

# South Central Kent County Circulation & Sufficiency Update

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Dover/Kent County MPO PAC Meeting

04/10/2025



# Agenda

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- Project Purpose & Study Area
- Existing Conditions & Data Review
- Analysis
- Recommendations



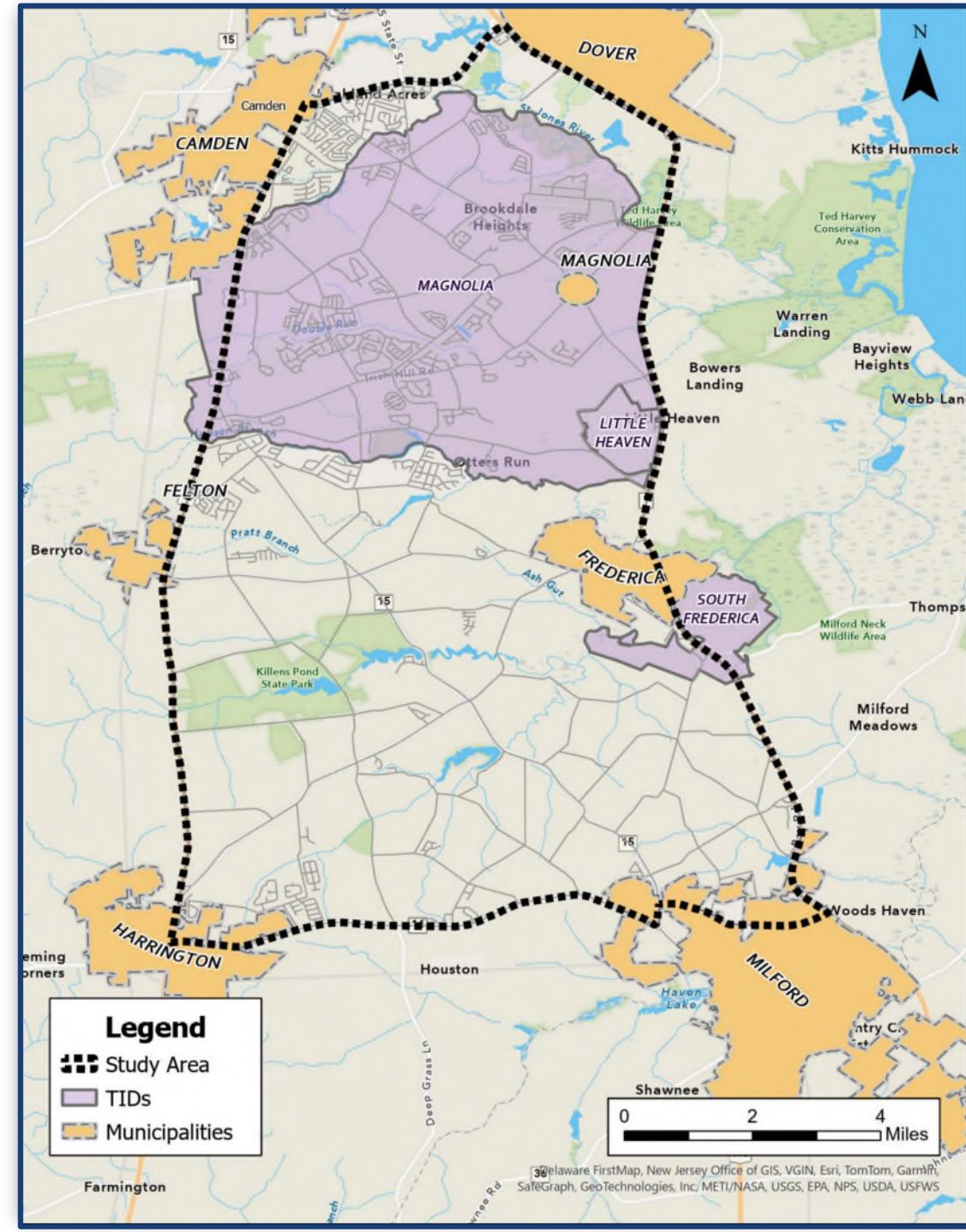
## South Central Kent County Circulation & Sufficiency Study 2025



# Project Purpose and Study Area

Evaluate the area roadways to develop recommendations for short-term (1-5 years) and medium-term (6-10 years) circulation improvements. Assess the potential need for:

- Roadway improvements
- Transit improvements
- Bike/pedestrian system improvements

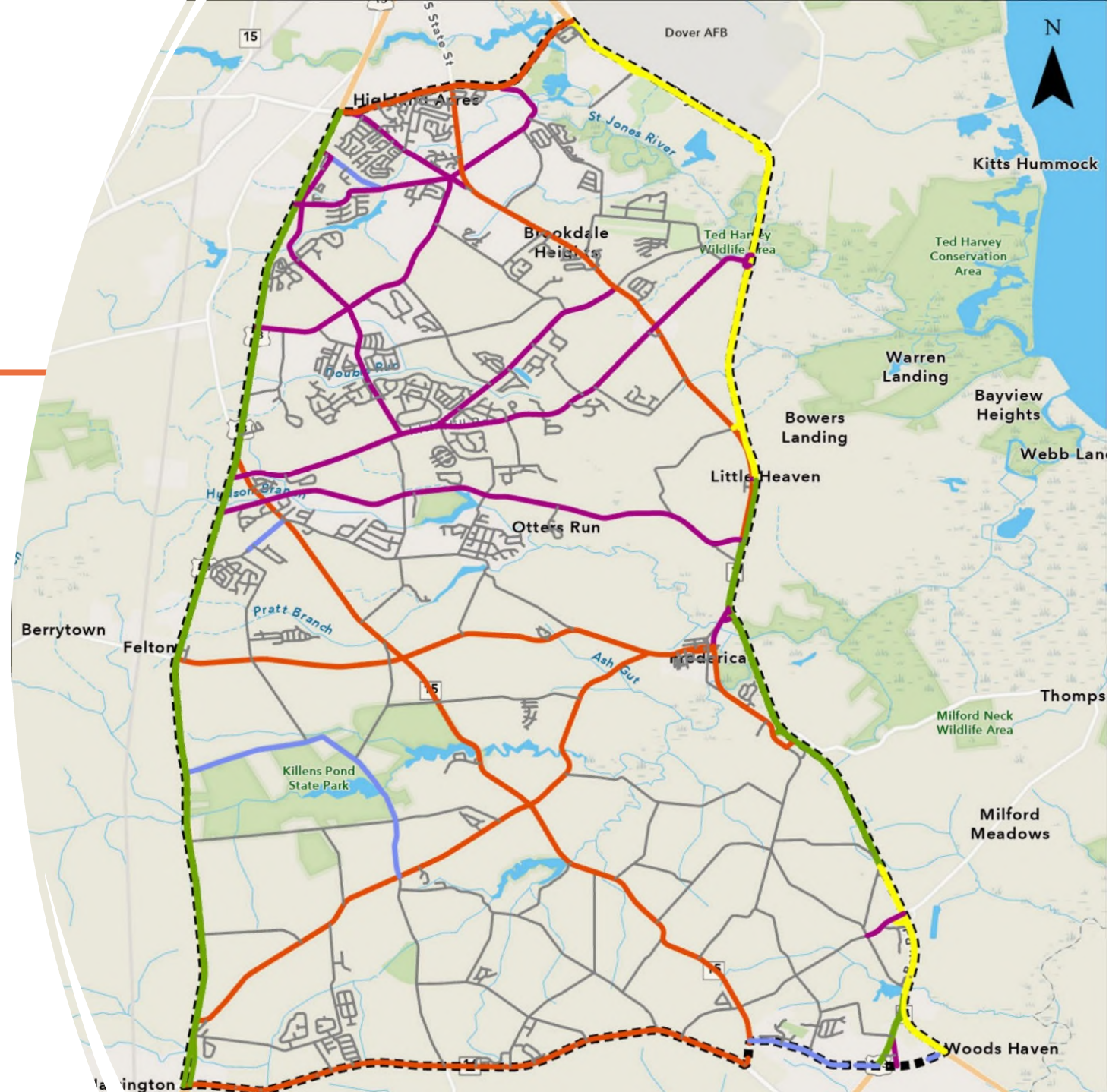




# Existing Conditions

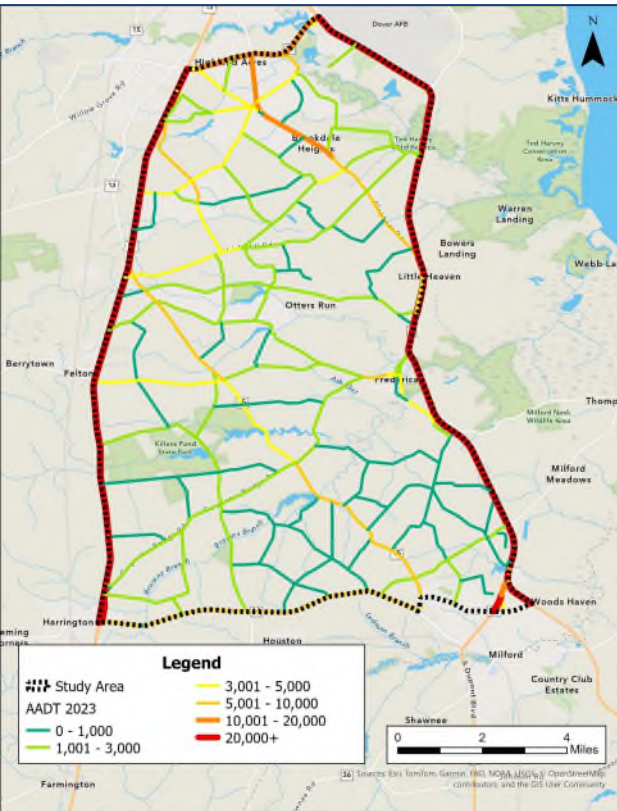
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- Roadway classification
- Signalized intersections
- Bicycle level of traffic stress
- Pedestrian facilities
- Transit locations
- Community facilities
- Freight routes





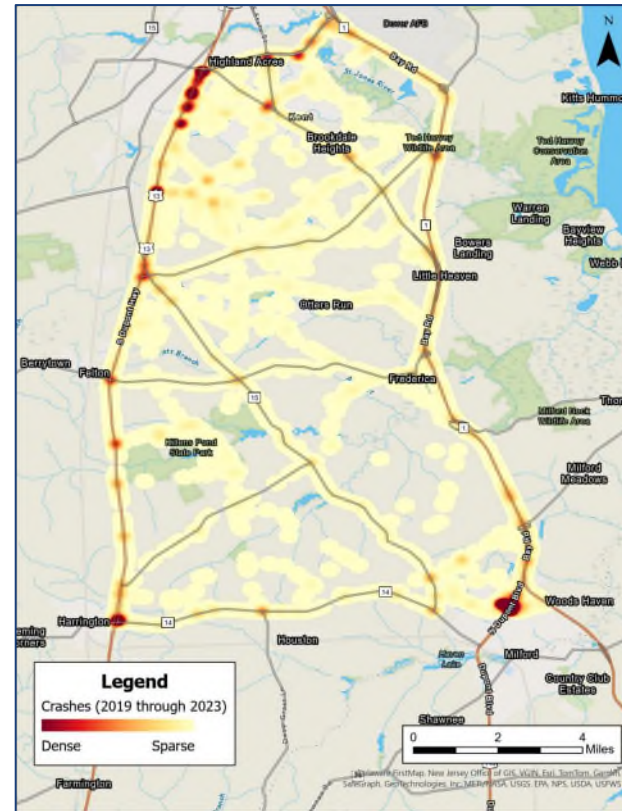
# Data Collection



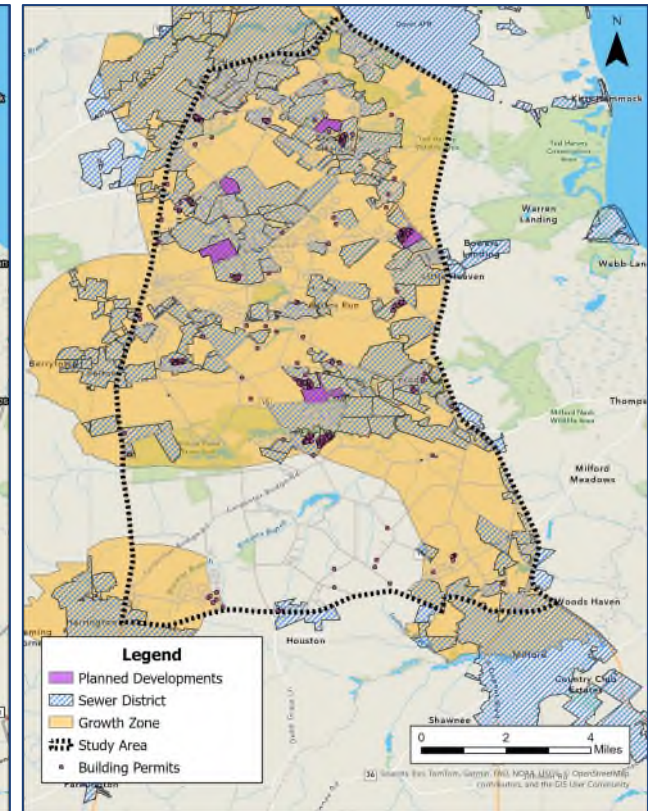
Travel Volumes



Bike/Ped Crash



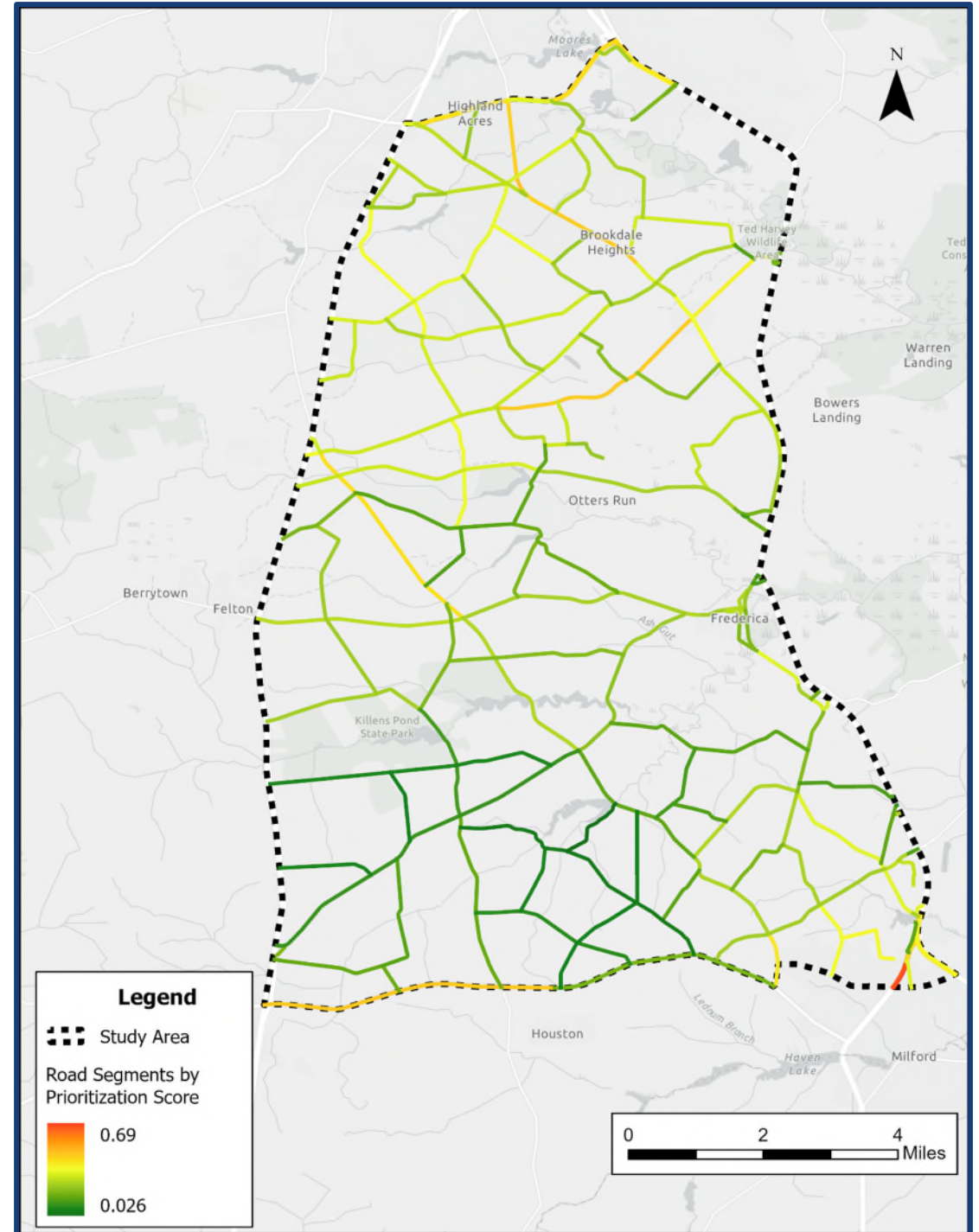
All Crash Hotspots



Development Activity

# Analysis

Factor	Layer	Layer Score	Factor Score
Safety	Crash Index	15.0%	25.0%
	HSIP Locations	10.0%	
System Operating	V/C Ratio	10.0%	20.0%
	AADT >= 10,000	10.0%	
Development	PLUS Level	5.0%	20.0%
	Permits by Block Group	2.5%	
	Planned Developments by Block group	2.5%	
	Within a Growth Zone	5.0%	
	Within a TID	5.0%	
Multimodal/Destinations	Bicycle LTS	5.0%	17.5%
	Pedestrian Network	5.0%	
	Transit Walksheds	5.0%	
	Freight Corridor	2.5%	
Equity/EJ	Low Income	2.5%	17.5%
	Disabilities	2.5%	
	L.E.P.	2.0%	
	Seniors	2.0%	
	Zero Car Households	5.0%	
	Minority	2.0%	
	Flood Risk	1.5%	
Total			100%



# Recommendations

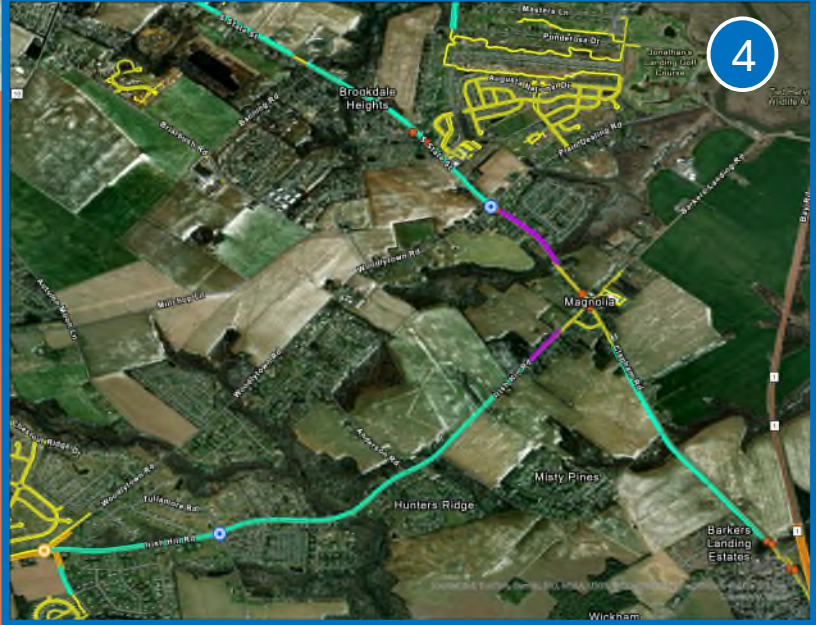
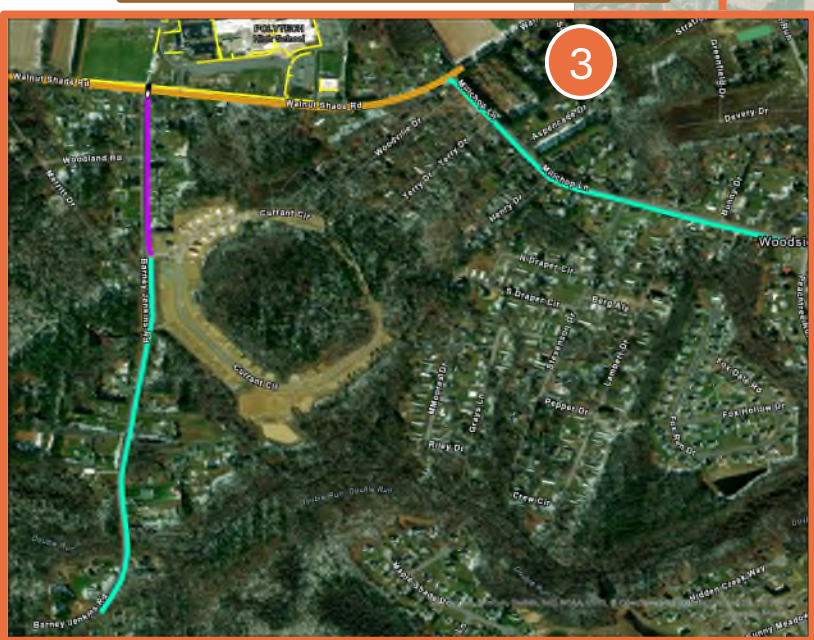
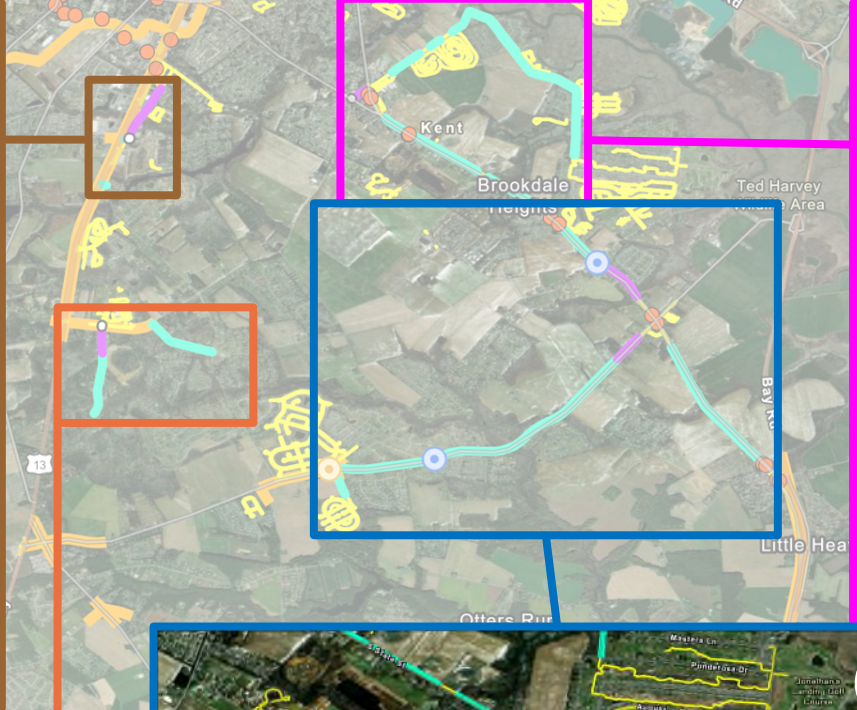
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- Bicycle and Pedestrian
- Roadway
- Other Recommendations



Bicycle and Pedestrian Improvements:

- 1) Peachtree Run and Mifflin Meadows
- 2) S. State and Cypress Branch
- 3) Barney Jenkins and Millchop
- 4) Magnolia Area
- 5) Airport Road





# Recommendations

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- Bicycle and Pedestrian
- Roadway
- Other Recommendations

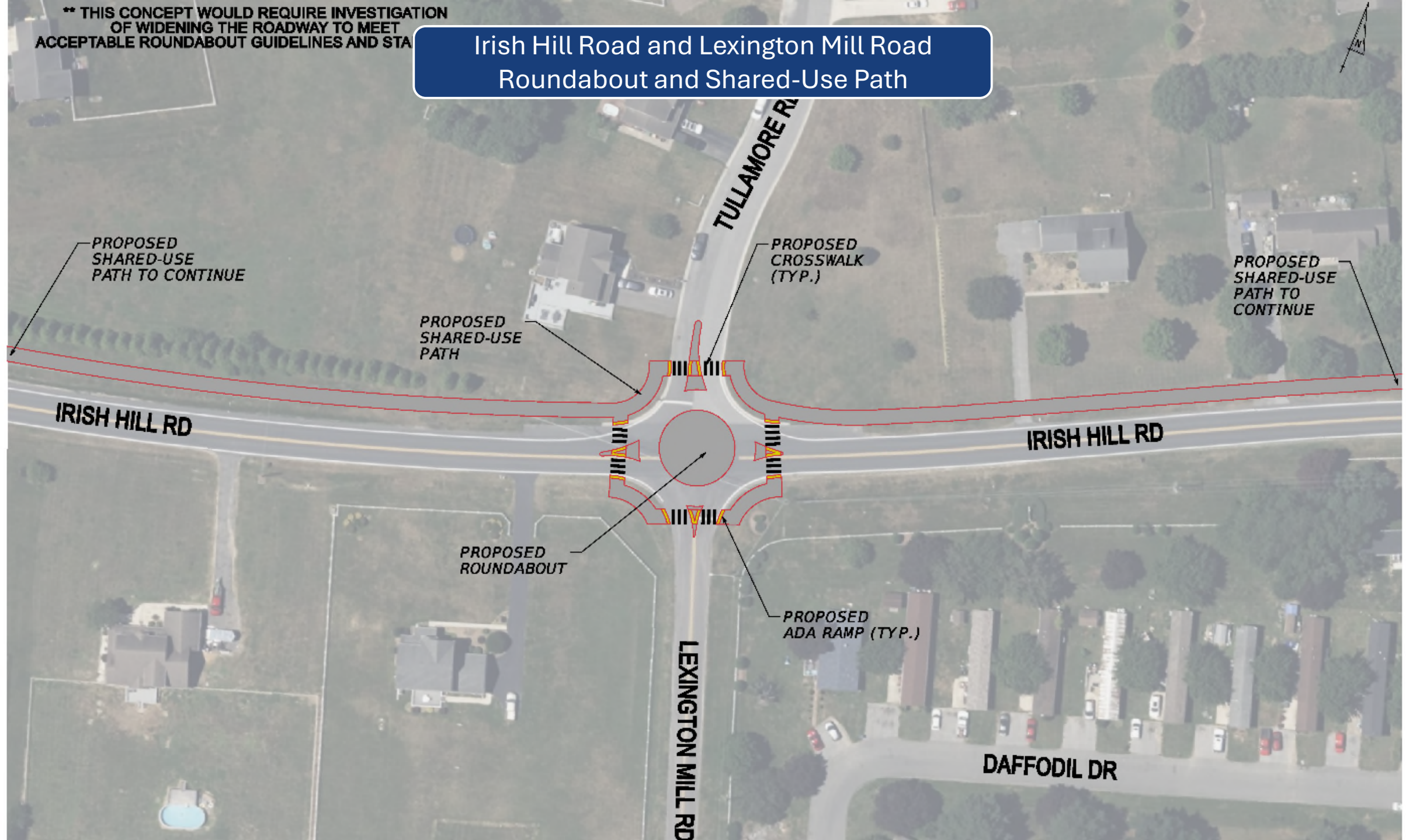
## Sorghum Mill Road Sidewalk and Crossing





**\*\* THIS CONCEPT WOULD REQUIRE INVESTIGATION  
OF WIDENING THE ROADWAY TO MEET  
ACCEPTABLE ROUNDABOUT GUIDELINES AND STA**

# Irish Hill Road and Lexington Mill Road Roundabout and Shared-Use Path



PROPOSED  
SHARED-USE  
PATH TO CONTINUE

PROPOSED  
SHARED-USE  
PATH

PROPOSED  
CROSSWALK  
(TYP.)

PROPOSED  
SHARED-USE  
PATH TO  
CONTINUE

IRISH HILL RD

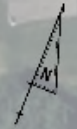
IRISH HILL RD

PROPOSED  
ROUNDABOUT

PROPOSED  
ADA RAMP (TYP.)

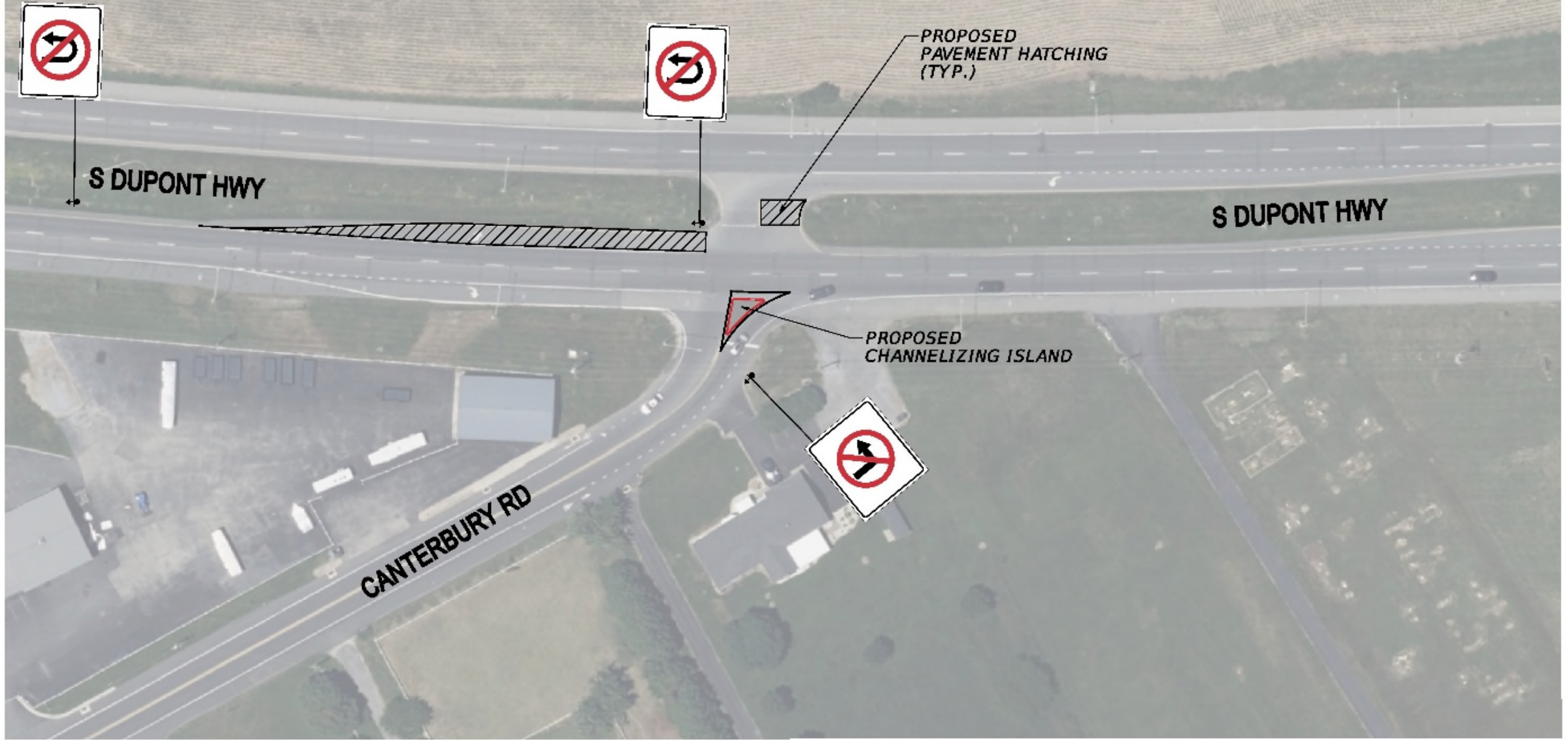
LEXINGTON MILL RD

DAFFODIL DR



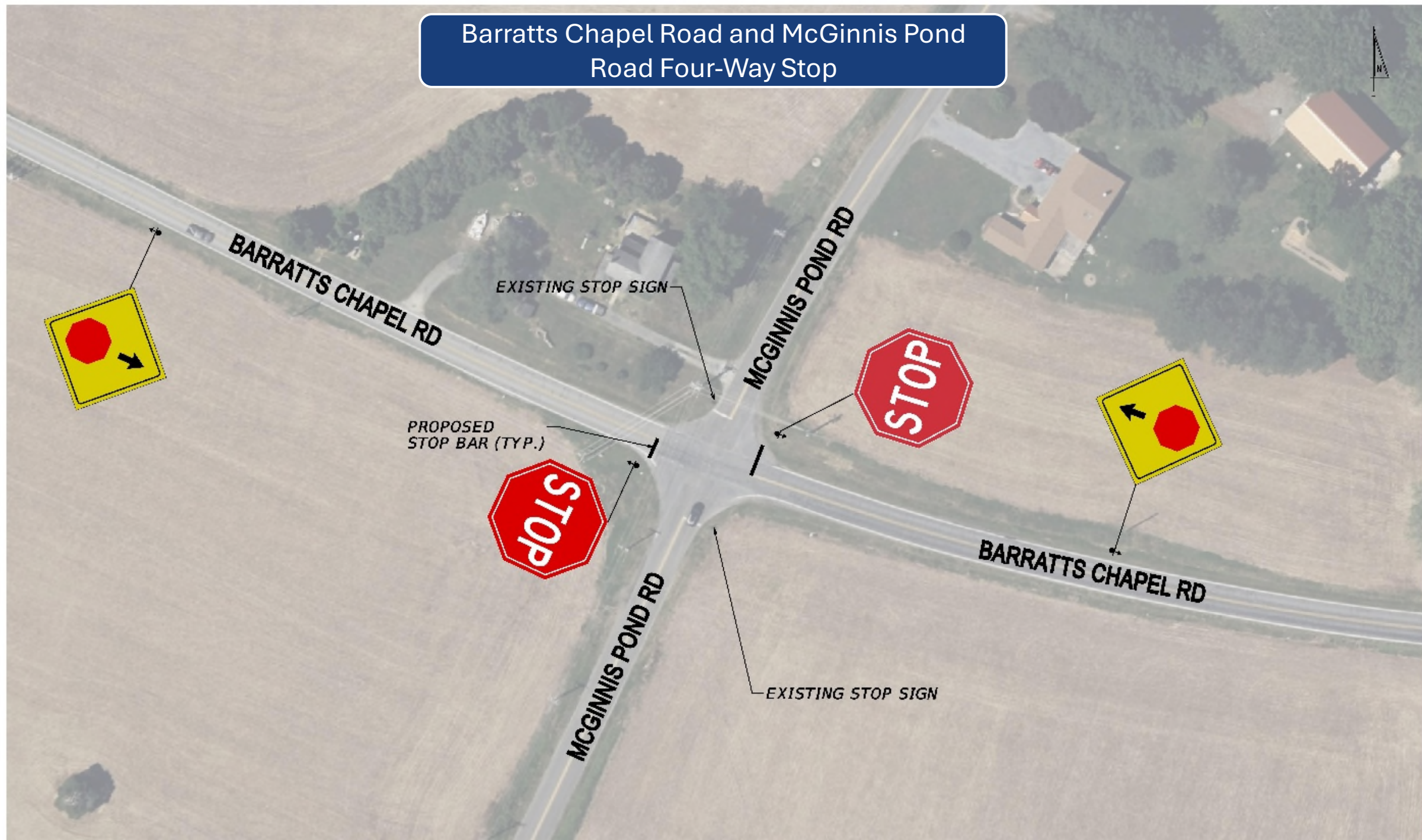


## Canterbury Road & S Dupont Highway



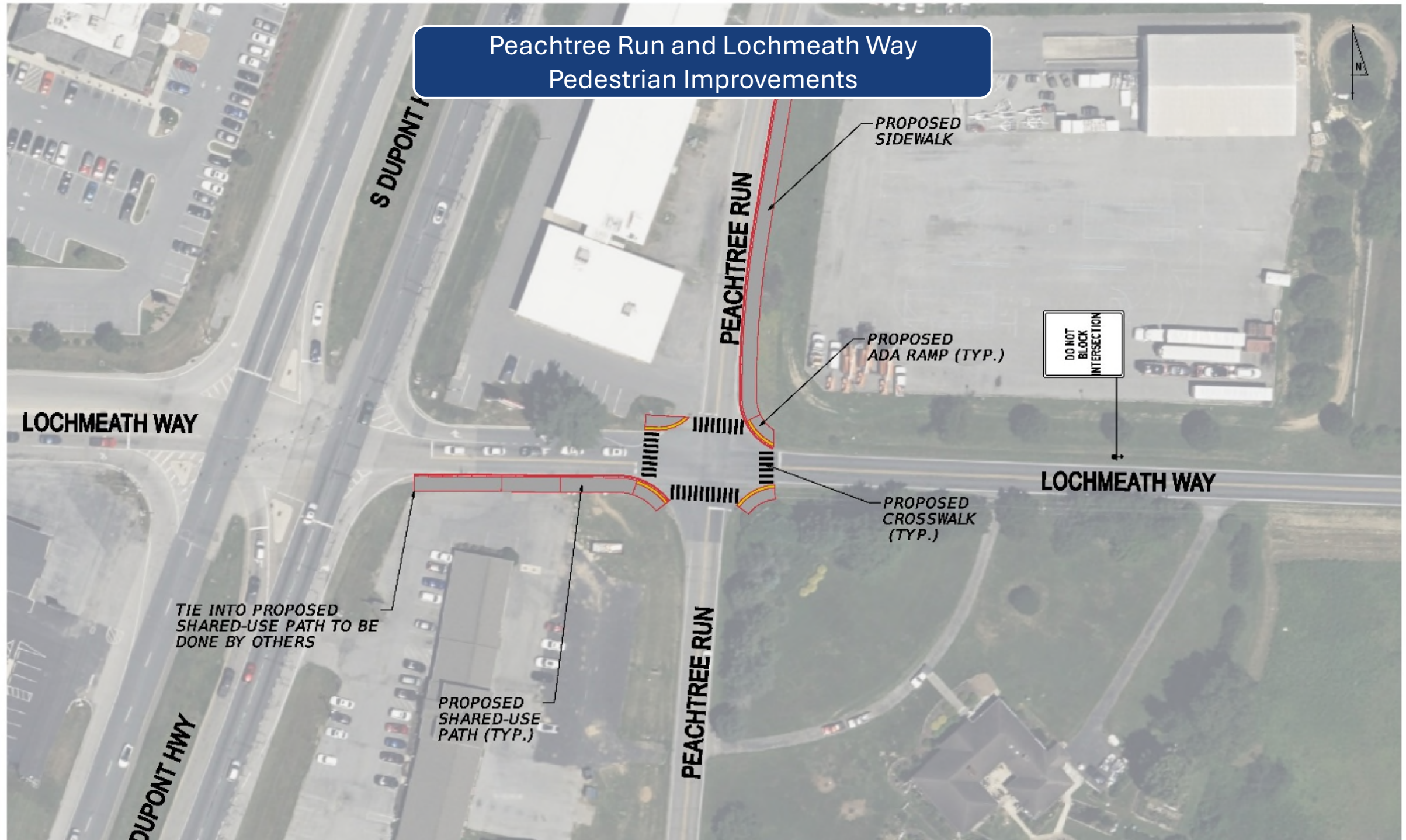


# Barratts Chapel Road and McGinnis Pond Road Road Four-Way Stop





# Peachtree Run and Lochmeath Way Pedestrian Improvements



PROPOSED  
SIDEWALK

PROPOSED  
ADA RAMP (TYP.)

DO NOT  
BLOCK  
INTERSECTION

PROPOSED  
CROSSWALK  
(TYP.)

TIE INTO PROPOSED  
SHARED-USE PATH TO BE  
DONE BY OTHERS

PROPOSED  
SHARED-USE  
PATH (TYP.)



# Recommendations

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- Bicycle and Pedestrian
- Roadway
- Other Recommendations

# Other Recommendations

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- SR10 Crossovers Striping
- Signal Timing Studies
- Pedestrian-scale Lighting
- Rectangular Rapid Flashing Beacons
- Rural Microtransit
- Safe Routes to School Program





# Questions or Comments?

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