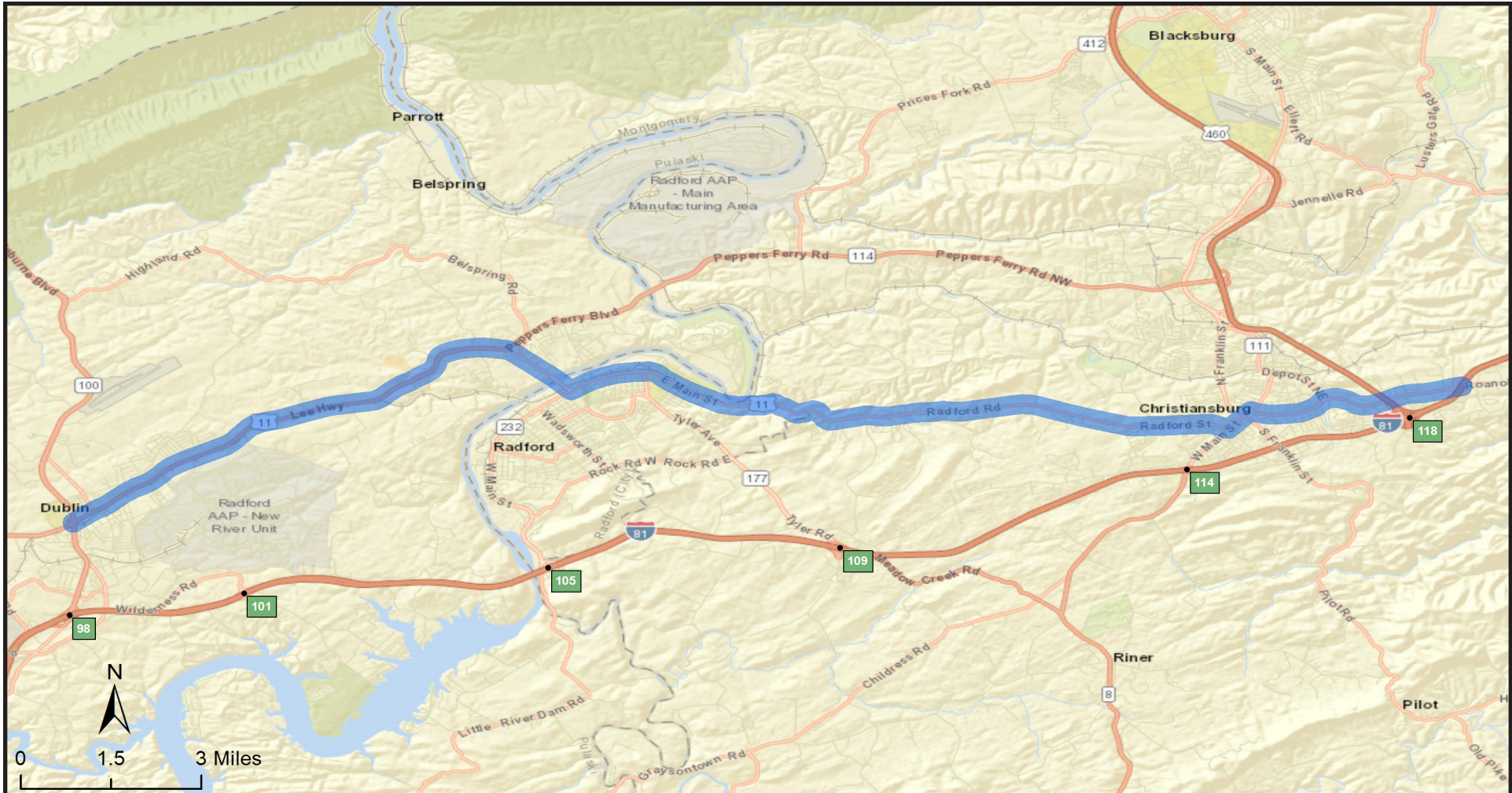
Estimated Project Cost (in \$M) Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Reduction in congestion reduces crashes and increases safety
Congestion Mitigation	Congestion reduction from increased responsiveness of signals and ops staff
Accessibility	Accessibility increase from decrease in congestion and increase in reliability
Land Use	Increased safety and reliability would promote in-fill of adjacent mixed-use properties
Environment	Reduction in congestion results in reduced delay and environmental impacts
Economic Development	Increase in reliability of the corridor will be beneficial for economic development



Project Reference Number: SA22
 Short Project Description: US 11 Corridor ITS and Signal Improvement from Christiansburg to Dublin
 VDOT District: Salem
 Local Jurisdiction: Montgomery County, Radford County, Pulaski County

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number**

Short Description

District **Local Jurisdiction**

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Project Status:

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Develop a Park and Ride at Rte. 8 (Riner Rd.) of up to 200 spaces to promote modal choice and accessibility.

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other:

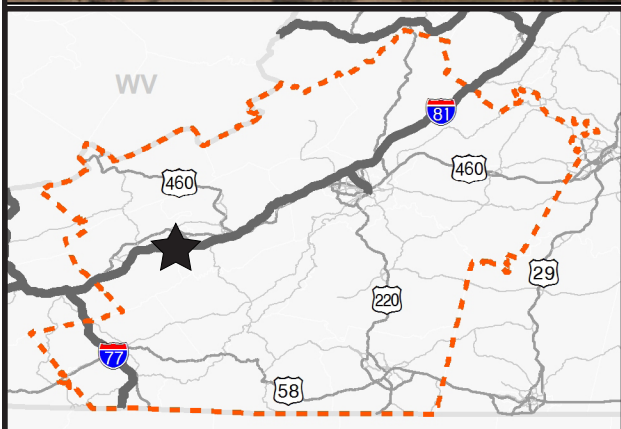
Estimated Project Cost (in \$M) Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Project does not improve safety
Congestion Mitigation	Decrease in VMT
Accessibility	Improves accessibility with the increase in mode choice
Land Use	No anticipated support for in-fill adjacent to project
Environment	Reduced environmental impact from reduction in VMT
Economic Development	Reduction in VMT increases reliability



Project Reference Number: SA23
 Short Project Description: Rte. 8 (Riner Rd.) Park and Ride near I-81 (Exit 114)

VDOT District: Salem
 Local Jurisdiction: Montgomery County

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details

Project Reference Number

SA24

Short Description

Pepper's Ferry Road and N. Franklin St. Connector in the Town of Christiansburg, Montgomery County

District

Salem

Local Jurisdiction

Montgomery County

VMTP Need Type (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Regional Network Need B

Project Status:

Smart Scale Round 2 application

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

New 1.4-mile highway construction of a posted 35-mph 4-lane 40-mph design, divided controlled access connector between U.S. Route 460 (N. Franklin Street) and Virginia Route 114 (Peppers Ferry Road). Construction will be two lanes with the exception of the first 1800 feet south of Peppers Ferry Road, N.W. and the first 700 feet west of N. Franklin Street being four lane. The connection to Cambria Street and Providence Boulevard will be accomplished by the use of a roundabout. (SMART SCALE, Phase 2 Application 1492)

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other: _____

Estimated Project Cost (in \$M)

\$ 24.00

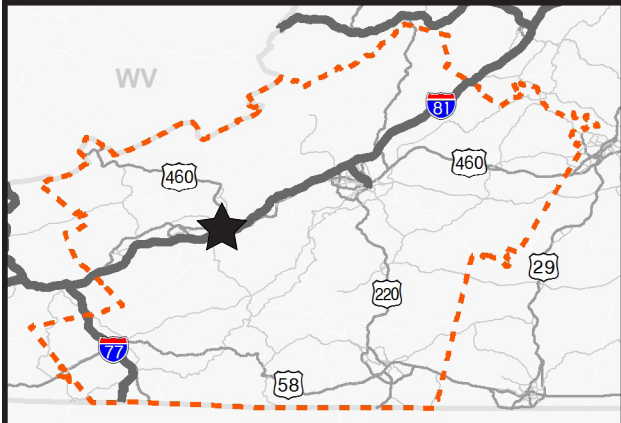
Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Improve safety
Congestion Mitigation	Alternative route for US 460 and ease congestion on that route
Accessibility	None
Land Use	None
Environment	None
Economic Development	None



Project Reference Number: SA24
Short Project Description: Pepper's Ferry Road and N. Franklin St. Connector in the Town of Christiansburg

VDOT District: Salem
Local Jurisdictions: Montgomery County

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details

Project Reference Number

SA25

Short Description

Prices Fork/ Peppers Ferry Intersection, Montgomery County

District

Salem

Local Jurisdiction

Montgomery County

VMTP Need Type (Place X in all applicable boxes)

Corridor of Statewide Significance
 Regional Network
 UDAs
 Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Regional Need B & C, Top 100 Crash Intersection

Project Status:

Smart Scale Round 2 application

Recommendation Features

Type (Place X in all applicable boxes)

Highway
 Bike/Pedestrian
 Bus Transit
 Rail Transit
 Freight Rail
 Travel Demand Management

Detailed Description of Improvements

Increase EB Route 114 left turn lane from 100' storage to 300' and incorporate 200' taper with pavement widening; Increase EB Route 114 right turn taper to 200' with shoulder improvements; Construct SB Route 685 right turn lane of 200' and connect to an existing 125' taper; Construct 125' right turn lane and 200' taper on WB Route 114 including guard rail relocation and storm structure extension; Install pedestrian improvements along northern edge of Route 114 from Intersection to existing sidewalk facility located east of intersection; Incorporate improved traffic signalization and pedestrian signals to efficiently transport vehicles and pedestrians through the intersection. (SMART SCALE, Phase 2 Application 1511)

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE
 TAP
 CMAQ
 HSIP
 Prescoping
 Other:

Estimated Project Cost (in \$M)

\$ 3.99

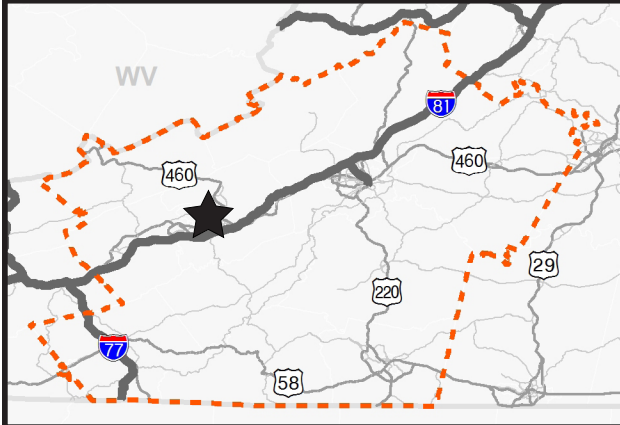
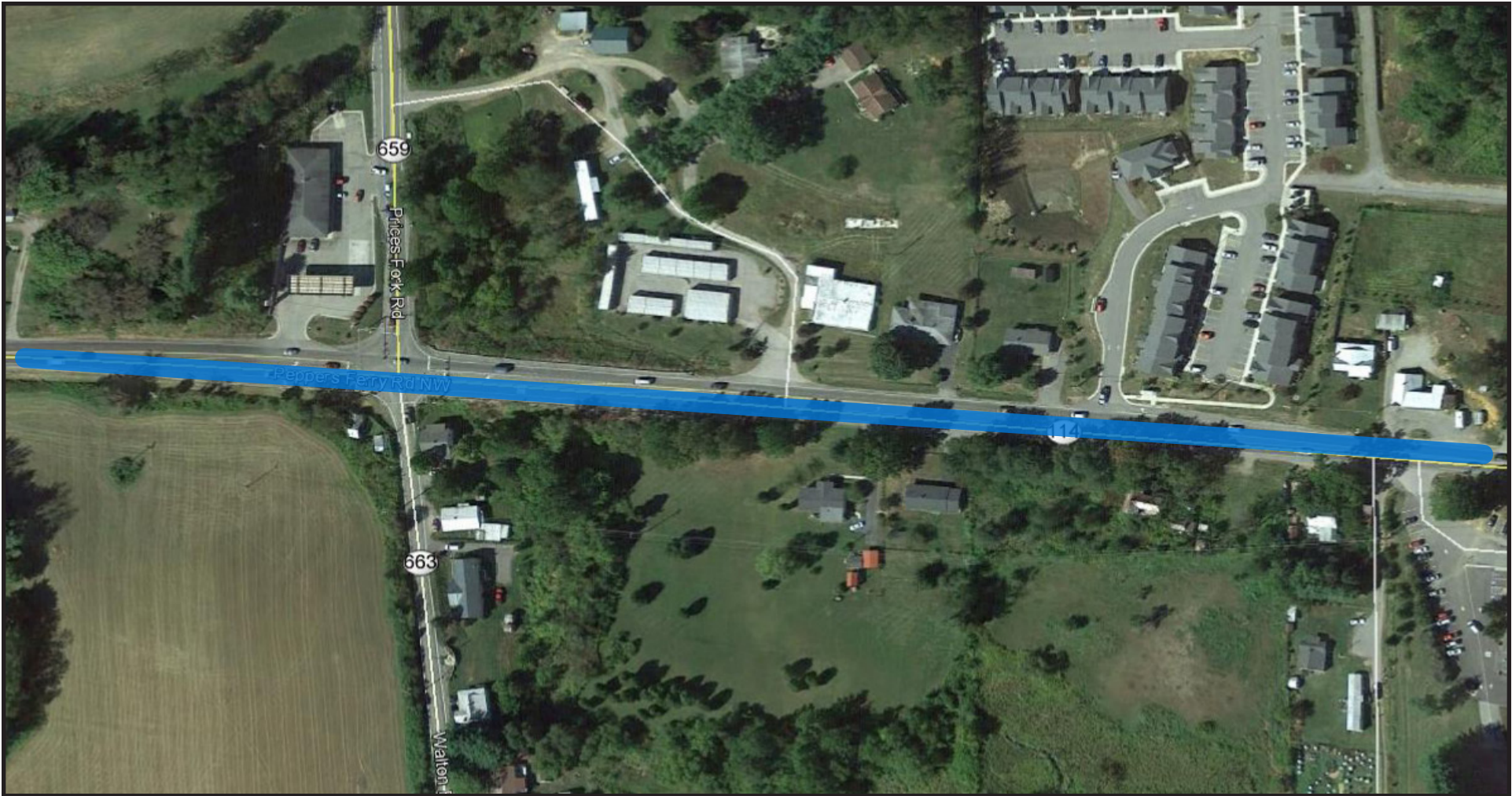
Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Proposed changes will mitigate current crash problem
Congestion Mitigation	Congestion mitigation from increased operation efficiency of traffic signal
Accessibility	Planned sidewalk, pedestrian signals and crosswalk will improve accessibility
Land Use	No benefit for current land use is anticipated
Environment	Environmental benefits from ped improvements
Economic Development	Project supports access to site development adjacent to the project



Project Reference Number: SA25
Short Project Prices Fork/Peppers Ferry Intersection

VDOT District: Salem
Local Jurisdiction: Montgomery County

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number**

Short Description

District **Local Jurisdiction**

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Project Status:

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Study potential bicycle, pedestrian and / or road diet improvements along Peppers Ferry Road in Montgomery County from the Rte. 460 interchange to Rolling Hills Dr to improve accessibility and pedestrian safety.

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other:

Estimated Project Cost (in \$M) Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Increased safety from enhanced pedestrian accommodations
Congestion Mitigation	Reduction in congestion from increase in modal choice
Accessibility	Increases accessibility in the area by providing improved bike/ped accommodations
Land Use	Increase in accessibility will promote in-fill of adjacent mixed-use development
Environment	Reduced environmental impact from reduction in VMT
Economic Development	Supports economic development with increase in multimodal access

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details

Project Reference Number

SA27

Short Description

Feasibility study of passenger rail from Roanoke to Blacksburg, Multi-jurisdictional

District

Salem

Local Jurisdiction

Multiple

VMTP Need Type (Place X in all applicable boxes)

Corridor of Statewide Significance
 Regional Network
 UDAs
 Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Roanoke Regional Network Need D, New River Valley Regional Network Need E

Project Status:

Initiation recently within a Transit Development Plan, VDOT, DRPT, transit provider, MPO, PDC, or other local planning document

Recommendation Features

Type (Place X in all applicable boxes)

Highway
 Bike/Pedestrian
 Bus Transit
 Rail Transit
 Freight Rail
 Travel Demand Management

Detailed Description of Improvements

Initiate a study to determine whether passenger rail should be extended from Roanoke to Blacksburg.

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE
 TAP
 CMAQ
 HSIP
 Prescoping
 Other: On-Call Contract

Estimated Project Cost (in \$M)

TBD

Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	NA
Congestion Mitigation	NA
Accessibility	NA
Land Use	NA
Environment	NA
Economic Development	NA

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number** SA28

Short Description

Study intercity bus service serving cities along the I-81 corridor within Salem District, Multi-jurisdictional

District Salem **Local Jurisdiction** Multiple

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

CoSS Needs 32, 35, 38, 49, 58; Raonke Regional Network Need D; Lynchburg Regional Network Need G; UDAs 5, 42

Project Status: New, unique recommendation

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Study the possibility of additional intercity bus service within the I-81 corridor in the Salem District to determine additional areas that would benefit from an increase in accessibility and modal choice. Currently there is an intercity bus between Roanoke/Salem and Blacksburg/Christiansburg. (Map is not available for studies)

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other: On-Call Contract

Estimated Project Cost (in \$M) TBD

Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

	Comments
Safety	NA
Congestion Mitigation	NA
Accessibility	NA
Land Use	NA
Environment	NA
Economic Development	NA

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number**

Short Description

Access management improvements on US 460/US 11 west of the City of Roanoke to Christiansburg, Multi-jurisdictional

District **Local Jurisdiction**

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

CoSS Needs 28, 29, 30, 31, 35, 36, 43, 44, 45, 48, 60; Roanoke Regional Network Need B; New River Valley Regional Network Need A; UDAS 55, 97

Project Status:

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Establish and implement an access management strategy on US 460/US 11, parallel to I-81, to preserve and improve the capacity of the corridor and better handle additional traffic during incidents on I-81.

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other:

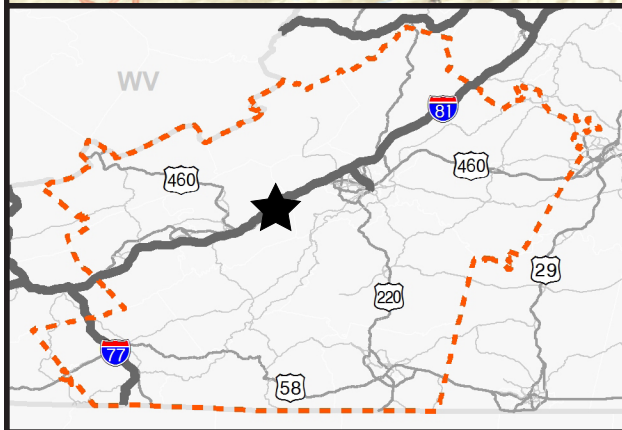
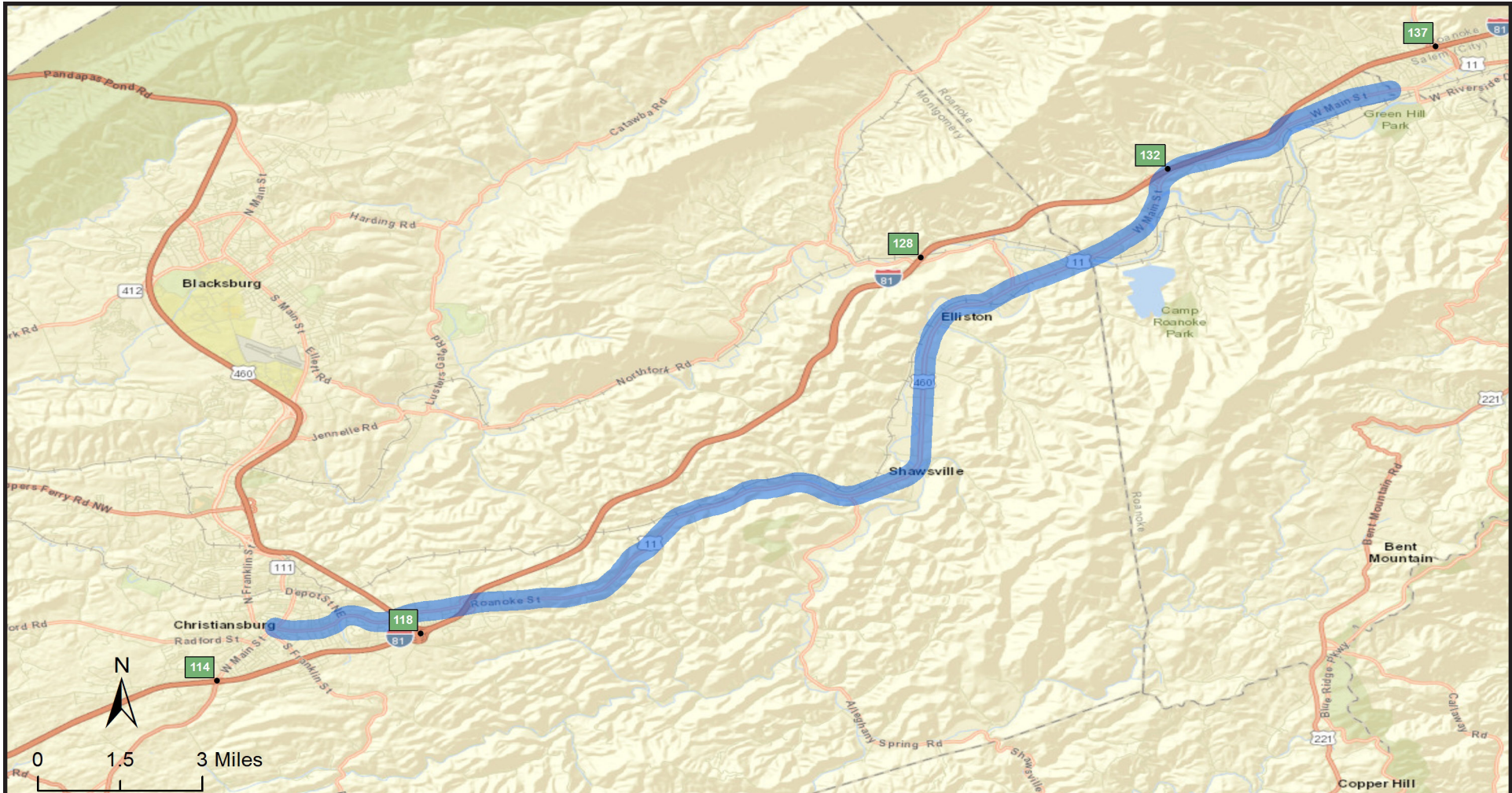
Estimated Project Cost (in \$M) Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Reduction in conflict locations and crashes increases reliability and reduces congestion
Congestion Mitigation	Reduction in congestion from increased reliability
Accessibility	Accessibility increase from decrease in congestion and increase in reliability
Land Use	Increased safety and reliability would promote in-fill of adjacent mixed-use properties
Environment	Reduction in congestion results in reduced delay and environmental impacts
Economic Development	Increase in reliability will be beneficial for economic development



Project Reference Number: SA29
 Short Project Description: Access management improvements on US 460/US 11 west of the City of Roanoke to Christiansburg

VDOT District: Salem
 Local Jurisdictions: Roanoke County, Montgomery County, Town of Christiansburg

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number**

Short Description

Second Amtrak Service from Lynchburg to Roanoke, Multi-jurisdictional

District **Local Jurisdiction**

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance
 Regional Network
 UDAs
 Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Regional Network Need E

Project Status:

Recommendation Features

Type (Place X in all applicable boxes)

Highway
 Bike/Pedestrian
 Bus Transit
 Rail Transit
 Freight Rail
 Travel Demand Management

Detailed Description of Improvements

Include a second Amtrak train from Lynchburg to Roanoke to improve accesibility.

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE
 TAP
 CMAQ
 HSIP
 Prescoping
 Other:

Estimated Project Cost (in \$M)

Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

	Comments
Safety	NA
Congestion Mitigation	NA
Accessibility	NA
Land Use	NA
Environment	NA
Economic Development	NA

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details

Project Reference Number

SA31

Short Description

I-81 Exit 150 Park and Ride Improvement and Expansion, Botetourt County

District

Salem

Local Jurisdiction

Botetourt County

VMTP Need Type (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

2040 CoSS Segment B2 Need M

Project Status:

Smart Scale Round 2 application

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

The purpose of this project is to replace, expand and provide greater safety and accessibility than the existing 30 space park and ride located along Route 816. The proposed 182 space new facility will be located adjacent to the commercial development known as Botetourt Commons. The proposed Park and Ride will improve TDM strategies with the I-81 corridor. (SMART SCALE, Phase 2 Application 129)

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other: _____

Estimated Project Cost (in \$M)

\$ 7.50

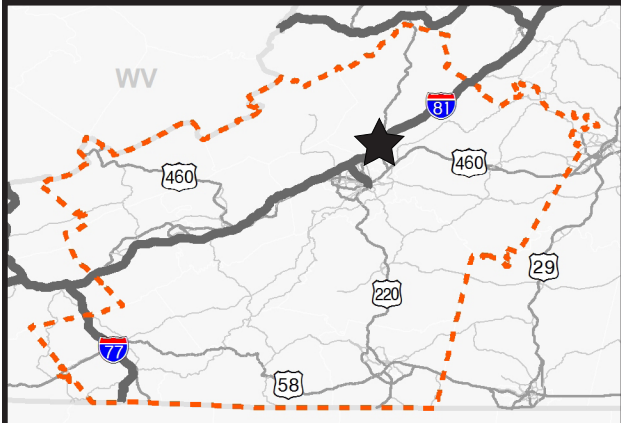
Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Project does not improve safety
Congestion Mitigation	Decrease in VMT
Accessibility	Improves accessibility with the increase in mode choice
Land Use	Increase in modal choice and reduction of VMT
Environment	Reduced environmental impact from reduction in VMT
Economic Development	Reduction in VMT increases reliability



Project Reference Number: SA31
Short Project Description: I-81 Exit 150 Park and Ride Improvement and Expansion

VDOT District: Salem
Local Jurisdiction: Botetourt County

VTrans2040 Multimodal Transportation Plan (VMTP) 2025 Tier 1 Recommendation Profile Based on Analysis of VMTP Needs Assessments

Recommendation Details

Project Reference Number

SA32

Short Description

Route 11 Traffic Improvements Project, Pulaski County

District

Salem

Local Jurisdiction

Pulaski County

VMTP Need Type (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

2025 New River Valley Needs B, D and H, 2 of the Top 100 Crash Intersections

Project Status:

Smart Scale Round 2 application

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

This project includes the extension of left turn taper and construction of a 2nd left turn lane from Route 11 to 114, provide signal and pedestrian improvements, construct a sidewalk, construct/reconstruct curb and gutter, milling and overlay for pavement curb transition, install a right turn lane and taper, perform access management entrance reconstruction for this road segment and improved traffic signalization and pedestrian signals at the intersection at 11/114. The proposed improvements will improve safety, mitigate congestion and accommodate pedestrians. Access management improvements will also mitigate potential rear end and angle crashes. (SMART SCALE Phase 2 Application 1157)

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other: _____

Estimated Project Cost (in \$M)

\$ 4.49

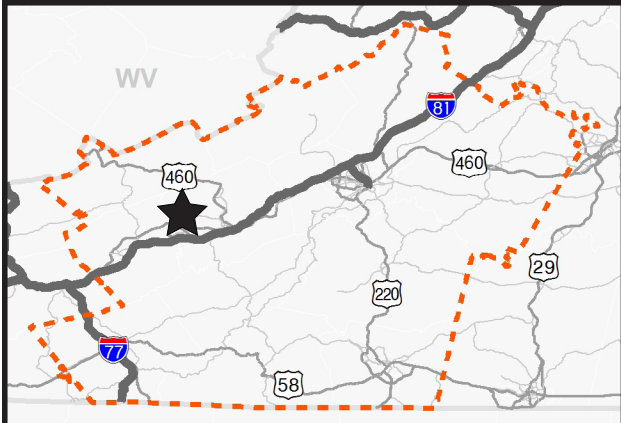
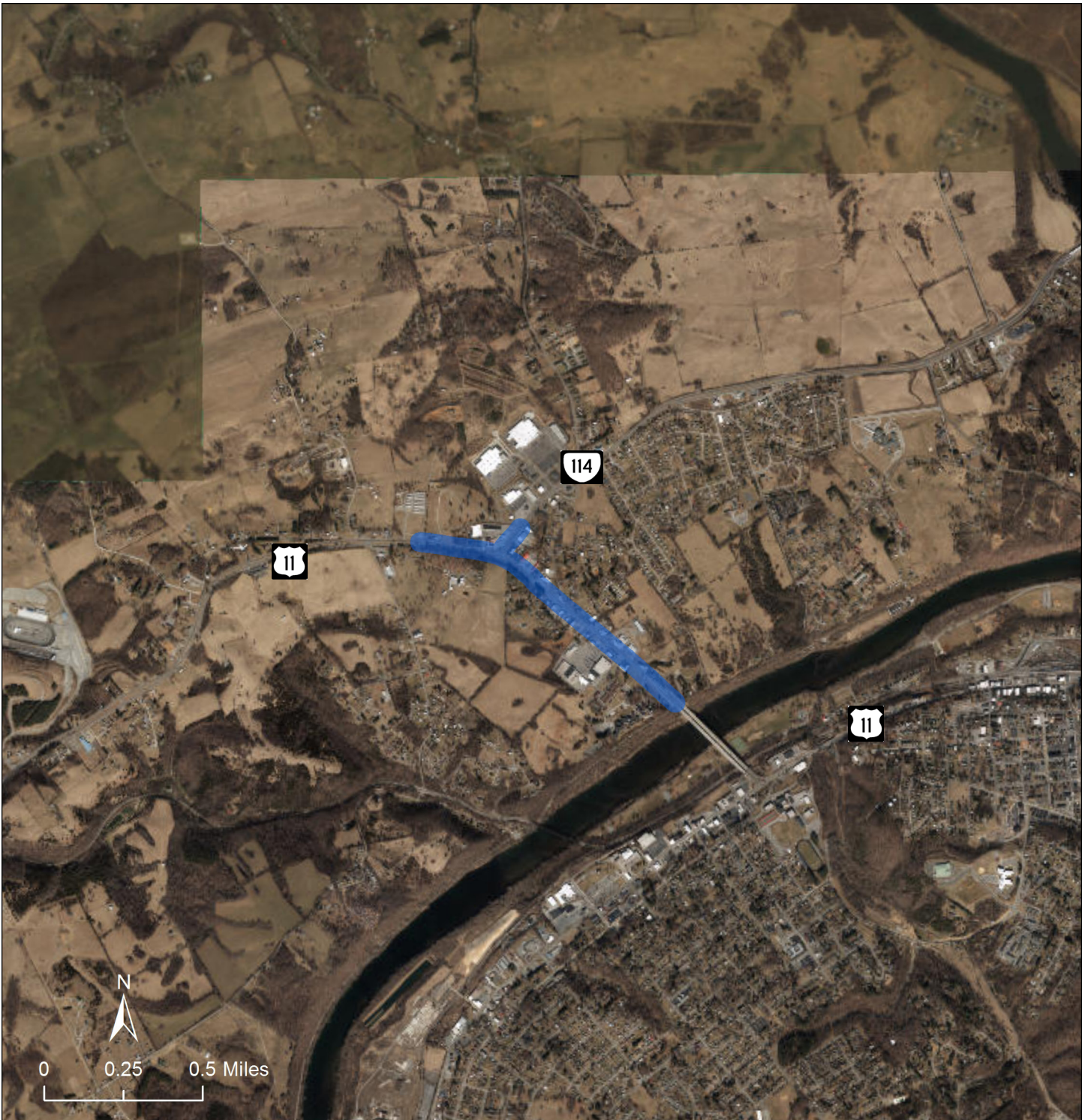
Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Increased storage space and signal optimization will promote a reduction in crashes
Congestion Mitigation	Congestion mitigation from increased operation efficiency of intersection
Accessibility	Project reduces delay on Rte. 11 for transit providers and ped improvements will increase accessibility
Land Use	Improved access management will promote mixed use development and in-fill of adjacent properties
Environment	Environmental benefits from improved pedestrian facilities and reduced vehicle delay
Economic Development	Project provides primary access to development sites



Project Reference Number: SA32
Short Project Description: Route 11 Traffic Improvement Project
VDOT District: Salem
Local Jurisdictions: Pulaski County

VTrans2040 Multimodal Transportation Plan (VMTP) 2025 Tier 1 Recommendation Profile Based on Analysis of VMTP Needs Assessments

Recommendation Details

Project Reference Number

SA33

Short Description

North Franklin Street - Depot Street Intersection Upgrade, Montgomery County

District

Salem

Local Jurisdiction

Montgomery County

VMTP Need Type (Place X in all applicable boxes)

Corridor of Statewide Significance
 Regional Network
 UDAs
 Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

2025 New River Valley Needs C and F

Project Status:

Smart Scale Round 2 application

Recommendation Features

Type (Place X in all applicable boxes)

Highway
 Bike/Pedestrian
 Bus Transit
 Rail Transit
 Freight Rail
 Travel Demand Management

Detailed Description of Improvements

Intersection upgrade at N. Franklin Street and Depot Street to add dedicated left turn lanes for northbound and southbound N. Franklin Street traffic as well as provide sidewalks for pedestrian accommodation. (SMART SCALE Phase 2 Application 1461)

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE
 TAP
 CMAQ
 HSIP
 Prescoping
 Other: _____

Estimated Project Cost (in \$M)

\$ 2.89

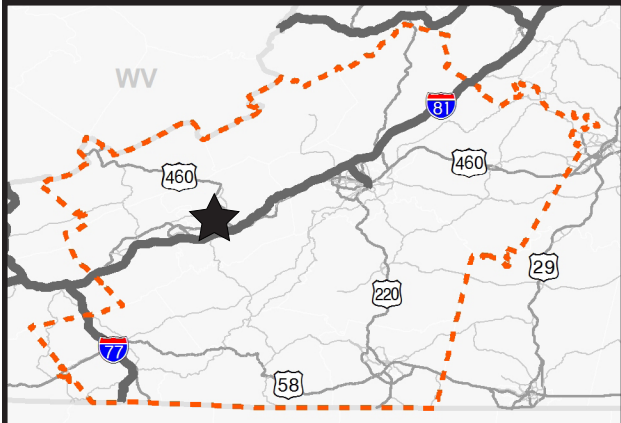
Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Increased storage space and signal optimization will promote a reduction in crashes
Congestion Mitigation	Congestion mitigation from increased operation efficiency of intersection
Accessibility	Improved pedestrian facilities will promote better accessibility
Land Use	Improved access management will promote mixed use development and in-fill of properties near the project
Environment	Environmental benefits from improved pedestrian facilities and reduced vehicle delay
Economic Development	Project provides primary access to development sites and enhances access to sites near the project



Project Reference Number: SA33
 Short Project Description: North Franklin Street - Depot Street Intersection Upgrade
 VDOT District: Salem
 Local Jurisdictions: Montgomery County

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number**

Short Description

District **Local Jurisdiction**

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Project Status:

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other:

Estimated Project Cost (in \$M) Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

	Comments
Safety	NA
Congestion Mitigation	NA
Accessibility	NA
Land Use	NA
Environment	NA
Economic Development	NA

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number**

Short Description

Rte. 220 Safety and Corridor Improvements in Franklin and Roanoke Counties, Multi-jurisdictional

District **Local Jurisdiction**

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

2040 CoSS Segment F1 Needs B, C, H, 2025 Roanoke Regional Need D, UDA 96 & 124

Project Status:

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Safety and Corridor Improvements on Route 220 in Franklin and Roanoke Counties (approximately 34 miles). Improve sweeping turns and narrow shoulder to improvement truck traffic. Correct safety issues at between Goose Dam Rd. and Henry Rd. and between Iron Ridge Rd. and Wooddale Dr. in Franklin County. Review and improve or consolidate crossovers. Improve drainage in problematic areas.

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other:

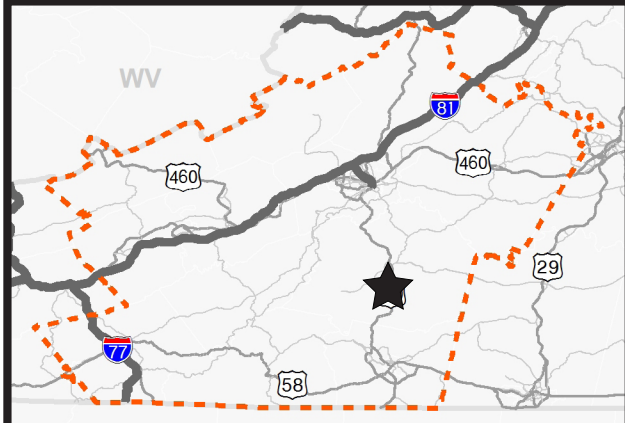
Estimated Project Cost (in \$M) Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Project components will improve safety and reduce severe crashes
Congestion Mitigation	Increase in safety would reduce the number of hours of delay along the corridor
Accessibility	Accessibility increase from decrease in congestion and increase in reliability
Land Use	No anticipated support for in-fill adjacent to project
Environment	Project does not have an environmental benefit
Economic Development	Project does not have an economic development benefit



Project Reference Number: SA35
 Short Project Description: Rte. 220 Safety and Corridor
 Improvements in Franklin and Roanoke Counties

VDOT District: Salem
 Local Jurisdiction: Franklin County, Roanoke County

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number**

Short Description

Rte 220 Access Management and Corridor Improvement Strategies in Henry, Franklin and Roanoke Counties, Multi-jurisdictional

District **Local Jurisdiction**

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

2040 CoSS Segment F1 Needs G, J & K, Regional Network Need D

Project Status:

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Develop and implement access management projects along US 220 in from the Roanoke City/Roanoke County line to the Henry County / North Carolina line (approximately 47 miles). This is in order to improve safety and maintain the capacity and reliability of the corridor. (Map is not available for strategies)

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other:

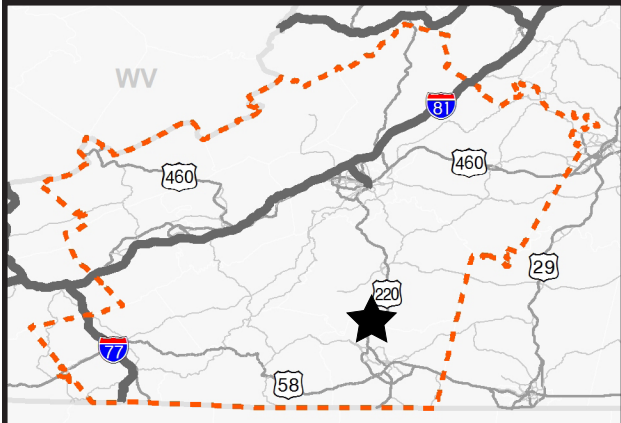
Estimated Project Cost (in \$M) Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Reduction in conflict locations and crashes increases reliability and reduces congestion
Congestion Mitigation	Reduction in congestion from increased reliability
Accessibility	Accessibility increase from decrease in congestion and increase in reliability
Land Use	Increased safety and reliability would promote in-fill of adjacent mixed-use properties
Environment	Reduction in congestion results in reduced delay and environmental impacts
Economic Development	Increase in reliability will be beneficial for economic development



Project Reference Number: SA36
 Short Project Description: Rte. 220 Access Management and Corridor Improvement Strategies in Henry, Franklin and Roanoke Counties

VDOT District: Salem
 Local Jurisdictions: Henry County, Franklin County, Roanoke County

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number**

Short Description

Regional Greenway Continual Development and Improvements, Multi-jurisdictional

District **Local Jurisdiction**

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance
 Regional Network
 UDAs
 Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Regional Network Need A

Project Status:

Recommendation Features

Type (Place X in all applicable boxes)

Highway
 Bike/Pedestrian
 Bus Transit
 Rail Transit
 Freight Rail
 Travel Demand Management

Detailed Description of Improvements

Continue developing and improving the regional greenways in the Salem District. This includes connecting greenways, multimodal improvements, extending greenways and construction of new greenways. (Map is not available for strategies)

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE
 TAP
 CMAQ
 HSIP
 Prescoping
 Other:

Estimated Project Cost (in \$M)

Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Project does not improve safety
Congestion Mitigation	Decrease in VMT
Accessibility	Improves accessibility with the increase in mode choice
Land Use	No anticipated support for in-fill adjacent to project
Environment	Reduced environmental impact from reduction in VMT
Economic Development	Reduction in VMT increases reliability

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details

Project Reference Number

SA38

Short Description

Improvements to intersections, transit, turn movements, and streetscape in Downtown Salem, City of Salem

District

Salem

Local Jurisdiction

Salem City

VMTP Need Type (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

gement B2 Needs S & AA and E2 Needs M & X, Regional Needs A,B,C, E, & F, UDAs 55 and 113, 2 Top 100 Crash Int. and 1 Top 100

Project Status:

Smart Scale Round 2 application

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Add new left turn lanes, transit improvements, pedestrian improvements, and streetscape improvements to various streets in the City of Salem. The project includes a new left turn lanes and traffic signal at Market St. to help eliminate congestion and improve safety on Main St. (11/460); sidewalks will be widened by installing large bump outs on both sides of Main St.; 3) Crosswalks at all roadway ped crossings to include additional landscaping, improved lighting for nighttime safety, ADA ramps, audible and countdown signals, more visible crosswalk striping; 4) A Downtown Salem Bus Transfer Station; 5) two publicly available electric vehicle charging stations; and 6) Other amenities, such as decorative street/sidewalk lighting, landscaping, and street furniture. (SMART SCALE Phase 2 Application 1341)

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other: _____

Estimated Project Cost (in \$M)

\$ 3.63

Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Increased safety from intersection and pedestrian improvements
Congestion Mitigation	Congestion mitigation resulting from pedestrian and transit improvements
Accessibility	Increased accessibility from transit bike and ped improvements
Land Use	Project supports mixed-use development and in-fill
Environment	Environmental benefits from improved transit and pedestrian facilities
Economic Development	Enhances access near the project but is not adjacent to the project

VTrans2040 Multimodal Transportation Plan (VMTP)

2025 Tier 1 Recommendation Profile

Based on Analysis of VMTP Needs Assessments

Recommendation Details **Project Reference Number**

Short Description

District **Local Jurisdiction**

SMART SCALE Needs Categories (Place X in all applicable boxes)

Corridor of Statewide Significance Regional Network UDAs Safety

Needs Addressed from VMTP Needs Assessment (List needs as numbered in reports)

Project Status:

Recommendation Features

Type (Place X in all applicable boxes)

Highway Bike/Pedestrian Bus Transit Rail Transit Freight Rail Travel Demand Management

Detailed Description of Improvements

Study a potential pedestrian crossings and trail head parking for the Appalachian Trail in Botetourt and Craig Counties. Special attention should be paid to a pedestrian crossing at US 311 in Craig County and trail head parking near exit 150 on I-81 in Botetourt County.

Potential Funding Sources

(Place X in all applicable boxes)

SMART SCALE TAP CMAQ HSIP Prescoping Other:

Estimated Project Cost (in \$M) Right of Way Required for Project

If Applicable: Smart Scale Project Feasibility

Based on Qualitative Review of Project

Comments

Safety	Increased safety from enhanced pedestrian accommodations
Congestion Mitigation	No anticipated reduction in congestion from this project
Accessibility	Increases accesibility in the area by providing improved ped accomodations
Land Use	o increase in in-fill of adjacent mixed-use development anticipated based on this project
Environment	No anticipated environmental benefits from this project
Economic Development	No anticipated support in economic development from this project

