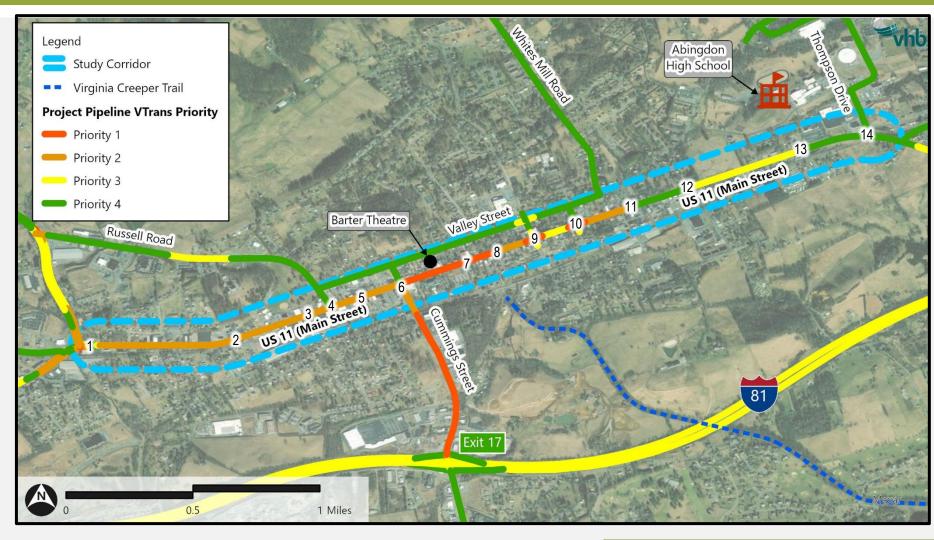
Project Overview | BR-23-06

US 11 (Main Street) between Holston Street and Thompson Drive



Rear end crash trend related to friction between various road uses in the downtown corridor (e.g., driving vehicles, parking vehicles, pedestrians, delivery trucks, etc.).



Multiple access points create driver confusion and contribute to many crashes along the corridor. Off-street parking lots blend with travel lanes creating friction between parking vehicles and driving vehicles.



US 11 is a parallel corridor to I-81 and serves as a detour for drivers when there is an incident or heavy congestion on I-81.



Heavy peak night-time pedestrian activity at Barter Theater. Two pedestrian crashes have occurred, 1 of which was a fatality.

GP

Project Purpose, Goals, & Objectives

Analyze the operational and safety issues identified along US 11.

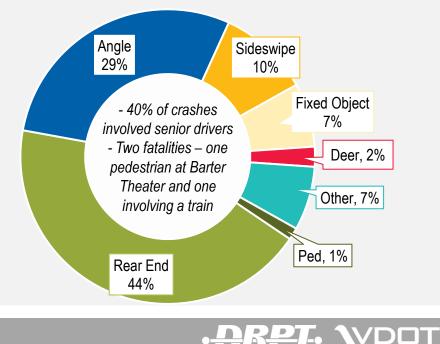
Identify cost-effective preferred improvement alternatives that address the deficient conditions and prioritize safety for vulnerable users.

Project Fact Sheet	
VDOT District	Bristol
Locality	Town of Abingdon
# of Study Intersections	14
Transit Routes	Mountain Lynx Transit
Functional Classification	Urban Minor Arterial
Speed Limit	25 MPH / 35 MPH

Issues in the Study Area

Intersection of US 11 and Cummings Street experiences the highest delay along the corridor and the most queueing.

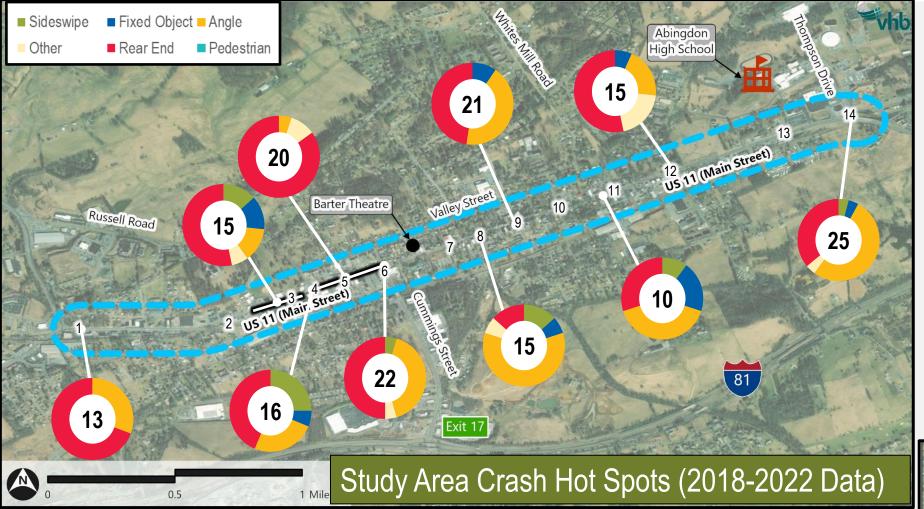
> Study Area Crashes (2018 – 2022 Data) 228 total crashes



INTERMODAL

Safety / Access Needs

Needs Identification Summary



VTrans Safety / Reliability Needs

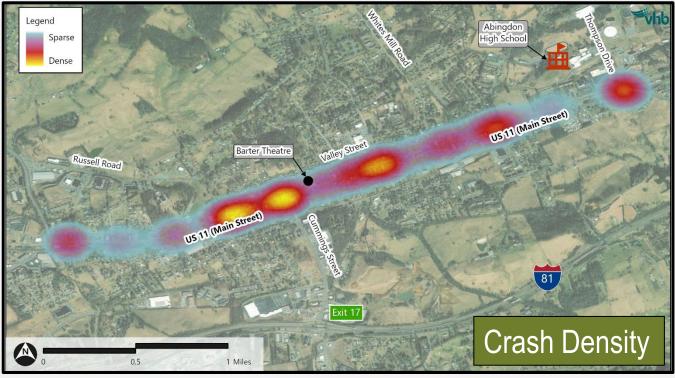
NEED	PRIORITY
Reliability	No Need
Road Safety	Very High
Pedestrian Safety	No Need

Safety Summary

- The primary crash pattern includes rear end and angle crashes related to friction between various road uses in the downtown corridor (e.g., driving vehicles, parking vehicles, pedestrians, delivery trucks, etc.). 20-25% of all crashes estimated to be "friction" crashes.
- 17 of the crashes along the corridor directly involved parked vehicles, and 12 involved utility poles along the corridor.
- Many rear end crashes noted stopping for activities in front (e.g., pedestrians crossing, vehicles parking, etc.) of the vehicles involved.

/DOT 2018-2022 Crash Data Crashes by Sever		verity			
Hot Spot Intersection / Segment	Α	В	С	0	Total
Holston Street and US 11	0	1	2	10	13
Between Academy Drive and Fuller Street	1	3	1	10	15
Russell Road and US 11	0	3	6	7	16
Between Russell Road and Cummings Street	0	2	4	14	20
Cummings Street and US 11	0	6	3	13	22
Pecan Street and US 11	0	3	1	11	15
Court Street and US 11	0	5	1	15	21
Deadmore Street and US 11	0	0	3	7	10
Trigg Street and US 11	1	1	2	11	15
Thompson Street and US 11	0	2	7	16	25
Total	2	26	30	114	172

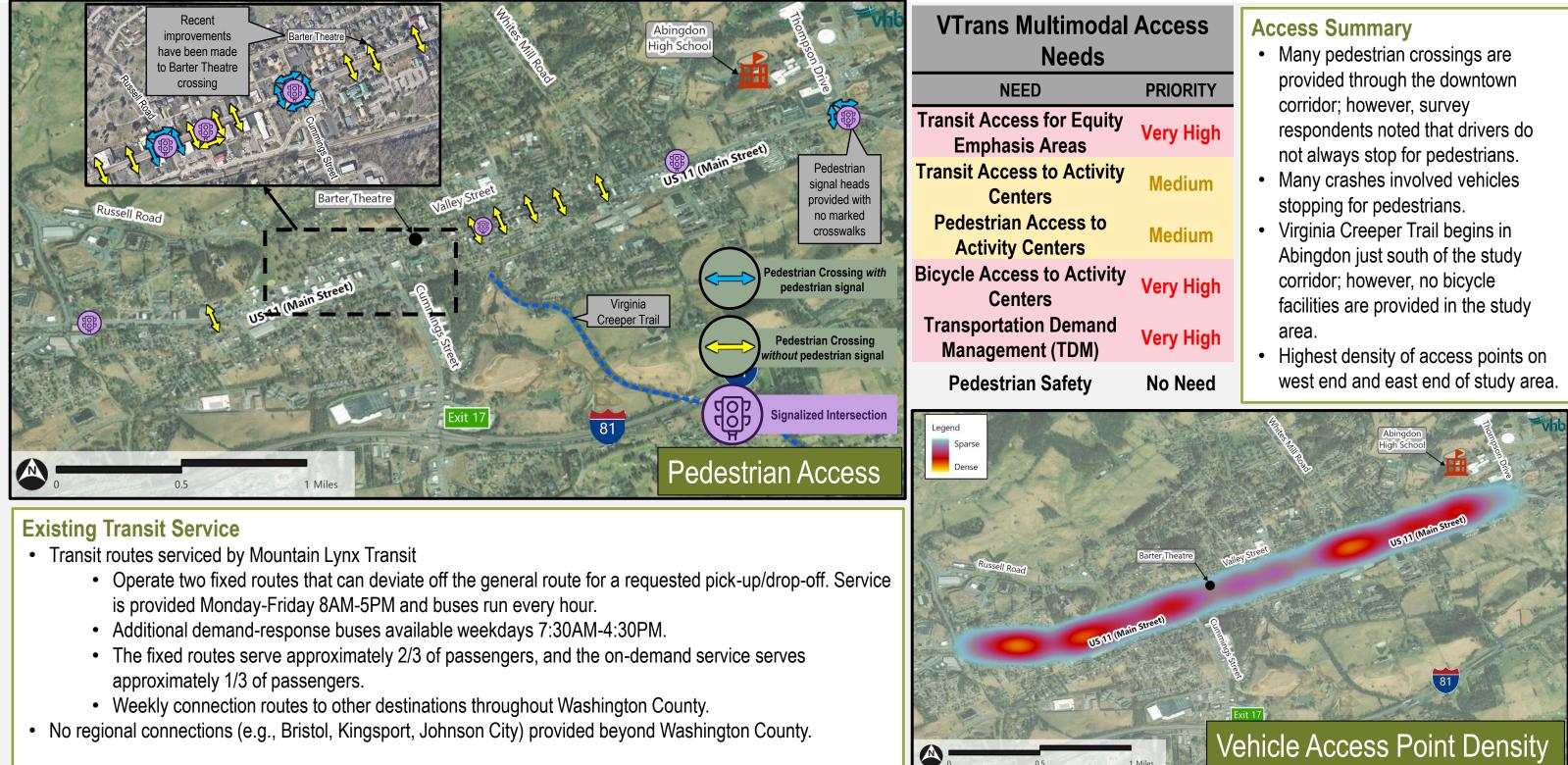
K = Fatal Injury; A = Severe Injury; B = Visible Injury; C = Non-visible Injury; O = Property Damage Only





Multimodal Needs

Needs Identification Summary

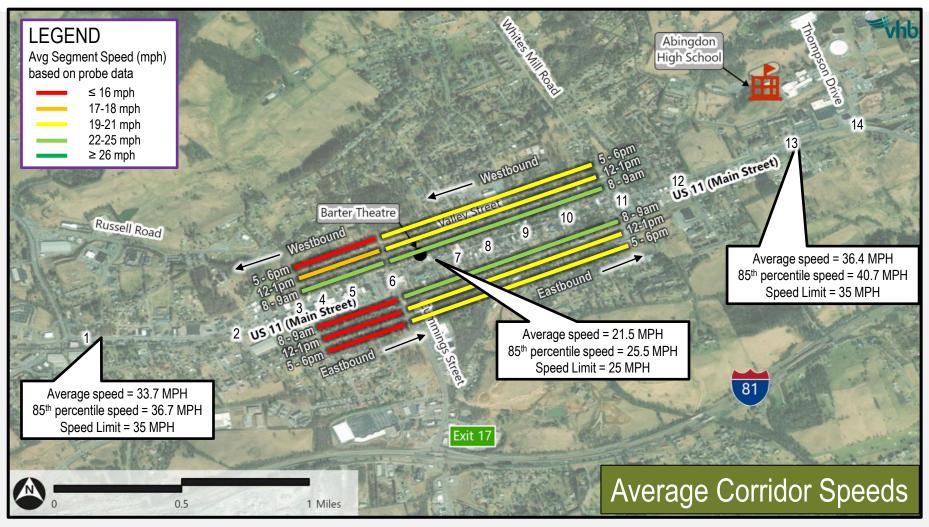




ΌΠΤ

Operations Needs

Needs Identification Summary



Operations Summary

- Most intersections perform at an acceptable level of service (LOS). The intersection of US 11 and Cummings Street experiences the most delay of the signalized intersections along the corridor.
- Numerous access points, on-street curb activity (parking and loading), and pedestrian activity contribute to average speeds lower than the speed limit.

	Ions Needs
NEED	PRIORITY
Congestion	Very High

VTrans Operations Needs

Capacity Preservation No Need

Existing Conditions – Synchro Output Intersection Porterfield Highway and US 11* 1. Holston Street and US 11 2. Preston Street and US 11** Fuller Street and US 11** Russell Road and US 11 5. Wall Steet and US 11 6. Cummings Street and US 11 Church Street and US 11** Pecan Street and US 11 9. Court Street and US 11** 10. Tanner Street and US 11** 11. Deadmore Street and US 11** 12. Trigg Street and US 11 13. Bank Street / Boone Street and US 11** 14. Thompson Drive and US 11 Hillman Highway and US 11* Russell Road and Valley Street* Cummings Street and Valley Street* Church Street and Valley Street*,** Court Street and Valley Street* study area.



Level of Service AM PM В В Α Α С С В В Α В В В С D Α В Α В С F С F D D Α Α В С В В В В С С В В С С С В

*Intersection is outside of study area but was analyzed to determine effects on the

**Intersection Level of Service is not calculated for two-way stop control intersection. Level of Service shown is worse of side street approaches.

Phase 1 Conclusion | BR-23-06

US 11 (Main Street) between Holston Street and Thompson Drive



- 2 Corridor-wide access management strategies
- 3 Quadrant intersection at Cummings Street
- 4 Turn lane reconfiguration at Cummings Street
- 5 Corridor-wide pedestrian improvements
- 6 Low-cost safety treatments
- 7 Alternative connection to Baugh Lane
- 8 Transit enhancements (stop amenities, microtransit viability)

P PROJECT PIPELINE

BR-23-06 Town of Abingdon



Issues in the Study Area

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	VTrans Needs Addressed
angled s	Road Safety, Congestion
	Road Safety, Congestion
	Congestion
	Congestion
	Transportation Demand Management
	Road Safety
	Road Safety, Congestion
	Transportation Demand Management