

PHASE I - DIAGNOSIS AND PROBLEM IDENTIFICATION

STUDY OVERVIEW



Purpose, Goals & Objectives

The purpose of this study is to identify recommendations to improve safety and preserve capacity along Route 11/460 in the vicinity of the Dow Hollow Road intersection.

Identify cost-effective improvement alternatives that address the identified safety and capacity preservation needs.

Study Summary	
VDOT District	Salem
Locality	Roanoke County
Length	0.18 miles
Study Limits	South of Fallbrooke Drive to north of Pleasant Run Drive
Functional Classification	Minor arterial / Corridor of Statewide Significance
Speed Limit	55 MPH

Existing Issues in the Study Area

- Route 11/460 at Dow Hollow Road serves as a detour route during incidents on I-81; long delays and queues on the Dow Hollow Road approach during incidents
- Steep downgrade (5-6%) on the southbound US 11/460 approach to Dow Hollow Road impacts travel speeds



I-81 Incident Detour Route

VTrans Midterm District Needs

- Priority 1
- Priority 2
- Priority 3
- Priority 4

VTrans Needs

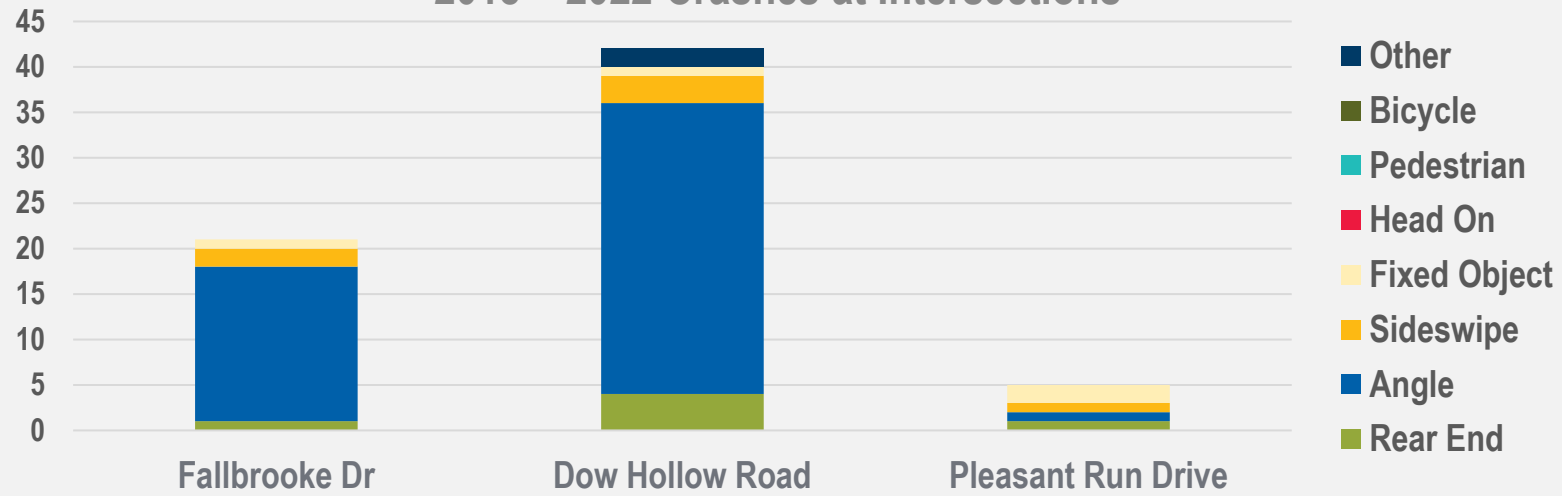
NEED	PRIORITY
Safety Improvement	Very High
Capacity Preservation	Very High

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TRAFFIC SAFETY NEEDS



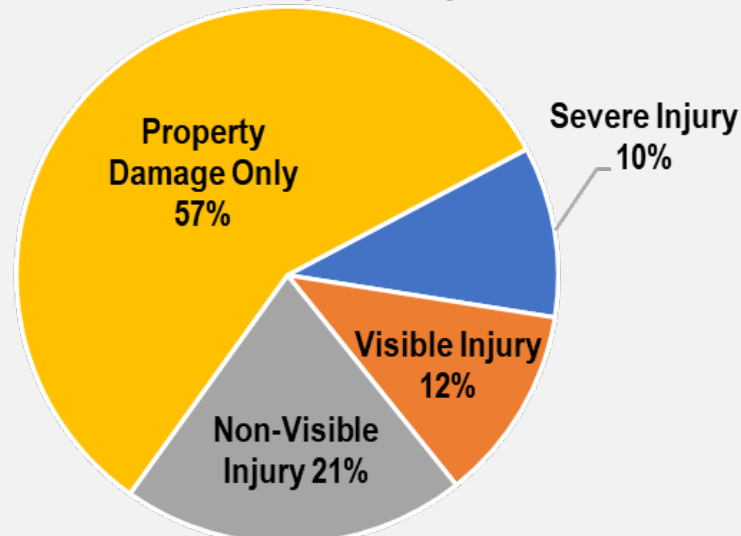
2018 – 2022 Crashes at Intersections



Safety Issues in the Study Area

- Angle crashes at the Dow Hollow Road and the Fallbrooke Drive intersections
- 24 crashes involved left turns from Dow Hollow Road and southbound Route 11/460 vehicles including 7 involving trucks
- 43% of crashes resulted in injuries including 7 serious injuries
- 41% of crashes occurred between 3 PM and 6 PM

Crashes by Severity



Crashes by Type

