SR 54 at Hudson Road Roundabout Project





Excellence in Transportation Every Trip.

We strive to make every trip taken in Delaware safe, reliable and convenient for people and commerce.

Every Mode.

We provide safe choices for travelers in Delaware to access roads, rails, buses, airways, waterways, bike trails and walking paths.

Every Dollar.

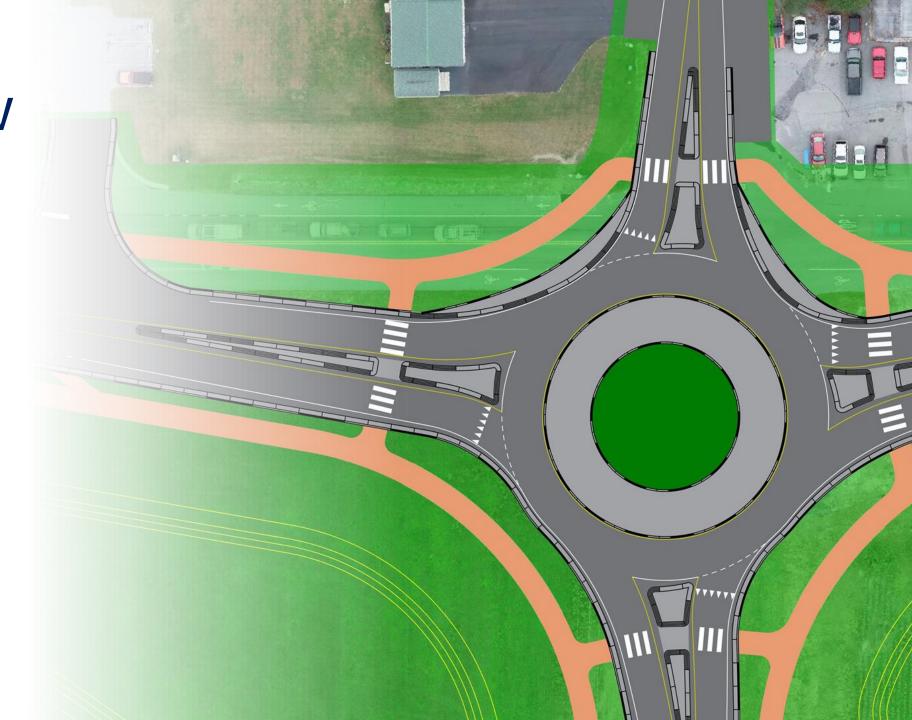
We seek the best value for every dollar spent for the benefit of all.

Everyone.

We engage our customers and employees with respect and courtesy as we deliver our services.



Project Initiation



- Project Initiation
- Project Location



- Project Initiation
- Project Location
- Current and Future Development



- Project Initiation
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- Current and Future Development
- Existing Conditions



- Project Initiation
- Project Location
- Current and Future Development
- Existing Conditions
- Preliminary Design

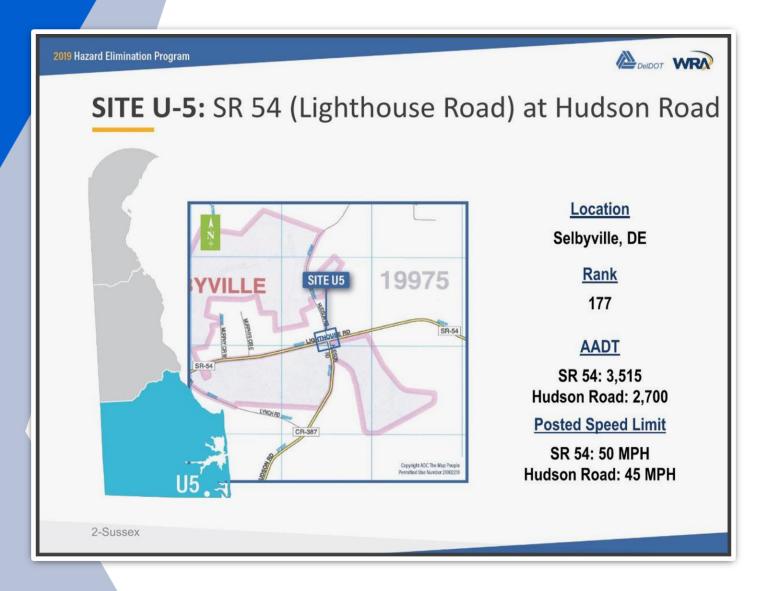


- Project Initiation
- Project Location
- Current and Future Development
- Existing Conditions
- Preliminary Design
- Important Design Elements



- Project Initiation
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- Important Design Elements
- Construction and MOT





2019 Hazard Elimination Program



HCM6 Roundabout Analysis

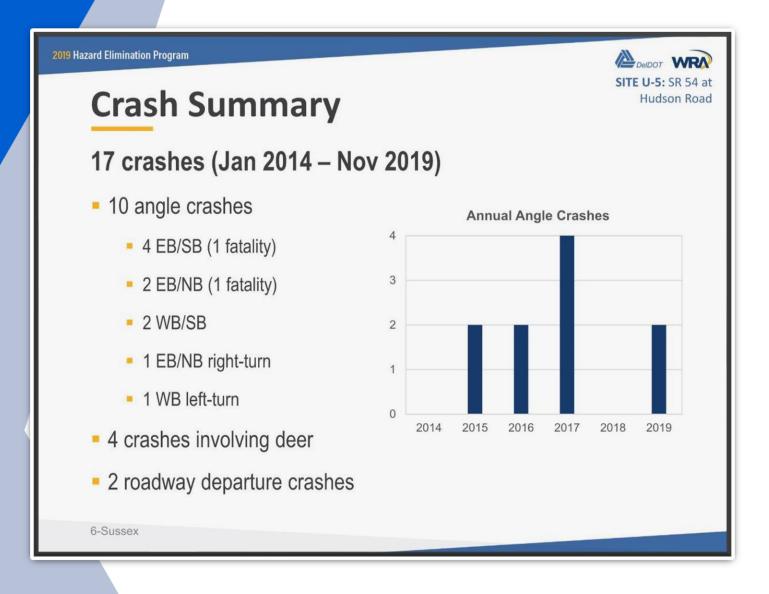
- Volumes include projected traffic for two future developments
- Sufficient capacity for local and summer traffic

AM Peak	Direction	Entry Volume	Entry Capacity	V/C Ratio		Percent Total Volume	
	NB	208	1050	0.20	Sufficient Capacity	44%	Balanced major-minor road flows, suitable location
	SB	226	1030	0.22			
	EB	256	990	0.26		56%	
	WB	298	1200	0.25			
PM Peak							
	NB	319	1050	0.30	Sufficient Capacity	46%	Balanced major-minor road flows, suitable location
	SB	196	960	0.20			
	EB	232	1030	0.23		54%	
	WB	362	1100	0.33			

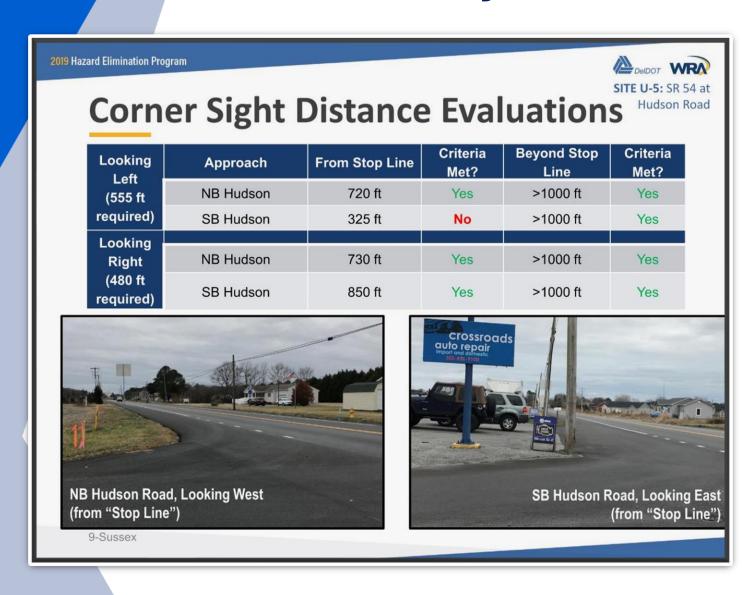
2019 Hazard Elimination Program

Traffic studies

12-Sussex



- Traffic studies
- High frequency of angle crashes (59%)



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- Sight distance concerns

2019 Hazard Elimination Program



Preliminary Recommendations

 Consider Through Route Activated Warning System (TRAWS) along SR 54 as step-wise improvement prior to AWSC

- Project nomination for roundabout
 - Previously recommended by DelDOT Traffic Studies
 - Accommodates future growth
 - Developer contributions
 - Right-of-way constraints

13-Sussex

- Traffic studies
- High frequency of angle crashes (59%)
- Sight distance concerns
- Recommended short and long term safety improvements

Project Location



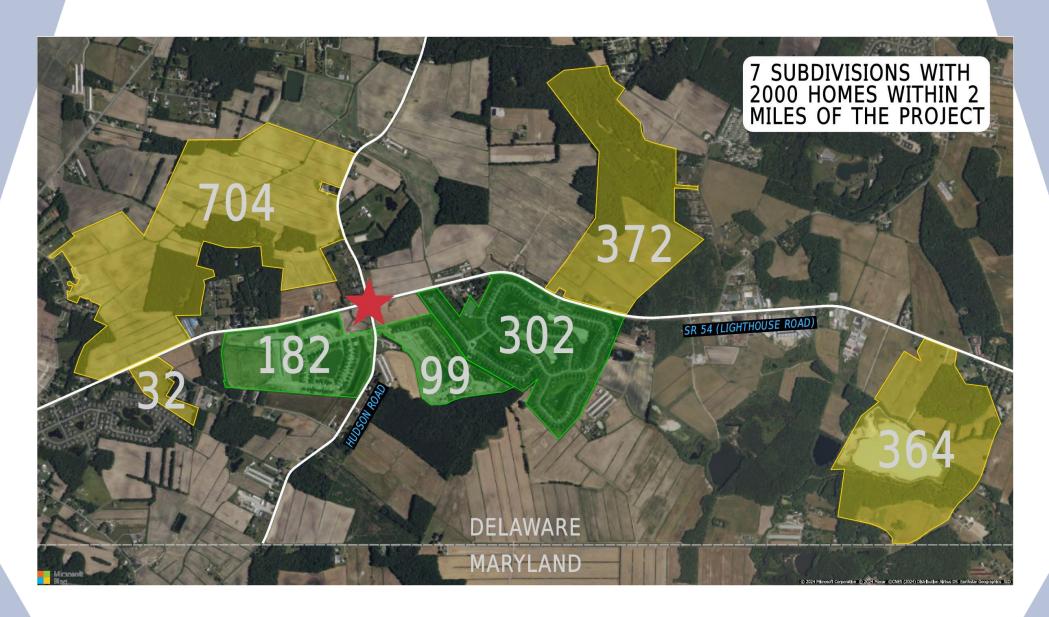
Project Location



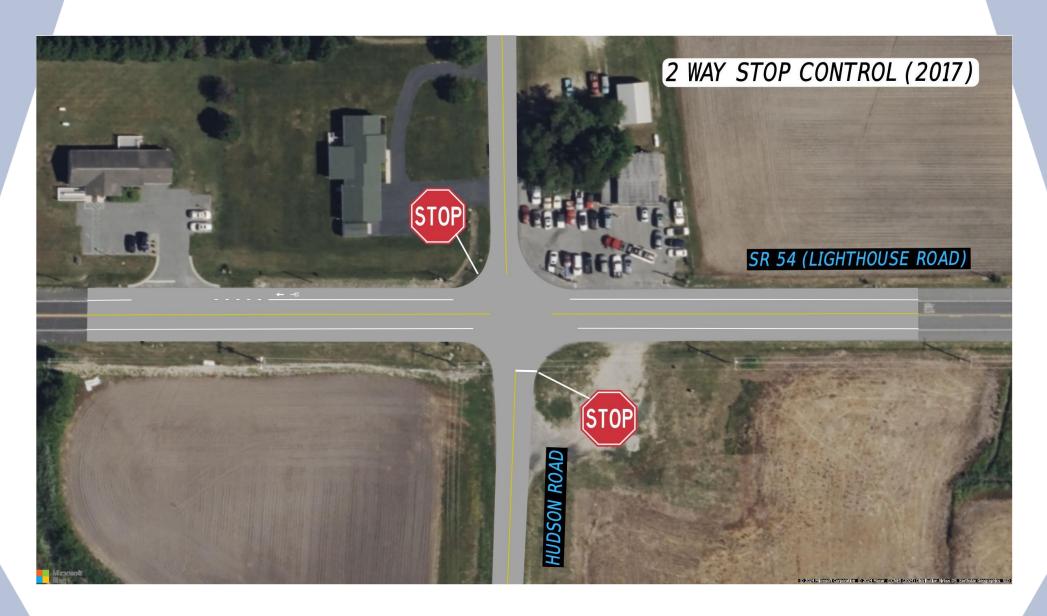
Development



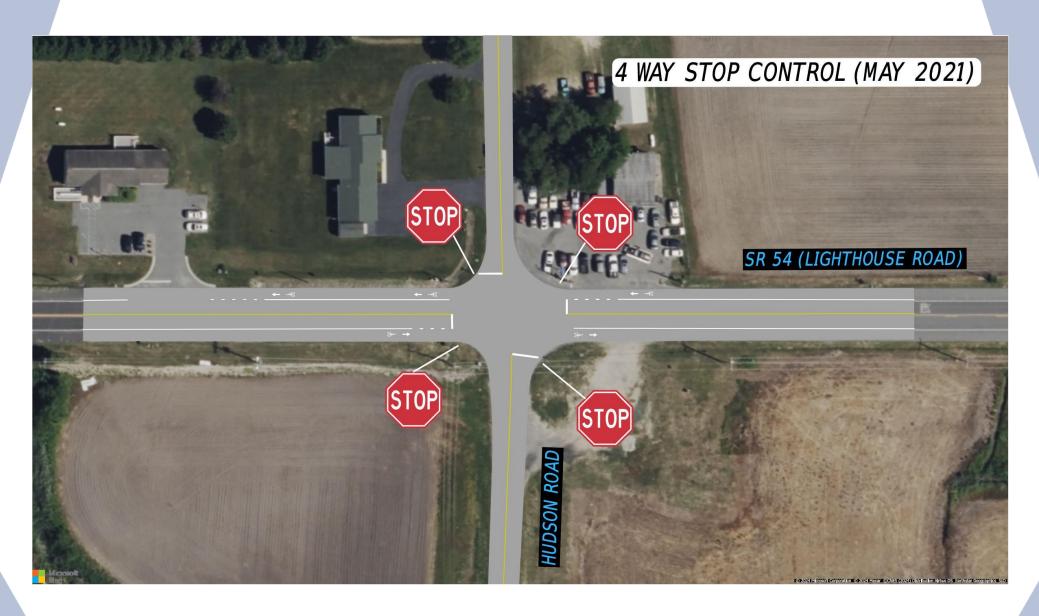
Development



Existing Conditions



Existing Conditions



Additional Crash Data

Preliminary Design



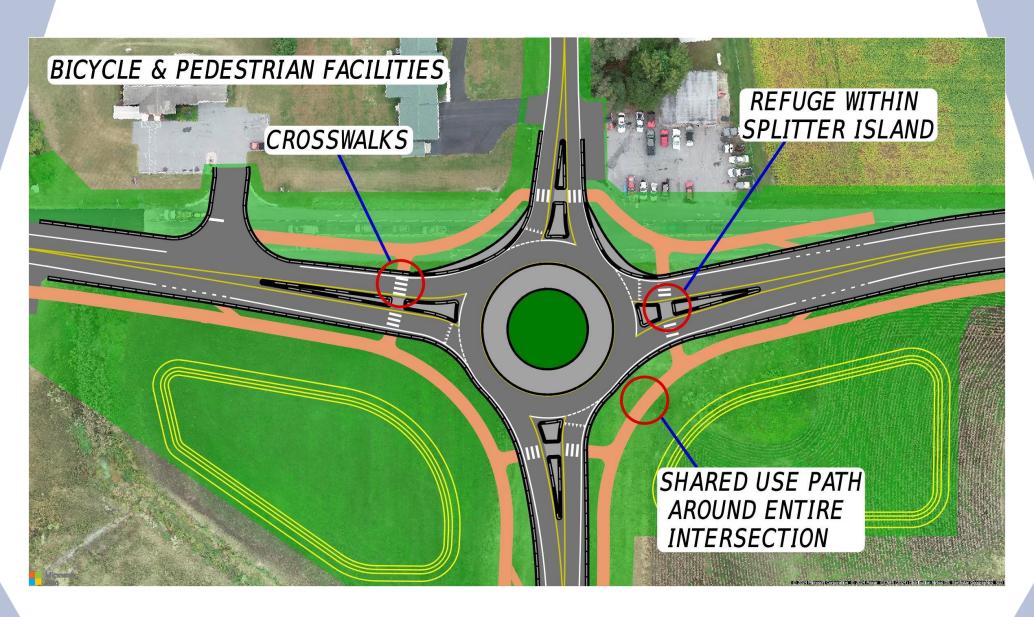
Preliminary Design

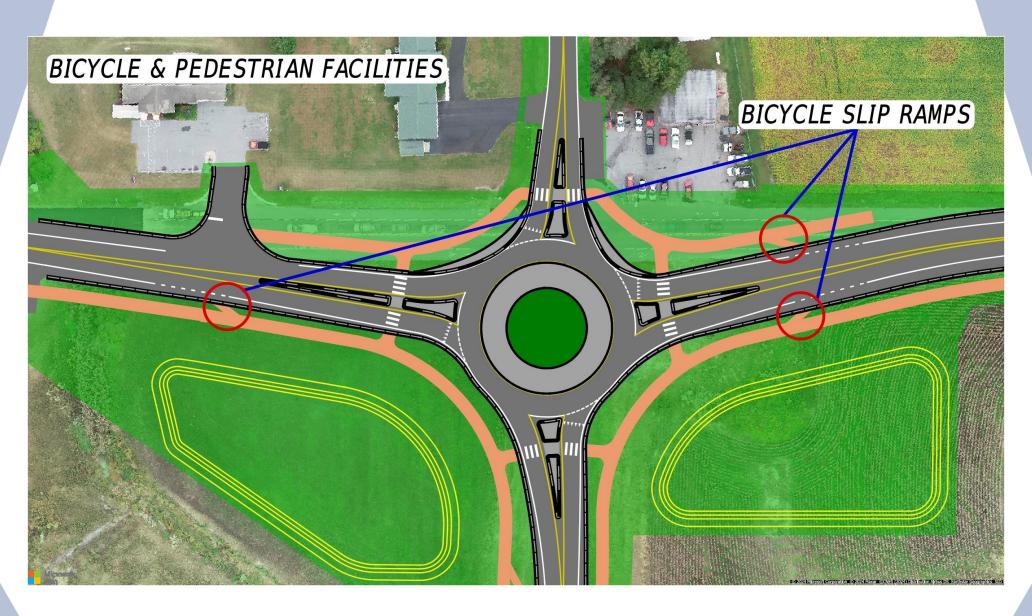






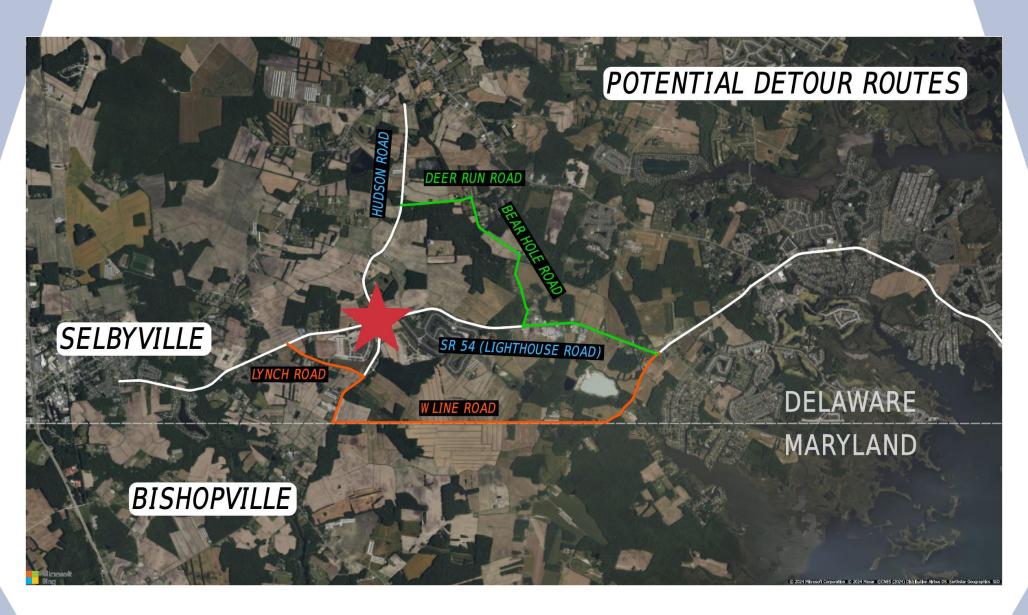








MOT During Construction



MOVING FORWARD

Project Schedule

May 2024 Public Workshop

August 2024 Semi-Final Plans

February 2025 Begin Right of Way Acquisition

• June 2026 Final Construction Plans

October 2026 PS&E

Estimated Construction Duration = 6 months









THARKYOU

Max Stong

Project Development South

Email: max.stong@delaware.gov











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