Study Area

Preliminary Traffic/Safety Analysis
Date: May 2019

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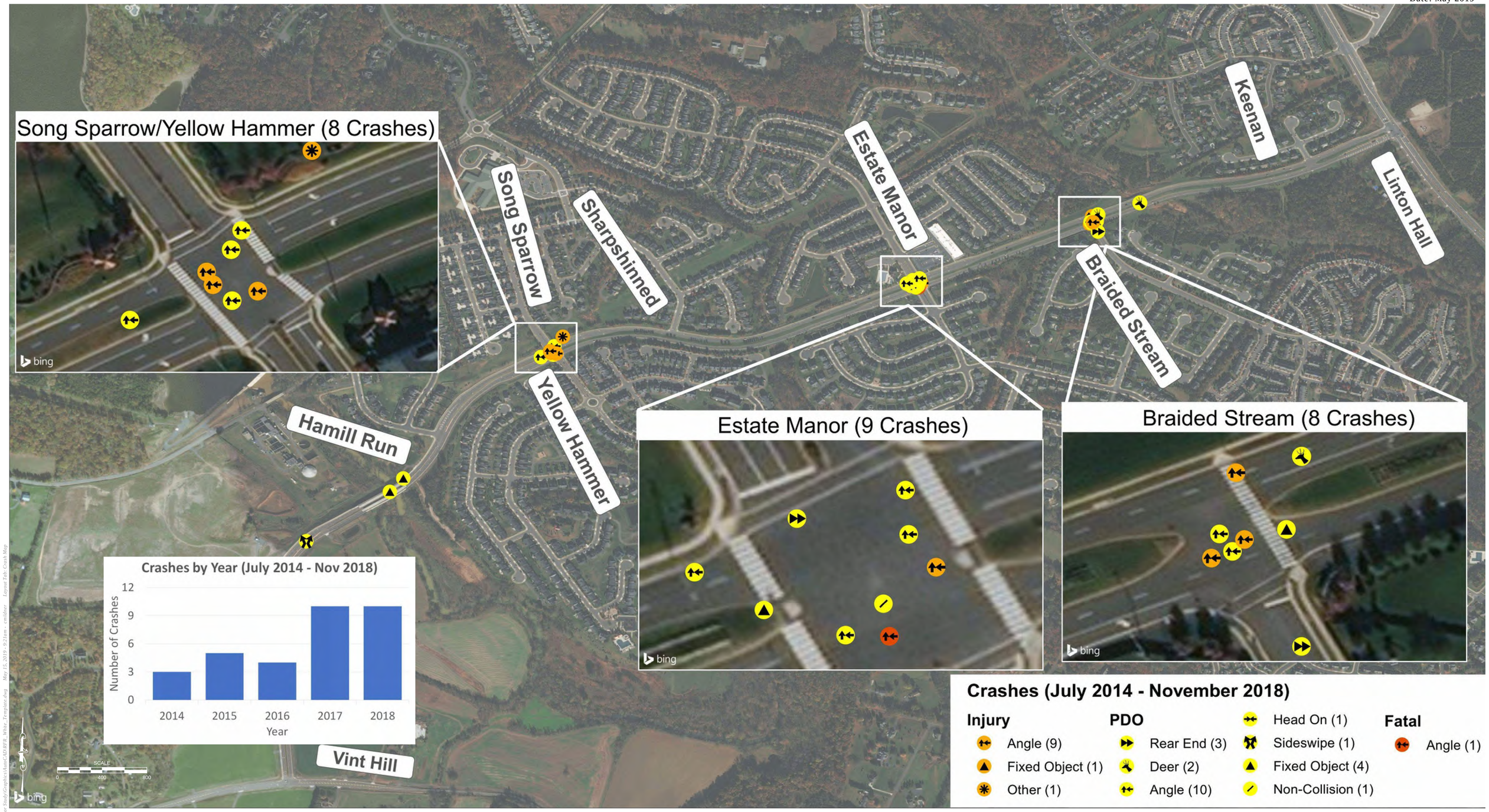
Prince William County, VA

Crash History (July 2014 - Nov 2018)

Preliminary Traffic/Safety Analysis
Date: May 2019



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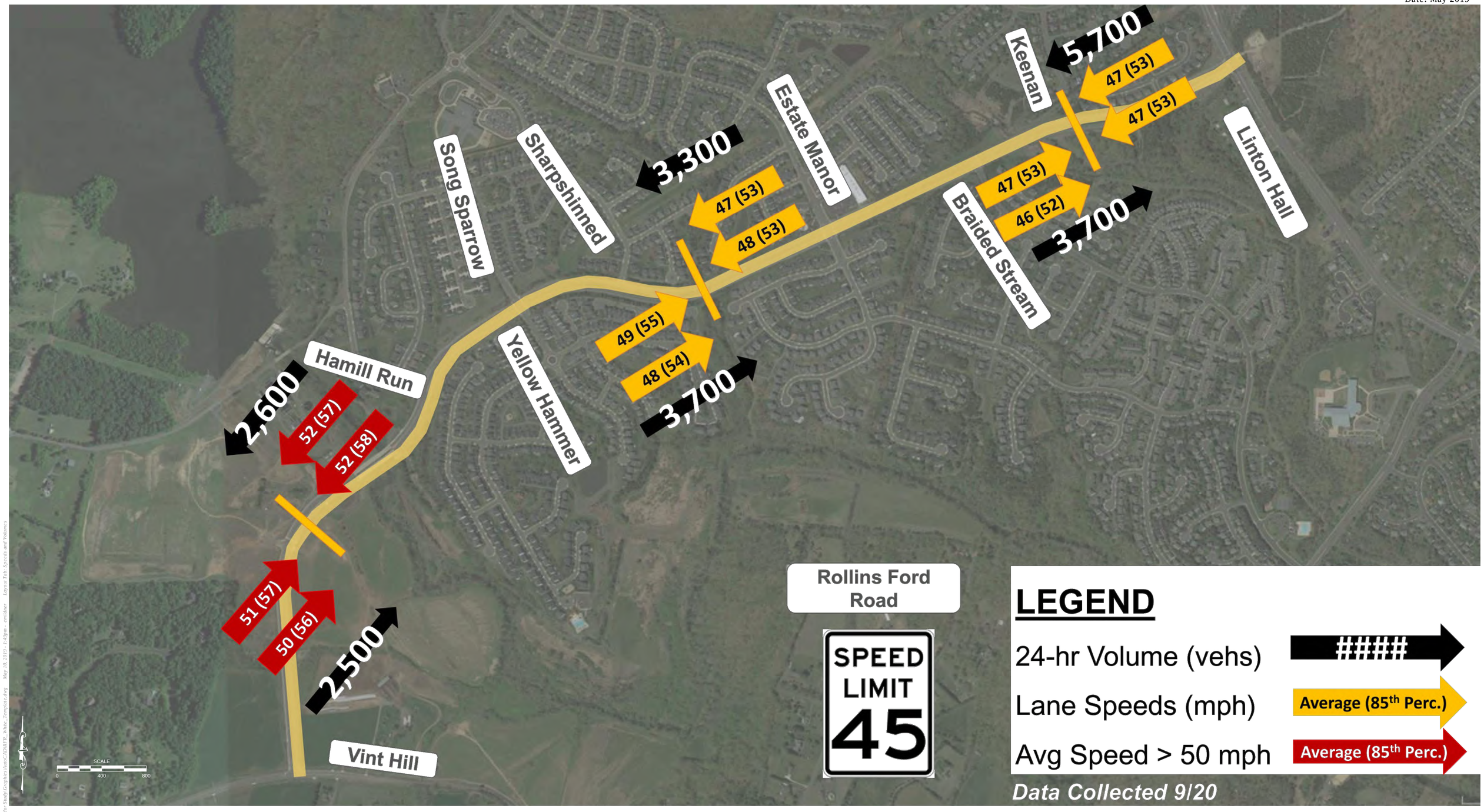
Prince William County, VA

Existing Speeds and Volumes

Preliminary Traffic/Safety Analysis
Date: May 2019



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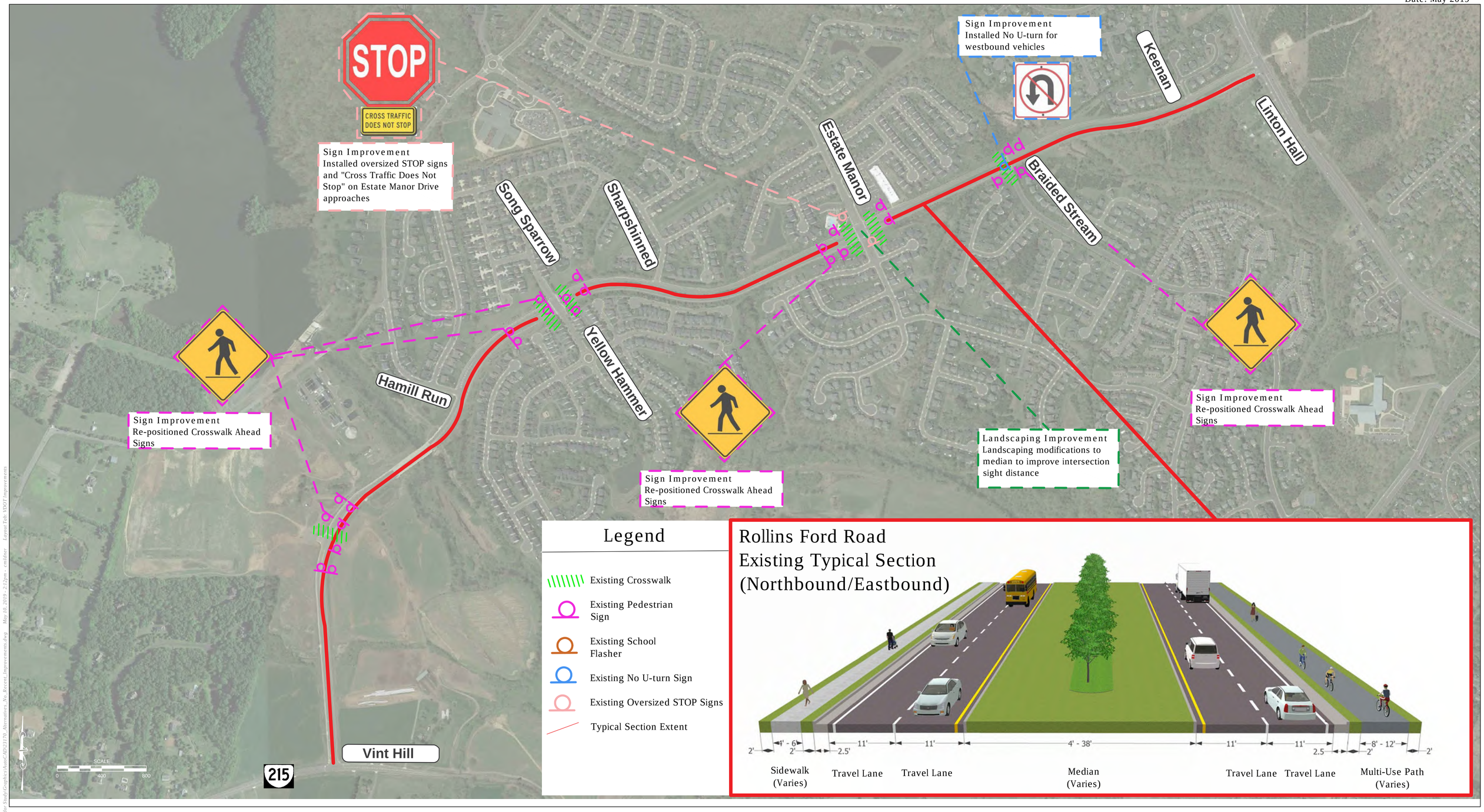
Prince William County, VA

VDOT Recent Improvements

Alternatives Development
Date: May 2019



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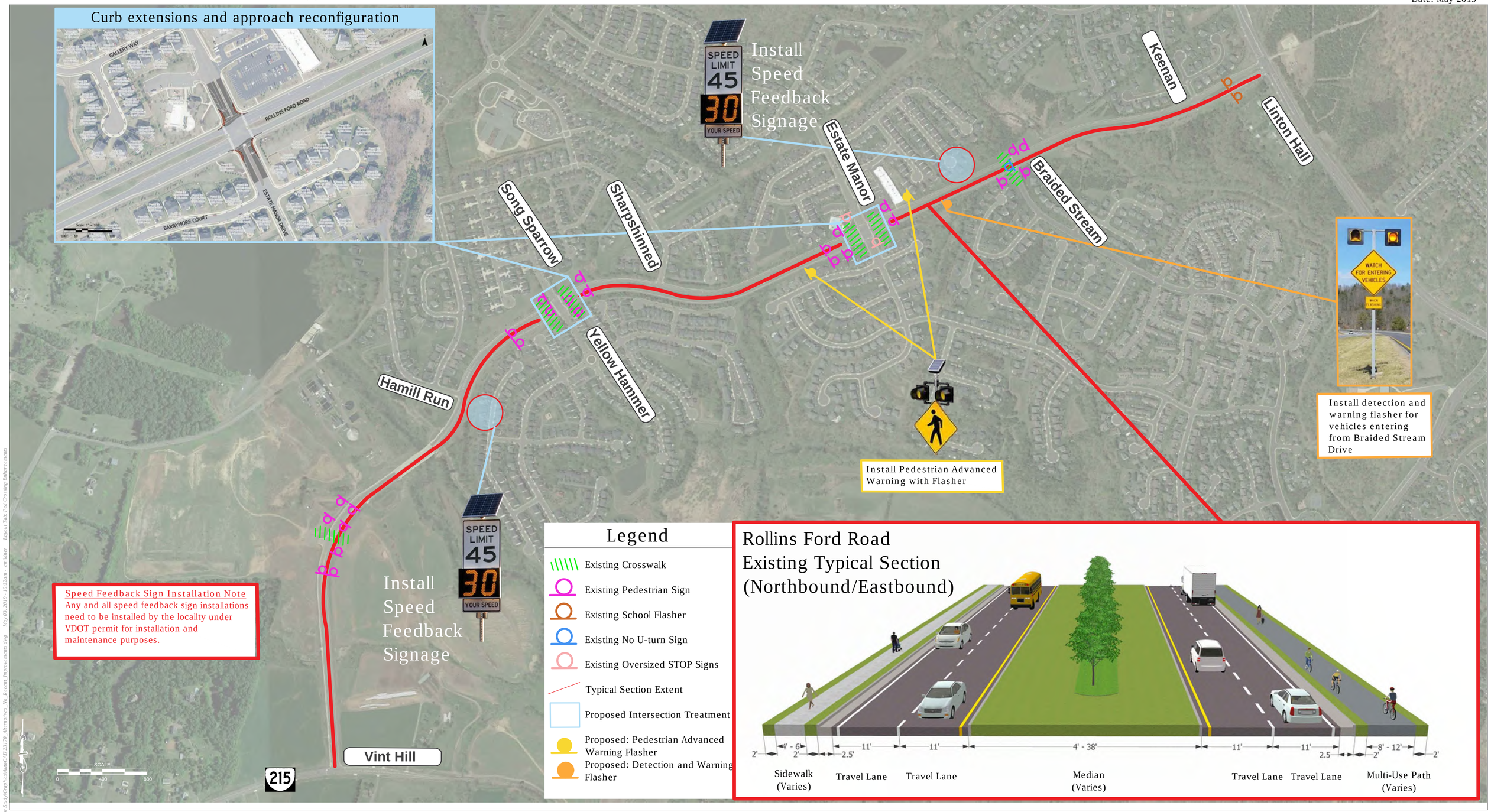
Prince William County, VA

Pedestrian Crossing Enhancements Concept

Alternatives Development
Date: May 2019



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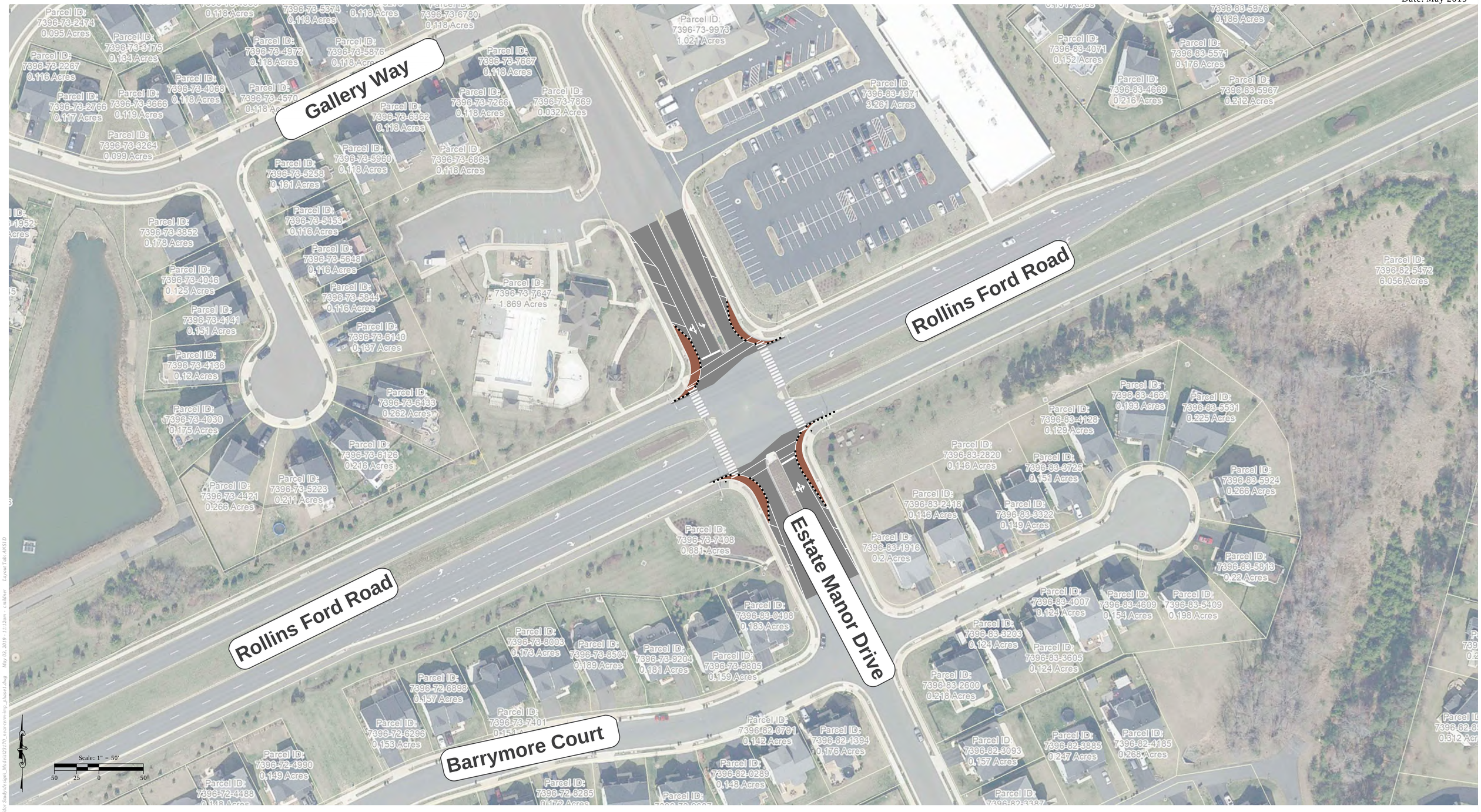
Prince William County, VA

Pedestrian Crossing Enhancements Concept

Preliminary Design Subject to Change
Date: May 2019



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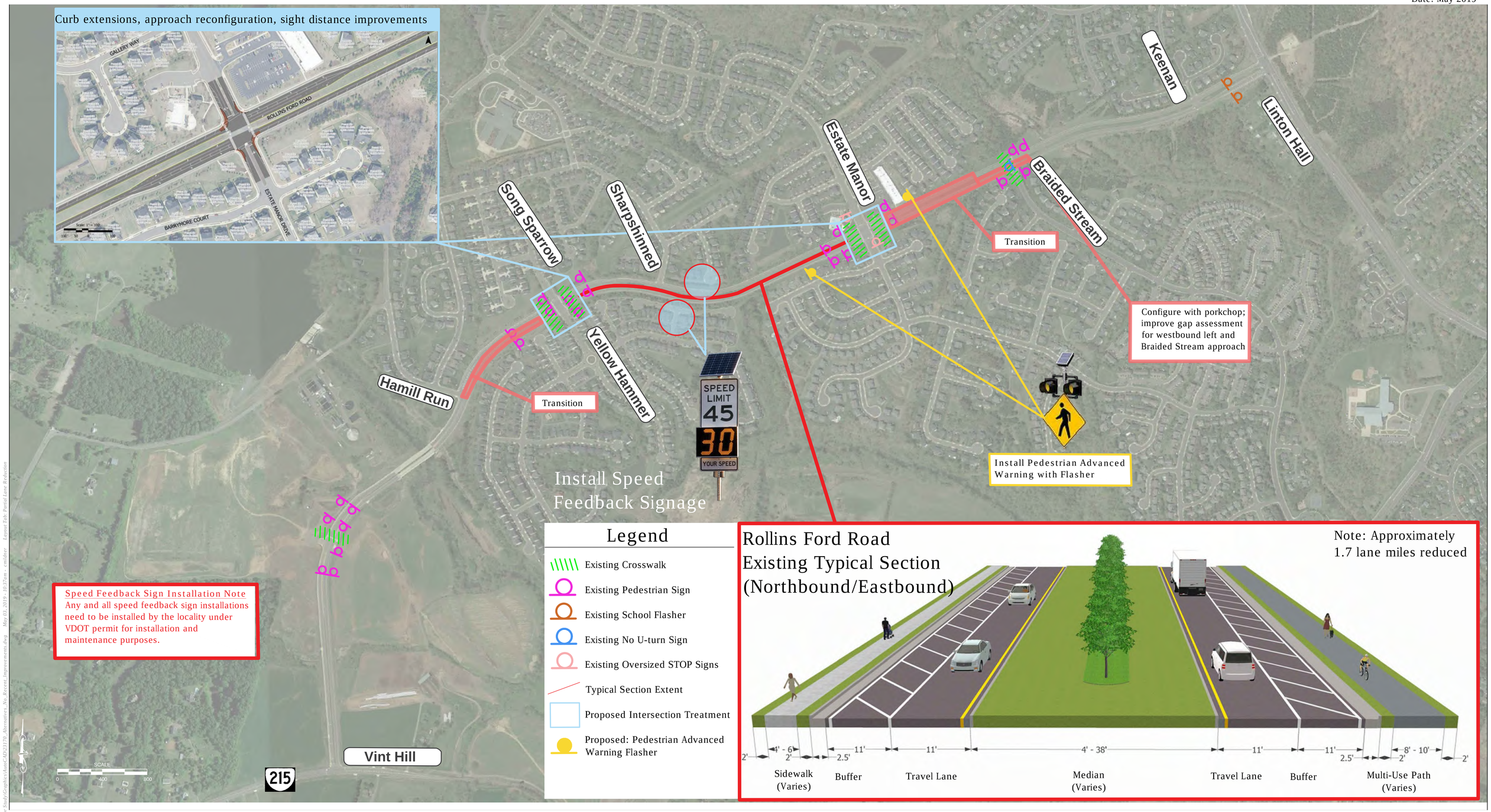
Prince William County, VA

Partial Lane Reduction Concept

Alternatives Development
Date: May 2019



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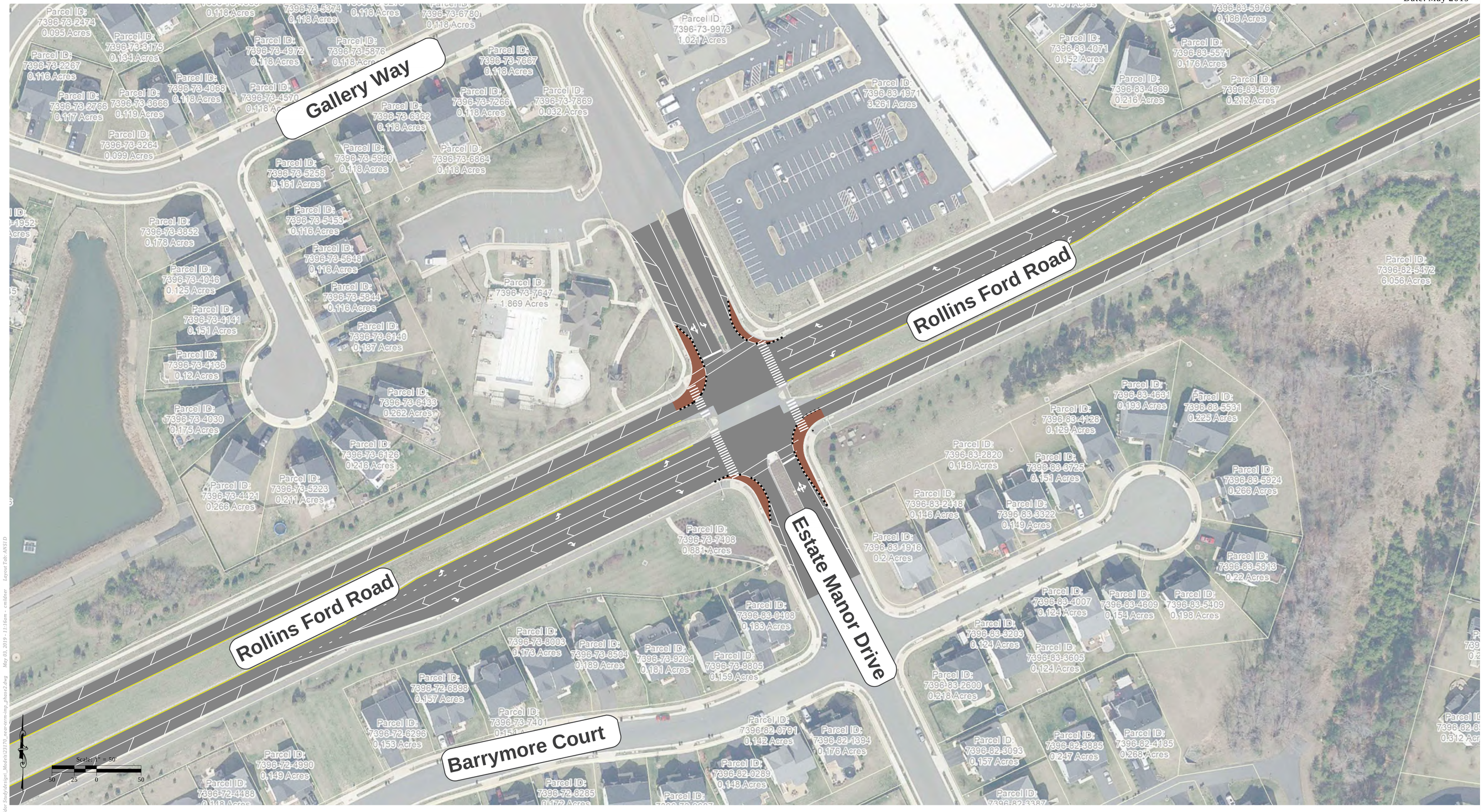
Prince William County, VA

Partial Lane Reduction Concept

Alternatives Development
Date: May 2019



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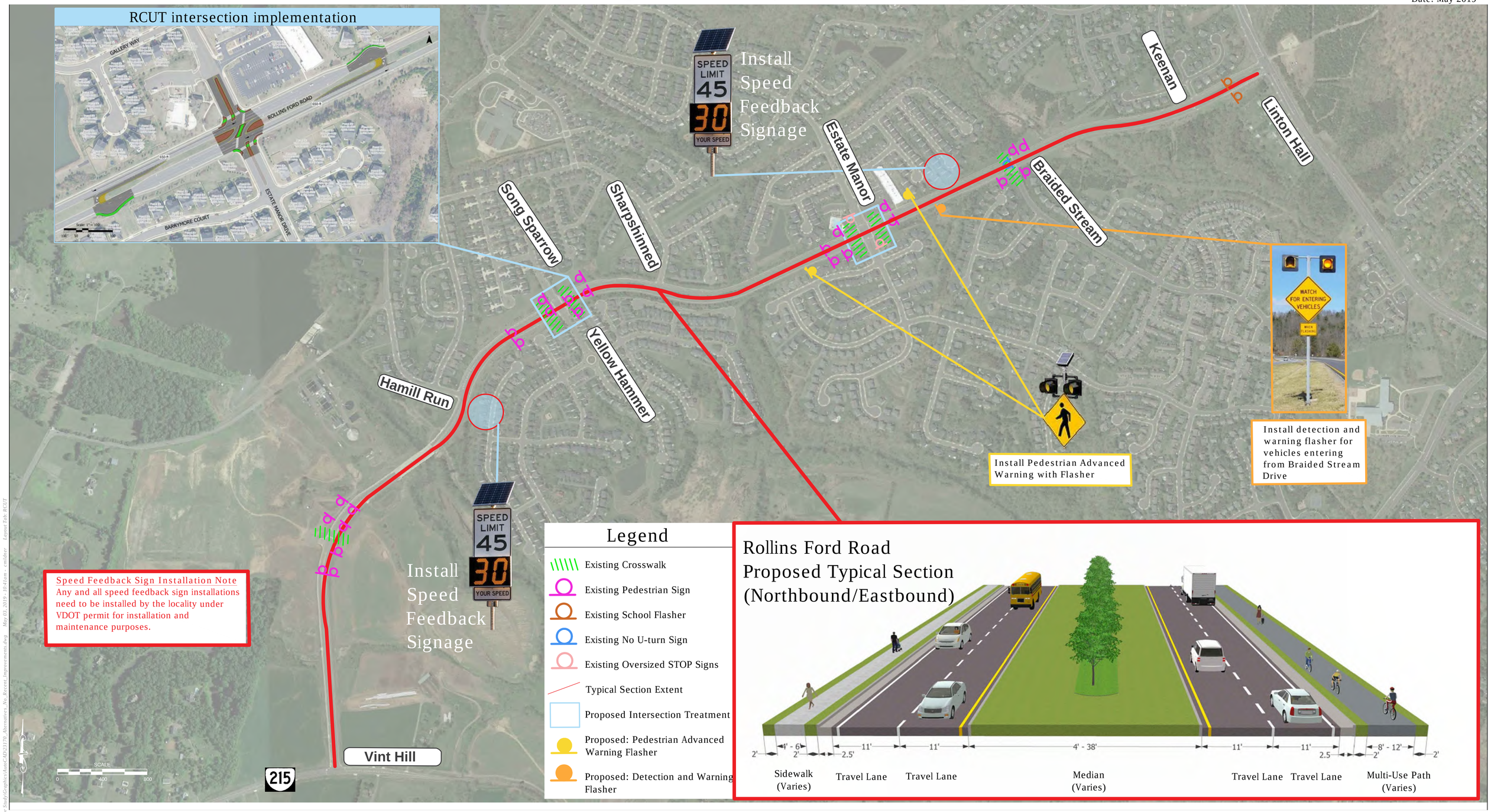
Innovative Intersection Restricted Crossing U-Turns (RCUT) Concept

Alternatives Development
Date: May 2019



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Prince William County, VA

Innovative Intersection Restricted Crossing U-Turns (RCUTs) Concept

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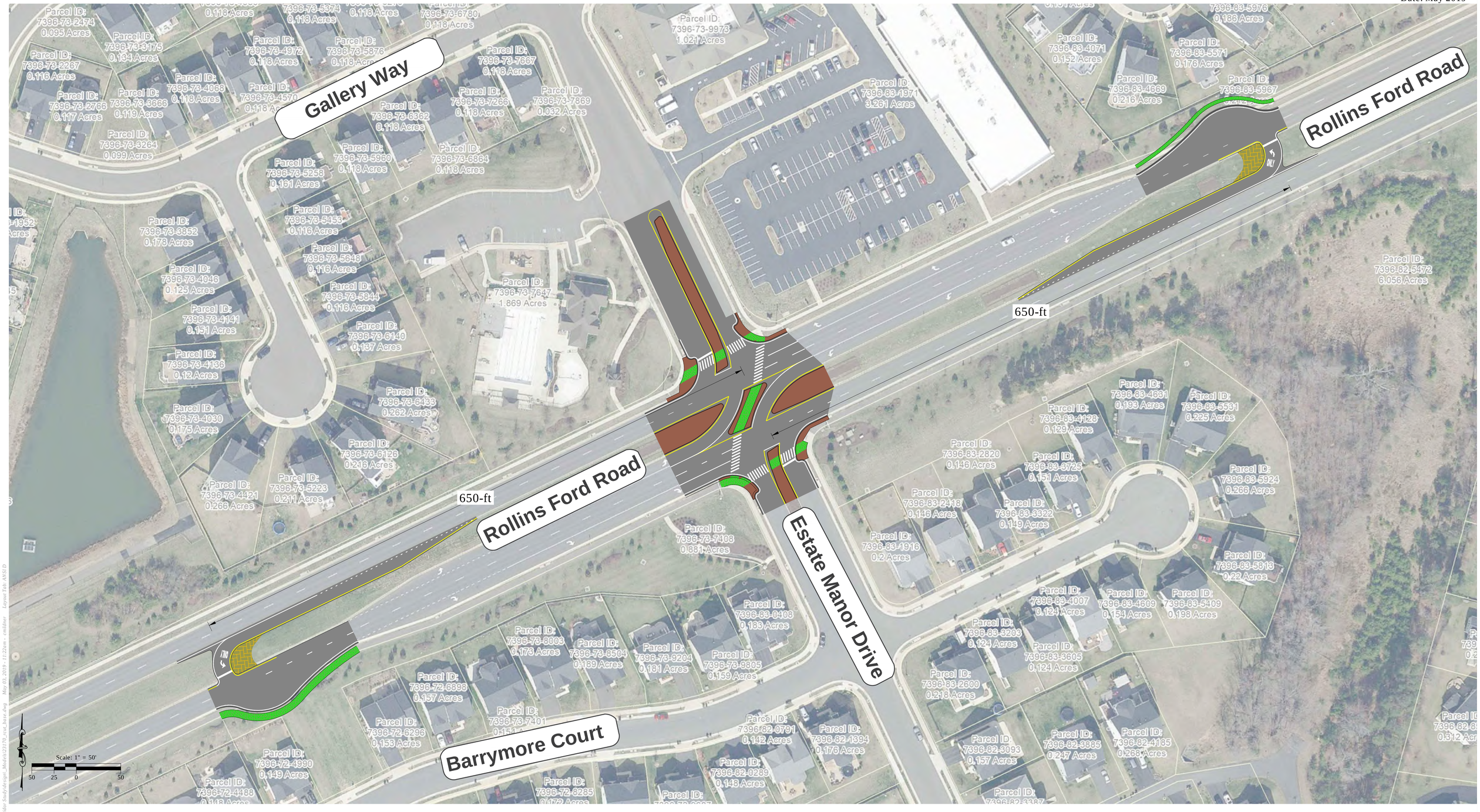
Date: May 2019



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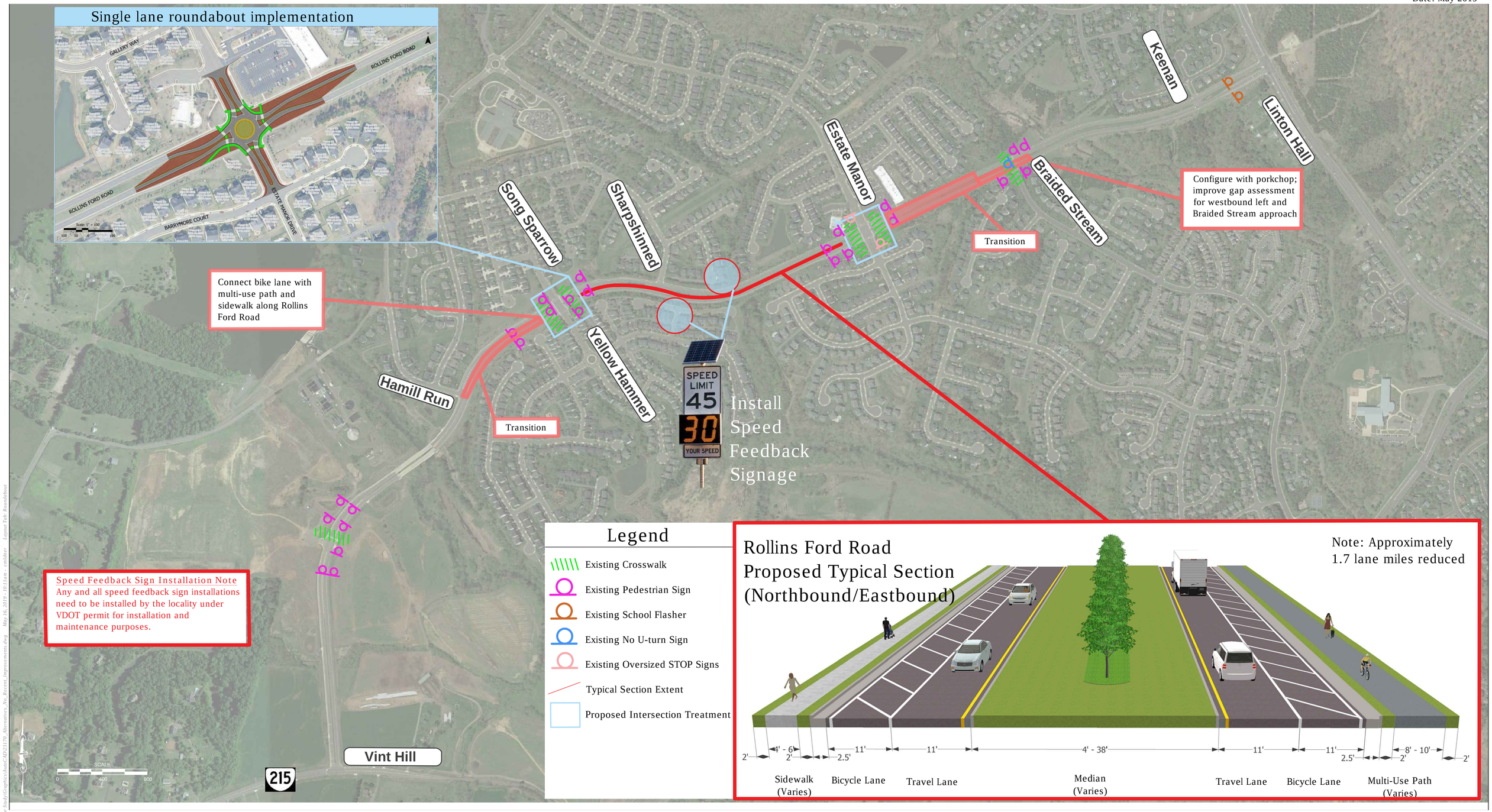
Innovative Intersection Single Lane Roundabout Concept

Alternatives Development
Date: May 2019



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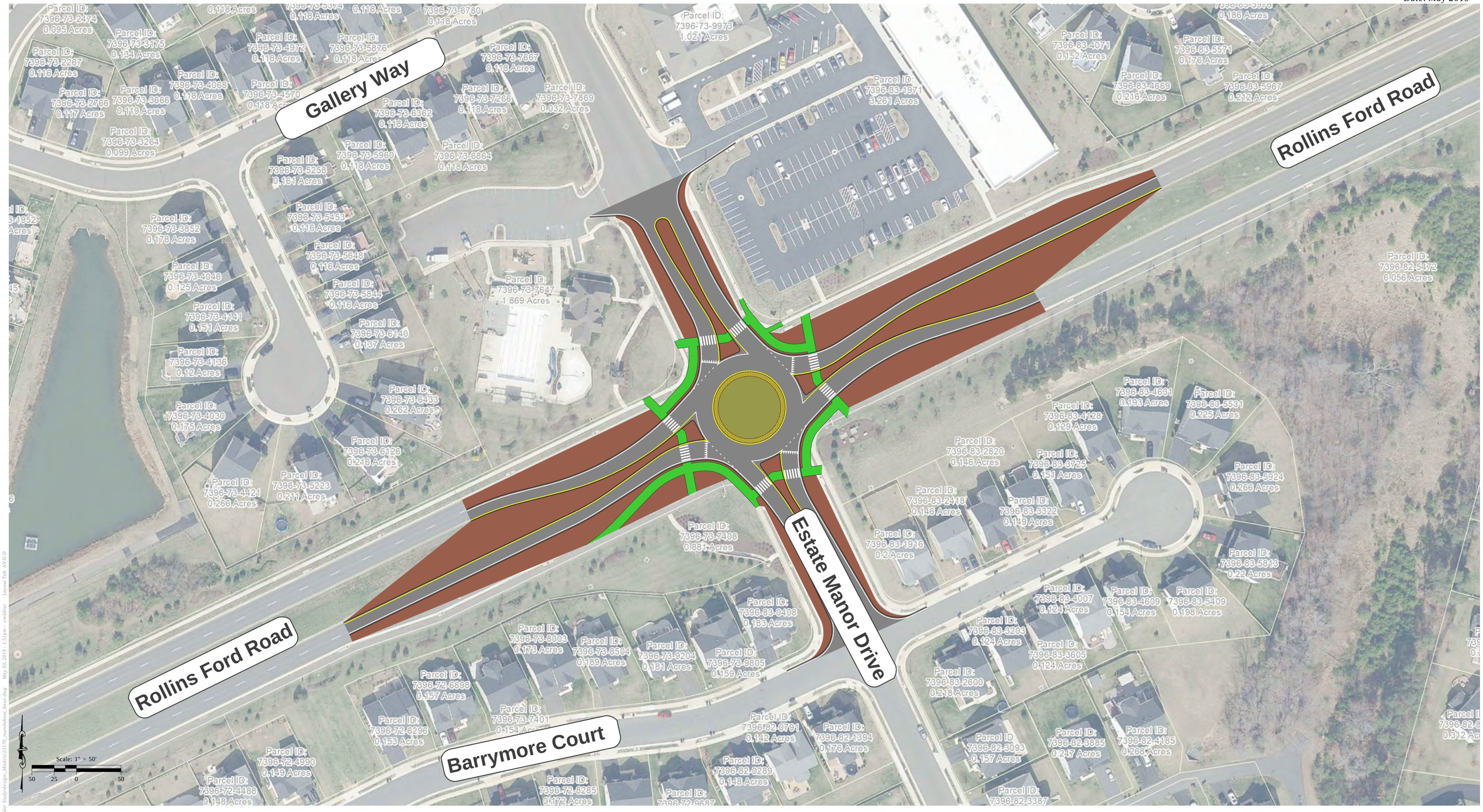
Innovative Intersection Single Lane Roundabout Concept

Alternatives Development
Date: May 2019



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Rollins Ford Road Corridor Study

Prince William County, VA

Concept Evaluation Matrix

Goal/Need	Metric	No Build	Pedestrian Crossing Enhancements Concept	Partial Lane Reduction Concept	Restricted Crossing U-turn Concept	Single Lane Roundabout Concept
Mitigating Speeding	Potential to influence change in speed	○	○	◐	○	●
Improve Bike/Ped mobility/safety	Features design elements to decrease ped/bike exposure/increase visibility	○	◐	◐	◐	●
Improve vehicular safety	Potential CMF[1] of proposed change[2]	○	○	◐	◐	●
Maintain travel time reliability	Estimated change in travel time	●	●	◐	●	◐
Advance cost-feasible solutions	Preliminary Cost Estimate	--	$	$$	$$$	$$$$
Short-term implementation	Estimated time needed for implementation[3]	--				

[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.

(cost in 2019 dollars)

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

$ < $500 thousand
$$ $500 thousand - $1 million
$$$ $1 million - $3 million
$$$$ >$3 million

~6 months – 1 year
~1 year – 2 years
~2 years – 5 years

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