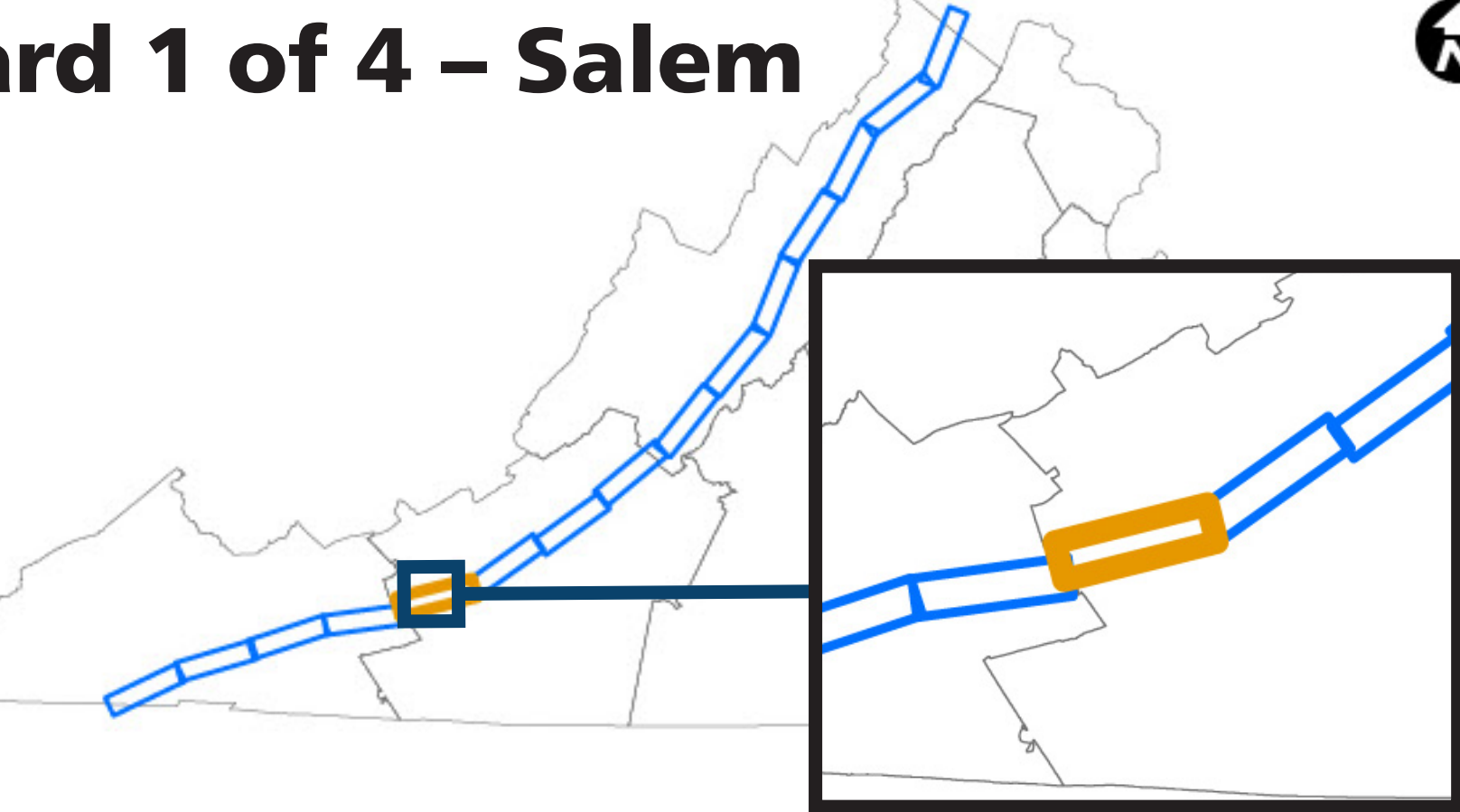


# IMPROVE 81

### Project Location

Board 1 of 4 – Salem



### Scale

Miles: 0, 0.75, 1.5  
US Feet: 0, 1,500, 3,000, 6,000, 9,000

### Legend

#### LEGEND: Existing Conditions

**PERFORMANCE MEASURES BY DIRECTION**

- Existing Widening Projects
- Crash Severity
- Crash Frequency
- Person-Hours of Delay
- Person-Hours of Incident Delay (lane closure > 1 hr)

**PUBLIC COMMENTS**  
(Summarized by Mile in Each Direction)

- Safety**  
Crashes, speeding, and aggressive driving
- Truck Operations**  
Parking, heavy truck volumes
- Congestion**  
Delays, queues (including ramps), difficulty merging and weaving
- Other**  
Grades, curves, narrow shoulders, pavement marking, signing, and other

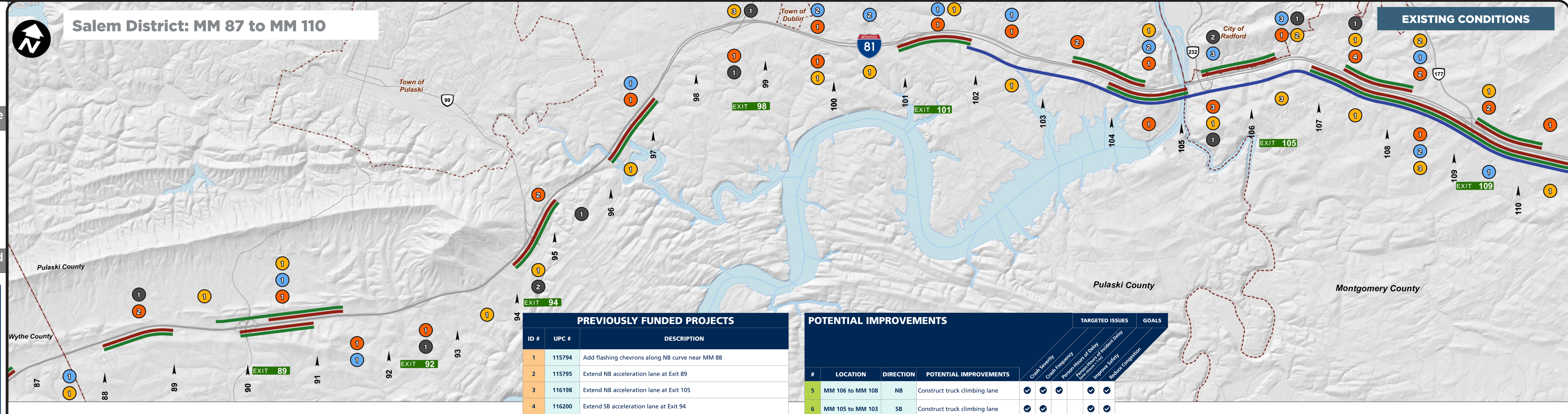
# Indicates number of comments identified by the public in Round 1 of engagement

#### LEGEND: Potential Improvements

- +1 Widening
- Auxiliary Lane
- Acceleration/Deceleration Extension
- Realignment
- Curve Improvements
- Truck Climbing Lane

**Reference**  
Mile Marker (MM)

### Salem District: MM 87 to MM 110




#### PREVIOUSLY FUNDED PROJECTS

ID #	UPC #	DESCRIPTION
1	115794	Add flashing chevrons along NB curve near MM 88
2	115795	Extend NB acceleration lane at Exit 89
3	116198	Extend NB acceleration lane at Exit 105
4	116200	Extend SB acceleration lane at Exit 94


#### POTENTIAL IMPROVEMENTS

#	LOCATION	DIRECTION	POTENTIAL IMPROVEMENTS	Crash Severity	Crash Frequency	Person-Hours of Delay	Person-Hours of Incident Delay	Improve Safety	Reduce Congestion
5	MM 106 to MM 108	NB	Construct truck climbing lane	✓	✓	✓	✓	✓	✓
6	MM 105 to MM 103	SB	Construct truck climbing lane	✓	✓			✓	✓

### POTENTIAL IMPROVEMENTS



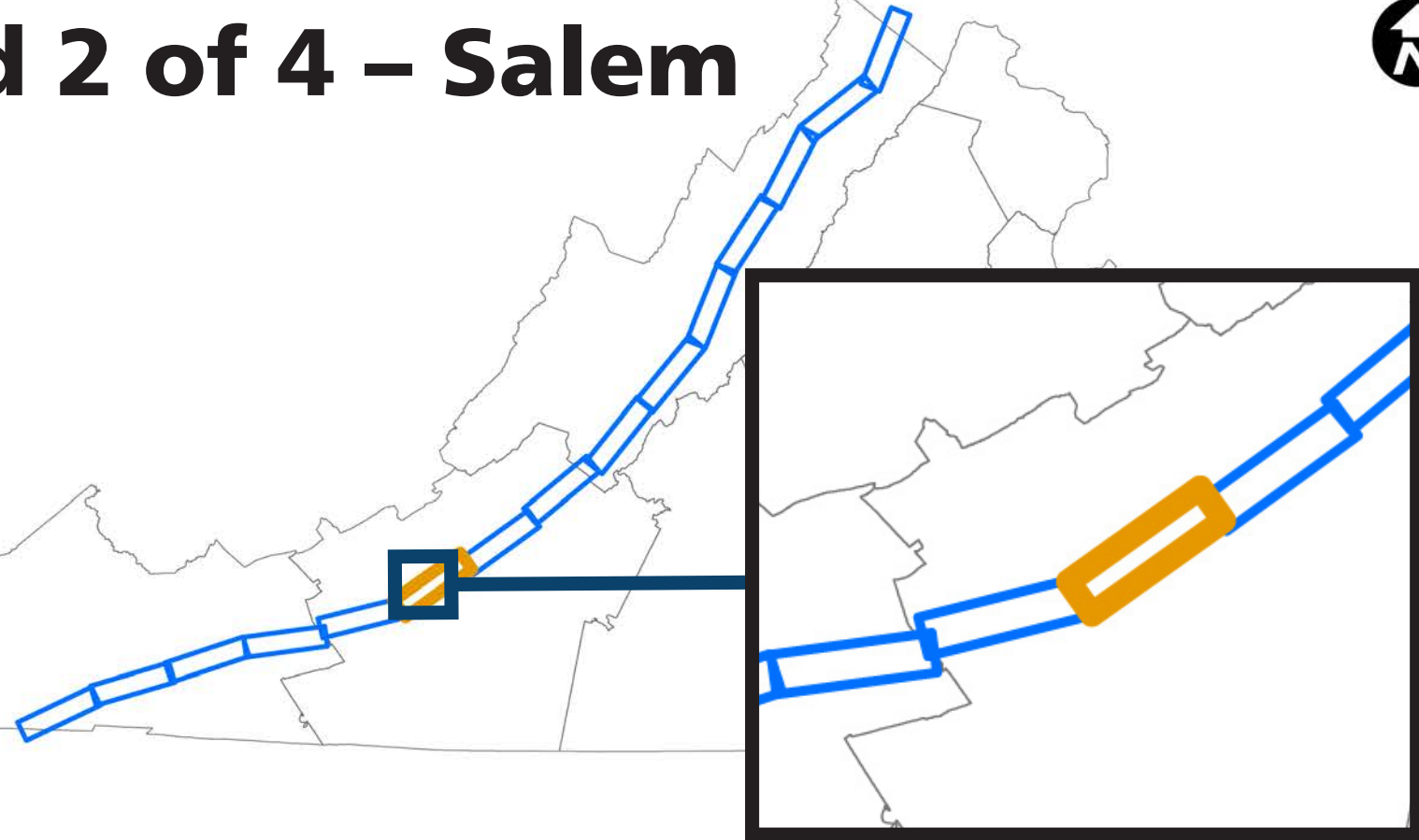
Data Sources: Virginia Department of Transportation 2019, Virginia Geographic Information Network 2019, Airbus, USGS, NOAA, NASA, NOAA, CGIAR, GEBCO, NCEAS, NLS, OS, NMA, Geodatastyrelsen, GSA, GSI and the GIS User Community, Virginia Geographic



IMPROVE **81**

Project Location

Board 2 of 4 – Salem



Scale

Miles

0 0.75 1.5

US Feet

0 1,500 3,000 6,000 9,000

Legend

LEGEND: Existing Conditions

PERFORMANCE MEASURES BY DIRECTION

Existing Widening Projects

Crash Severity

Crash Frequency

Person-Hours of Delay

Person-Hours of Incident Delay (lane closure > 1 hr)

EXAMPLES OF PUBLIC COMMENTS

3

3 comments indicated safety issues in this segment.

4

4 comments indicated congestion issues in this segment.

5

5 comments indicated truck operations issues in this segment.

3

3 comments indicated other issues in this segment.

PUBLIC COMMENTS (Summarized by Mile in Each Direction)

Safety

Crashes, speeding, and aggressive driving

Truck Operations

Parking, heavy truck volumes

Congestion

Delays, queues (including ramps), difficulty merging and weaving

Other

Grades, curves, narrow shoulders, pavement marking, signing, and other

#

Indicates number of comments identified by the public in Round 1 of engagement

LEGEND: Potential Improvements

+1 Widening

Auxiliary Lane

Potential Improvement

Acceleration/Deceleration Extension

Realignment

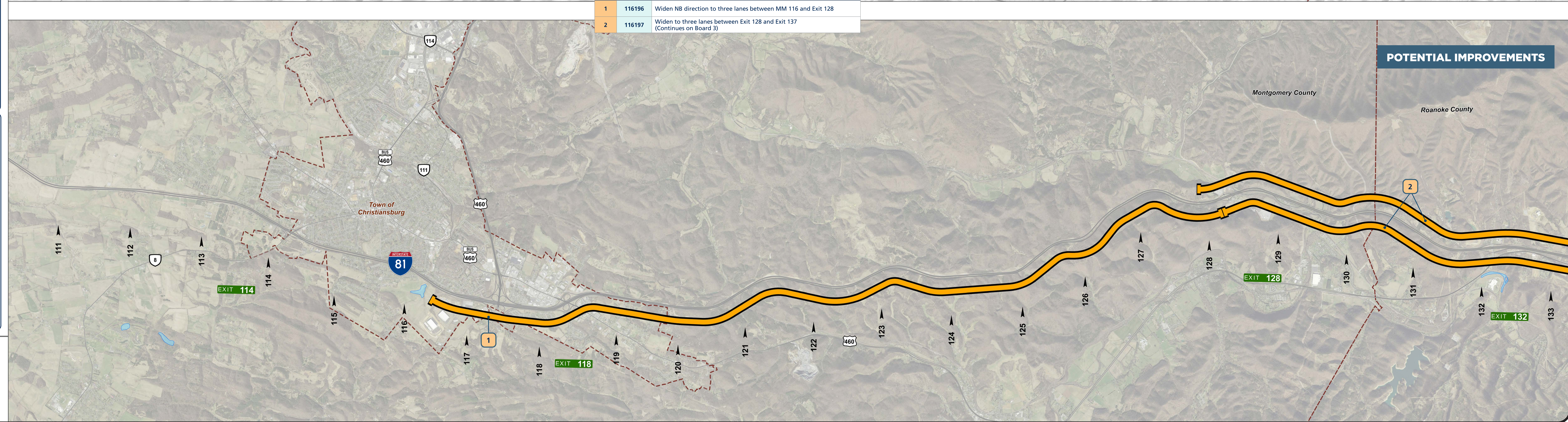
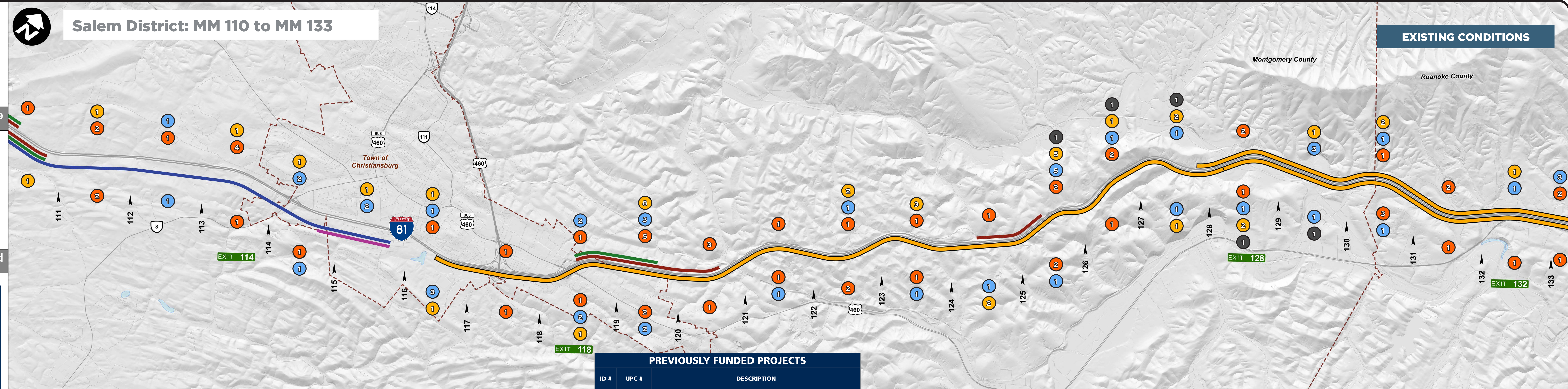
Previously Funded I-81 Corridor Improvement Program Project


Curve Improvements

Truck Climbing Lane

Reference

Mile Marker (MM)

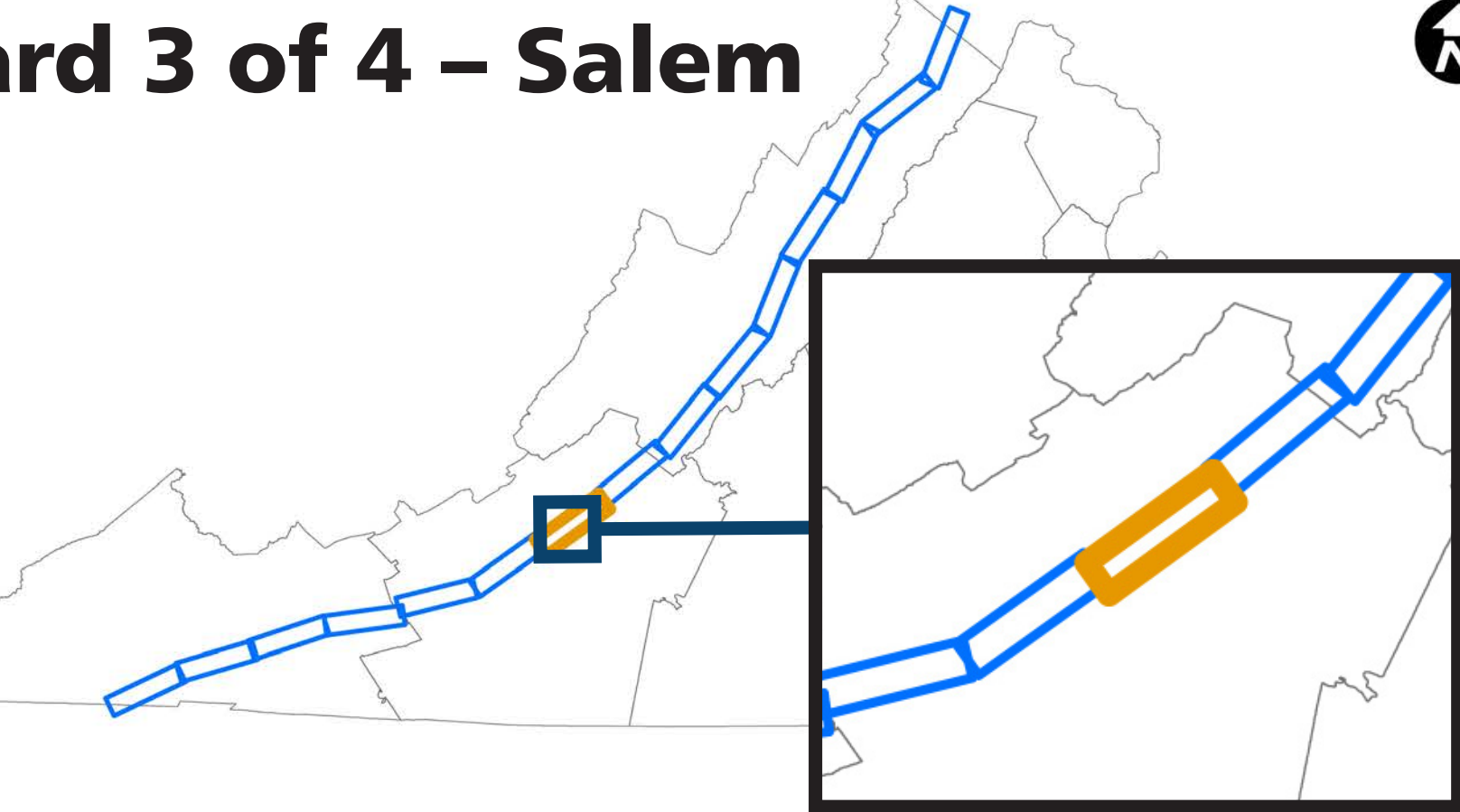




# IMPROVE 81

### Project Location

Board 3 of 4 – Salem



### Scale

Miles: 0, 0.75, 1.5  
US Feet: 0, 1,500, 3,000, 6,000, 9,000

### LEGEND: Existing Conditions

**PERFORMANCE MEASURES BY DIRECTION**

- Existing Widening Projects
- Crash Severity
- Crash Frequency
- Person-Hours of Delay
- Person-Hours of Incident Delay (lane closure > 1 hr)

**PUBLIC COMMENTS**  
(Summarized by Mile in Each Direction)

- Safety**  
Crashes, speeding, and aggressive driving
- Truck Operations**  
Parking, heavy truck volumes
- Congestion**  
Delays, queues (including ramps), difficulty merging and weaving
- Other**  
Grades, curves, narrow shoulders, pavement marking, signing, and other

# Indicates number of comments identified by the public in Round 1 of engagement

### EXAMPLES OF PUBLIC COMMENTS

- 3 comments indicated safety issues in this segment.
- 4 comments indicated congestion issues in this segment.
- 5 comments indicated truck operations issues in this segment.
- 3 comments indicated other issues in this segment.

### LEGEND: Potential Improvements

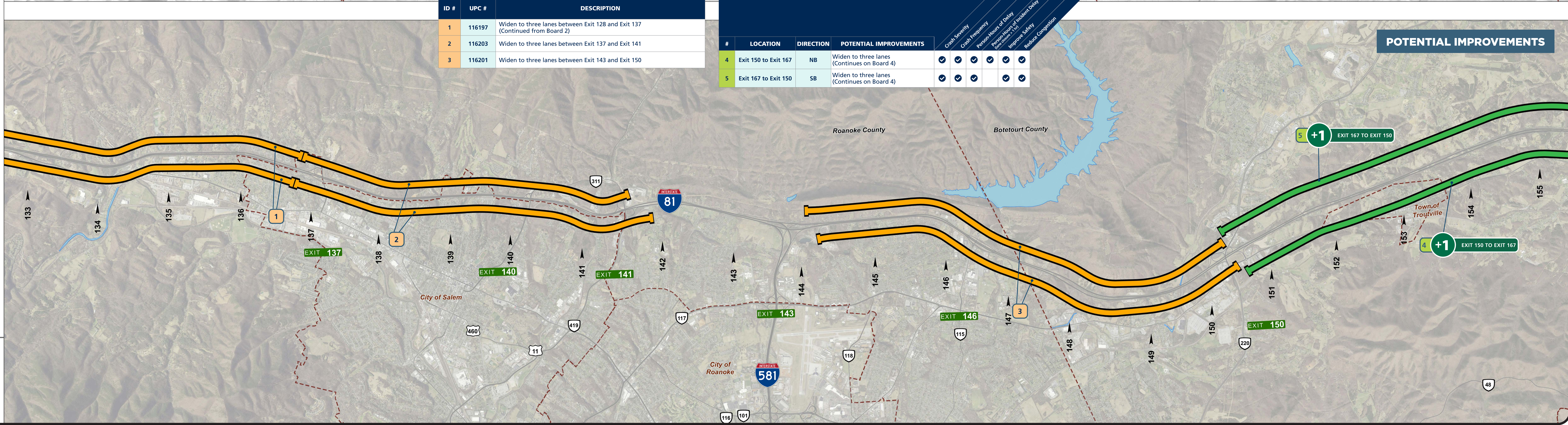
- +1 Widening
- Auxiliary Lane
- Acceleration/Deceleration Extension
- Realignment
- Curve Improvements
- Truck Climbing Lane

**Reference**

- Mile Marker (MM)

### Potential Improvements

#	LOCATION	DIRECTION	POTENTIAL IMPROVEMENTS	Crash Severity	Crash Frequency	Person-Hours of Delay	Person-Hours of Incident Delay	Improve Safety	Reduce Congestion
4	Exit 150 to Exit 167	NB	Widen to three lanes (Continues on Board 4)	✓	✓	✓	✓	✓	✓
5	Exit 167 to Exit 150	SB	Widen to three lanes (Continues on Board 4)	✓	✓	✓	✓	✓	✓

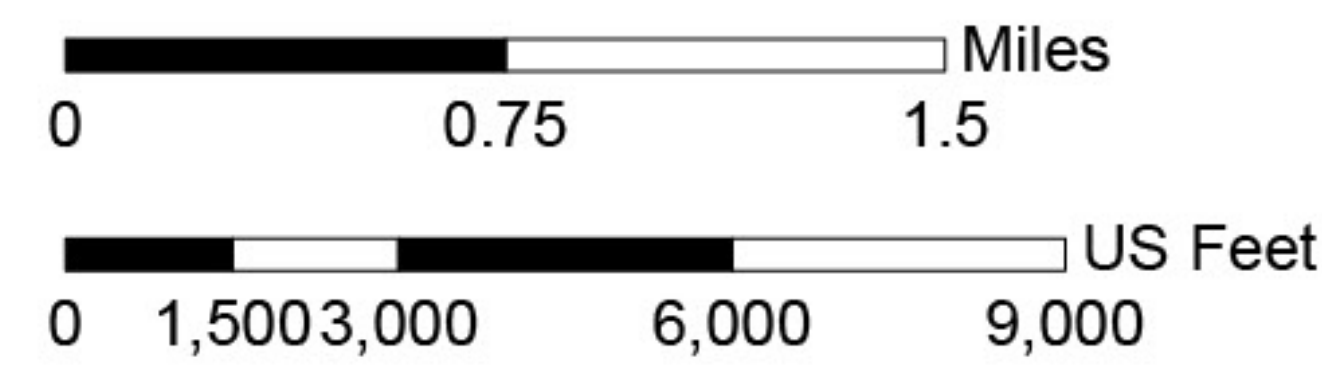
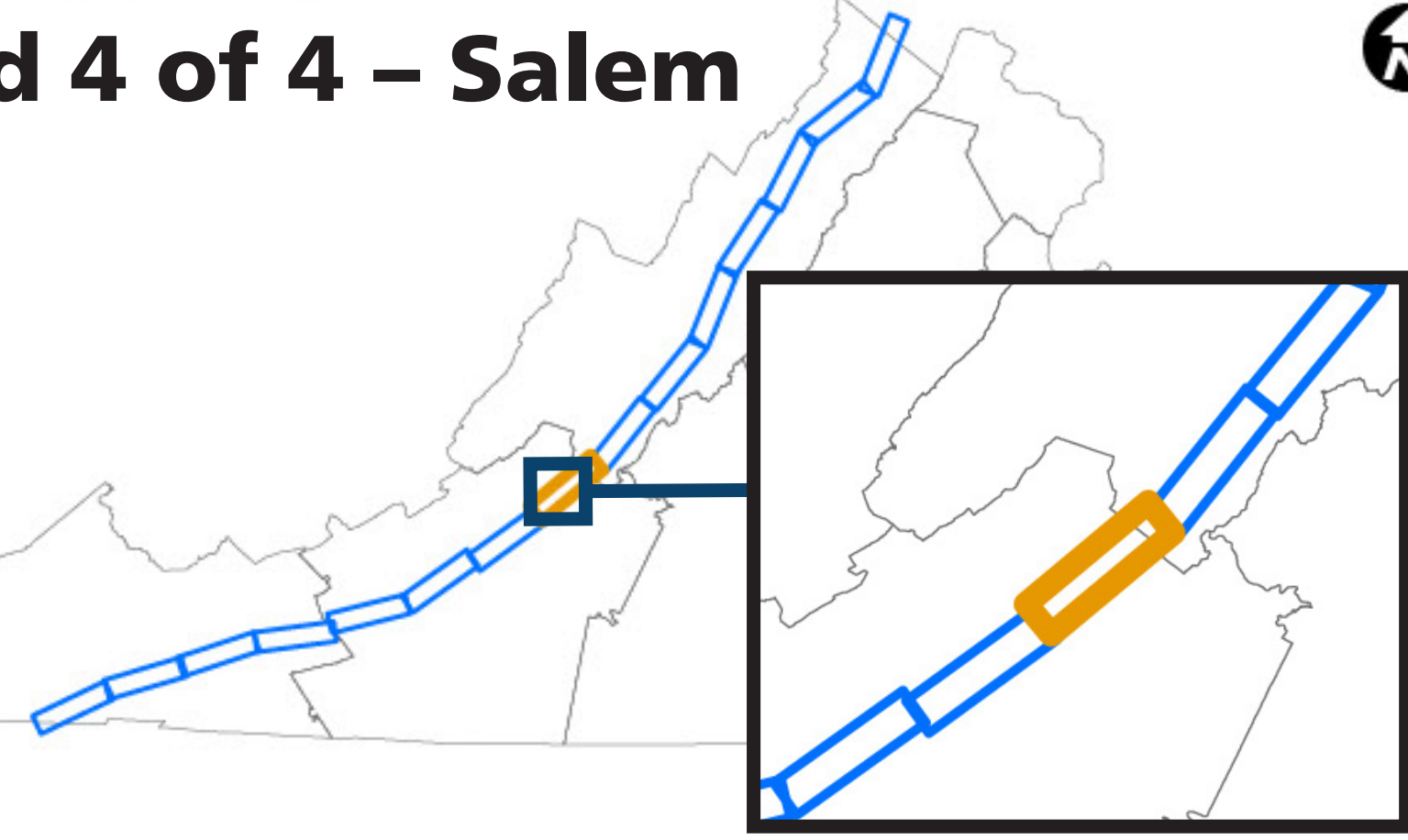




## Project Location

Scale

## Board 4 of 4 – Salem



### Legend

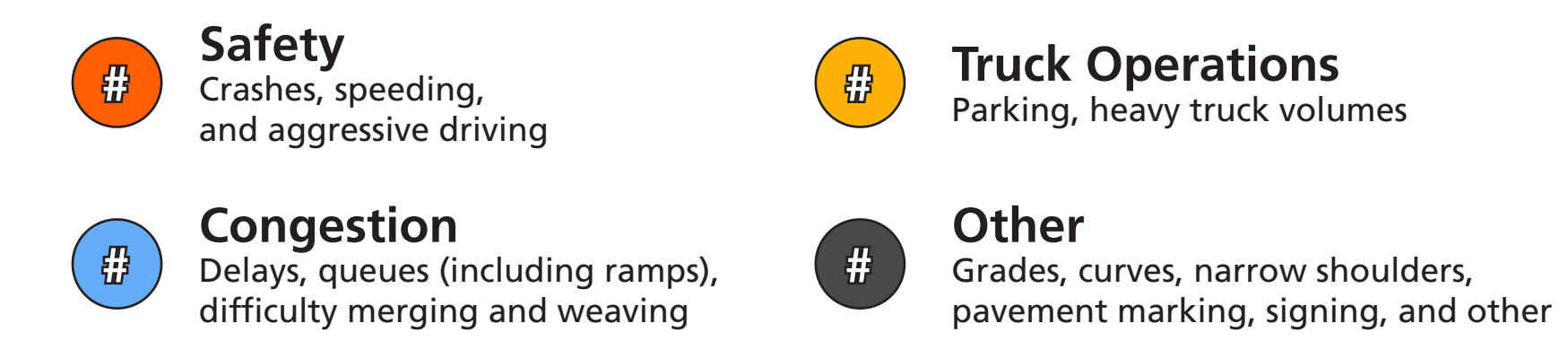
**LEGEND: Existing Conditions**

### PERFORMANCE MEASURES BY DIRECTION WITHIN THE TOP 25% ON THE I-81 CORRIDOR



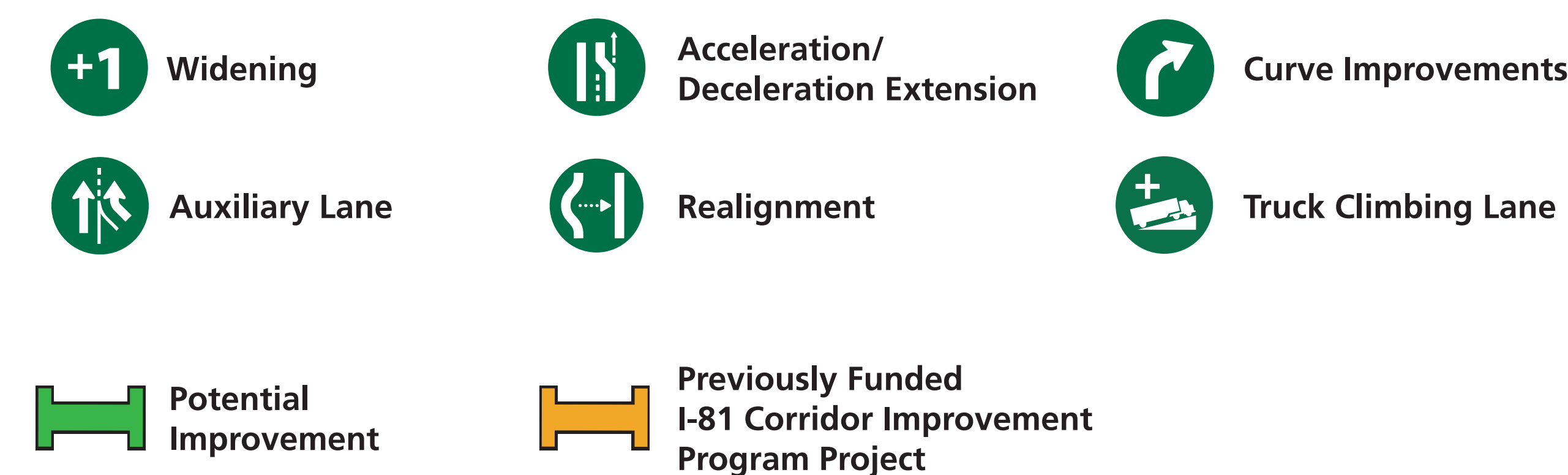
## PUBLIC COMMENTS

(Summarized by Mile in Each Direction)



# Indicates number of comments identified by the public in Round 1 of engagement

**LEGEND: Potential Improvements**

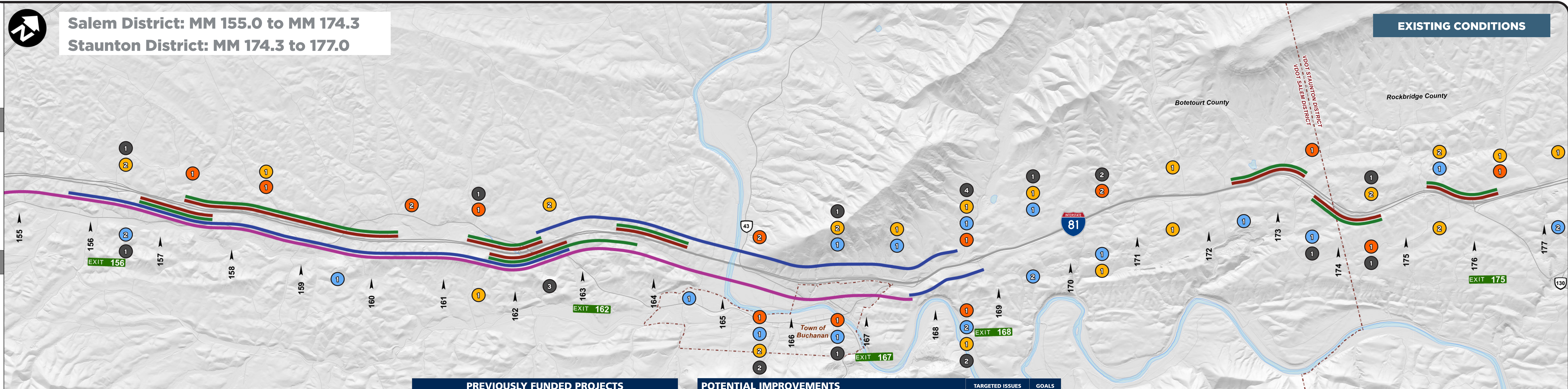


## Reference

► Mile Marker (MM)



Data Sources: Virginia Department of Transportation 2019, Virginia Geographic Information Network 2019, Airbus, USGS, NOAA, NASA, NOAA, CGIAR, GEBCO, NCEAS, NLS, OS, NMA, Geodatastyrelsen, GSA, GSI and the GIS User Community, Virginia Geographic



PREVIOUSLY FUNDED PROJECTS		
ID #	UPC #	DESCRIPTION
1	116199	Extend NB acceleration lane at Exit 162
2	115794	Add flashing chevrons along NB curve between MM 172 and MM 176
3A	116202	Extend SB acceleration lane at Troutville Safety Rest Area
3B	116202	Extend SB deceleration lane at Troutville Safety Rest Area
4	115794	Add flashing chevrons along SB curve between MM 175 and MM 171

POTENTIAL IMPROVEMENTS				TARGETED ISSUES		GOAL			
#	LOCATION	DIRECTION	POTENTIAL IMPROVEMENTS	Crash Severity	Crash Frequency	Person Injuries and Deaths	Personnel Injuries and Deaths	Improve Safety	Reduce Congestion
5	Exit 150 to Exit 167	NB	Widen to three lanes (Continued from Board 3)	✓	✓	✓	✓	✓	
6	Exit 156	NB	Extend acceleration lane	✓	✓			✓	
7	Exit 167 and Exit 168	NB	Realign roadway					✓	
8	Exit 167 to Exit 150	SB	Widen to three lanes (Continued from Board 3)	✓	✓	✓		✓	✓
9	Exit 168 to Exit 167	SB	Realign roadway					✓	
10	Exit 175	SB	Extend acceleration lane	✓	✓			✓	

