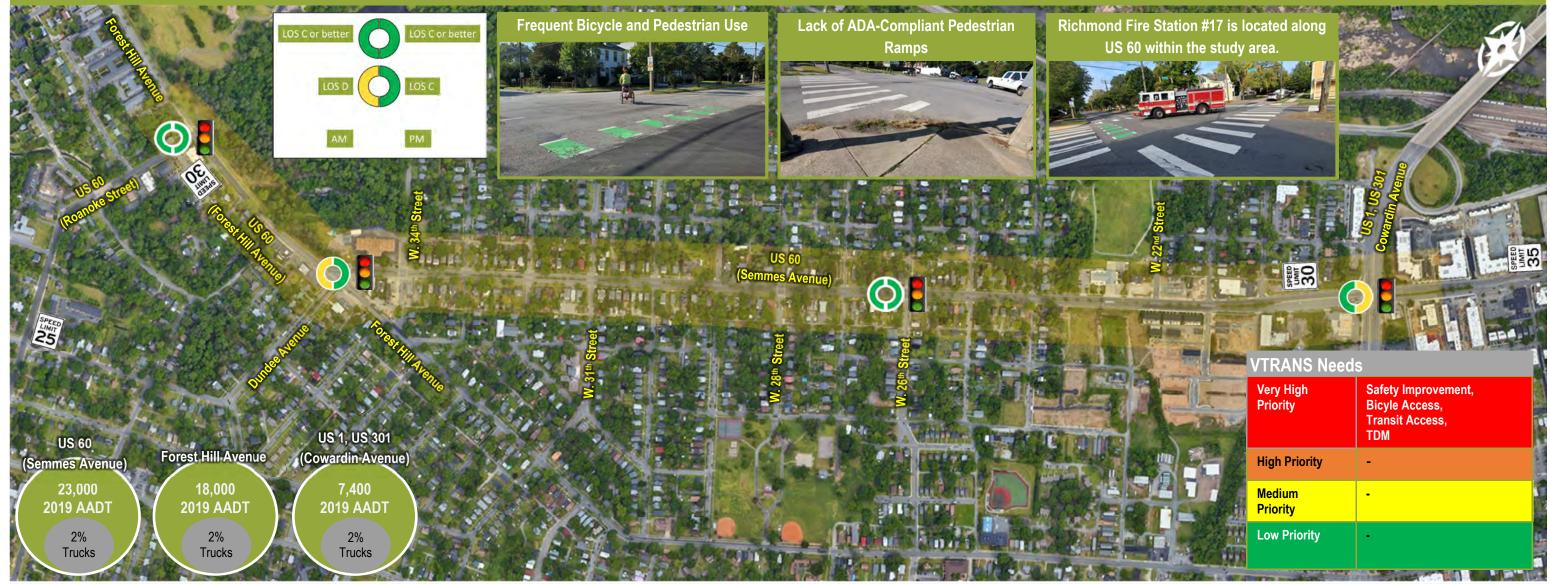
PHASE I - DIAGNOSIS AND PROBLEM IDENTIFICATION





Study Purpose, Goals, and Objectives

Address vehicular, bicycle, and pedestrian safety concerns; address bicycle access needs; address transit and travel demand management needs.

Project aims to identify medium- and long- term solutions for vehicles, bicycles, and pedestrians using crash mitigation and access management strategies.

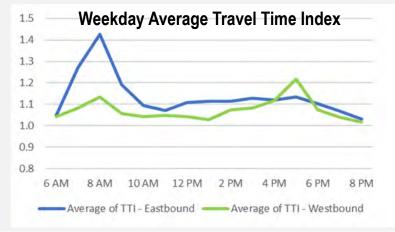
Existing Issues

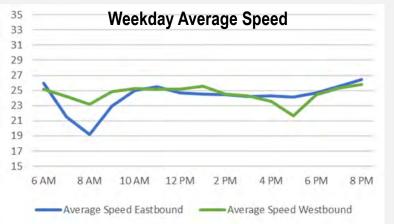
There are opportunities for additional enhancements to bicycle and pedestrian safety throughout the corridor.



- The worst-performing movement at the simulated unsignalized intersections operate at LOS E or F during at least one peak hour.

The worst performing movement for all these intersections is from a side street.



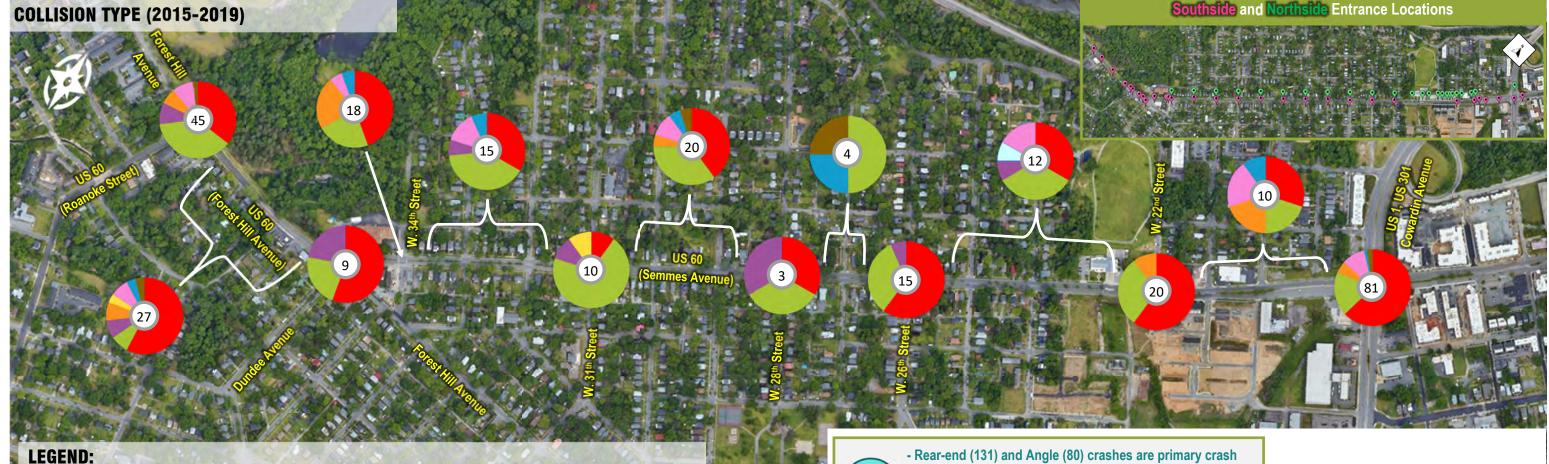




RI01| Richmond - US 60 (SEMMES AVENUE) CORRIDOR

PHASE I - DIAGNOSIS AND PROBLEM IDENTIFICATION

TEAM 2 - TRAFFIC SAFETY AND RELIABILITY NEEDS

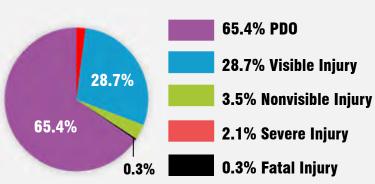




Rear-end Crashes

Angle Crashes

Sideswipe



Ped/Deer

Head on

Fixed Object

Other

Sideswipe - Op. Dir.

Non-collision

Total Crashes : 289	2015	2016	2017	2018	2019
A. Severe Injury	3	0	0	2	1
B. Visible Injury	14	13	21	22	13
C. Nonvisible Injury	4	1	2	0	3
K. Fatal Injury	0	1	0	0	0
PDO. Property Damage Only	29	41	33	38	48
Total	58	79	62	73	63

Number of Crashes



- Based on crash diagrams, the shared left-thru lanes along US 60 are a contributing factor to the Rear-end crashes.
- -Most probable cause for crashes (in general):
- Following too close
- -The reported fatal crash involved a pedestrian and occurred on EB US 60, west of Cowardin Avenue . It was a hit and run and the driver was reported to be drunk.



- There are 54 closely spaced full access entrances along the corridor, which can create safety hazards.



- The data shows the travel time variability is relatively high.

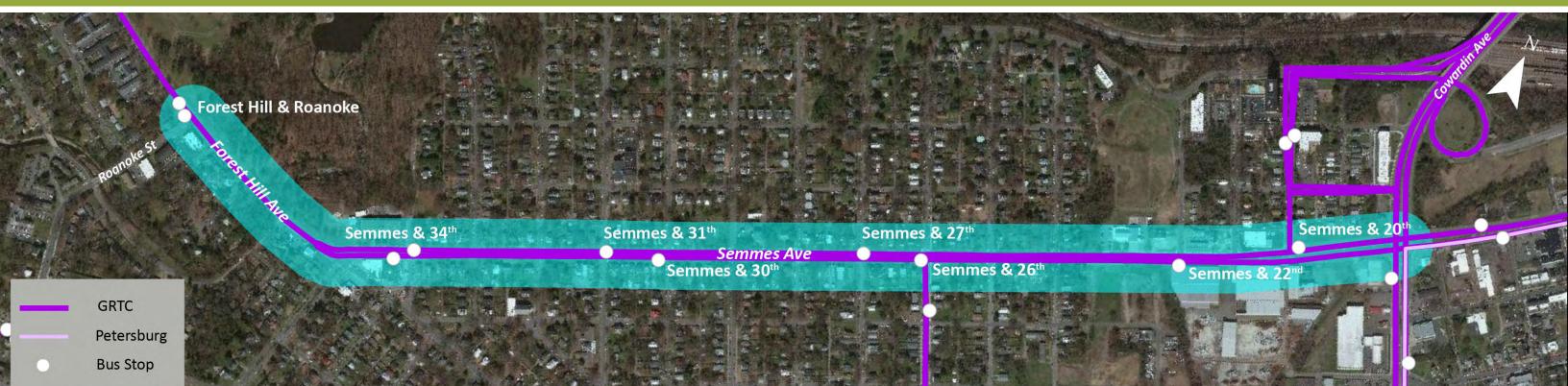






RI01 | City of Richmond

US 60 (Semmes Avenue) from US 60 (W Roanoke Street) to US 1 / US 301 (Cowardin Avenue)



Existing Conditions



No rail infrastructure in immediate corridor



RideFinders is the commuter assistance program in



No park and rides in area



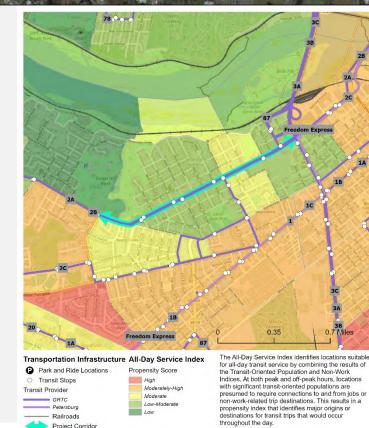
Bikeshare and e-scooters are available elsewhere in the city



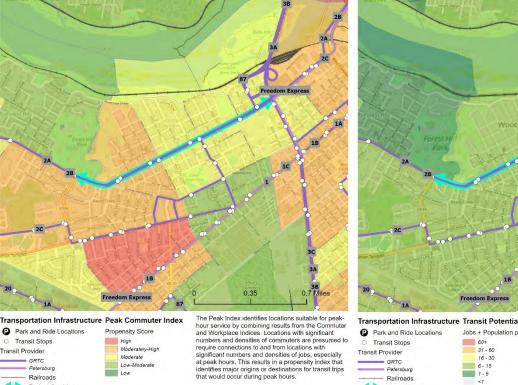
GRTC Routes 2A (60min), 2B (60min), and 2C (30min) [15 min where combined in the study area] 5a-1a; 87 (60min) 530a-12a



10 stops; all with sidewalk access, some with ADA loading pads; mix of amenities (benches, trash cans)









Park and Ride Locations





RI01 | City of Richmond

US 60 (Semmes Avenue) from US 60 (W Roanoke Street) to US 1 / US 301 (Cowardin Avenue)





Provide ADA loading pads at stops at Forest Hill Ave & Roanoke Street and at Semmes Ave at 34th (2 stops), 31st, 30th, and 27th



Add striped crosswalks at Forest Hill Ave & Roanoke St and at Semmes Ave at 34th, 31st, 30th, 27th, 22nd, and Cowardin Ave



This corridor is adjacent to a future BRT study area; GRTC is looking at microtransit across the region; and GRTC is expanding bus stop infrastructure across the city – all of these projects will improve transit access in area; GRTC's transit development plan recommends extension of Route 87's hours, expansion of the Routes 2A and 2B's service area, and increase in the 2A and 2B's frequency



A park and ride lot in the area (US 1/US 301 or US 60) might be appropriate, perhaps as part of future BRT infrastructure



Consider expanding bikeshare to the Manchester, Swansboro, and Forest Hill Park areas



Leverage the existing RideFinders commuter assistance programs to promote the use of transit, carpool and vanpool, and to provide ridematching and commute options information to residents, employers, and employees.



