Crash History (July 2014 - Nov 2018)

Song Sparrow/Yellow Hammer (8 Crashes)

Hamill Run

Yellow Hammer

Estate Manor (9 Crashes)

Braided Stream (8 Crashes)

Crashes by Year (July 2014 - Nov 2018)

Number of Crashes

0 3 6 9 12

2014 2015 2016 2017 2018

Injury

- Angle (9)
- Rear End (3)
- Sideswipe (1)
- Fixed Object (4)
- Deer (2)
- Angle (10)
- Non-Collision (1)

PDO

- Head On (1)
- Fatal

Rollins Ford Road Corridor Study
Prince William County, VA
VDOT Recent Improvements

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Pedestrian Crossing Enhancements Concept

Legend
- Existing Crosswalk
- Existing Pedestrian Sign
- Existing School Flasher
- Existing No U-turn Sign
- Existing Oversized STOP Signs
- Typical Section Extent
- Proposed Intersection Treatment
- Proposed: Pedestrian Advanced Warning Flasher
- Proposed: Detection and Warning Flasher

Rollins Ford Road
Existing Typical Section (Northbound/Eastbound)

Install Speed Feedback Signage

Legend
- Install Speed Feedback Signage
- Install Pedestrian Advanced Warning with Flasher
- Install detection and warning flasher for vehicles entering from Braided Stream Drive
- Speed Feedback Sign Installation Note

Any and all speed feedback sign installations need to be installed by the locality under VDOT permit for installation and maintenance purposes.

Install Speed Feedback Signage

Curb extensions and approach reconfiguration

Install Pedestrian Advanced Warning with Flasher

Install detection and warning flasher for vehicles entering from Braided Stream Drive

Vint Hill

Hamil Run

South Street

Speed Feedback Signage

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Alternatives Development
Date: May 2019
Pedestrian Crossing Enhancements Concept

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Preliminary Design Subject to Change
Date: May 2019
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Partial Lane Reduction Concept

Legend
- Existing Crosswalk
- Existing Pedestrian Sign
- Existing School Flasher
- Existing No U-turn Sign
- Existing Oversized STOP Signs
- Typical Section Extent
- Proposed Intersection Treatment
- Proposed: Pedestrian Advanced Warning Flasher

Speed Feedback Sign Installation Note:
Any and all speed feedback sign installations need to be installed by the locality under VDOT permit for installation and maintenance purposes.

Rollins Ford Road
Existing Typical Section
(Northbound/Eastbound)

Note: Approximately 1.7 lane miles reduced

Install Speed Feedback Signage

Curb extensions, approach reconfiguration, sight distance improvements
Innovative Intersection Restricted Crossing U-Turns (RCUT) Concept

Rollins Ford Road Corridor Study
Prince William County, VA

Legend
- Existing Crosswalk
- Existing Pedestrian Sign
- Existing School Flasher
- Existing No U-turn Sign
- Existing Oversized STOP Signs
- Typical Section Extent
- Proposed Intersection Treatment
- Proposed: Pedestrian Advanced Warning Flasher
- Proposed: Detection and Warning Flasher

Rollins Ford Road
Proposed Typical Section
(Northbound/Eastbound)

Legend:
- Existing Crosswalk
- Existing Pedestrian Sign
- Existing School Flasher
- Existing No U-turn Sign
- Existing Oversized STOP Signs
- Typical Section Extent
- Proposed Intersection Treatment
- Proposed: Pedestrian Advanced Warning Flasher
- Proposed: Detection and Warning Flasher

Speed Feedback Sign Installation Note:
Any and all speed feedback sign installations need to be installed by the locality under VDOT permit for installation and maintenance purposes.

Install detection and warning flasher for vehicles entering from Braided Stream Drive.
Innovative Intersection Restricted Crossing U-Turns (RCUTs) Concept

Rollins Ford Road Corridor Study
Prince William County, VA

Rollins Ford Road
Estate Manor Drive
Gallery Way
Barrymore Court

Scale: 1" = 50'

Date: May 2019
Innovative Intersection Single Lane Roundabout Concept

Connecting bike lane with multi-use path and sidewalk along Rollins Ford Road

Legend
- Existing Crosswalk
- Existing Pedestrian Sign
- Existing School Flasher
- Existing No U-turn Sign
- Existing Oversized STOP Signs
- Typical Section Extent
- Proposed Intersection Treatment

Rollins Ford Road
Proposed Typical Section
(Northbound/Eastbound)

Note: Approximately 1.7 lane miles reduced

Speed Feedback Sign Installation Note
Any and all speed feedback sign installations need to be installed by the locality under VDOT permit for installation and maintenance purposes.

Install Speed Feedback Signage

Configure with porkchop; improve gap assessment for westbound left and Braided Stream approach

Connect bike lane with multi-use path and sidewalk along Rollins Ford Road

Rollins Ford Road Corridor Study
Prince William County, VA
# Concept Evaluation Matrix

<table>
<thead>
<tr>
<th>Goal/Need</th>
<th>Metric</th>
<th>No Build</th>
<th>Pedestrian Crossing Enhancements Concept</th>
<th>Partial Lane Reduction Concept</th>
<th>Restricted Crossing U-turn Concept</th>
<th>Single Lane Roundabout Concept</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mitigating Speeding</td>
<td>Potential to influence change in speed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Improve Bike/Ped mobility/safety</td>
<td>Features design elements to decrease ped/bike exposure/increase visibility</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Improve vehicular safety</td>
<td>Potential CMF(^1) of proposed change(^2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maintain travel time reliability</td>
<td>Estimated change in travel time</td>
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<tr>
<td>Advance cost-feasible solutions</td>
<td>Preliminary Cost Estimate</td>
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<td>$$$$</td>
</tr>
<tr>
<td>Short-term implementation</td>
<td>Estimated time needed for implementation(^3)</td>
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<td>--</td>
<td>⌛</td>
<td>⌛</td>
<td>⌛</td>
</tr>
</tbody>
</table>

\(^1\) CMF = crash modification factor as defined by the AASHTO Highway Safety Manual, 2010.

\(^2\) Formal HSM safety analysis should be conducted to evaluate safety impacts.

\(^3\) Estimates assume required time for concept final design and construction; actual timeline could vary depending on funding/contracting schedules.

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*(cost in 2019 dollars)*

- ○ – Does not meet goal/need
- ● – Partially meets goal/need
- ● – Meets goal/need

<table>
<thead>
<tr>
<th>Cost</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>$ &lt; $500 thousand</td>
<td>~6 months – 1 year</td>
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<tr>
<td>$500 thousand - $1 million</td>
<td>~1 year – 2 years</td>
</tr>
<tr>
<td>$1 million - $3 million</td>
<td>~2 years – 5 years</td>
</tr>
<tr>
<td>&gt;$3 million</td>
<td></td>
</tr>
</tbody>
</table>

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Prince William County, VA