US 1 Quick Facts

Corridor Length: 10.9 Miles from Elkridge to North Laurel

Posted Speed Limits: 35 MPH to 50 MPH

Sidewalks: 6.4 Miles of Sidewalk

- ► 0.9 miles of roadway with sidewalk on both sides
- ► 4.6 miles of roadway with sidewalk on one side
- ► 6.0 miles of roadway with no sidewalks

Bike Lanes: 0.4 miles

Crosswalks: 8 Marked Crosswalks across US 1

Bus Stops: 31 RTA, 14 MTA, 2 shared RTA/MTA

► 11 RTA stops and 10 MTA stops have no sidewalk access

► 24 RTA stops, 8 MTA stops, and both shared stops are more than 500 feet from a crosswalk across US 1

2016 Crash History: 257 total crashes

- ► 161 Property Damage Crashes
- ▶ 92 Injury Crashes (3 pedestrian crashes, 1 bike crash)
- ► 4 Fatal Crashes (4 pedestrian crashes with 5 fatalities)

US 1 Safety Evaluation

PRESENTATION OF FINDINGS

SEPTEMBER 1, 2020



MARYLAND DEPARTMEN

OF TRANSPORTATION

STATE HIGHWAY

ADMINISTRATION





Presentation Outline

- 1. Background and History
- 2. Evaluation Process
- 3. Recommendations and Concepts
- 4. Current Status and Next Steps

Background and History



US 1 in Howard County









Trends in the US 1 Corridor: Vehicle Traffic



Evaluation Process





Core Team Members

The core team consisted of representatives of the following departments, offices, and agencies:

- Maryland Highway Safety Office
- MDOT SHA District 7 (Howard, Carroll, and Frederick Counties)
- MDOT SHA Office of Traffic and Safety
- Baltimore Metropolitan Council
- Howard County Department of Public Works
- Howard County Police Department
- Howard County Office of Transportation

Public Input



 open houses attendees comment forms specific locations emails received boards and commissions



CRASH HISTORY: PEDESTRIAN AND BICYCLE

Area 1: City of Laurel/ Howard County Line to Whiskey Bottom Road Area 2: Guilford Road to Patuxent Range Road Area 3: Assateague Drive to Brookdale Drive Area 4: Greenfield Road to Levering Avenue



FOCUS AREAS

Daytime and Twilight Field Observations

- High vehicle speed incompatible with pedestrian activity
- Inadequate visibility of pedestrians
- Lack of pedestrian crossings
- Lack of sidewalks or bike facilities creating a connected non-motorized network



FIELD EVALUATIONS

Recommendations



















CONCEPT 4: ROWANBERRY/US 1 PEDESTRIAN IMPROVEMENTS



CONCEPT 5: DOCTOR PATEL DRIVE PEDESTRIAN SIGNAL

Cost Estimates										
Concept		Pavement Markings - Bike Lane	Signage	Curb Ramps	New Traffic Signals	Retrofit Pedestrian Signals	Crosswalk Markings	Sidewalk	Leased Lighting Heads	Concept Total
Concept 1	Lane Repurposing for Bike Facility	\$20,000	\$10,000	\$10,000	\$230,000	\$10,000	\$5,000	_	_	\$285,000
Concept 2	Pedestrian Activated Signal	_	\$5,000	\$20,000	\$150,000	_	\$5,000	_	_	\$180,000
Concept 3	Signal Upgrade Retrofit for Pedestrian Signals	-	\$2,500	\$40,000	-	\$25,000	\$10,000	\$100,000	-	\$177,500
Concept 4	Signal Upgrade Retrofit for Pedestrian Signals	_	_	\$15,000	-	\$25,000	\$10,000	\$75,000	-	\$125,000
Concept 5	Pedestrian Activated Signal	—	\$5,000	\$15,000	\$150,000	—	_	\$100,000	\$30,000	\$300,000
Elei	ment Sum	\$20,000	\$22,500	\$100,000	\$530,000	\$60,000	\$30,000	\$275,000	\$30,000	
Sub-Total Costs										
100 % Contingency for design fee, environmental mitigation, utilities, and right of way acquisition Total Costs										\$1,067,500 \$2,135,000



