

SR1 and Trap Shooters Road Planning Study

Public Workshop #1
Existing Conditions



January 23, 2023



How to Participate

- How Can I Participate in this Workshop?
 - You Can Listen Using Your Computer Speakers or by Calling in on Your Phone
- To Listen to the Audio Using Your Phone, Please Call:
 - Phone Number: 1 305 224 1968
 - Webinar ID: 869 8564 4765
 - Passcode: 942031
- All Attendees, Whether on the Phone or Using Computer Speakers, will be Joining this Session in Listen-Only Mode



- *9 - Raise Hand



- *6 - Unmute/Mute

To Ask A Question

During the Session, Please Type All Questions and Comments in the Q&A Box which is Located on the Bottom Bar at the Bottom of Your Screen. Move Your Mouse to the Bottom of the Screen and the Bar will Appear.



To Ask A Question

- If you cannot use the Q&A function, please email questions directly to:
- James.Galvin@doverkentmpo.org
- Each question will be reviewed by the moderator, and panelists will respond verbally to the questions that are chosen
- Specific questions may be answered directly within the Q&A function

Agenda

- Study Area
- Purpose and Need
- Work Plan
- Existing Conditions
- Current DeIDOT Efforts
- Schedule
- Questions



Study Area

- SR1
- Trap Shooter Road
- Barkers Landing Road



Poll Question #1

- What best describes you?
 - Elected Official
 - Government Official
 - Engineering Consultant
 - Local Resident
 - Other



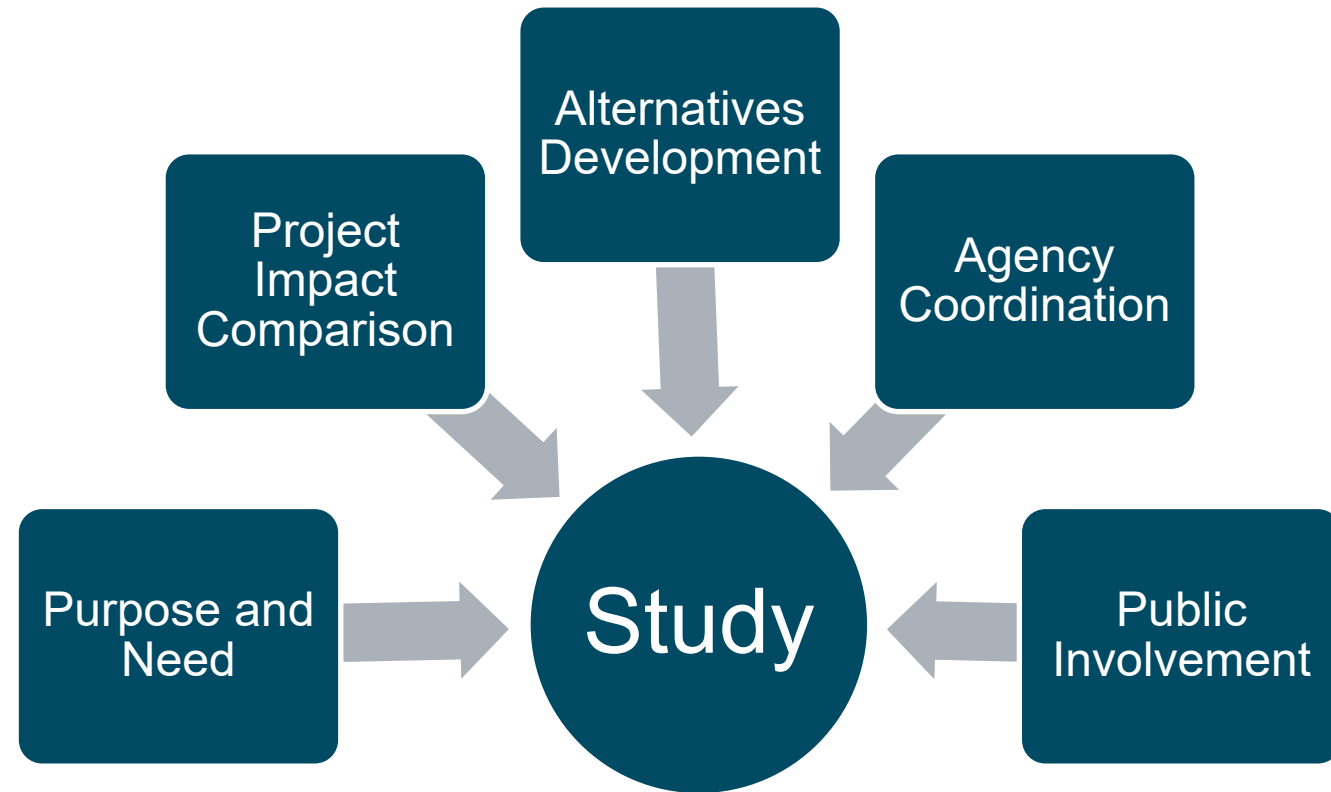
Poll Question #2

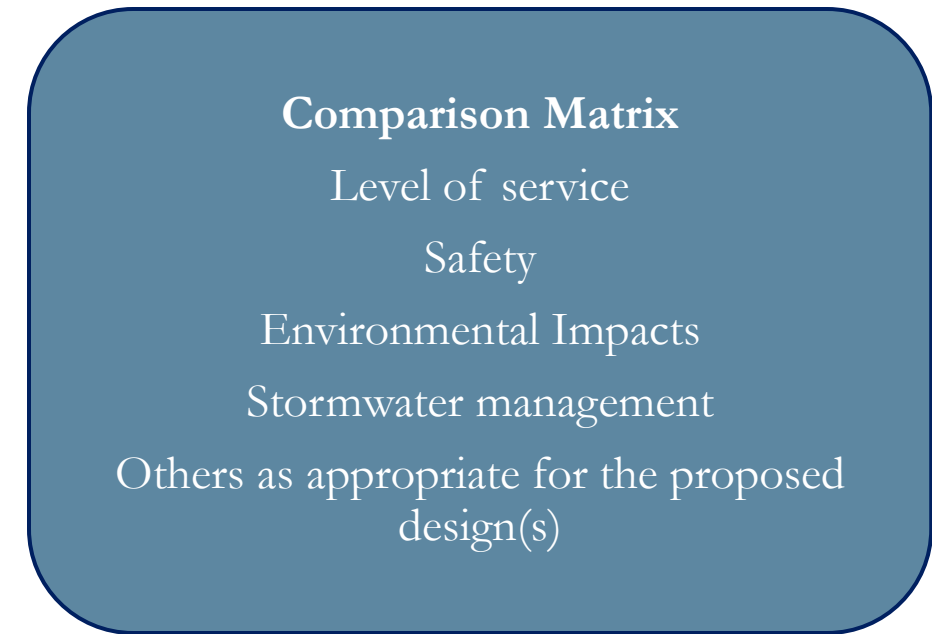
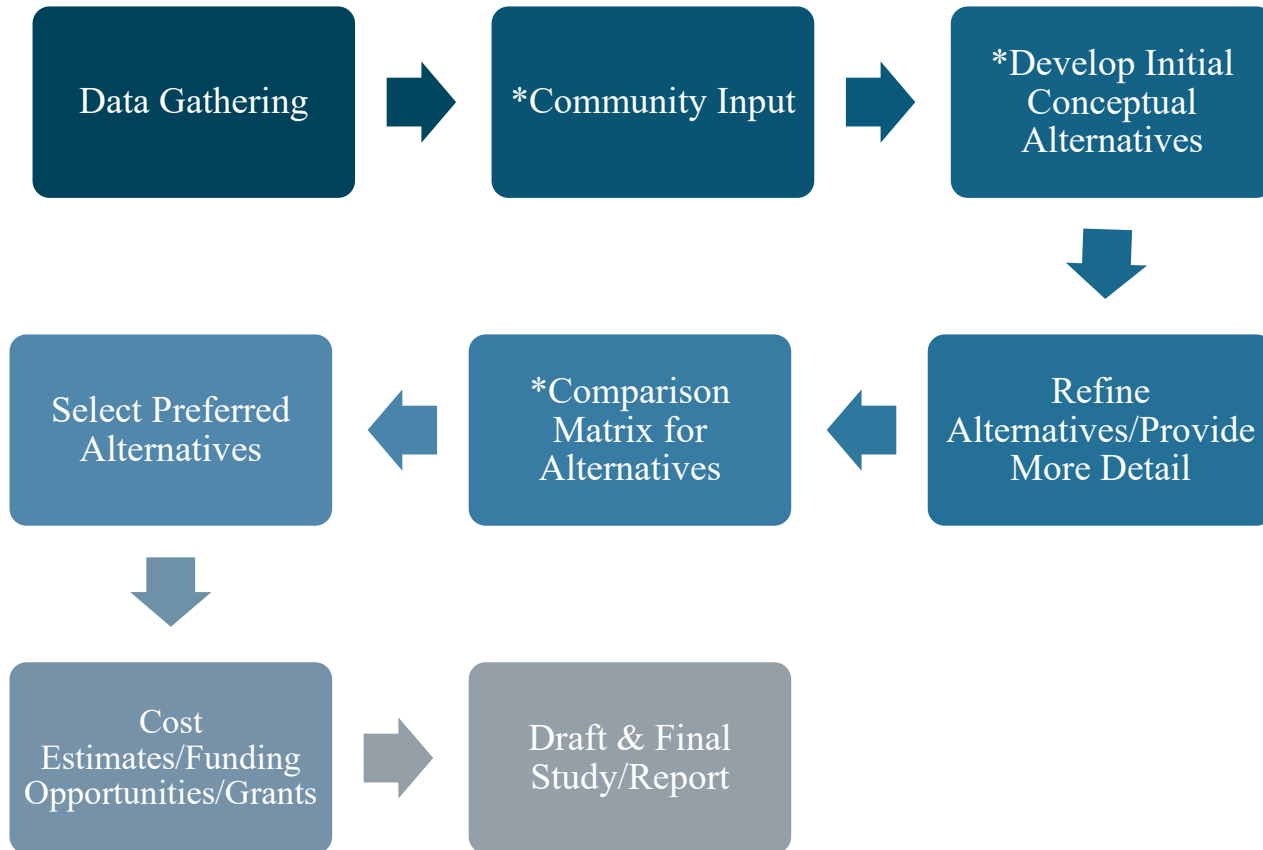
- What best describes where do you live?
 - Barkers Landing Road
 - Ponderosa Drive
 - Plaindealing Road
 - Jonathan's Landing
 - Church Creek
 - Magnolia area
 - South of Trap Shooters and Magnolia
 - Other



Purpose and Need

- Purpose
 - Improve safety and capacity at the intersection of SR1 and Trap Shooters Road
- Need
 - The intersection is experiencing high crash rates
 - The intersection reducing the overall capacity of SR1





Public Outreach (Continuous Throughout)

Existing Conditions



Existing Conditions



Poll Question #3

- How many times a week to you drive through this intersection?
 - 0
 - 1-5
 - 6-10
 - 11-15
 - >15



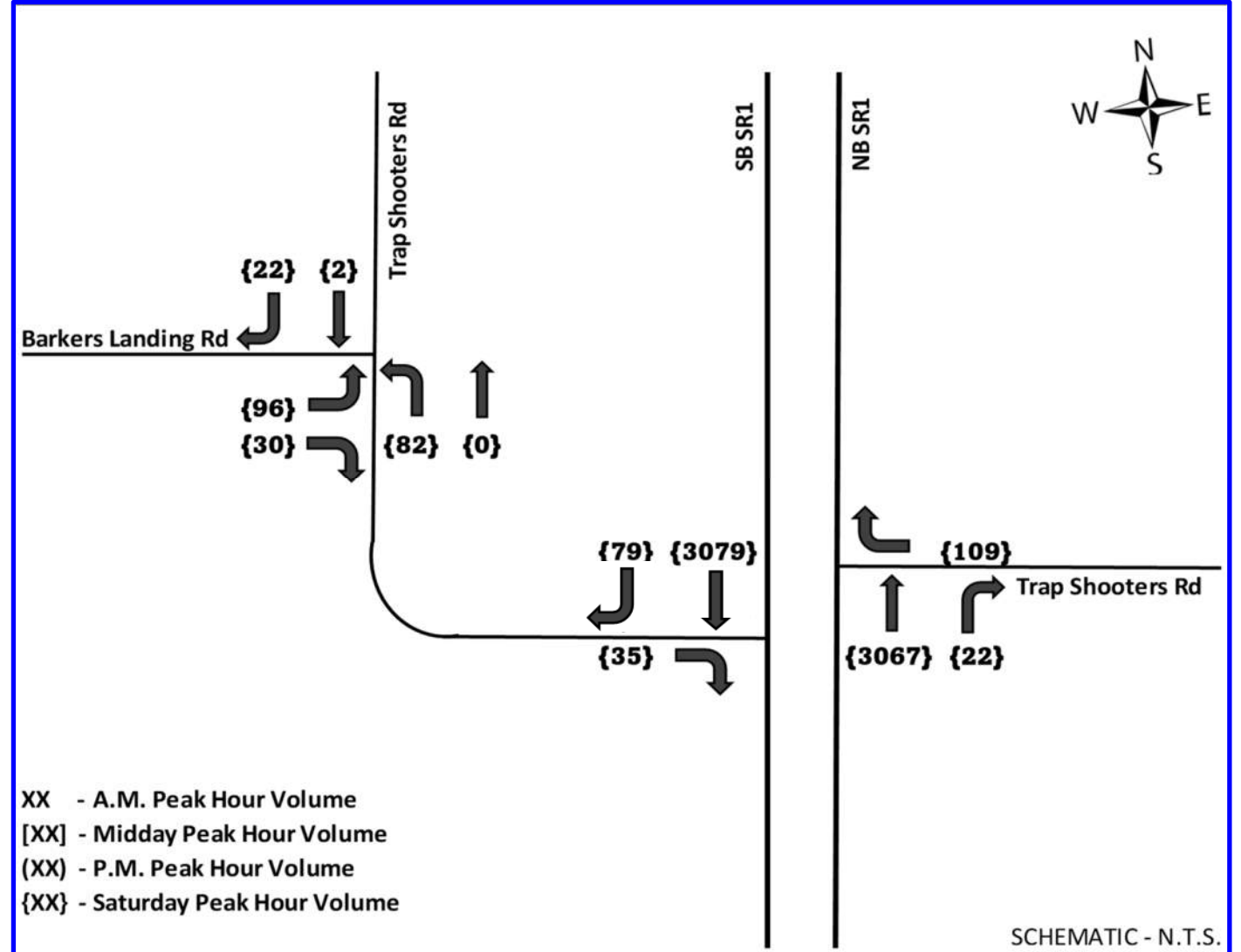
Existing Conditions

- Traffic Counts
 - Oct and Nov 2022
 - DeIDOT data was used to calculate Summer Saturday turning movement volumes



Existing Conditions

- Summer Saturday peak hour turning movements
- About ½ of the volumes during a weekday peak hour

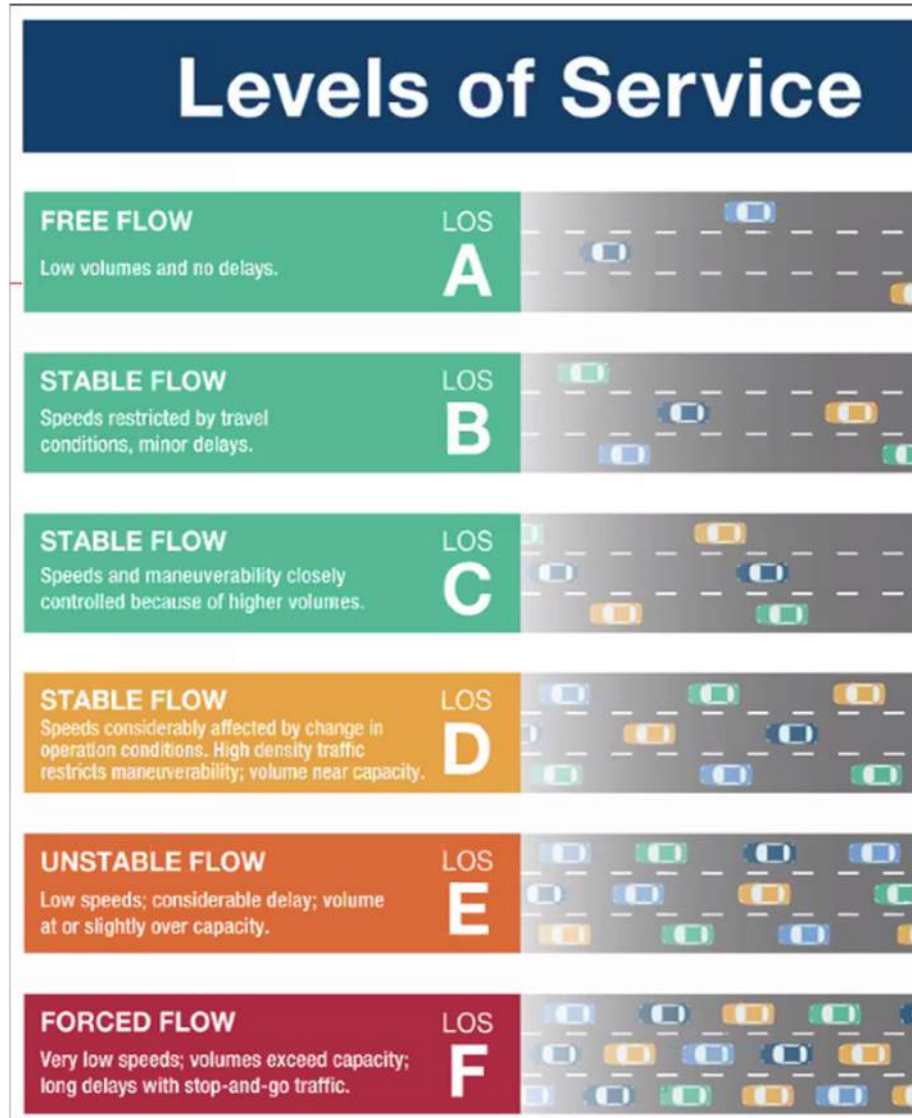


Existing Conditions

Level of Service (LOS)

What is it?

A measure of delay



Existing Conditions

SB SR1 and Trap Shooters Rd

Control Type	Movement	Measures of Effectiveness under Existing 2022 Traffic Conditions														
		Weekday AM			Weekday Midday			Weekday PM			Non-Summer Saturday			Summer Saturday		
		Delay (Sec)	LOS	95th % Queue (ft)	Delay (Sec)	LOS	95th % Queue (ft)	Delay (Sec)	LOS	95th % Queue (ft)	Delay (Sec)	LOS	95th % Queue (ft)	Delay (Sec)	LOS	95th % Queue (ft)
Two-Way Stop	EBR Trap Shooters Rd	17.4	C	15	16.4	C	8	27.6	D	15	21.5	C	13	93.5	F	53

NB SR1 and Trap Shooters Rd

Control Type	Movement	Measures of Effectiveness under Existing 2022 Traffic Conditions														
		Weekday AM			Weekday Midday			Weekday PM			Non-Summer Saturday			Summer Saturday		
		Delay (Sec)	LOS	95th % Queue (ft)	Delay (Sec)	LOS	95th % Queue (ft)	Delay (Sec)	LOS	95th % Queue (ft)	Delay (Sec)	LOS	95th % Queue (ft)	Delay (Sec)	LOS	95th % Queue (ft)
Two-Way Stop	WBR Trap Shooters Rd	87.6	F	198	16.9	C	23	27.1	D	38	35.6	E	70	301.4	F	213

Existing Conditions

- Crash Data
 - October 21, 2017, to October 31, 2022



Traffic Advisory State Police Investigating Serious
Crash- Magnolia

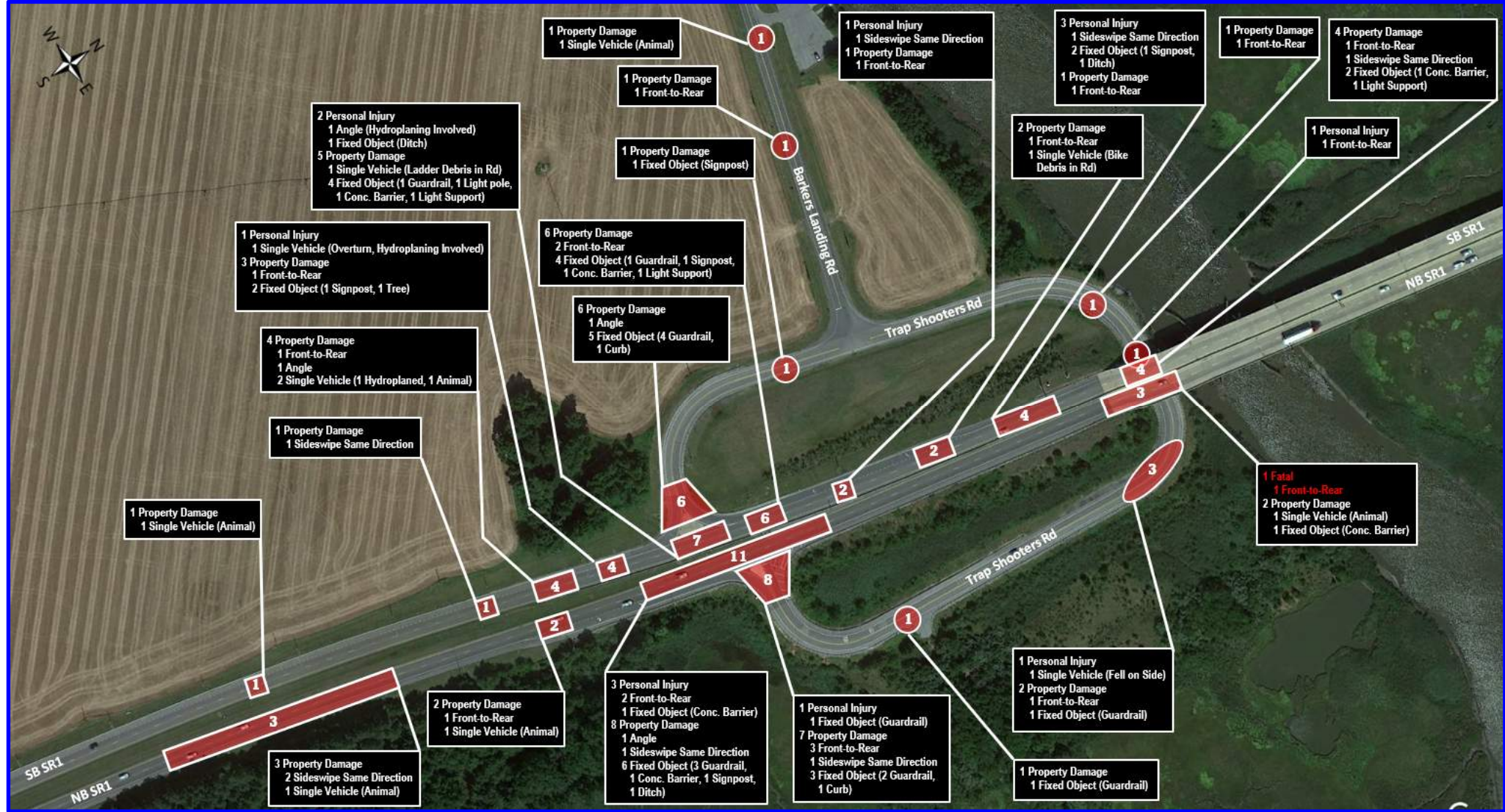
Date Posted: Saturday, July 10th, 2021



Poll Question #4

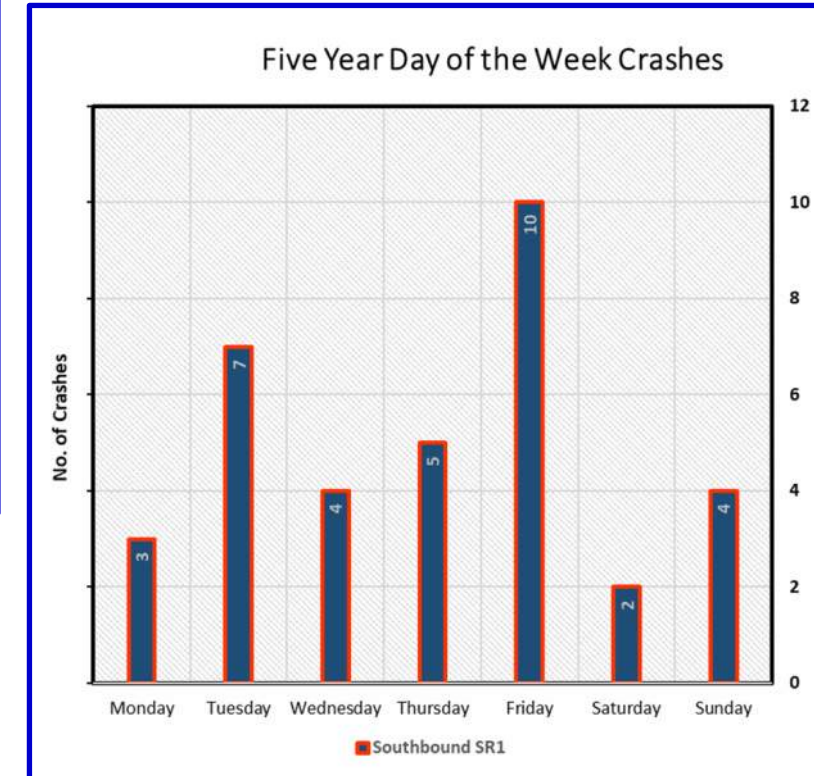
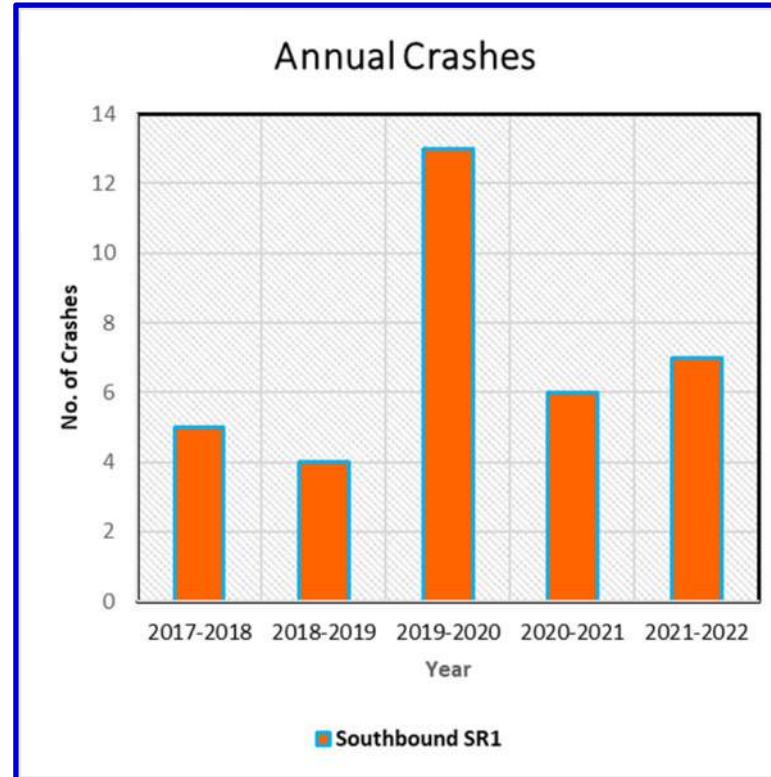
- Have you or someone you know ever been in a crash or a near miss at this intersection?
 - Yes
 - No





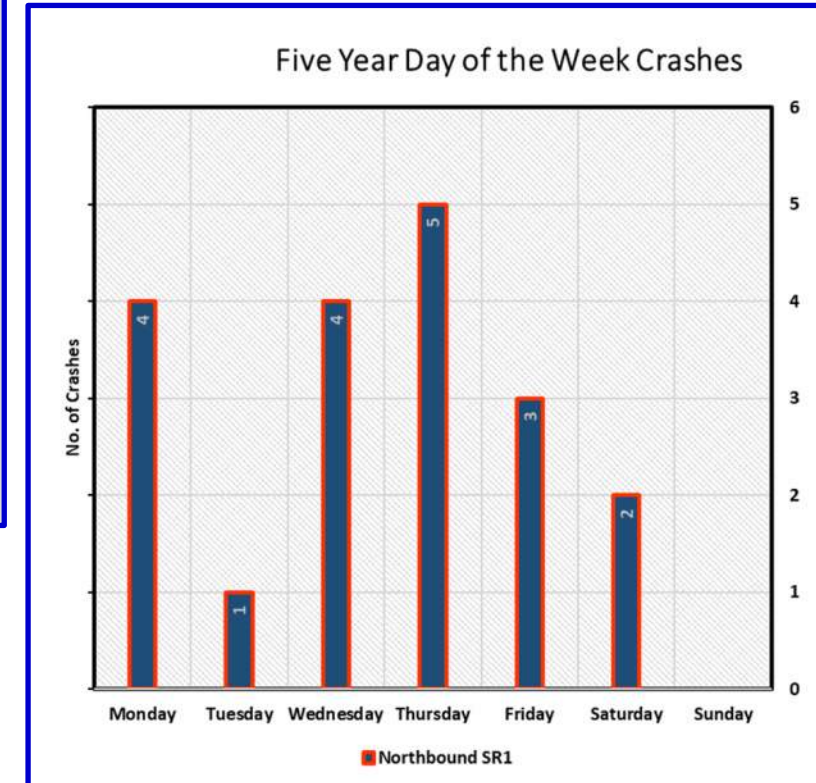
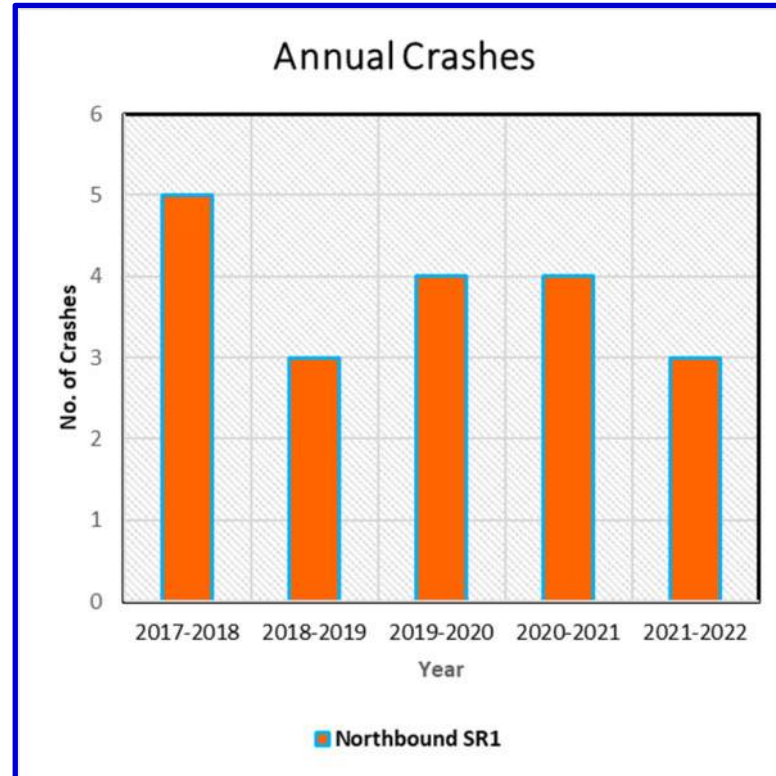
Existing Conditions

- SR1 Southbound Crashes
 - Total of 35 crashes
 - 2020 experienced an abnormally high number of crashes
 - Friday has a higher number of crashes



Existing Conditions

- SR1 Northbound Crashes
 - Total of 19 crashes
 - Relatively consistent number of crashes across the 5 years



Existing Conditions

- Crash Rates
 - Overall the area experiences higher than average crashes
 - 2020 to 2021 comparison shows crash rates are trending down – except SR1 NB

Functional Class	Ratio of 2020 Roadway Crash Rate to Similar Roads in Kent County	Ratio of 2020 Roadway Crash Rate to Similar Roads Statewide
Northbound SR1	4.70	5.63
Southbound SR1	20.35	24.41
Trap Shooters Rd	39.27	31.65
Barkers Landing Rd	0.00	0.00

Functional Class	Ratio of 2021 Roadway Crash Rate to Similar Roads in Kent County	Ratio of 2021 Roadway Crash Rate to Similar Roads Statewide
Northbound SR1	7.19	7.71
Southbound SR1	11.51	12.33
Trap Shooters Rd	13.45	10.84
Barkers Landing Rd	0.00	0.00

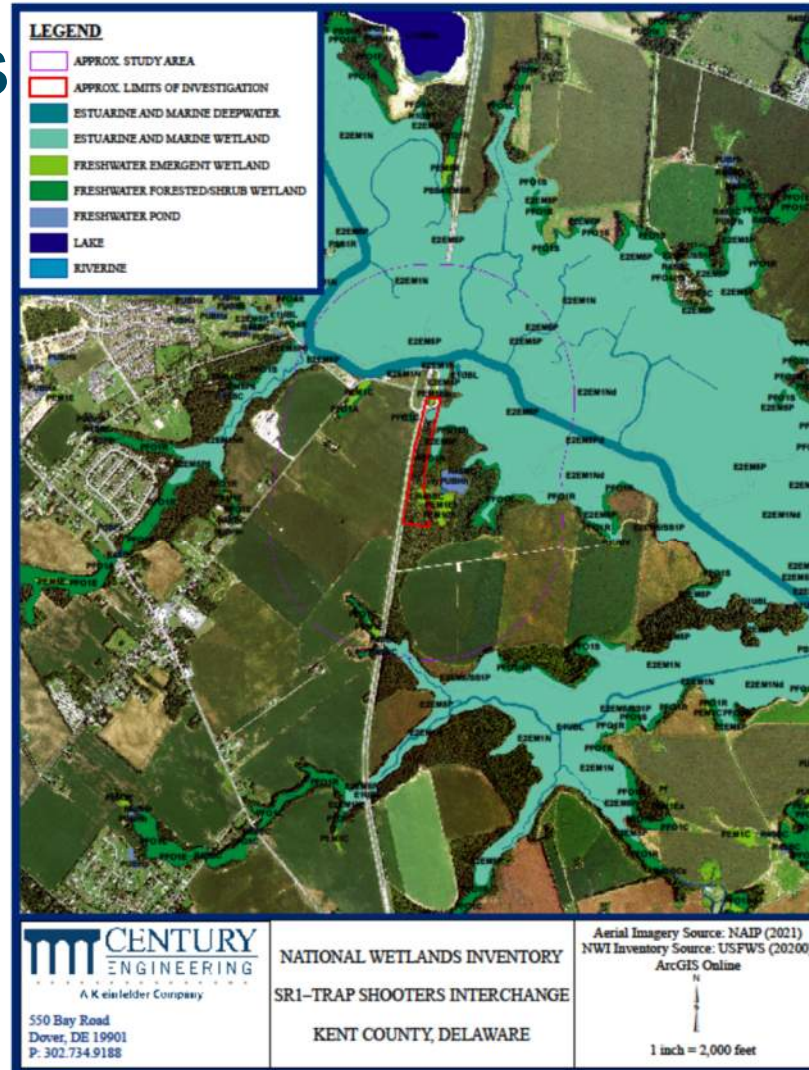
Poll Question #5

- Did you think there would be more crashes on SR1 in the SB direction than in the NB
 - Yes
 - No



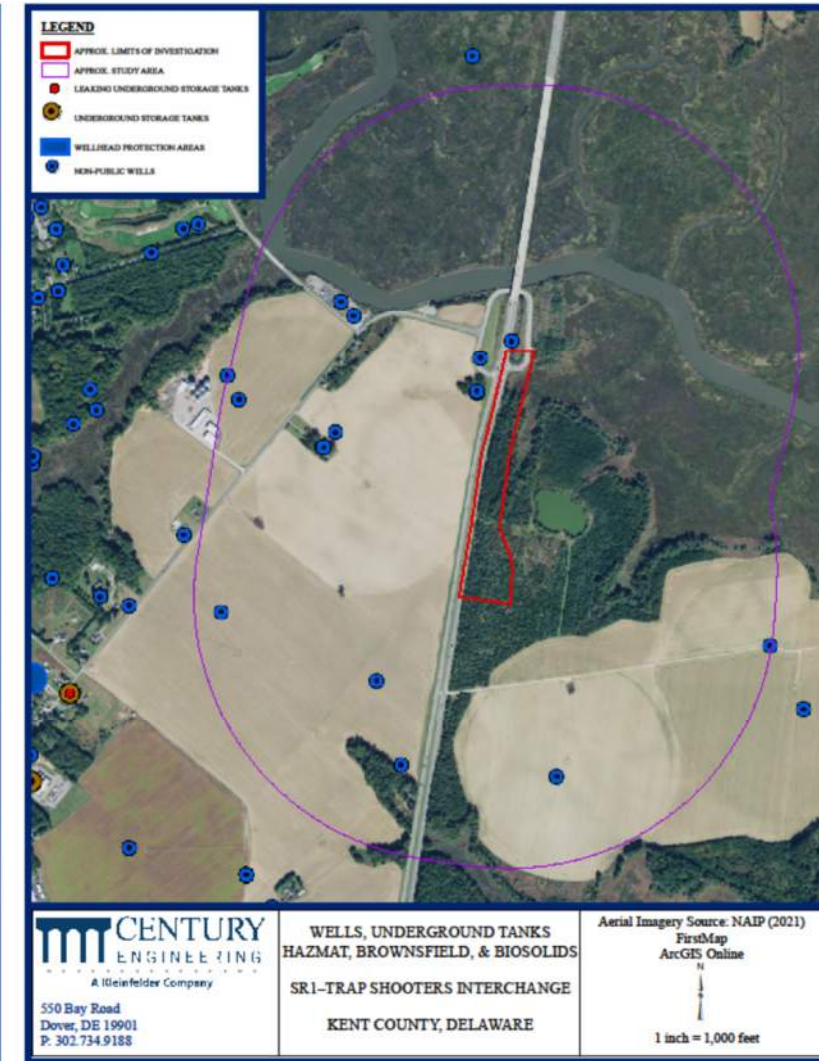
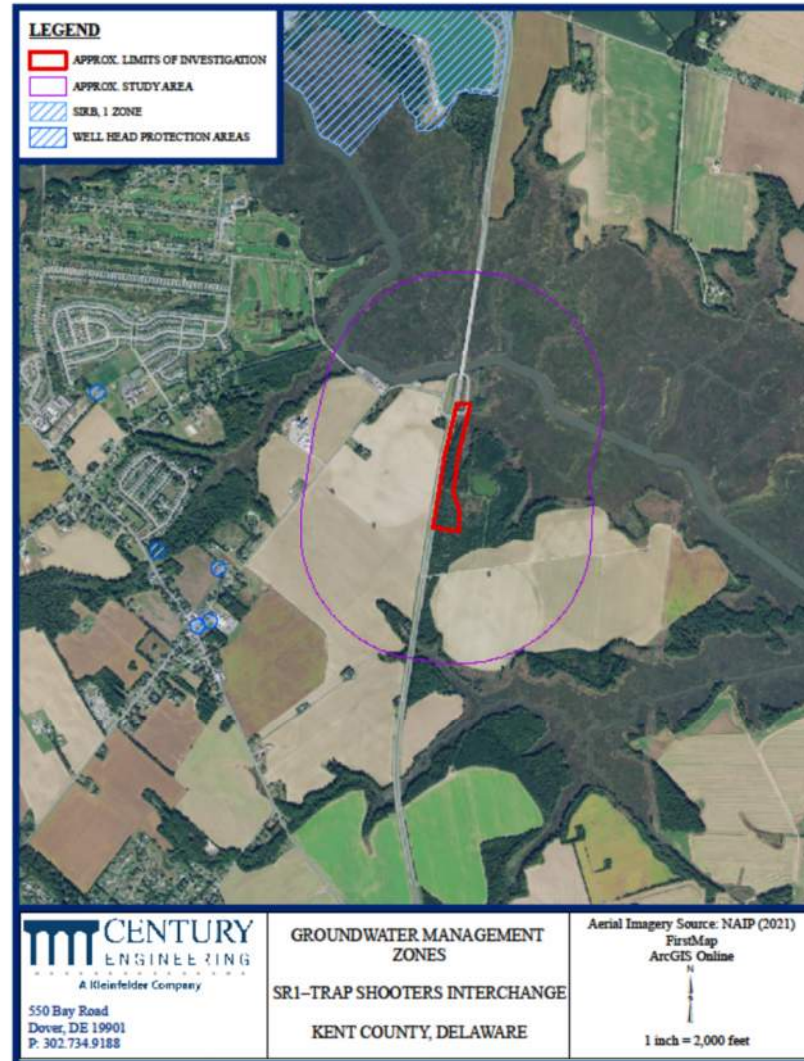
Existing Conditions

- Wetlands inventory
- Natural Resources



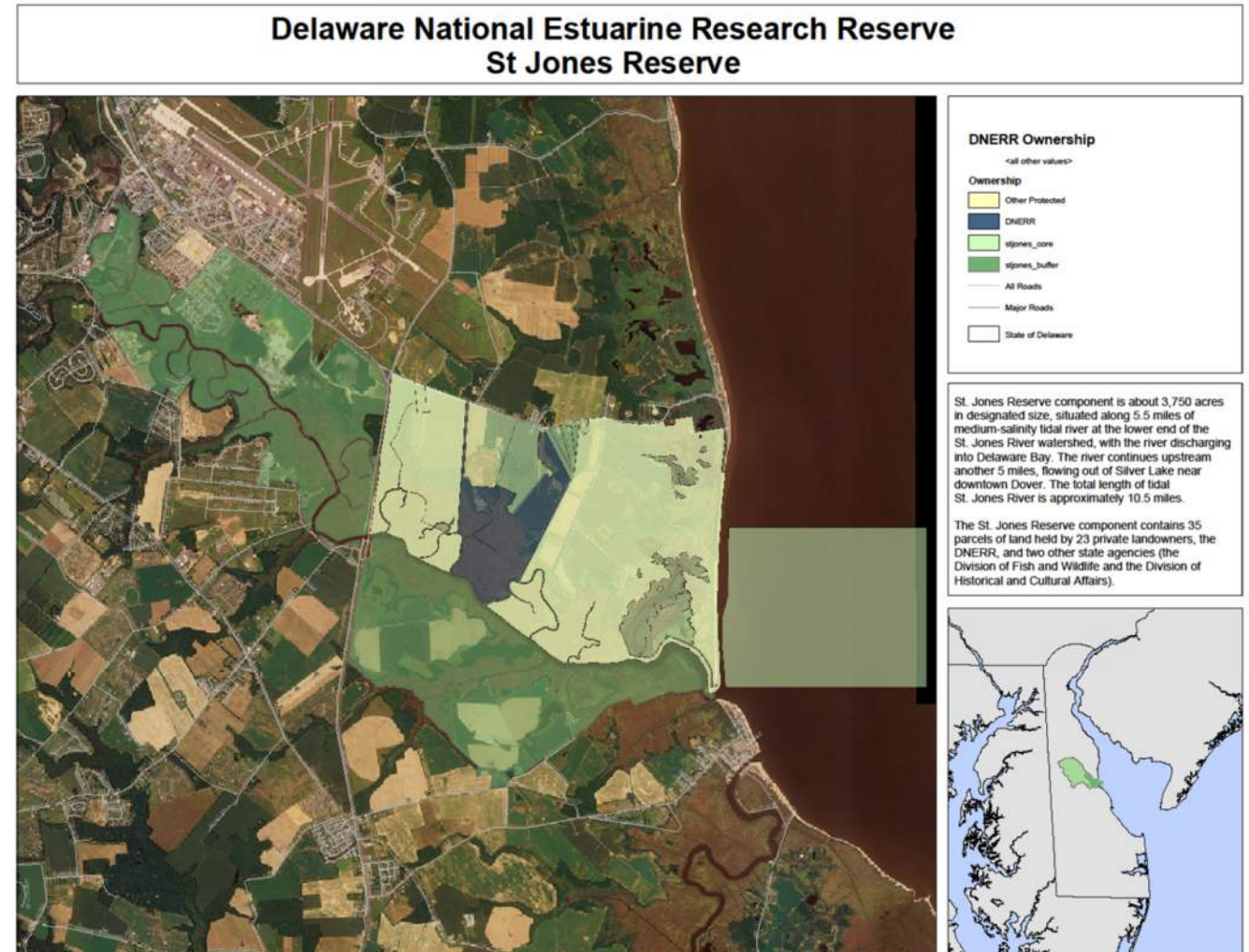
Existing Conditions

- No groundwater recharge areas near the study area
- Wells and underground tanks are located in the project area



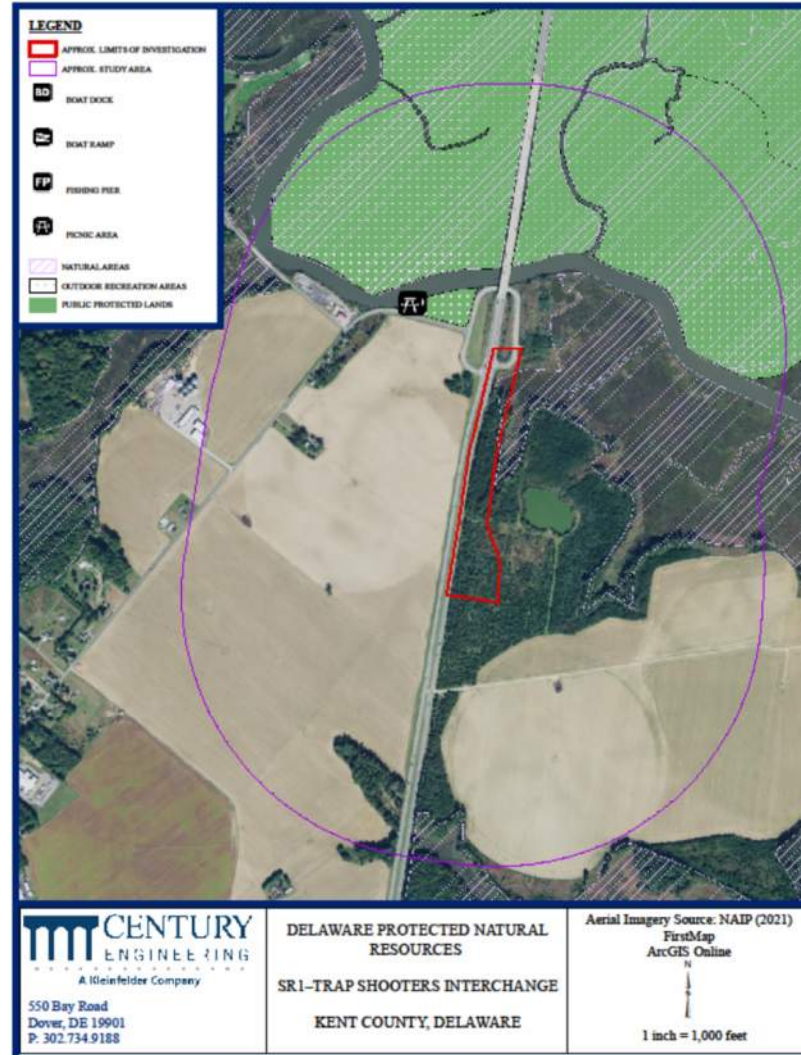
Existing Conditions

- DNERR is located adjacent to the project site
- The interchange area is identified as a buffer



Existing Conditions

- DNREC Protected resources were identified
- The Northern boundary is in a National Estuarine Research Reserve



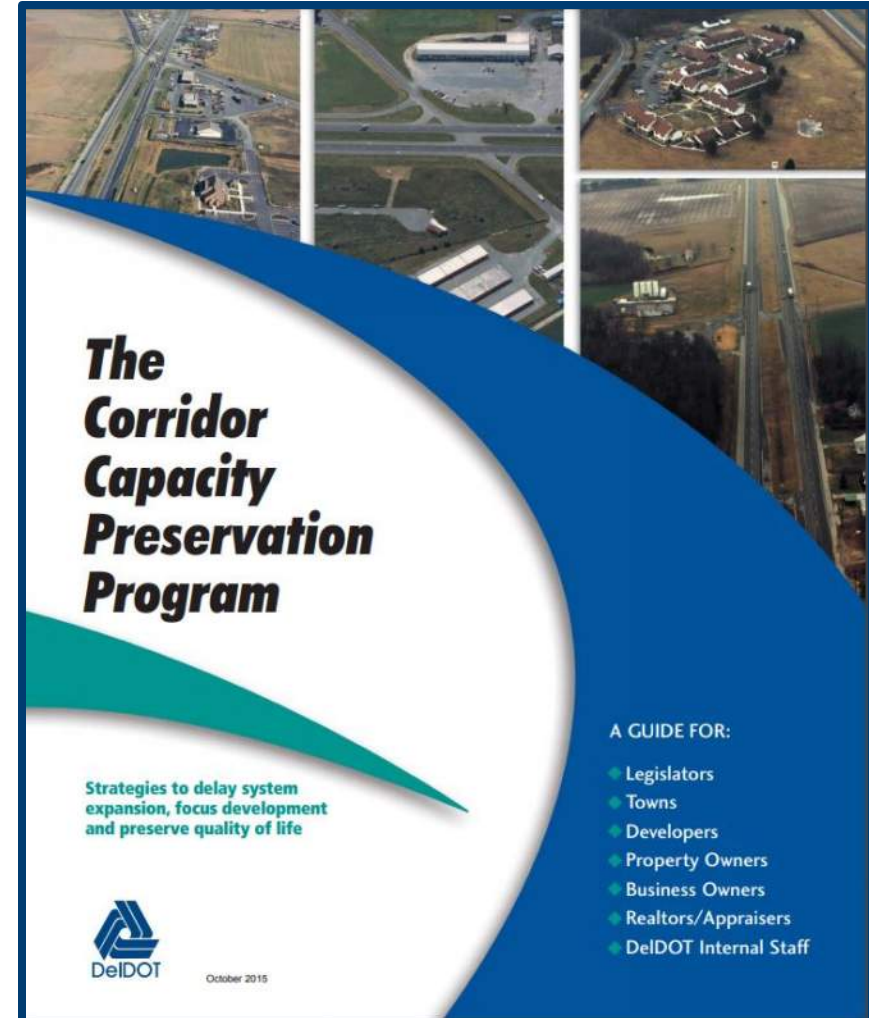
Existing Conditions

- There are known historic and archaeological resources in the area
- Most of the area is large lot farms



Current DeIDOT Efforts

- CCPP – SR1 Plan Update
 - Public workshops 11/15/2022
- SR1 Capacity Analysis
 - 6/20/2020
 - Triggers the need for a 3rd lane on SR1
 - 2035 - 2045

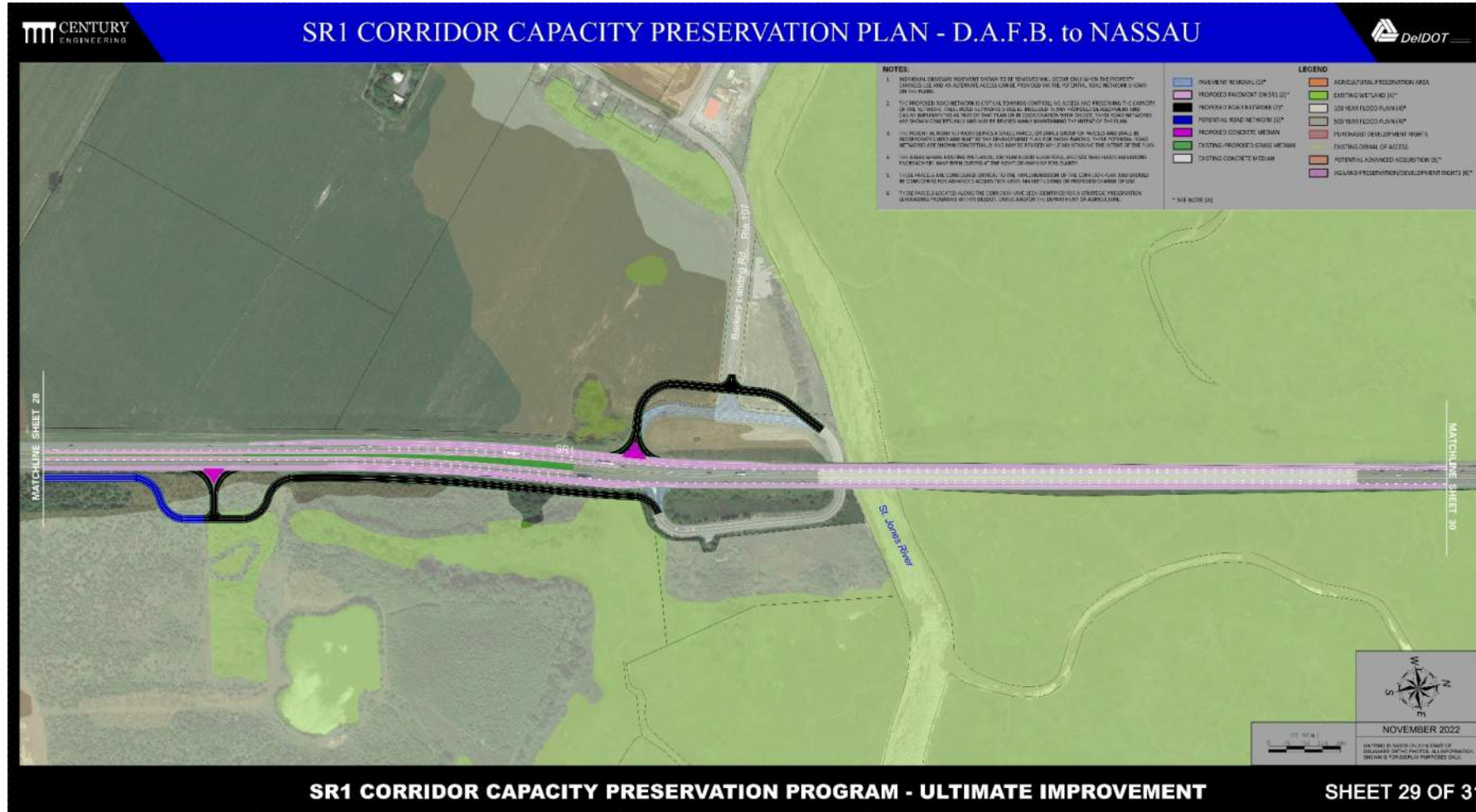


Poll Question #6

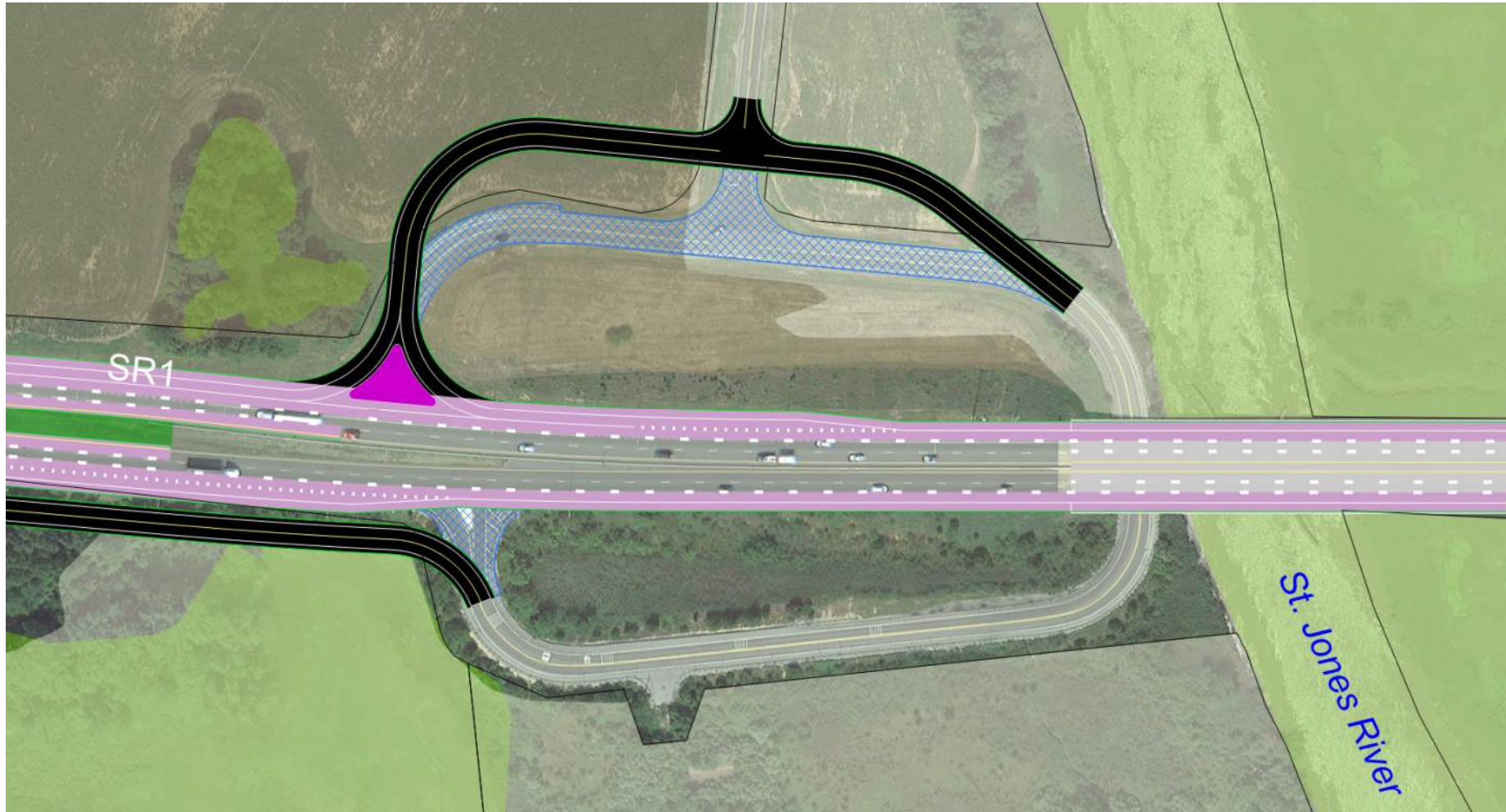
- Are you familiar with DeIDOT's Corridor Capacity Preservation Program?
 - Yes
 - No



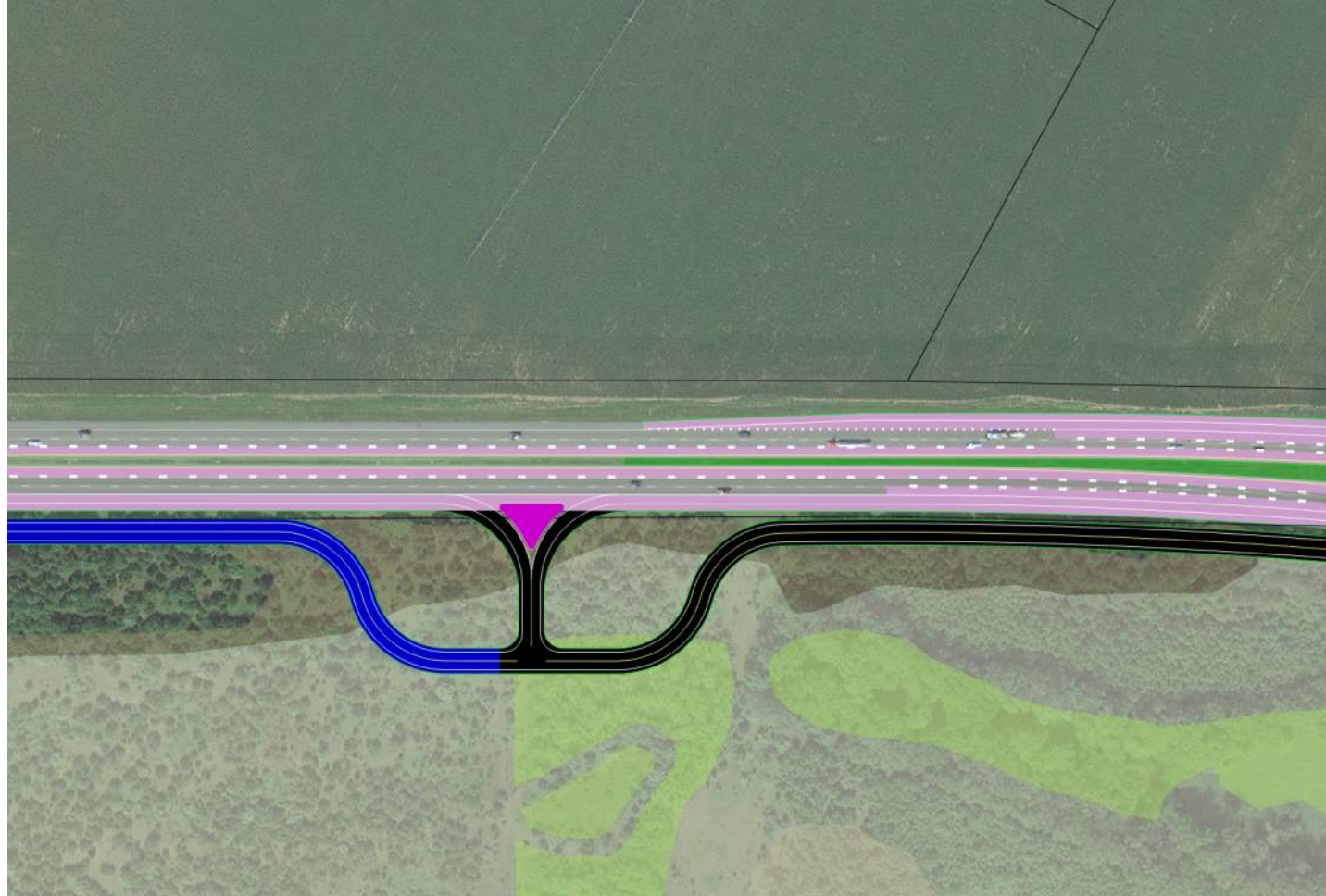
Current DeIDOT Efforts



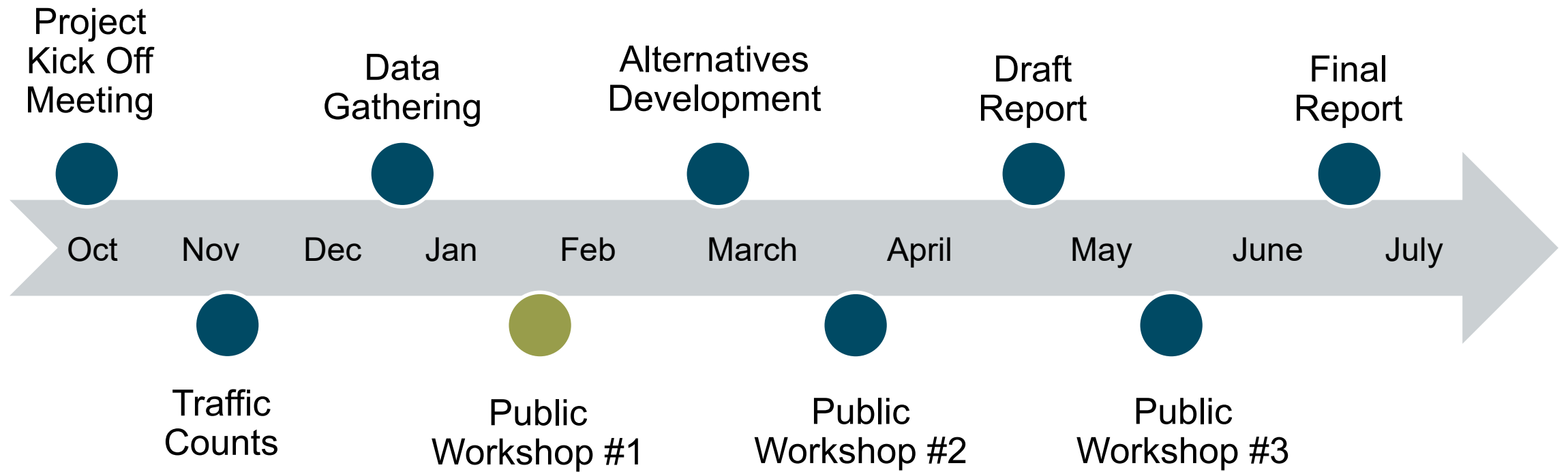
Current DeIDOT Efforts



Current DeIDOT Efforts



Schedule





*9 - Raise Hand

*6 - Unmute/Mute



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<https://doverkentmpo.delaware.gov/projects/>



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Thank You!