

Appendix D: Public Workshop Summaries

DRAFT

Trap Shooters Road SR1 Interchange Public Workshop #1

01/23/2023 – Virtual Meeting via Zoom

The Dover Kent County MPO in partnership with DeIDOT initiated a study to develop and evaluate alternatives at the intersection of SR1 and Trap Shooter Road to improve safety and capacity at this intersection. This initial workshop was virtual via Zoom held on January 23, 2023, provided the public with an overview of the existing conditions and solicited comments and feedback from the public on their experience at the intersection.

January 23, 2023
6:00 PM – 7:30 PM
Virtual Zoom Meeting

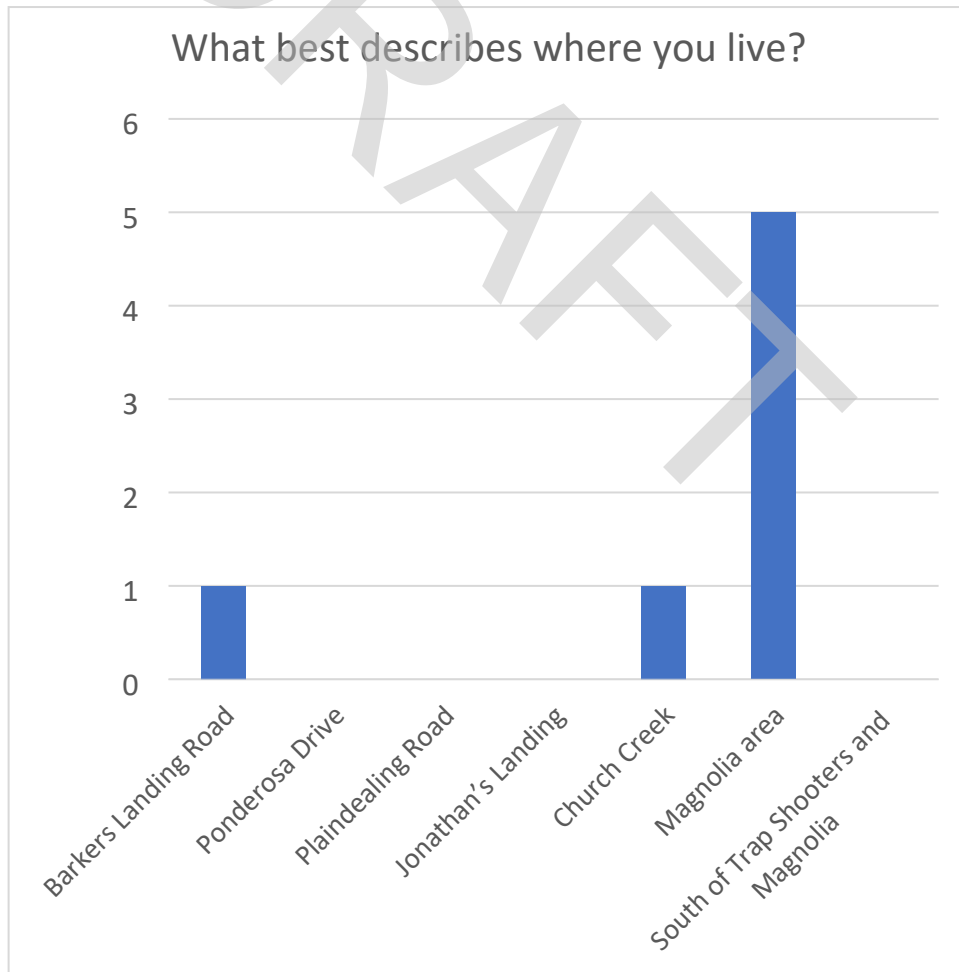
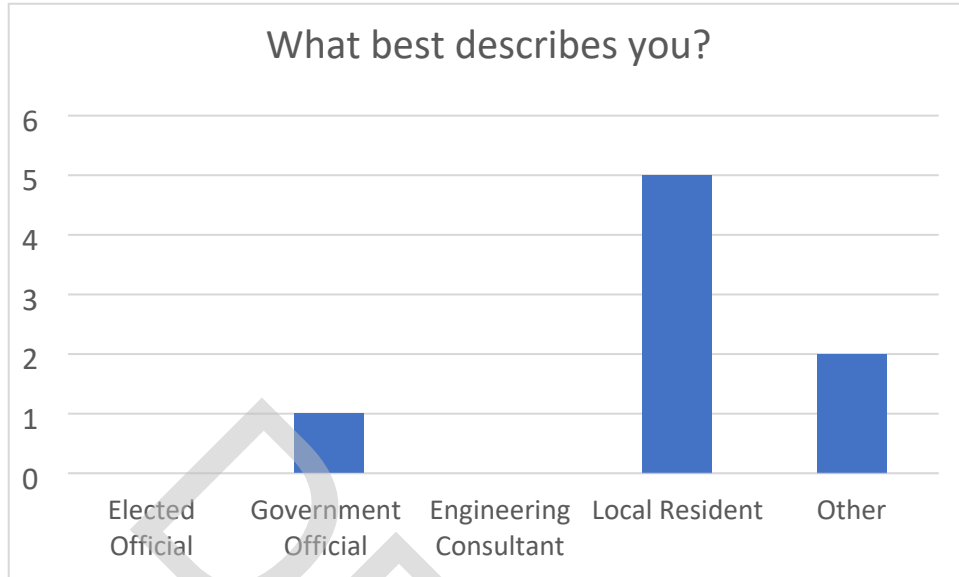
The public workshop was advertised for approximately 30 days prior to the workshop dates. Flyers and mailers were created and emailed to the elected officials and project partners for posting on their social media and web pages. The workshops were also advertised on the MPO's and DeIDOT's webpage and the State's public meeting calendar. In addition, over 500 direct mailings were sent out to area residents to inform them of the upcoming workshop.

The workshop format was a virtual meeting on the Zoom platform. The virtual meeting started with a welcome video with instructions on how to participate in the public meeting. The formal presentation started at 6:10 pm. Drew Boyce provided the formal presentation with interactive polling questions throughout the presentation and a question-and-answer session at the end of the presentation. The information presented included the following:

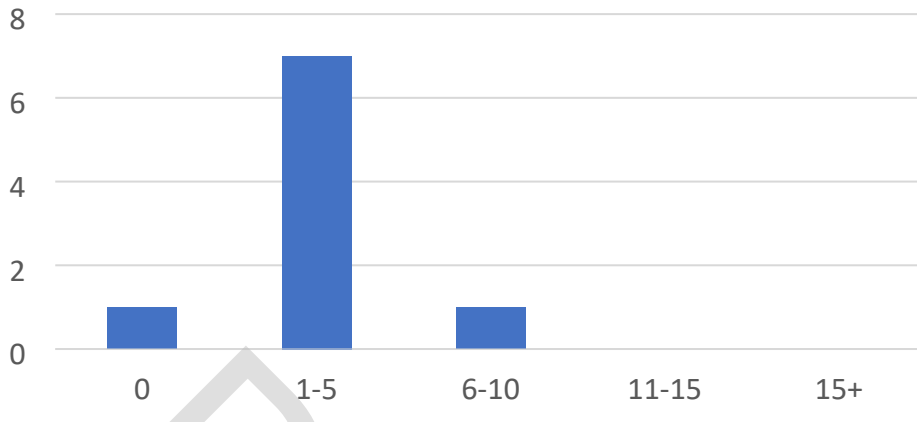
- Study Area
- Purpose and Need
- Work Plan
- Existing Conditions
- Current DeIDOT Efforts
- Schedule
- Questions

A total of 13 people registered in advance of the workshop and 8 people attended the public workshop. No elected officials attended the workshop. There was a good cross

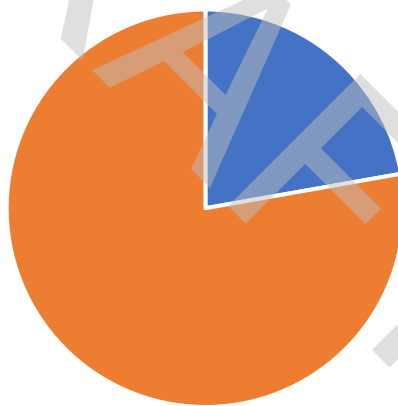
section of people that used the intersection to access SR1. Several polling questions were used to engage the participants and the results are as follows:



How many times a week to you drive through this intersection?

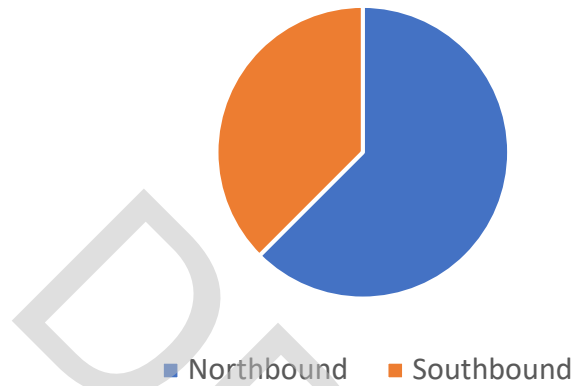


Have you or someone you know ever been in a crash or a near miss at this intersection?



■ Yes ■ No

Did you think there would be more crashes on SR1
in the SB direction than in the NB



Are you familiar with DelDOT's Corridor Capacity
Preservation Program?



In general, the feedback received was positive. Most of attendees acknowledged that the intersection needed to be improved.

The following pages contain the presentation presented at the workshop, attendees list, and post workshop survey.

All workshop materials are available on the Dover/Kent County MPO's website.

Flyer and Mailer

DRAFT

Trap Shooters Road Public Workshop

Help us develop the new plan for Trap Shooters Road!



Join Us!

Join us for an informational meeting to understand issues and concerns.

We want to hear from you!

January 23rd
6:00 PM
On Zoom
Register at:



https://us02web.zoom.us/webinar/register/WN_NcHs5xtiTuydiSPDA_K-Lw



Presentation

DRAFT

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



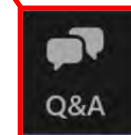
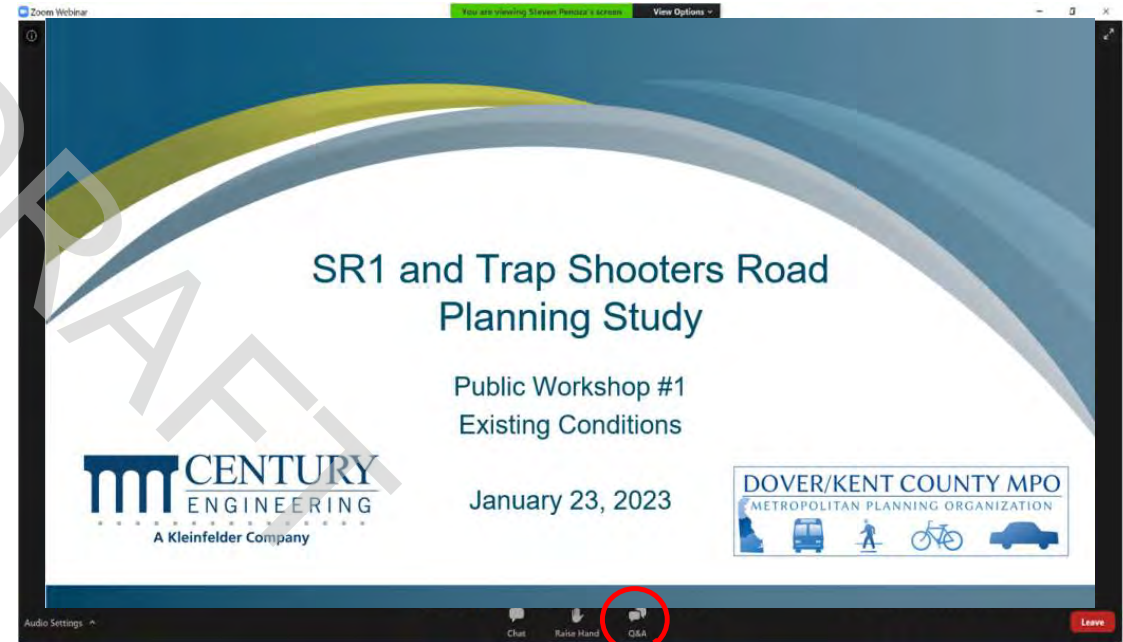
- *9 - Raise Hand



- *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



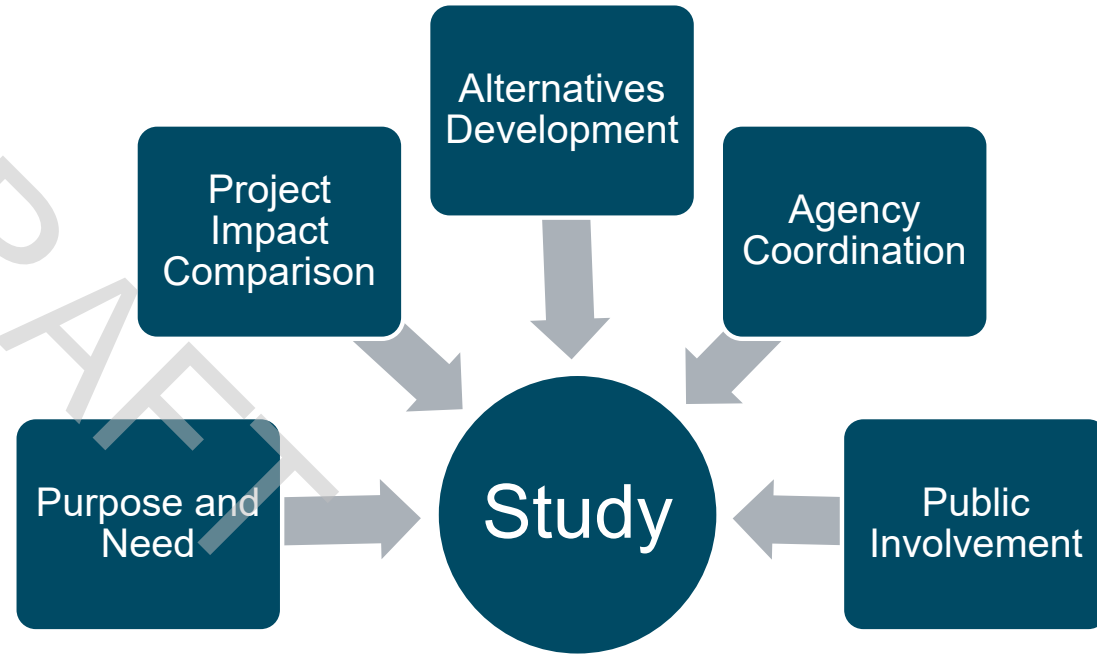
Poll Question #2

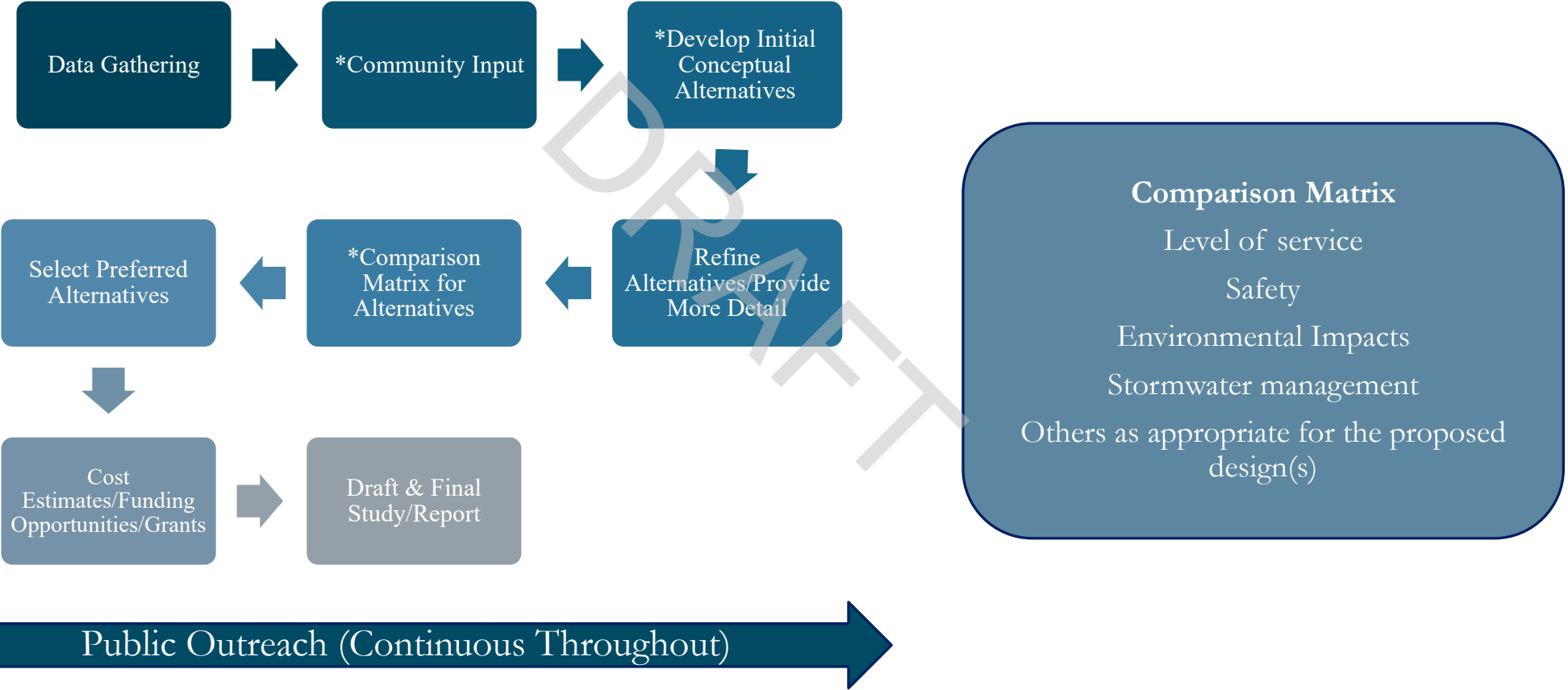
- What best describes where do you live?
 - Barkers Landing Road
 - Ponderosa Drive
 - Plaindealing Road
 - Jonathan's Landing
 - Church Creek
 - Magnolia area
 - South of Trap Shooters and Magnolia
 - Other



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





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



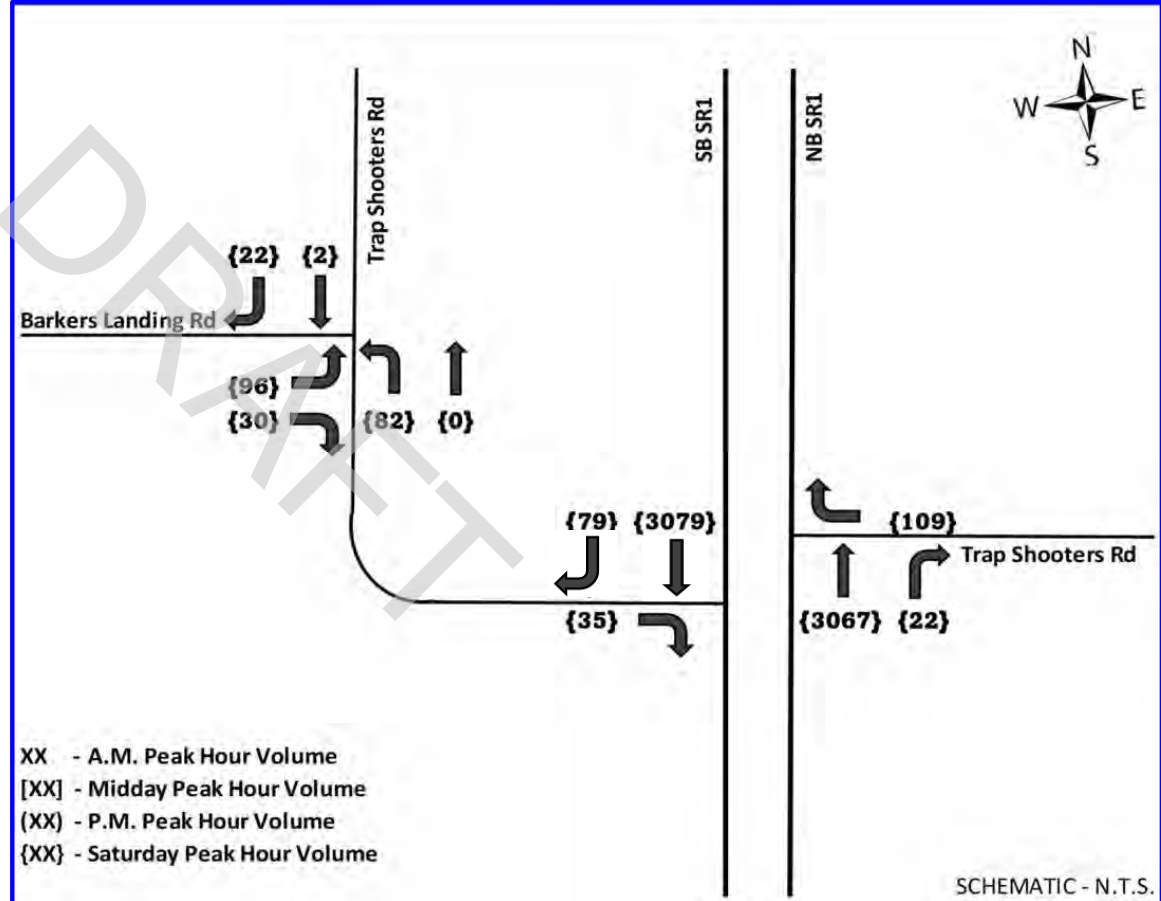
Existing Conditions

- 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 1/2 of the volumes during a weekday peak hour

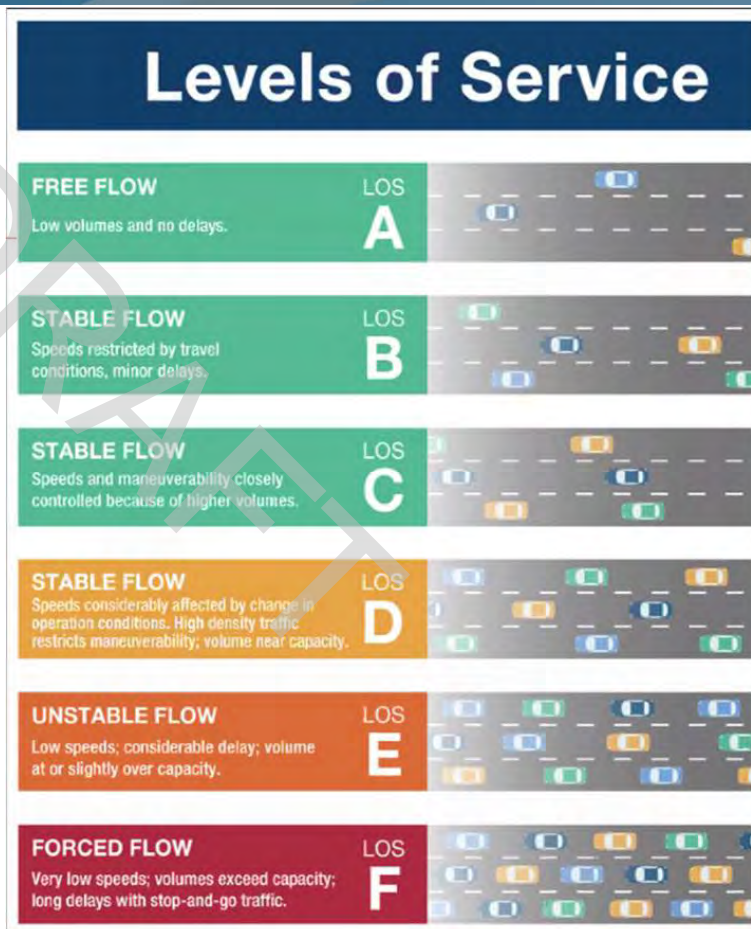


Existing Conditions

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**

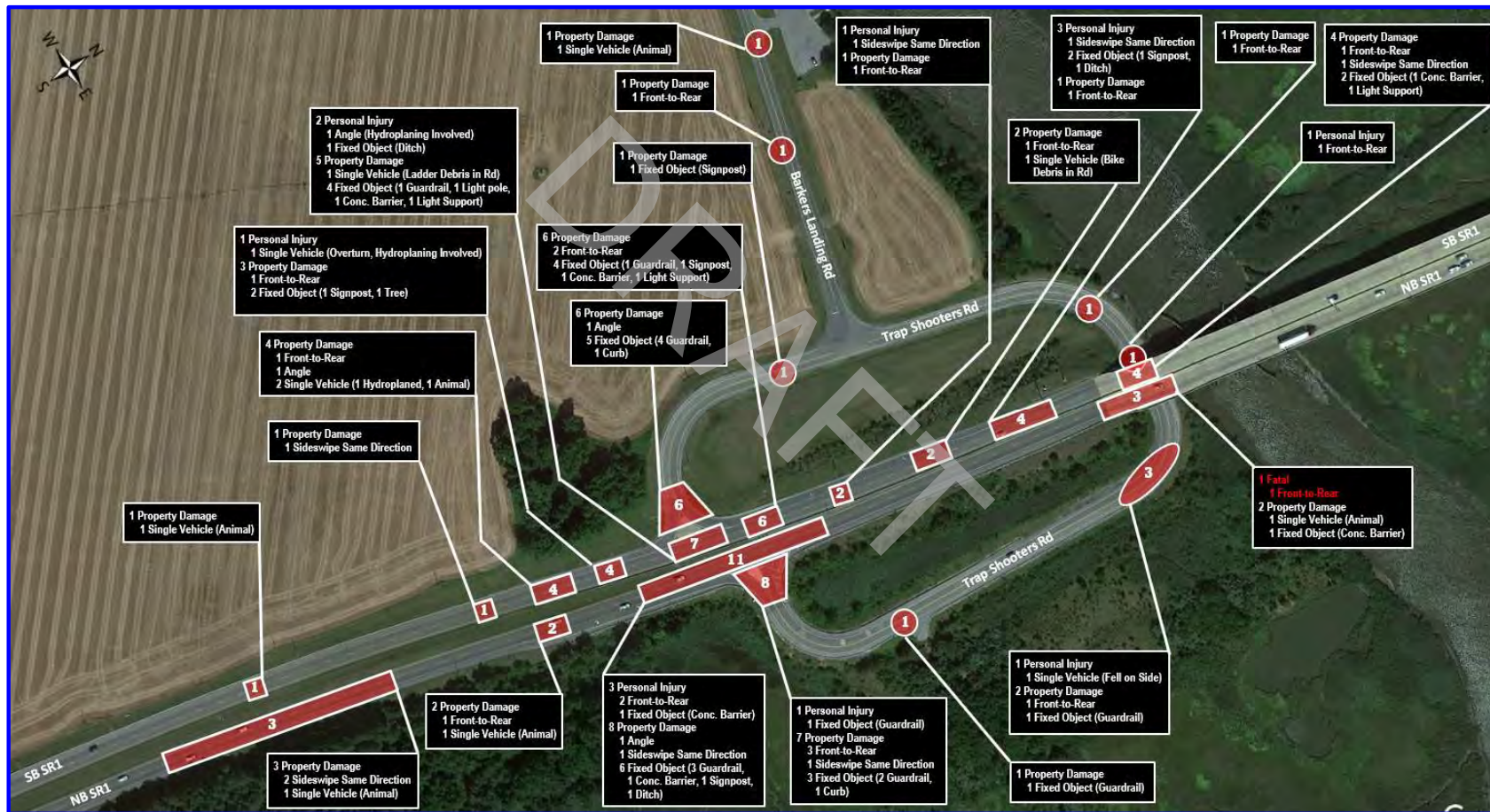
Date Posted: Saturday, July 10th, 2021



Poll Question #4

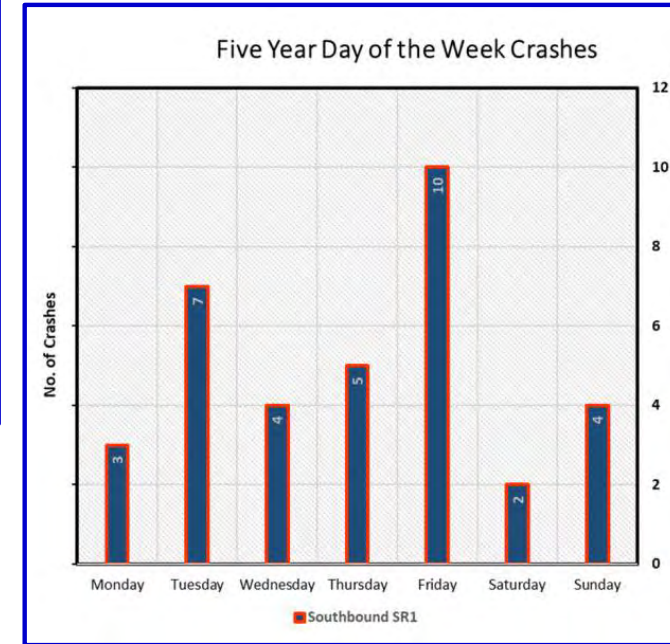
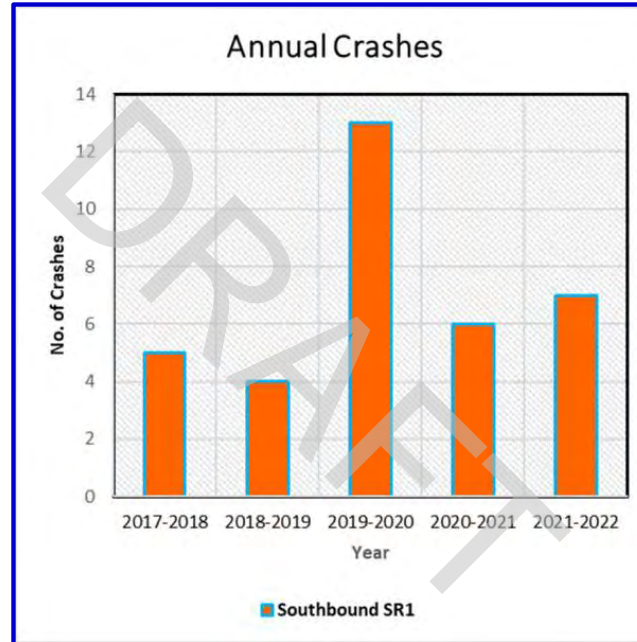
- Have you or someone you know ever been in a crash or a near miss at this intersection?
 - Yes
 - No





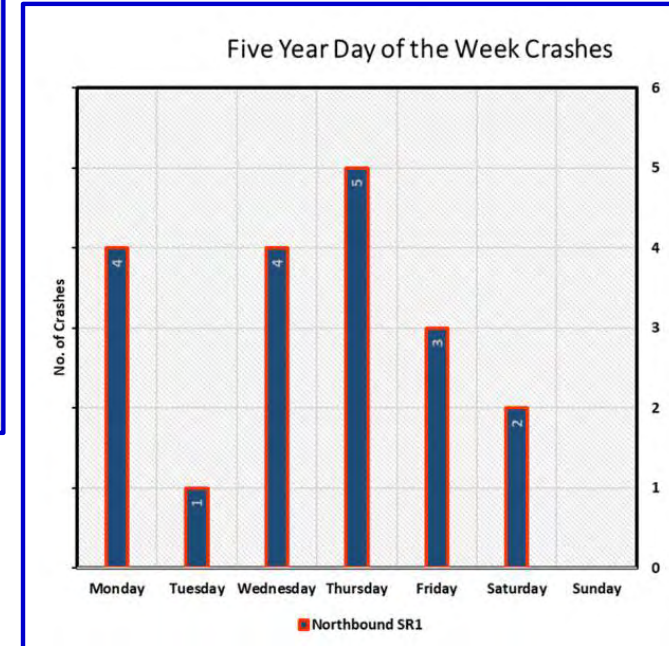
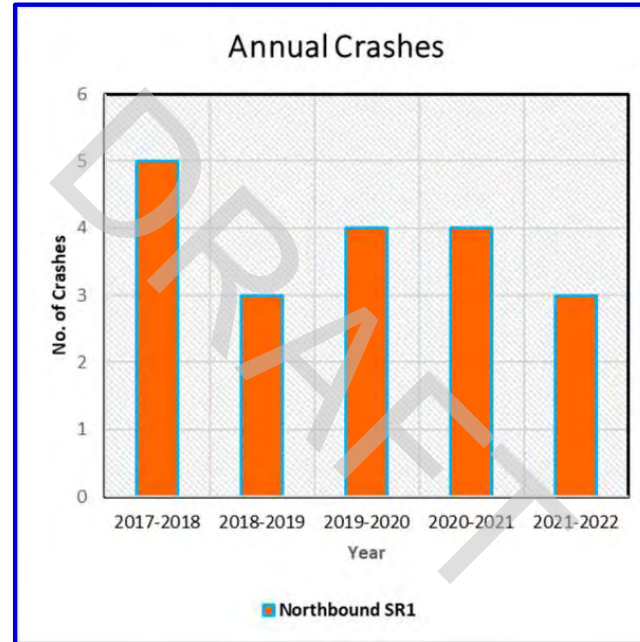
Existing Conditions

- 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

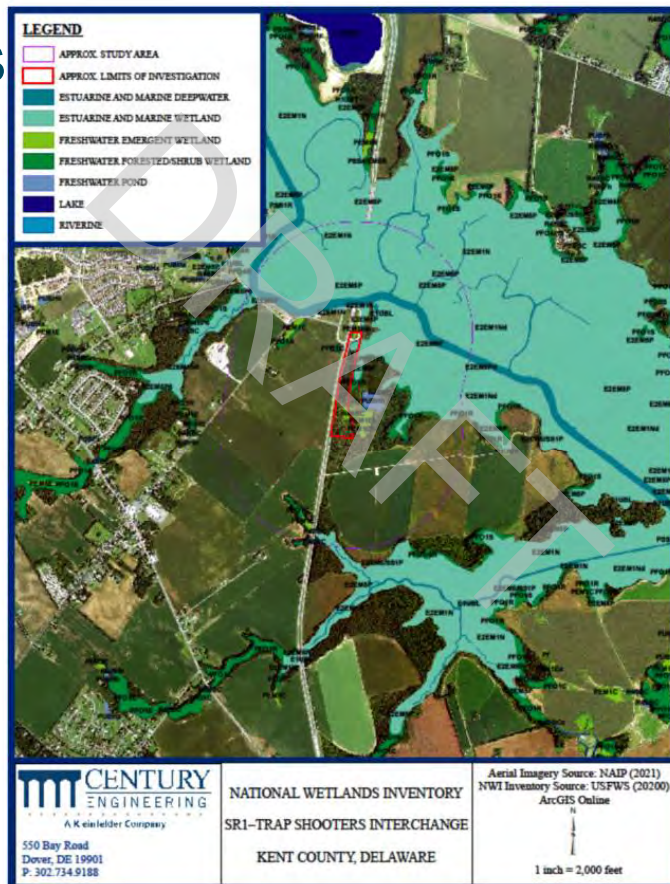
Poll Question #5

- 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

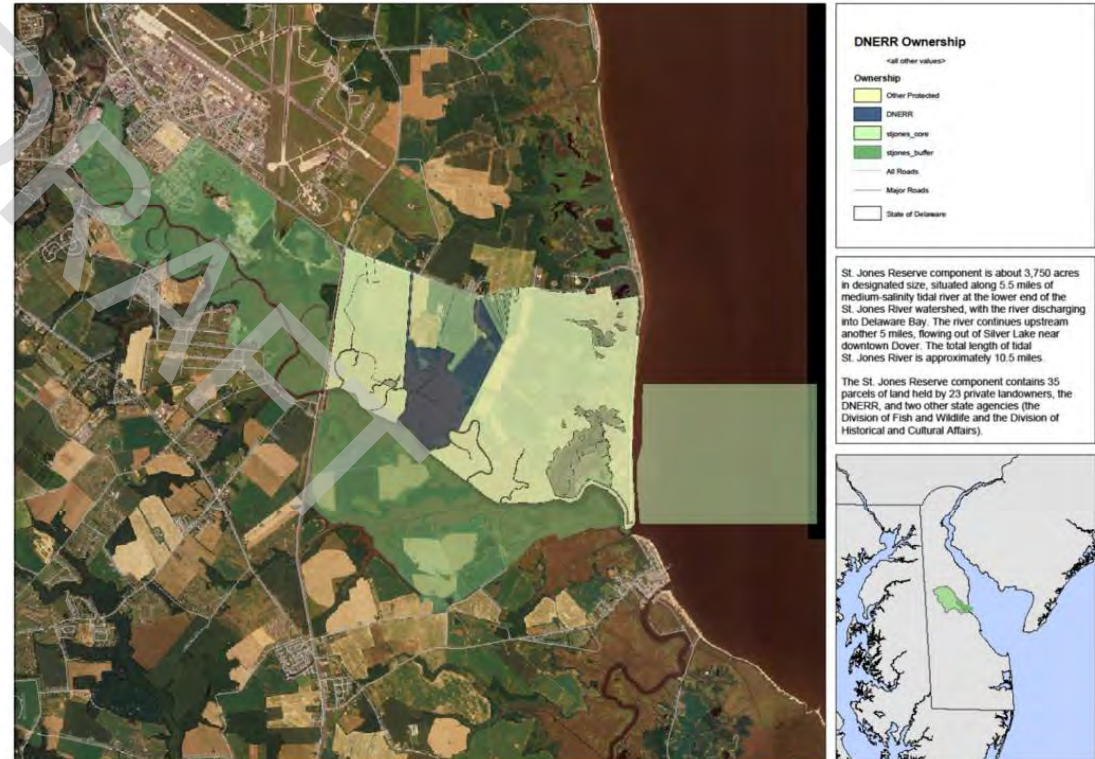
- No groundwater recharge areas near the study area
- Wells and underground tanks are located in the project area



Existing Conditions

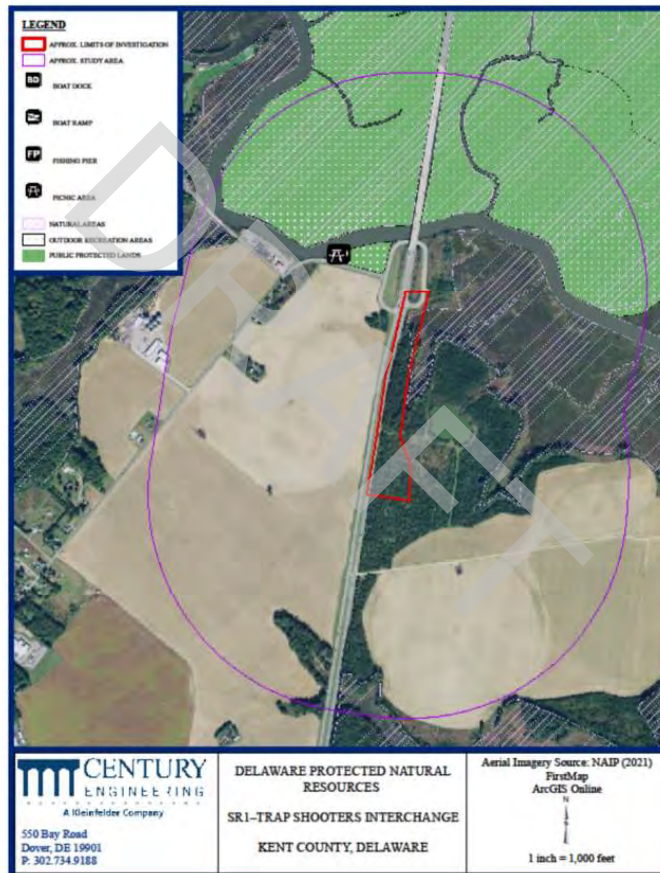
- DNERR is located adjacent to the project site
- The interchange area is identified as a buffer

**Delaware National Estuarine Research Reserve
St Jones Reserve**



Existing Conditions

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



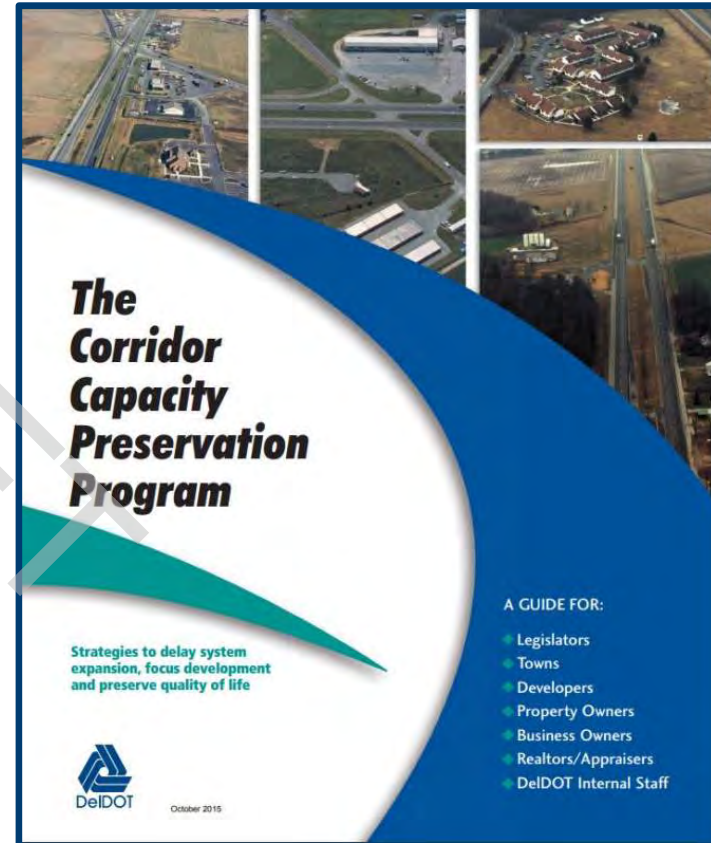
Existing Conditions

- 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

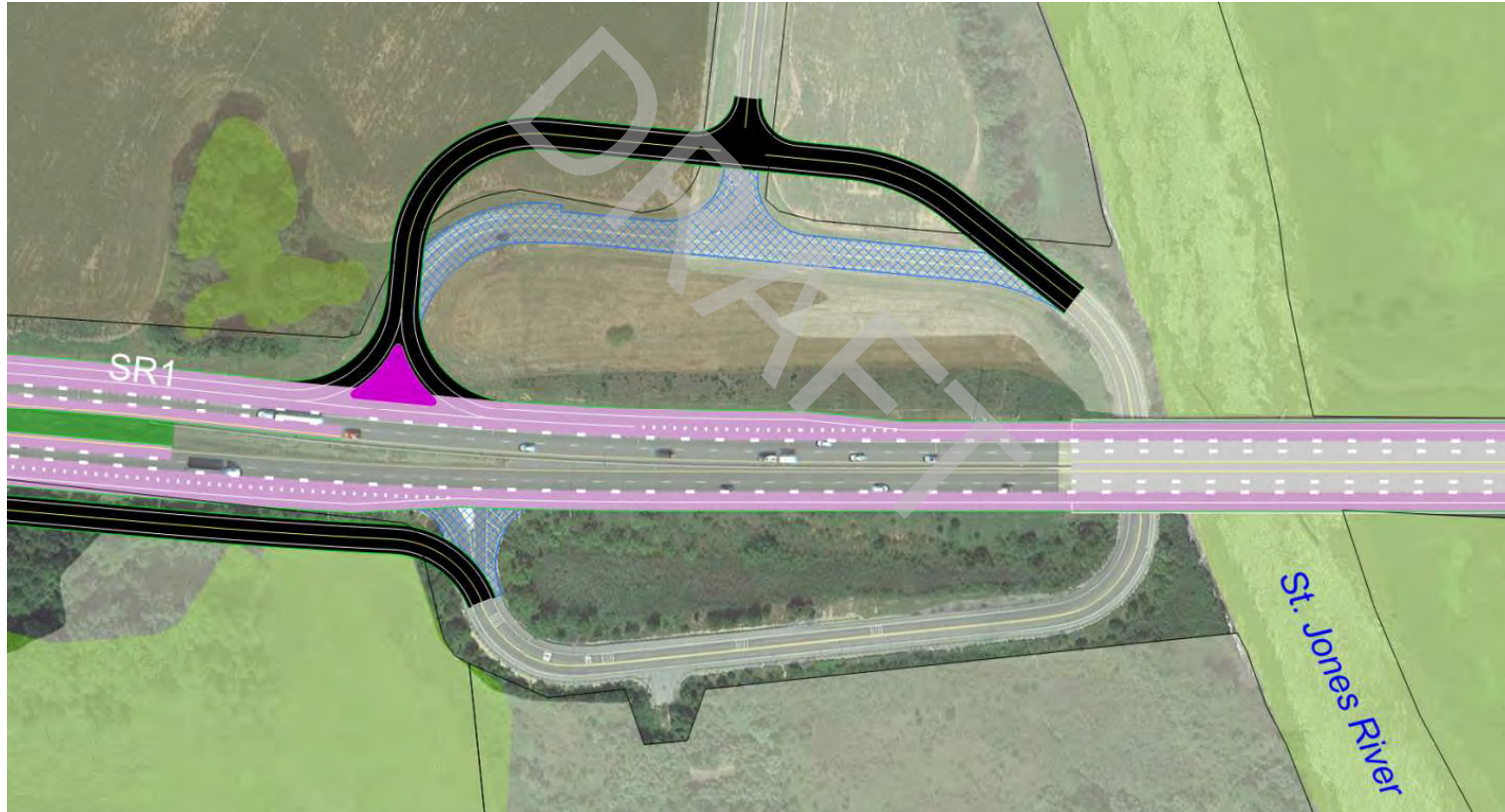


Poll Question #6

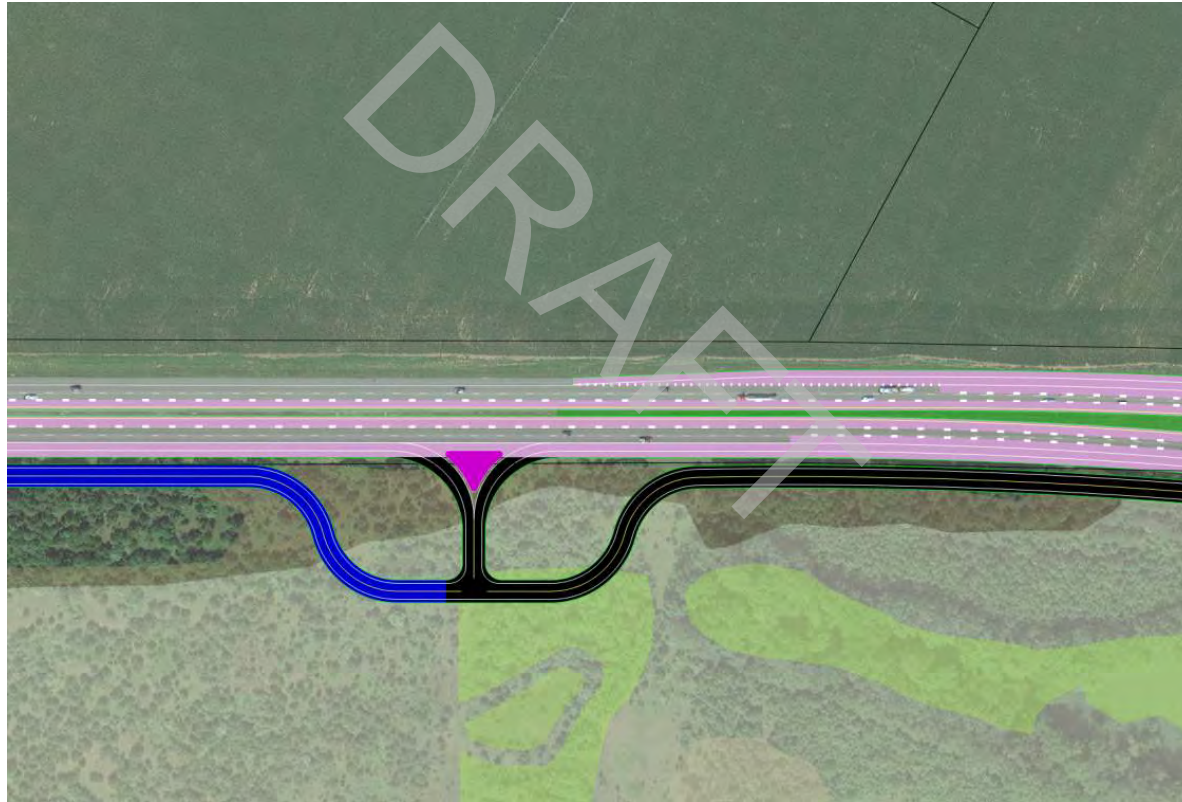
- Are you familiar with DeIDOT's Corridor Capacity Preservation Program?
 - Yes
 - No



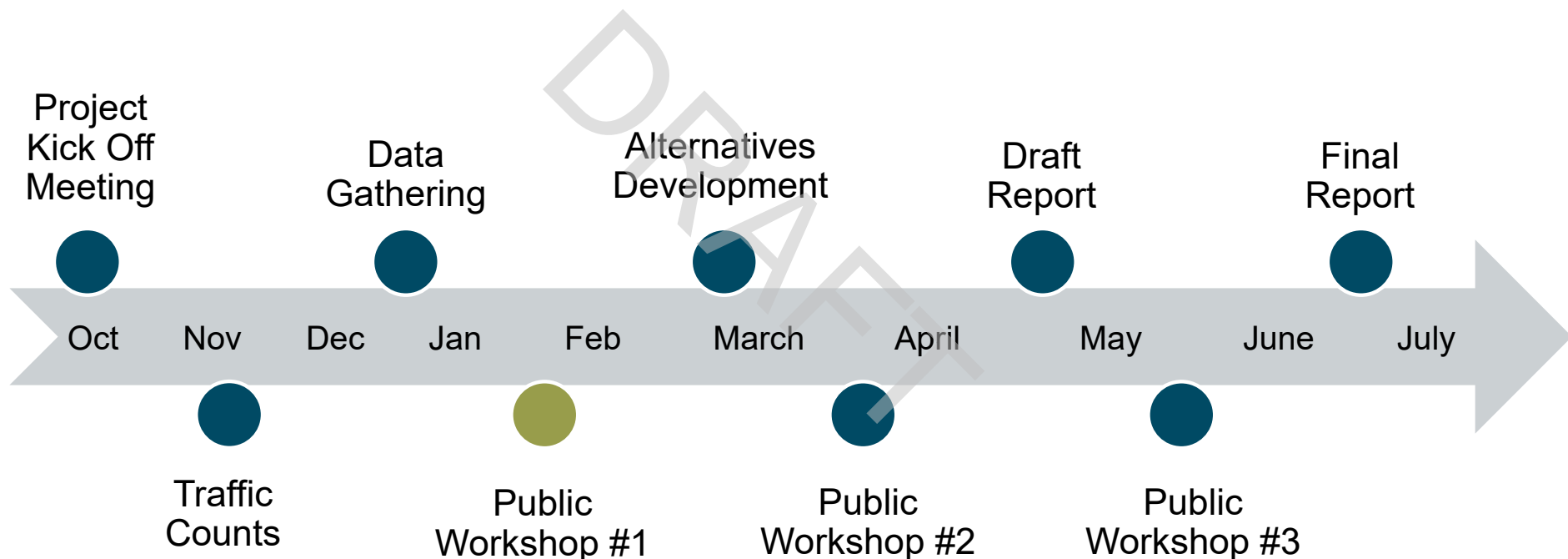
Current DeIDOT Efforts



Current DeIDOT Efforts



Schedule





*9 - Raise Hand

*6 - Unmute/Mute



James.Galvin@doverkentmpo.org



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



Jim Galvin
302-387-6030
James.Galvin@doverkentmpo.org



Drew Boyce
302-734-9188
dboyce@kleinfelder.com

Thank You!

Participant List

DRAFT

Attendee Report

Report Generated: 1/24/2023 10:14

Topic	Webinar ID	Actual Start Time	Actual Duration (min)	# Registered	
Trap Shooters Road 869 8564 4765		1/23/2023 17:42	88		21

Panelist Details

Attended	User Name (Original Name)	Email	Join Time	Leave Time
Yes	Sonia Marichic	smarichicgoudy@kleinfelder.com	1/23/2023 17:42	1/23/2023 19:09
Yes	Drew Boyce	dboyce@kleinfelder.com	1/23/2023 17:44	1/23/2023 19:09
Yes	MarilynSmith	marilyn.smith@doverkentmpo.org	1/23/2023 18:03	1/23/2023 19:09
Yes	MalcolmJacob	malcolm.jacob@doverkentmpo.org	1/23/2023 17:59	1/23/2023 18:06
Yes	HelenWiles	Helen.wiles@doverkentmpo.org	1/23/2023 17:58	1/23/2023 18:06
Yes	Ted Foglietta	tfoglietta@kleinfelder.com	1/23/2023 18:07	1/23/2023 19:09
Yes	JAMESGalvin	james.galvin@doverkentmpo.org	1/23/2023 18:11	1/23/2023 19:09
Yes	Humaira Yusuf Nabeela	humaira.nabeela@delaware.gov	1/23/2023 18:25	1/23/2023 19:09

Attendee Details

Attended	User Name (Original Name)	First Name	Last Name	Email
Yes	Anne Brown	Anne	Brown	anne.brown@delaware.gov
Yes	Marilyn Smith	Marilyn	Smith	marilyn.smith@doverkentmpo.org
Yes	Ian Peters	Ian	Peters	ipeters61@gmail.com
Yes	Jeffrey Miller	Jeffrey	Miller	Jeffrey_miller@live.com
Yes	Josh Thomas	Josh	Thomas	joshua.thomas@delaware.gov
Yes	James Frazier	James	Frazier	Jrfcrm4@gmail.com
Yes	Malcolm Jacob	Malcolm	Jacob	malcolm.jacob@doverkentmpo.org
Yes	Malcolm Jacob	Malcolm	Jacob	malcolm.jacob@doverkentmpo.org
Yes	Ron Cantrell	Ron	Cantrell	roninorbit@icloud.com
Yes	Helen Wiles	Helen	Wiles	Helen.wiles@doverkentmpo.org
Yes	Helen Wiles	Helen	Wiles	Helen.wiles@doverkentmpo.org
Yes	Helen Wiles	Helen	Wiles	Helen.wiles@doverkentmpo.org
Yes	Ted Foglietta	Ted	Foglietta	tfoglietta@kleinfelder.com
Yes	Rick Mazol	Rick	Mazol	rick@chesapeaketurf.com
Yes	JAMES Galvin	JAMES	Galvin	james.galvin@doverkentmpo.org
Yes	Kristina DeRobertis	Kristina	DeRobertis	kderobertis@wboc.com
Yes	Humaira Yusuf Nabeela	Humaira	Yusuf Nabeela	humaira.nabeela@delaware.gov
No	Breanna	Breanna	Kovach	breanna.kovach@delaware.gov
No	Roger	Roger	McClean	rpm030650@gmail.com
No	Beau	Beau	Zebley	beau@emeraldc21.com
No	Brian	Brian	Howard	bhmusic302@gmail.com
No	Lisamarie	Lisamarie	Doughten	lisamariedoughten@comcast.net
No	Rigoberto	Rigoberto	Perez	rgbtperez344@gmail.com

Post Workshop Survey

DRAFT

Survey Report

Report Ger 1/24/2023 10:13
Topic Webinar ID Actual Start Time Actual Duration (minutes)
Trap Shoot 869 8564 4765 1/23/2023 17:42 88
Survey Details

#	User Name	User Email	Submitted Time	Do you agree with the purpose and need for this study?	How well do you feel that tonight's workshop provided you the opportunity to share your ideas, thoughts and concerns related to SR1 and Trap Shooters Road Study?	How was the video quality of the workshop?	How was the audio quality of the workshop?
1	Anonymous	Anonymous	1/23/2023 19:11	Yes I agree	I feel good about tonight's meeting	5	5
2	Anonymous	Anonymous	1/23/2023 19:10	yes	Very well, lots of opportunities to comment.	5	5

DRAFT

Trap Shooters Road SR1 Interchange Public Workshop #2

03/28/2023 – Magnolia, DE

The Dover Kent County MPO in partnership with DeIDOT initiated a study to develop and evaluate alternatives at the intersection of SR1 and Trap Shooter Road to improve safety and capacity at this intersection. The initial workshop held on January 23, 2023 was a virtual meeting via Zoom, provided the public with an overview of the existing conditions and solicited comments and feedback from the public on their experience at the intersection and what the design team should be considering as we developed alternatives.

This second workshop presented information on the alternatives developed to meet the purpose and need of the project taking into account the information gained from the first public workshop.

March 28, 2023
6:00 PM – 7:30 PM
McIlvaine Elementary School
Magnolia, Delaware

The public workshop was advertised for approximately 30 days prior to the workshop dates. Flyers and mailers were created and emailed to the elected officials and project partners for posting on their social media and web pages. The workshops were also advertised on the MPO's and DeIDOT's webpage and the State's public meeting calendar. In addition, over 1000 direct mailings were sent out to area residents to let them know about the upcoming workshop.

The workshop format was an in-person open house style information session. There was no formal presentation, but staff personally explained the project to attendees as they arrived. Staff were positioned at four stations to provide additional information on the alternatives presented and to answer any questions. The information presented on the information boards included the following:

- Project Location
- Agenda Purpose and Need Statement
- Vehicle Volume Data
- Crash Data

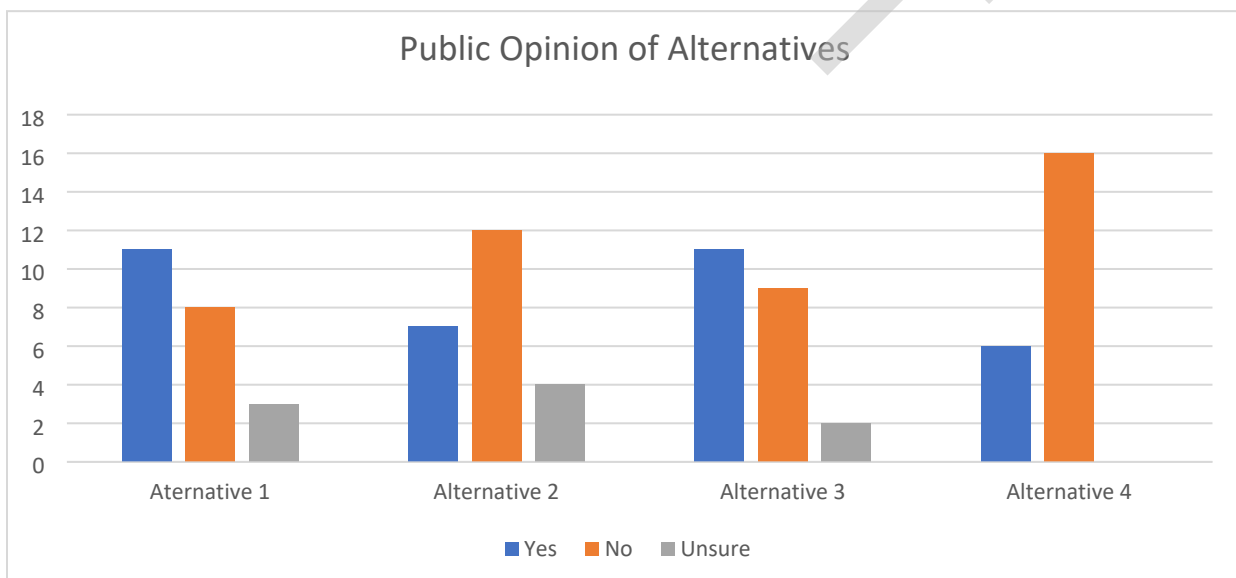
- Overview of the Alternatives
- Detailed Plans of the 4 Alternatives
- Comparison Matrix
- Anticipated Travel Time and Safety Benefits for Each Alternative

A total of 39 people attended the public workshop. No elected officials attended the workshop. There was a good cross section of people that used the intersection to access SR1. The magnolia fire company had several people attend and provided good feedback on the alternatives presented. The effected property owners were also in attendance and were able to share their opinions on the proposed alternatives.

At the end of the workshop the attendees were encouraged to fill out a comment form and provide their input on the proposed alternatives. Twenty six comment forms were received the night of the workshop.

In general, the feedback received through the formal comment forms and conversations during the public workshop was positive. There was general agreement that changes were needed at the intersection to improve both safety and capacity. There were five comment questions, one asking for an opinion on each of the four alternatives presented, as well as space for additional comments. The 4 alternatives presented included:

- Alternative 1 – Extension of Trap Shooters Road with Wetland Fill
- Alternative 2 – Extension of Trap Shooters Road with Bridge Spanning Wetland
- Alternative 3 – New Spur Road from Barkers Landing Road to SR1 with Diamond Interchange
- Alternative 4 – New Spur Road from Barkers Landing Road to SR1 with Trumpet Interchange



Some of the highlights of public comments include:

- Ramps need to be moved south, all alternatives are an inconvenience
- Reduce speeds on SR1
- Limit how far south you need to go before heading north
- Need temporary signage as an interim improvement
- Don't impact the farm land
- The new overpass options are good
- Need interim improvement

Based on the public opinion Alternatives 2 and 4 received the most support.

After the workshop we received 2 additional e-mails expressing opinions about the alternatives presented at the workshop. There were additional ideas proposed in the e-mails. One was to reinstall the merge lane NB to allow cars to accelerate. This condition was previously removed by DeDOT for safety reasons. Any addition of an acceleration lane will need to meet AASHTO design requirements. The second email received proposed a tight radius design with a bridge over SR1. This idea would meet the purpose and need, however the geometrics would not need AASHTO design requirements. This alternative would also be more expensive and provide little benefit over Options 1 and 2.

All of the alternatives, including a description of each, are available for review on the MPO website.

The following pages contain the boards presented at the workshop, sign-in sheets and comment forms received.

Flyer and Mailer

DRAFT

SR1 Trap Shooters Road Interchange - Public Workshop #2



Join us for the 2nd public workshop to explore possible solutions to traffic safety



Open house format:
Come anytime to review concepts and ideas and provide your input

We want to hear from you!

March 28, 2023
McIlvaine Elementary School
11 E. Walnut St.
Magnolia, DE 19962
6:00pm – 7:30pm



<https://doverkentmpo.delaware.gov/sr-1-trap-shooters-intersection-study-page/>

Display Boards

DRAFT

SR1 and Trap Shooters Road Planning Study

Public Workshop #2 Alternatives



March 28, 2023



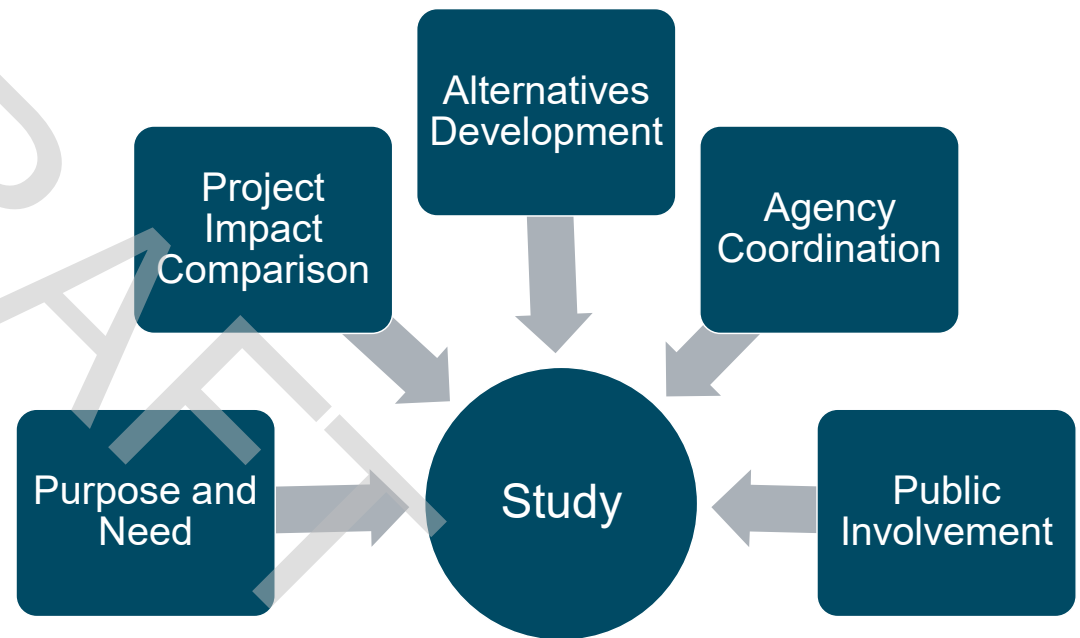
Overview of Information Presented Tonight

- Purpose and Need
- Summary of Existing Conditions
- Overview Map
- 4 Alternatives
 - Extend Existing Trap Shooters
 - Extend Existing Trap Shooters with Bridge
 - New Connection with Diamond Interchange
 - New connection with Trumpet Intersection
- Comparison Matrix
- Schedule

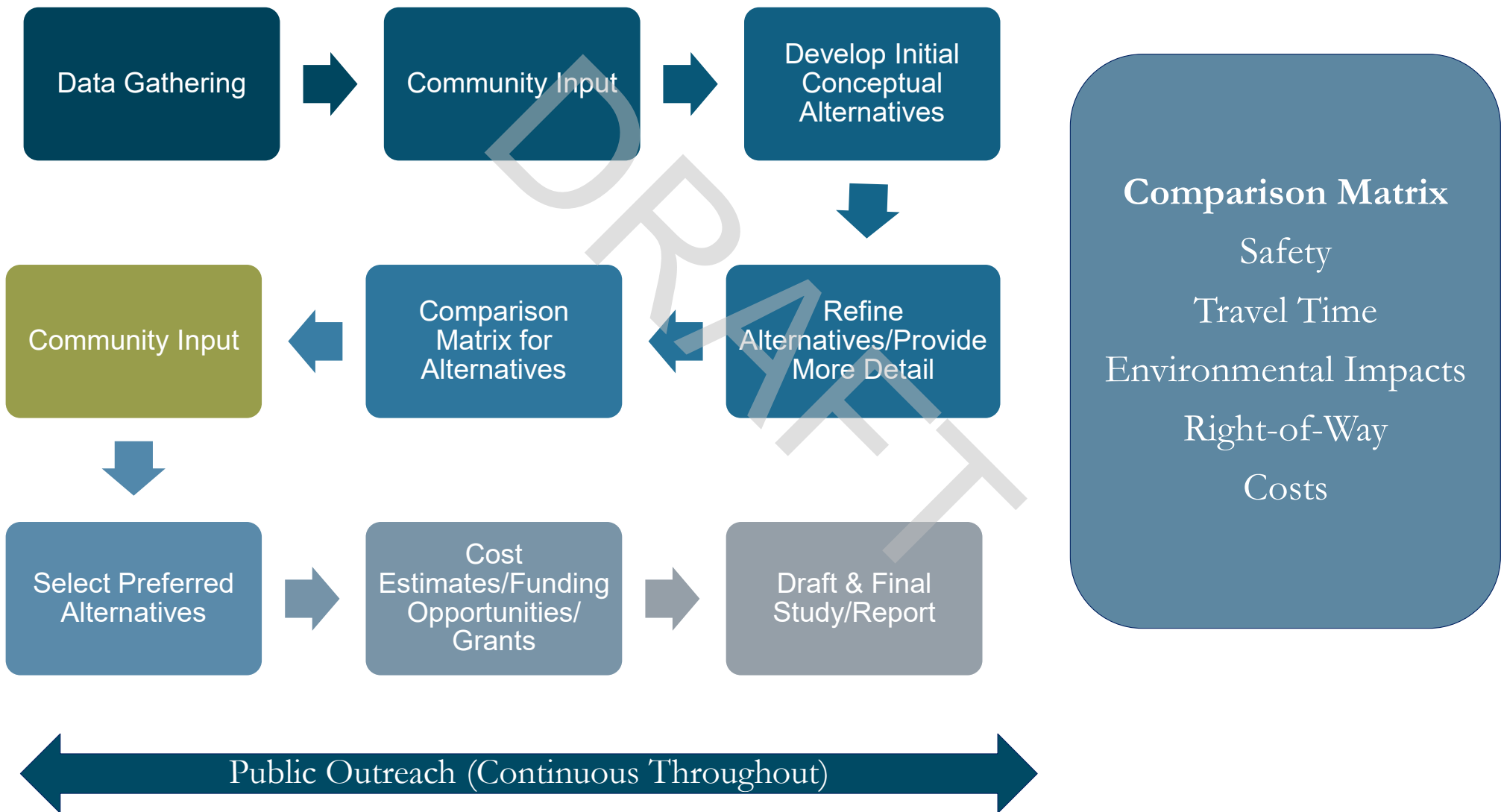


Purpose and Need

- 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

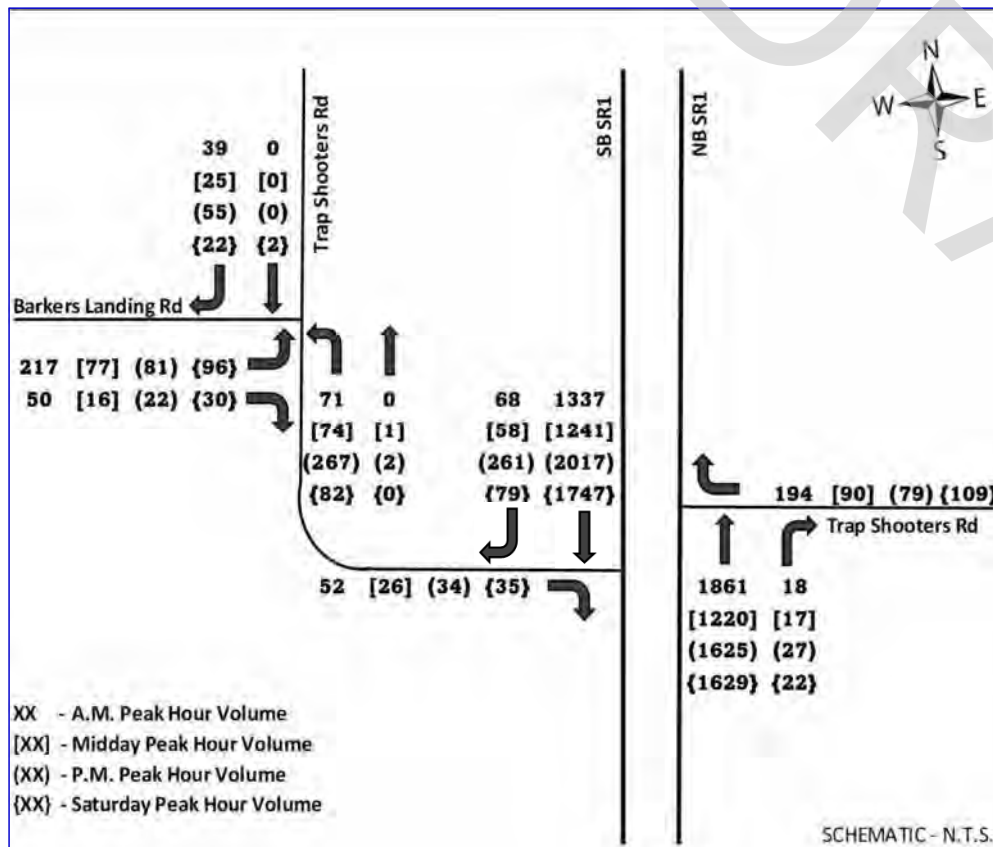


Process

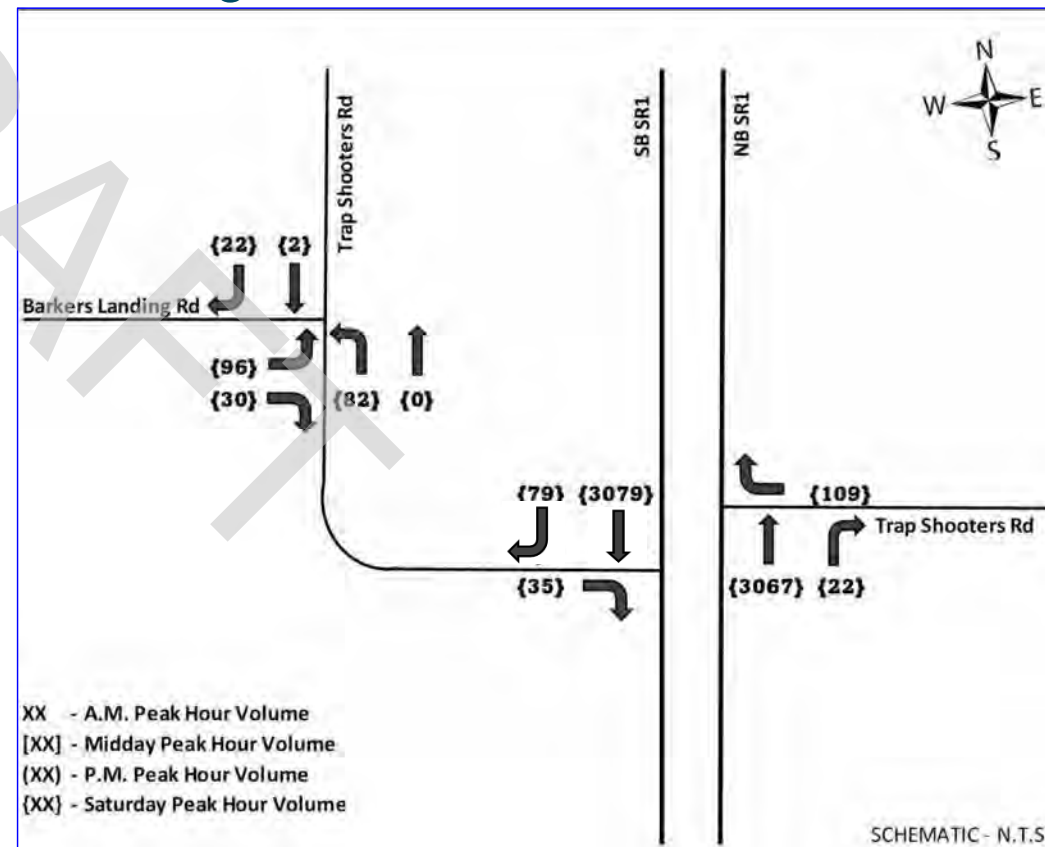


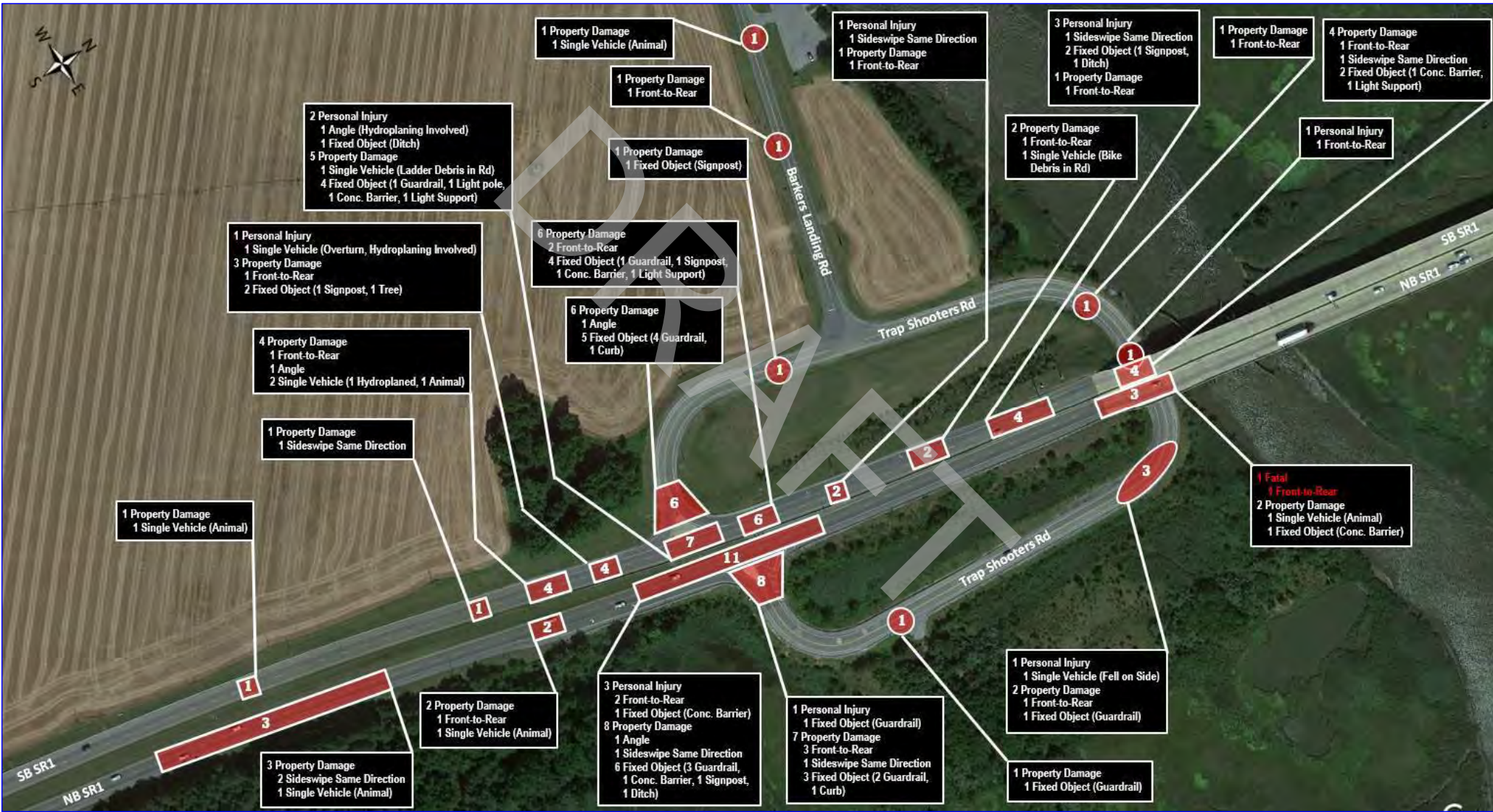
Existing Conditions

Non summer peak hour turning movements



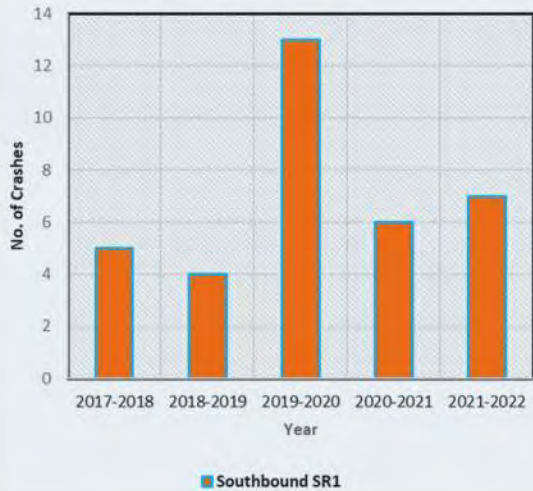
Summer Saturday peak hour turning movements





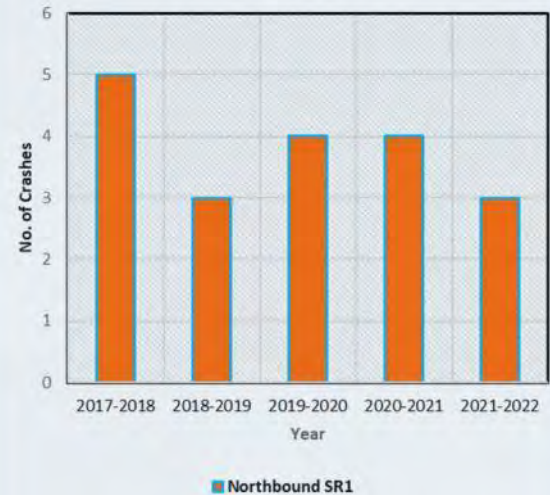
Existing Conditions

Annual Crashes

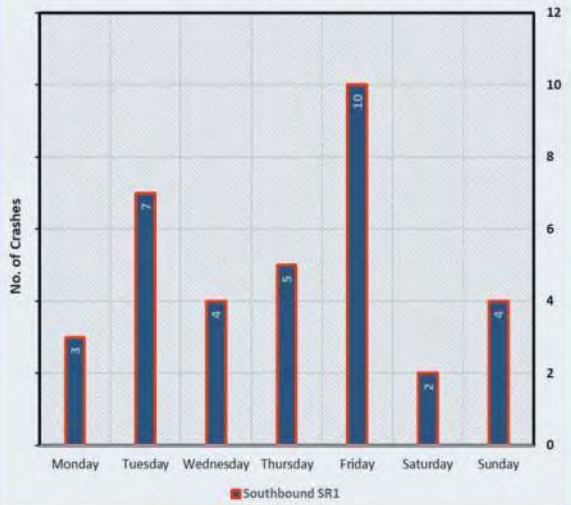


- SR1 Southbound Crashes
 - Total of 35 crashes
 - 2020 experienced an abnormally high number of crashes
 - Friday has a higher number of crashes

Annual Crashes

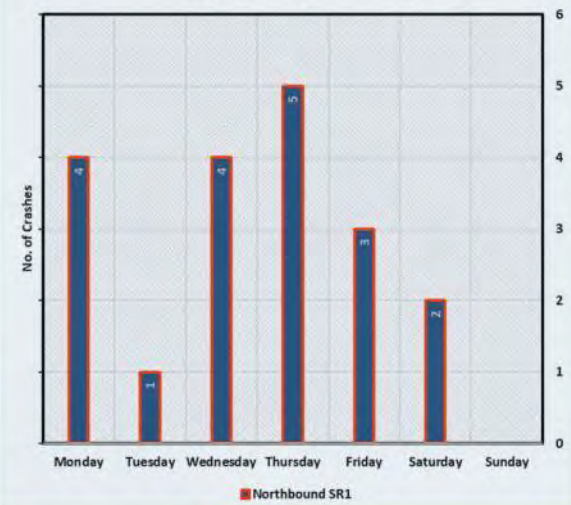


Five Year Day of the Week Crashes



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

Five Year Day of the Week Crashes



TRAP SHOOTERS ROAD - ALTERNATIVES OVERVIEW



ALTERNATIVE 1 - TRAP SHOOTERS ROAD EXTENDED - WETLAND FILL



LEGEND

	PROPOSED PAVEMENT
	PROPOSED RIGHT-OF-WAY DENIED ACCESS
	PROPOSED BARRIER
	POTENTIAL ADVANCED ACQUISITION
	EXISTING PAVEMENT REMOVED
	STORM WATER MANAGEMENT
	EXISTING WETLAND
	AGRICULTURAL PESTICIDE/HERBICIDE AREA
	IRRIGATION PATH
	PROPOSED SRI WIDENING BY OTHERS

Scale: 1" = 60'
SHEET 1 OF 2
3/28/2023

ALTERNATIVE 1 - TRAP SHOOTERS ROAD EXTENDED - WETLAND FILL



ALTERNATE 2 - TRAP SHOOTERS ROAD EXTENDED W/ BRIDGE



LEGEND

- PROPOSED PAVEMENT
- PROPOSED RIGHT-OF-WAY DENIED ACCESS
- PROPOSED BARRIER
- POTENTIAL ADVANCED ACQUISITION
- EXISTING PAVEMENT REQUIRED
- STORM WATER MANAGEMENT
- EXISTING WETLAND
- AGRICULTURAL PRESERVATION AREA
- IRRIGATION PATH
- PROPOSED SR1 WIDENING BY OTHERS

Scale: 1" = 60'
SHEET 1 OF 2
3/28/2023

ALTERNATE 2 - TRAP SHOOTERS ROAD EXTENDED W/ BRIDGE



ALTERNATIVE 3 - SPUR ROAD WITH DIAMOND INTERCHANGE



ALTERNATIVE 3 - SPUR ROAD WITH DIAMOND INTERCHANGE



ALTERNATIVE 3 - SPUR ROAD WITH DIAMOND INTERCHANGE



LEGEND

	PROPOSED PAVEMENT
	PROPOSED RIGHT-OF-WAY DENIED ACCESS
	PROPOSED BARRIER
	POTENTIAL ADVANCED ACQUISITION
	EXISTING PAVEMENT REMOVED
	STORM WATER MANAGEMENT
	EXISTING WETLAND
	AGRICULTURAL PRESERVATION AREA
	IRRIGATION PATH
	PROPOSED SR WIDENING BY OTHERS

Scale: 1" = 60'
SHEET 3 OF 3
3/28/2023

ALTERNATIVE 4 - SPUR ROAD WITH TRUMPET INTERCHANGE



ALTERNATIVE 4 - SPUR ROAD WITH TRUMPET INTERCHANGE



ALTERNATIVE 4 - SPUR ROAD WITH TRUMPET INTERCHANGE



Alternatives Comparison Matrix

SR1 Trap Shooters Road Interchnage Study									
Measures of Effectiveness - Physical Impacts									
Measure	UOM	Move SR1 Access Points South No Bridge		Move SR1 Access Points South With Bridge		Alternate 3 New Spur Road to SR1 with Diamond Interchnage		Alternate 4 New Spur Road to SR1 with Trumpet Interchnage	
		Wetland Impacts Permanent	Square Feet / Ac	10,155	0.23	786	0.02	0	0.00
Wetland Impacts Temp	Square Feet / Ac	0	0.00	6,621	0.15	0	0.00	0	0.00
Forested Land Impacts	Square Feet / Ac	278,036	6.38	287,930	6.61	357,621	8.21	326,427	7.49
Agricultural Land Impacts	Square Feet / Ac	164,408	3.77	164,408	3.77	549,855	12.62	558,526	12.82
Ag. Land Preservation Impacts	Square Feet / Ac	0	0.00	0	0.00	5,294	0.12	5,294	0.12
Irrigation Impacts	Square Feet / Ac	10,482	0.24	10,482	0.24	123,248	2.83	123,248	2.83
Right-of-way Area	Square Feet / Ac	519,455	11.93	553,971	12.72	919,292	21.10	969,772	22.26
Costs	Thousands Dollars	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

Alternatives Comparison Matrix

Crash Reduction Benefits Due to Project (All Alternatives)

	No. of Vehicles involved in Property Damage Crashes	Injury Crashes	Fatal Crashes	Total Annual Crash Reduction Benefit
2018 through 2021 Calendar Years*	72	11	1	
Crash Modification Factor (CMF)	0.84	0.84	0.84	
Crashes after Project	60.48	9.24	0.84	
Annual Crash Reduction	15.12	2.31	0.21	
USDOT Monetized Value per crash**	\$4,800.00	\$307,800.00	\$13,046,800.00	
Annual Crash Reduction Benefit	\$72,576.00	\$711,018.00	\$2,739,828.00	

* Excluding Crashes with animals as they are not susceptible to reduction with any geometric changes

** 2021 Base Year Dollars

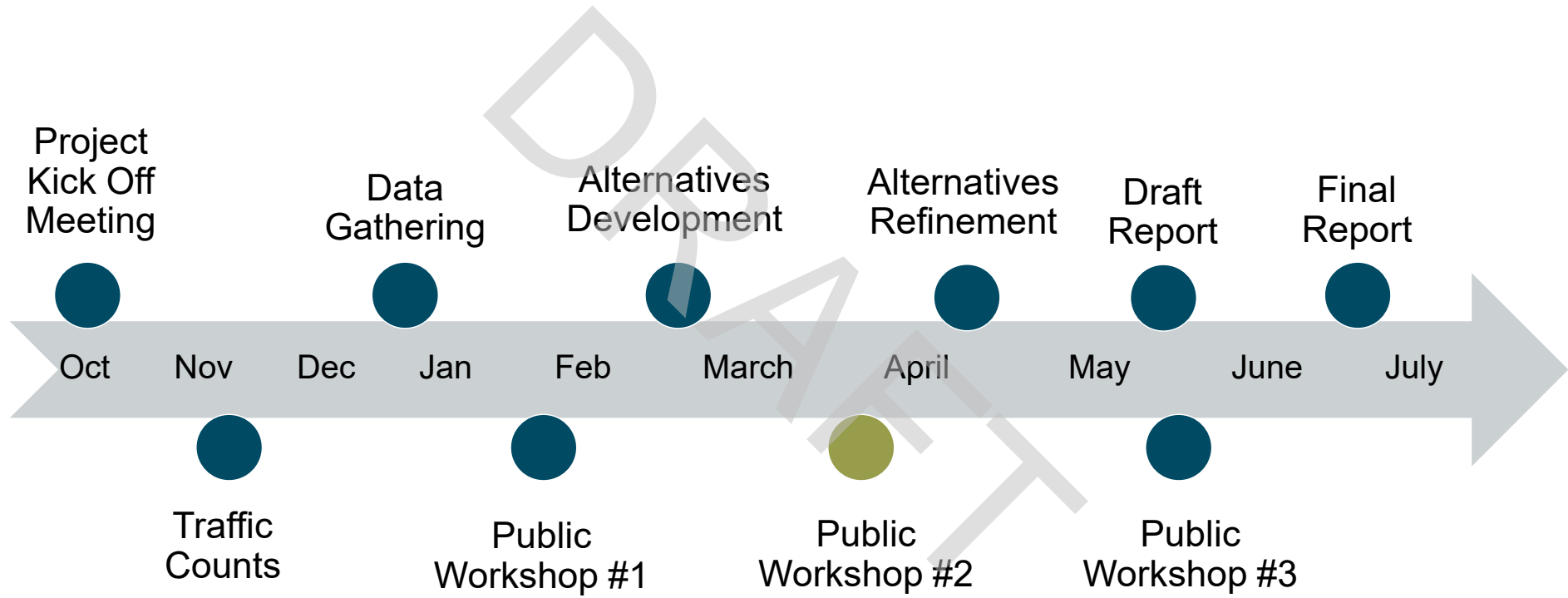
Travel Time Change with Magnolia Origin-Destination

Travel Time Change (Seconds)	Alt 1 Geometry				Alt 2 Geometry				Alt 3 Geometry				Alt 4 Geometry			
	Northbound Trips		Southbound Trip		Northbound Trips		Southbound Trip		Northbound Trips		Southbound Trip		Northbound Trips		Southbound Trip	
	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound
XX = Increase; (XX) = Decrease	11.7	20.6	12.5	6.7	0.2	9.2	9.7	5.7	(72.8)	(72.4)	13.3	(47.5)	(71.9)	(53.2)	12.7	(47.3)

Travel Time Change with Ponderosa Drive Origin-Destination

Travel Time Change (Seconds)	Alt 1 Geometry				Alt 2 Geometry				Alt 3 Geometry				Alt 4 Geometry			
	Northbound Trips		Southbound Trip		Northbound Trips		Southbound Trip		Northbound Trips		Southbound Trip		Northbound Trips		Southbound Trip	
	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound
XX = Increase; (XX) = Decrease	11.7	20.6	12.5	6.7	0.2	9.2	9.7	5.7	(22.6)	(15.9)	63.5	9.0	(21.7)	4.5	62.6	10.4

Schedule





<https://doverkentmpo.delaware.gov/sr-1-trap-shooters-intersection-study-page/>



Jim Galvin
302-387-6030
James.Galvin@doverkentmpo.org



Drew Boyce
302-734-9188
dboyce@kleinfelder.com

Thank You!

Thank you for taking the time to participate in today's community workshop.

Your comments are important to us and will be considered along with comments from government and regulatory agencies. Safety and operational requirements will also be considered.

Therefore, while all comments are considered, some comments may not be incorporate into the project.

Thank you again for your participation.

Please remember to complete the survey before you leave tonight.

**Thank
You!**

Sign in Sheets

DRAFT

SR1 / Trap Shooters Road Interchange Study
Public Workshop 2
March 28, 2023



Magnolia L.O

1	Name Ralph Satterfield	Address 2449 Woodlytown Rd	Phone 302 270 4724
	Organization Retired	Email Address	
2	Name Nan Buff	Address 411 W Birch Ln, Magnolia, DE 19968	Phone 302-535-0004
	Organization Fire chief - Magnolia	Email Address Kicab33@comcast.net	
3	Name Todd Burger	Address 2203 Ponderosa Dr Magnolia DE 19962	Phone 302-270-8417
	Organization	Email Address Greenbkdeirrigation@gmail.com	
4	Name Robert Helmer	Address 1266 woodlytown Rd magnolia DE 19962	Phone 302-382-8126
	Organization Magnolia Fire Co	Email Address	
5	Name Robert O'Leary	Address 4758 South Sak Street Magnolia 19962	Phone 302-617-2367
	Organization	Email Address RBO1979@aol.com	
6	Name Patrick Raymond	Address 49 JOSHUA Dr	Phone 302 399 1041
	Organization	Email Address Paraymads62@hotmail.com	
7	Name LADAWILCOY	Address 1578 MCGINNIS POND RD, MAGNOLIA, DE	Phone 302-222 4006
	Organization	Email Address LWILCOY1@GMAIL.COM	

SR1 / Trap Shooters Road Interchange Study
Public Workshop 2
March 28, 2023



Name	Address	Phone
8 Paula Zimmerman Organization	696 Plain Dealing Road, Magnolia, DE CZ11252@AOL.COM	(302) 724-0062
9 John Sgro Organization	192 BAY HILL ROAD MAGNOLIA DE SGROJ@OUTLOOK.COM	973 945-8531
10 RON CANTRELL Organization	38 N MAIN ST MAGNOLIA DE 19462 RONINORBIT@ICLOUD.COM	302 222 1351
11 Roberto Perez Organization	17 S MARINA ST MAGNOLIA robert.perez344@gmail.com	302 399 1929
12 JAMES FADIER Organization	37 S. MAIN ST. jrfc@yepmail.com	302-977-0977
13 JANE M. PILLET Organization	833 QUAKER HILL RD MAGNOLIA JPILLET@COMCAST-NET	302-698-0349
14 Phyllis Green Organization	110 MASTERS LANE Phyllis@comcast.net	201-280-8317

**SR1 / Trap Shooters Road Interchange Study
Public Workshop 2**

March 28, 2023



15	Name Brian Howard	Address 9 S Main St Magnolia	Phone 302-310-2035
	Organization	Email Address	
16	Name Coltin Vetter	Address 27 S Main St Magnolia	Phone 302 270 2325
	Organization	Email Address	
17	Name ROSEMAUREEN REID	Address 247 NICKLAUS LANE MAGNOLIA DE 19962	Phone 302-270-8670
	Organization	Email Address	
18	Name Shari Gray	Address 178 Ploudealing Road Magnolia	Phone 302-697-8795
	Organization	Email Address	
19	Name Scott Vardard	Address 99 Big Hat Lane	Phone (302) 270 - 7942
	Organization	Email Address	
20	Name Mike Hershberger	Address 602 ploudealing RD Magnolia DE	Phone 302 270-2853
	Organization	Email Address	
21	Name Patricia Cerchio	Address 763 Augusta National Magnolia	Phone 302-387-1309
	Organization	Email Address	

**SR1 / Trap Shooters Road Interchange Study
Public Workshop 2**

March 28, 2023



50 22	Name Eileen O'Connell	Address 553 MukDawo Lane, Magnolia	Phone 302-697-1542
	Organization Dawn O'Connell	Email Address DawnOConnell@msn.com	
51 23	Name ED MARVEL	Address 403 BARBERS LANE	Phone 302-582-1037
	Organization	Email Address	
52 24	Name Bernie Sarnoski	Address 787 Augusta National Drive, Magnolia DE	Phone
	Organization	Email Address Fudgieclay@comcast.net	
53 25	Name Mona Bennett	Address 36 N. Main St., Magnolia, DE	Phone 302-331-8882
	Organization	Email Address MonaBennettKantor@gmail.com	
54 26	Name ROGER CRAIG	Address 100 CHERRY HILL RD, MAGNOLIA	Phone 302-535-8478
	Organization	Email Address	
55 27	Name Patrice Hartung	Address 767 Windrow Way Magnolia DE	Phone 302-284-3316
	Organization	Email Address dtsterling@aol.com	
56 28	Name Kate Meire	Address 804 QUAKER HILL RD MAGNOLIA, DE 19962	Phone 302.698.0443
	Organization	Email Address kpicordabbler@comcast.net	

SR1 / Trap Shooters Road Interchange Study
Public Workshop 2

March 28, 2023



64 29	Name Brandon Bonk Organization Bonk Farms	Address 472 Barkers lanes LD Magnolia	Phone 302 542 2431
65 30	Name David Redding Organization	Address 475 CONGRESSWAY ST, MAGNOLIA Email Address dredded@yahoo.com	Phone 603-918-0403
66 31	Name Judi & CARL CACIOPPO Organization	Address 99 Cherry Hill Rd. Magnolia Email Address	Phone 302-697-3630
67 32	Name Lisamare Doughten Organization	Address 458 Tallamore Rd. Email Address Magnolia De 19962	Phone 302-363-9947
68 33	Name Patti Webb Organization	Address 151 Quaker Hill Ad Magnolia, De Email Address pattiswebb@gmail.com	Phone 302-382-1179
69 34	Name Rebecca Campbell Organization	Address 21 N. MAIN ST Magnolia, De Email Address	Phone 856 207 4896
70 35	Name Amy Zote Organization	Address 13 S. main St Magnolia Email Address Le5770@yahoo.com	Phone —

**SR1 / Trap Shooters Road Interchange Study
Public Workshop 2**

March 28, 2023



57 36	Name Ron Webb Organization	Address 151 Quaker Hill Rd Magna LA DE 19962 Phone 302-222-0551	Email Address rwebb@ezol.com
58 37	Name David Nicol Organization	Address 140 Renee Dr.; Felton DE 19943 Phone 302-382-9848	Email Address dnicol5530@gmail.com
59	Name	Address	Phone
	Organization	Email Address	
60	Name	Address	Phone
	Organization	Email Address	
61	Name	Address	Phone
	Organization	Email Address	
62	Name	Address	Phone
	Organization	Email Address	
63	Name	Address	Phone
	Organization	Email Address	

Comment Sheets

DRAFT



SR1 / Trap Shooters Road Interchange Study - Public Workshop 2
March 28, 2023
Comment Form

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 A. Yes
 B. No
 C. Unsure

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 B. No
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5. Is there another configuration for the corridor you prefer?
If so, please describe: (please use the back of this form if you need additional space)

Additional Comments: (please use the back of this form if you need additional space)

Please provide your contact information to stay informed about this project:

Name: *JULIE CACIOPPO*
Address: *99 CHERRY HILL RD, MARGO/IA, DE 19962*
Email: *STARSPRO @ AOL.COM*

Please turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:

James Galvin, AICP – Dover/Kent Co MPO Principal Planner
james.galvin@doverkentmpo.org - Ph: 302.387.6030
1783 Friends Way, Ste 3, Camden, DE 19934
<http://www.doverkentmpo.org>



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March 28, 2023
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Please provide your contact information to stay informed about this project:

Name: *Keliph Satterfield*
 Address: *2419 Woodlawn Rd Magnolia*
 Email:

Please turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:

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james.galvin@doverkentmpo.org - Ph: 302.387.6030

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Length of north Road off Ramp to Trap Shooters Road. Widen bridge to Lehigh South of Ramp and north on Ramp

Additional Comments: (please use the back of this form if you need additional space)

Reduce Speed on Rt 1 to 35 miles an Hour

Please provide your contact information to stay informed about this project:

Name: Robert Overmiller
 Address: 4758 South State Street, Magnolia DE 19962
 Email: R001979@AOL.com

Please turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:

James Galvin, AICP – Dover/Kent Co MPO Principal Planner
james.galvin@doverkentmpo.org - Ph: 302.387.6030
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SR1 / Trap Shooters Road Interchange Study - Public Workshop 2
March 28, 2023
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Please provide your contact information to stay informed about this project:

Name:

Address:

Email:

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 If so, please describe: (please use the back of this form if you need additional space)

Additional Comments: (please use the back of this form if you need additional space)
 CURRENT SIGNAGE - NORTH + SOUTH OF RT 1 -
 IS POOR

Please provide your contact information to stay informed about this project:
 Name: DAVID REDDING
 Address: 47 CONGRESSORAL CT., MAGARVIA
 Email: pdredding@yahoo.com

Please turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:
James Galvin, AICP – Dover/Kent Co MPO Principal Planner
james.galvin@doverkentmpo.org - Ph: 302.387.6030
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SR1 / Trap Shooters Road Interchange Study - Public Workshop 2

March 28, 2023

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Additional Comments: (please use the back of this form if you need additional space)

Safety 1st

Cost Spectors? There is no mention

Please provide your contact information to stay informed about this project:

Name: *Green*

Address: *110 W. Main St. Dover*

Email: *green110@comcast.net*

Please turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:

James Galvin, AICP – Dover/Kent Co MPO Principal Planner

james.galvin@doverkentmpo.org - Ph: 302.387.6030

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If so, please describe: (please use the back of this form if you need additional space)

THE RAMPs NEED TO BE MOVED SOUTHBOUND TO ALLOW
SOUTHBOUND DECELERATION AND NORTHBOUND ACCELERATION.
ALL OF THE PROPOSED SOLUTIONS ARE AN INCONVENIENCE
TO RESIDENTS.

Additional Comments: (please use the back of this form if you need additional space)

I SUGGEST A FLYOVER FROM BARKERS LANDING RD TO NORTHBOUND
SR1.

Please provide your contact information to stay informed about this project:

Name: ROGER CRAIG
 Address: 100 CHERRY HILL RD. MARGOLIA
 Email: ROCC197@GMAIL.COM

Please turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:

James Galvin, AICP – Dover/Kent Co MPO Principal Planner
james.galvin@doverkentmpo.org - Ph: 302.387.6030
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SR1 / Trap Shooters Road Interchange Study - Public Workshop 2

March 28, 2023

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Additional Comments: (please use the back of this form if you need additional space)

Until then, "SIGNAGE ALERTING TRAFFIC TO BE CAUTIOUS OF MARGING TRAFFIC"

Please provide your contact information to stay informed about this project:

Name: Maria C Bennett
 Address: POB 77, 36 N. Main St., Magnolia, DE 19962
 Email: MariaCBennettReactor@gmail.com

Please turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:

James Galvin, AICP – Dover/Kent Co MPO Principal Planner

james.galvin@doverkentmpo.org - Ph: 302.387.6030

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SR1 / Trap Shooters Road Interchange Study - Public Workshop 2

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Additional Comments: (please use the back of this form if you need additional space)

I don't want to go far south before going north

Please provide your contact information to stay informed about this project:

Name: *Paula Zimmerman*
 Address: *696 Plaindealing Road, Magnolia DE 19962*
 Email: *CZ111252@AOL.com*

Please turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:

James Galvin, AICP – Dover/Kent Co MPO Principal Planner

james.galvin@doverkentmpo.org - Ph: 302.387.6030

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Additional Comments: (please use the back of this form if you need additional space)

If you want to spend an excessive amount of money we need ADA compliant sidewalks in magnolia, new water pipes, roads fixed and Trucks to be prohibited through town.

Please provide your contact information to stay informed about this project:

Name: *Rebecca Campbell*
 Address: *211 MAIN ST Magnolia DE 19962*
 Email: *856 207 4896*

Please turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:

James Galvin, AICP – Dover/Kent Co MPO Principal Planner

james.galvin@doverkentmpo.org - Ph: 302.387.6030

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3. Do you support Alternative 3 – New Spur Road from Barkers Landing Road to SR1 with Diamond Interchange?
 A. Yes
 B. No
 C. Unsure

4. Do you support Alternative 4 – New Spur Road from Barkers Landing Road to SR1 with Trumpet Interchange?
 A. Yes
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5. Is there another configuration for the corridor you prefer?
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Additional Comments: (please use the back of this form if you need additional space)

FOR NB RT 1, AS AN INTERIM MEASURE, PLACE SIGNS IN ADVANCE OF EXIST TRAPSHOOTERS ON RAMP THAT SAY " ~~ENTER~~ TRAFFIC ENTERING FROM THE RIGHT" TO HELP W/ TRAFFIC TRYING TO ENTER AND ACCEL. ON INCLINE @ BRIDGE.

Please provide your contact information to stay informed about this project:

Name: LANCE WILGUS
 Address: 1578 McGINNIS POND RD, MARGARUA, NJ 19962
 Email: LWILGUS1@GMAIL.COM

Please turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:

James Galvin, AICP – Dover/Kent Co MPO Principal Planner

james.galvin@doverkentmpo.org - Ph: 302.387.6030

1783 Friends Way, Ste 3, Camden, DE 19934

<http://www.doverkentmpo.org>



SR1 / Trap Shooters Road Interchange Study - Public Workshop 2
March 28, 2023
Comment Form

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 A. Yes
 B. No
 C. Unsure

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Additional Comments: (please use the back of this form if you need additional space)

Please provide your contact information to stay informed about this project:

Name: PATRICK RAYMOND
 Address: 49 JOSHUA DR MAGNOLIA DE 19962
 Email: PR@RAYMOND62C@HOTMAIL.COM

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SIGNS for "MERGING" For Now

Additional Comments: (please use the back of this form if you need additional space)

DO NOT GO THRU the Farm LANDS

Please provide your contact information to stay informed about this project:

Name: *SAMARIE DOUGHTEN*
Address: *458 TULLAMORE RD MAGNOLIA DE 19962*
Email:

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Better Hwy Sign hope better than
Beaver Beach signs

Additional Comments: (please use the back of this form if you need additional space)

Please provide your contact information to stay informed about this project:

Name: Roberto Perez
 Address: 19 Sycamore St Magnolia
 Email: RobertoPerez344@Gmail.com

Please turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:

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If so, please describe: (please use the back of this form if you need additional space)

*Like the proposed overpass with alternative 3.
 I think this would be the best option*

Additional Comments: (please use the back of this form if you need additional space)

Please provide your contact information to stay informed about this project:

Name: *Maureen Rob*
 Address: *247 Hicklans Lane, Magnolia*
 Email: *maureen@therebs.net*

Please turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:

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Additional Comments: (please use the back of this form if you need additional space)

Please provide your contact information to stay informed about this project:

Name: *Colton Vantard*
 Address: *275 Main St Maryland DE*
 Email: *ColtonV8423@gmail.com*

Please turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:

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ok to bridge wetland on west side to make road tighter to avoid irrigation - bridge that wetland if necessary - see blue sticky farmer suggested

2. Do you support Alternative 2 – Extension of Trap Shooters Road with Bridge Spanning Wetland?

- A. Yes
- B. No
- C. Unsure

Farmer suggested

3. Do you support Alternative 3 – New Spur Road from Barkers Landing Road to SR1 with Diamond Interchange?

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- A. Yes
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- C. Unsure

Biggest concern is New trap Shooters have speed enforcement

2. Do you support Alternative 2 – Extension of Trap Shooters Road with Bridge Spanning Wetland?

- A. Yes
- B. No
- C. Unsure

Bridge will be too expensive

3. Do you support Alternative 3 – New Spur Road from Barkers Landing Road to SR1 with Diamond Interchange?

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Additional Comments: (please use the back of this form if you need additional space)

Have we learned anything from the Wyoming Spur @ Paw MIA.

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Name:

Address:

Email:

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Additional Comments: (please use the back of this form if you need additional space)

Please provide your contact information to stay informed about this project:

Name: *Mike Hershberger*
 Address: *600 plain dealing RD Magnolia DE 19962*
 Email:

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Additional Comments: (please use the back of this form if you need additional space)

My 2nd choice is the 2

Please provide your contact information to stay informed about this project:

Name: *Patricia Cerchio*
 Address: *763 Augusta National Magnolia*
 Email: *patricia@patricia-vieira.com*
pat@NavyWN.com

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 C. Unsure

2. Do you support Alternative 2 – Extension of Trap Shooters Road with Bridge Spanning Wetland?

- ③ A. Yes
 B. No
 C. Unsure *worry about speeding to get to the entrance to NB1*

3. Do you support Alternative 3 – New Spur Road from Barkers Landing Road to SR1 with Diamond Interchange?

- ② A. Yes
 B. No
 C. Unsure *I like the bridge but dont like taking away the farmers land.*

4. Do you support Alternative 4 – New Spur Road from Barkers Landing Road to SR1 with Trumpet Interchange?

- ④ A. Yes
 B. No
 C. Unsure

5. Is there another configuration for the corridor you prefer?

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Additional Comments: (please use the back of this form if you need additional space)

Thanks for having this I hope our community shows up to use their voice!

Please provide your contact information to stay informed about this project:

Name: *Amy Zook*
Address: *135 main St Magnolia*
Email: *Le877o@yahoo.com*

Please turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:

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Samia's notes

Need interim improvements
if these alternatives don't
have funding

- ① Need merge ahead signs so people on SR1 know to move over - This is done very well in Milford
- ② Everyone ignores signs do something more
- ③ Why no indermi alts?
- ④ Why do you make me face straight out when I need to go right - you made things worse
- ⑤ DO ANY of these NOW o o o o



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NEW SIGNAGE NOW would Be very HELPFUL
UNTIL THE CONSTRUCTION STARTS.
SEE BACK FOR SOME IDEAS

Please provide your contact information to stay informed about this project:

Name: John Sgro
 Address: 192 BAY HILL ROAD MAGNOLIA DE
 Email: SGROJ@OUTLOOK.COM

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~~Signage~~

Signage :

1) LARGER MAGNOLIA EXIT SIGNS
BOTH WAYS AND A BIT
EARLIER THAN THE CURRENT
SIGNS (WHICH COULD REMAIN)

2) CAUTION
MERGING TRAFFIC SIGNS
ON RT 1 NORTH AND SOUTH



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See Back

Additional Comments: (please use the back of this form if you need additional space)

Please provide your contact information to stay informed about this project:

Name:

Address:

Email:

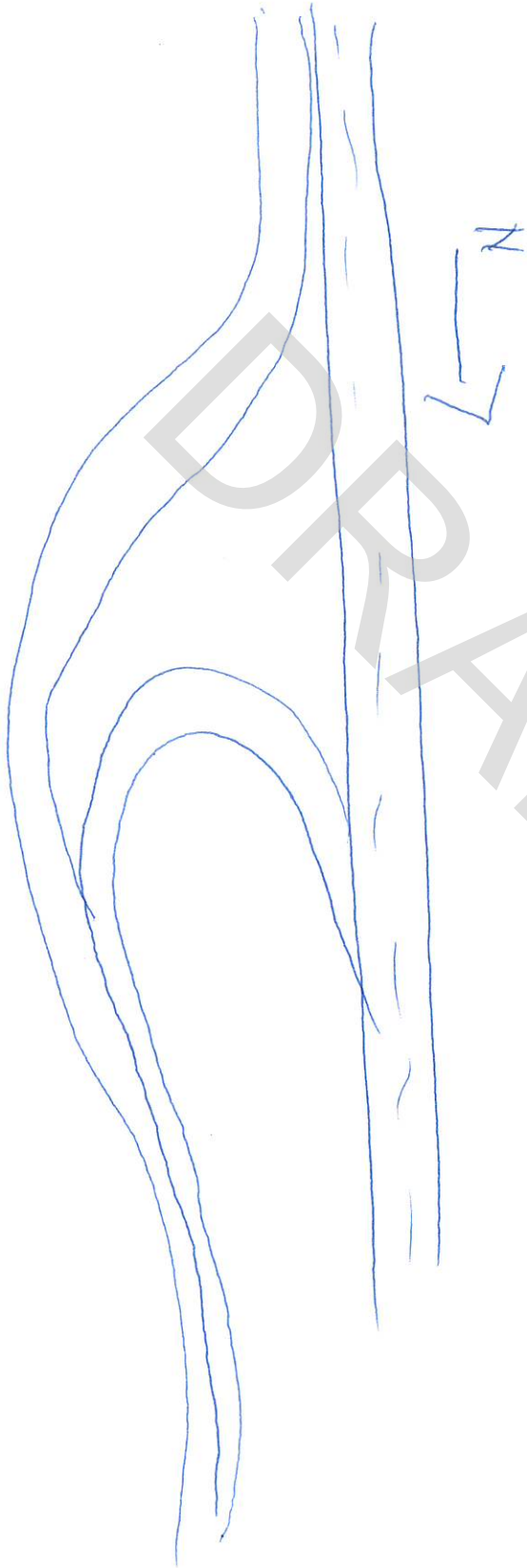
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DRAFT



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CLOSE THIS AND USE EXIT 88

Additional Comments: (please use the back of this form if you need additional space)

WE JUST BUILT A NEW INTERCHANGE
1/2 MILE SOUTH OF PROPOSED END OF

Please provide your contact information to stay informed about this project:

Name: BRIAN HOWARD
 Address: 95 MAIN ST MAGNOLIA
 Email: BHUSIC302@GMAIL

THIS MESS!

Please turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:

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james.galvin@doverkentmpo.org - Ph: 302.387.6030
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~~WHY ARE~~

WE JUST SPENT MILLIONS
FOR THE NEW INTERCHANGE (#88)
WHY SPEND ALL THIS TO DO
THE SAME THING?

P.S. ALL MAPS +
CHARTS ARE
NORTH UP



From: Melissa Anderson <mastiller1@yahoo.com>
Sent: Tuesday, March 21, 2023 1:16 PM
To: James Galvin <james.galvin@doverkentmpo.org>
Subject: Trap Shooters Rd exit

Hello,

I am not sure I will be able to attend the upcoming meeting, but I wanted to pass along my quick thoughts. Yes, I knew that southbound would have more accidents, but I do not think that you know why that it is. As someone who takes that exit and entrance daily, the exit lane is too short and the curve at the end is too sharp in slippery conditions. I see this plan partially rectifies the issue, but it doesn't seem to extend the exit lane/ramp, not to mention it increases the land you will be using to only partially fix this issue. Extending the exit lane would fix the issue without utilizing more land.

As for the northbound entrance, you could simply add a merge lane and fix the issue completely because the issue there is that cars entering Rt. 1 spin their tires when entering, causing a delayed entrance and accidents. Adding traction and a merge lane would fix that issue.

Any reason why these things can't be done without taking up more land? Seems like widening the bridge is all that it would take to fix both. I hope you personally drive this route going northbound Monday mornings between 7:30-8:30am and exit Southbound Thursdays between 4-5pm starting March and ending in December. Those are the worst times.

Also, the bowers beach exit, can we please talk about the timing of those lights? Why do we have to hit every single light every time going southbound.

Thanks,

A magnolia home owner

From: Roger Craig <rogc197@gmail.com>

Sent: Sunday, April 2, 2023 5:48:52 PM

To: dboyce@centuryeng.com <dboyce@centuryeng.com>

Cc: Sen. Eric Buckson <eric.buckson@delaware.gov>; Hon. Kerri Evelyn Harris <kerrievelyn.harris@delaware.gov>; Robert Scott <Robert.Scott@kentcountyde.gov>; Terry L. Pepper <terry.pepper@kentcountyde.gov>

Subject: Barkers Landing Rd./Trap Shooters Rd. Interchange

Hello Mr. Boyce,

Thank you for informing residents of Century Engineering's 4 proposals to improve the Barkers Landing Rd./Trap Shooters Rd. interchange on DE Rte 1. Northbound entry onto DEL-1 is certainly one of the most serious driving hazards in the area (it makes one long for "3 deuces and a 4-speed, and a 389"). The primary problems with the existing interchange, as I see it, is northbound entry and southbound exit.

The solutions presented on March 27th would, I believe, mitigate these problems but at great expense and inconvenience to the public. I'd like to suggest a much easier and possibly less expensive solution to the problem.

As the attached drawing suggests, I believe that forking off the southbound entrance (blue line), erecting an inclined ramp parallel to the southbound roadway long enough to clear the roadway, then bridging across and down onto the roadway would provide safe, efficient access to northbound DEL-1. Distances shown are not to scale as I don't know the proscribed specifications, but the ramp's length would be adjusted to meet grade and clearance requirements. The radius of the turn would be approximately what is found at, for instance, the northbound Rte 12 – Frederica interchange.

An issue exists, though, with exiting northbound traffic. I've considered several solutions and think that moving the deceleration ramp to the right of the descending northbound entrance ramp is the cleanest and safest.

A feature noted in the exhibits is to extend the southbound exit ramp further south to provide a longer deceleration ramp. I concur that the existing ramp is much too short especially since it is on a downhill grade. I normally pull onto the shoulder as soon as I clear the bridge to give me more room for slowing with less vigorous braking. Other than moving the proposed northbound ramp bridge further south, I don't think such an adjustment represents a problem.

I realize that the sketch is crude and I'm sure that the talented and creative engineers that developed the 4 alternative proposals presented last week will make it even more workable.

Note that I believe this solution would:

- save money,
- reduce construction time,
- reduce driving time,
- reduce disruption to travel patterns,
- reduce pollution,
- reduce incursion into preserved wetlands, and
- reduce property condemnations

Yet it will still achieve the improved safety goals of the project. Did I mention save taxpayers money?

Again, I appreciate your keeping the public informed regarding plans to improve this very hazardous interchange and look forward to hearing more as the plans develop.

Regards,

Roger A. Craig

“You can’t promote principled anti-corruption action without pissing off corrupt people.”

George Kent, Former Dep. Asst. Sec. of State



Workshop Pictures

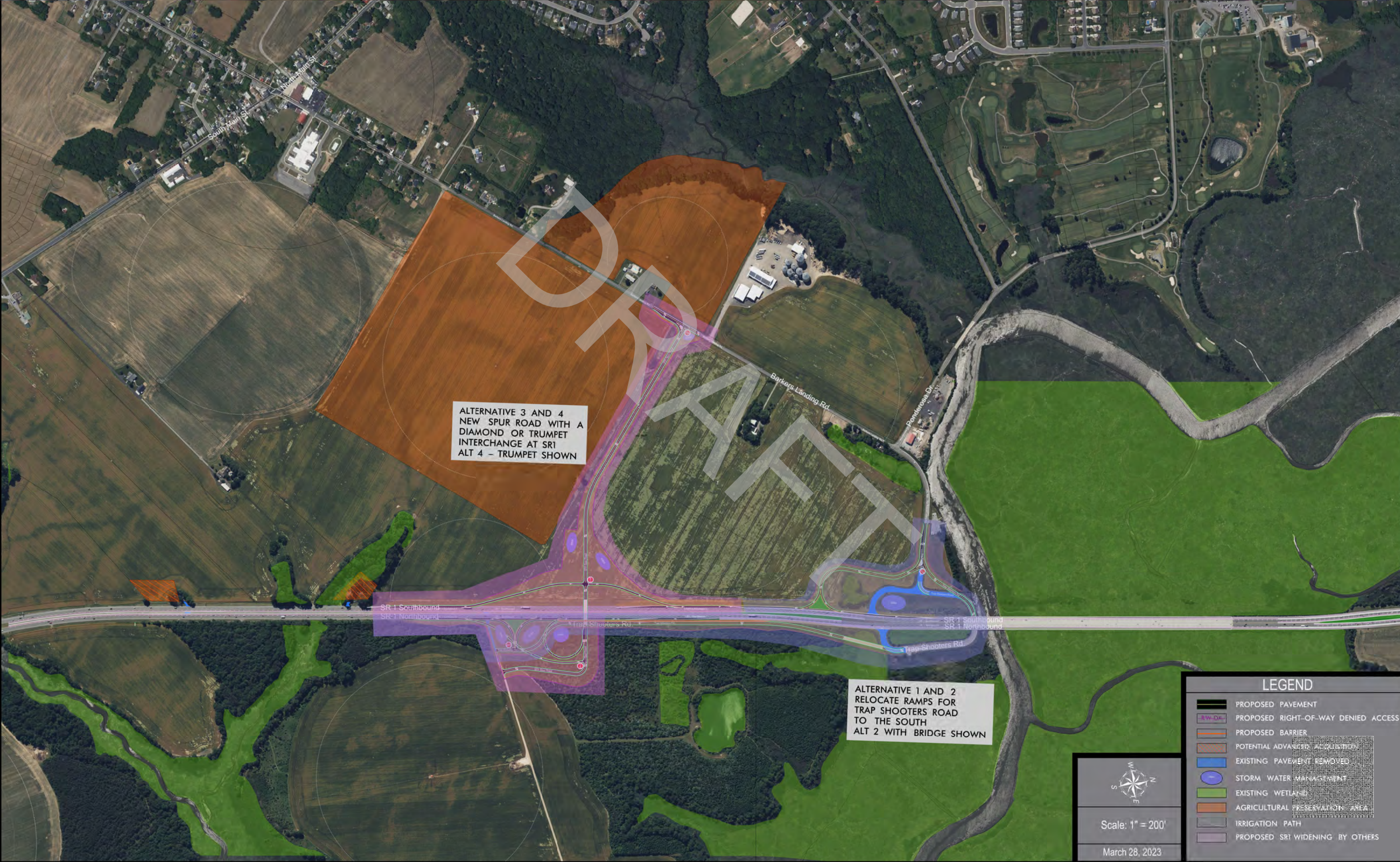
DRAFT





Appendix E: Preferred Alternatives

DRAFT



ALTERNATIVE 3 AND 4
NEW SPUR ROAD WITH A
DIAMOND OR TRUMPET
INTERCHANGE AT SRI
ALT 4 - TRUMPET SHOWN

ALTERNATIVE 1 AND 2
RELOCATE RAMPS FOR
TRAP SHOOTERS ROAD
TO THE SOUTH
ALT 2 WITH BRIDGE SHOWN

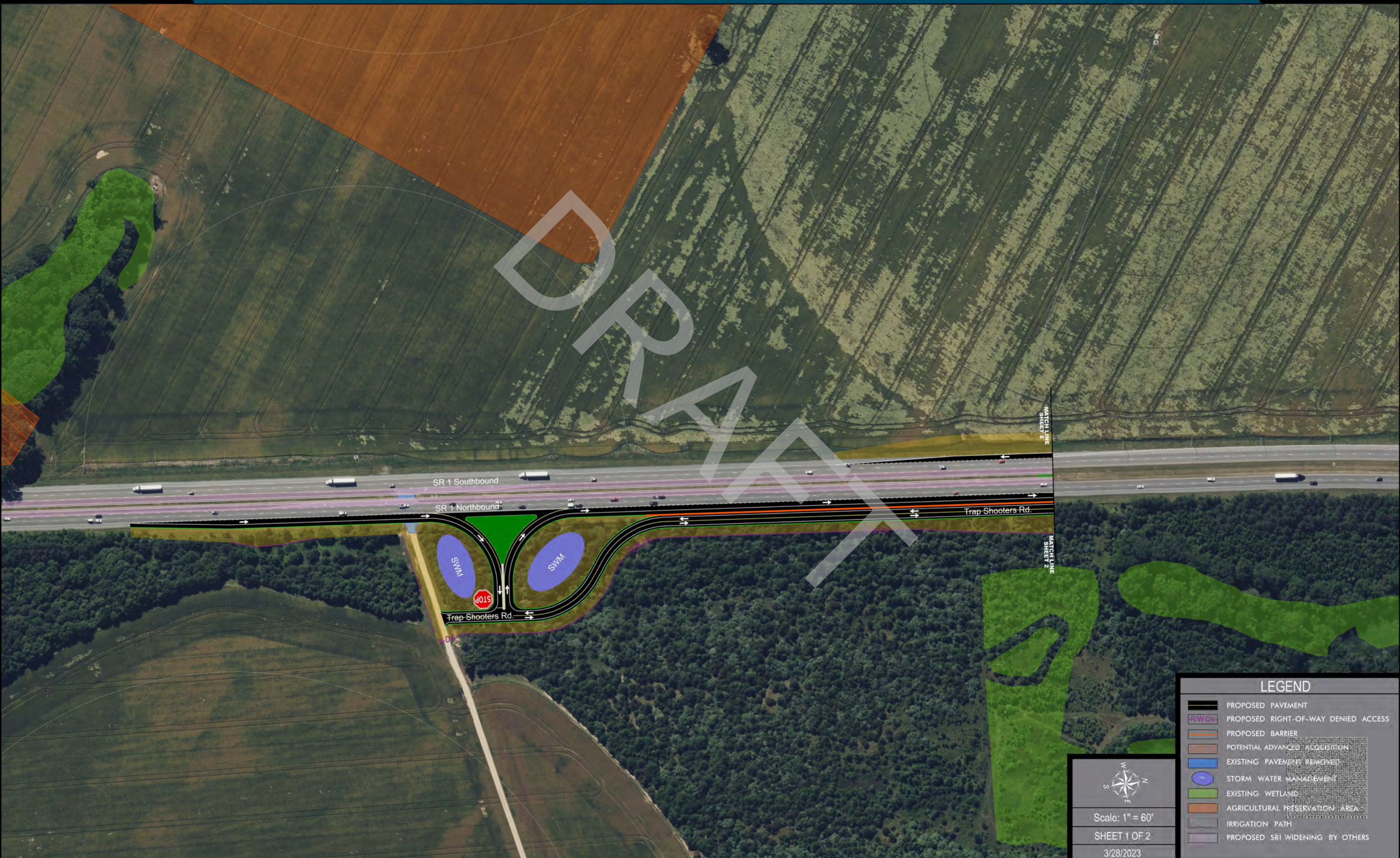
LEGEND

- PROPOSED PAVEMENT
- PROPOSED RIGHT-OF-WAY DENIED ACCESS
- PROPOSED BARRIER
- POTENTIAL ADVANCED FLOODING
- EXISTING PAVEMENT REMOVED
- STORM WATER MANAGEMENT
- EXISTING WETLANDS
- AGRICULTURAL PRESERVATION AREA
- IRRIGATION PATH
- PROPOSED SRI WIDENING BY OTHERS

Scale: 1" = 200'

March 28, 2023

DRAFT



LEGEND	
	PROPOSED PAVEMENT
	PROPOSED RIGHT-OF-WAY DENIED ACCESS
	PROPOSED BARRIER
	POTENTIAL ADVANCED ACQUISITION
	EXISTING PAVEMENT REMOVE
	STORM WATER MANAGEMENT
	EXISTING WETLAND
	AGRICULTURAL PRESERVATION AREA
	IRRIGATION PATH
	PROPOSED SRI WIDENING BY OTHERS

Scale: 1" = 60'
 SHEET 1 OF 2
 3/28/2023



MATCH LINE SHEET 1

MATCH LINE SHEET 1

SR 1 Southbound

SR 1 Northbound

Barkers Landing Rd

303

Trap Shooters Rd

Saint Jones River

SWM

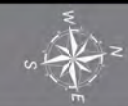
SR 1 Southbound

SR 1 Northbound

Trap Shooters Rd

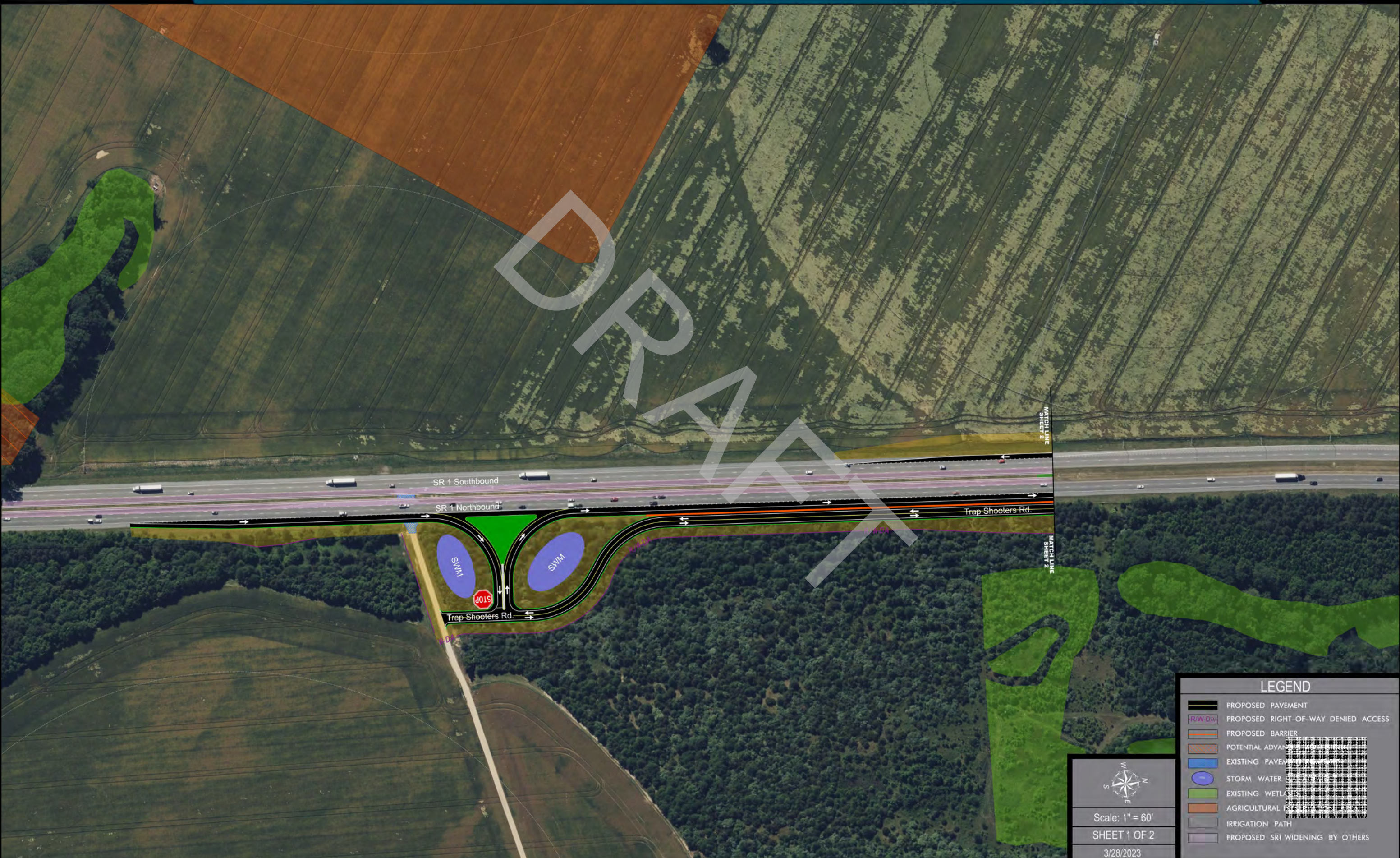
LEGEND

- PROPOSED PAVEMENT
- PROPOSED RIGHT-OF-WAY DENIED ACCESS
- PROPOSED BARRIER
- POTENTIAL ADVANCED ACQUISITION
- EXISTING PAVEMENT REMOVAL
- STORM WATER MANAGEMENT
- EXISTING WETLAND
- AGRICULTURAL PRESERVATION AREA
- IRRIGATION PATH
- PROPOSED SRI WIDENING BY OTHERS



Scale: 1" = 60'
SHEET 2 OF 2
3/28/2023







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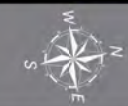


MATCHLINE SHEET 2

MATCHLINE SHEET 1

LEGEND











-  PROPOSED PAVEMENT
-  PROPOSED RIGHT-OF-WAY DENIED ACCESS
-  PROPOSED BARRIER
-  POTENTIAL ADVANCED ACQUISITION
-  EXISTING PAVEMENT REMOVE
-  STORM WATER MANAGEMENT
-  EXISTING WETLAND
-  AGRICULTURAL PRESERVATION AREA
-  IRRIGATION PATH
-  PROPOSED SRI WIDENING BY OTHERS

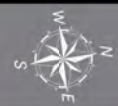


Scale: 1" = 60'
SHEET 1 OF 2
3/28/2023



LEGEND

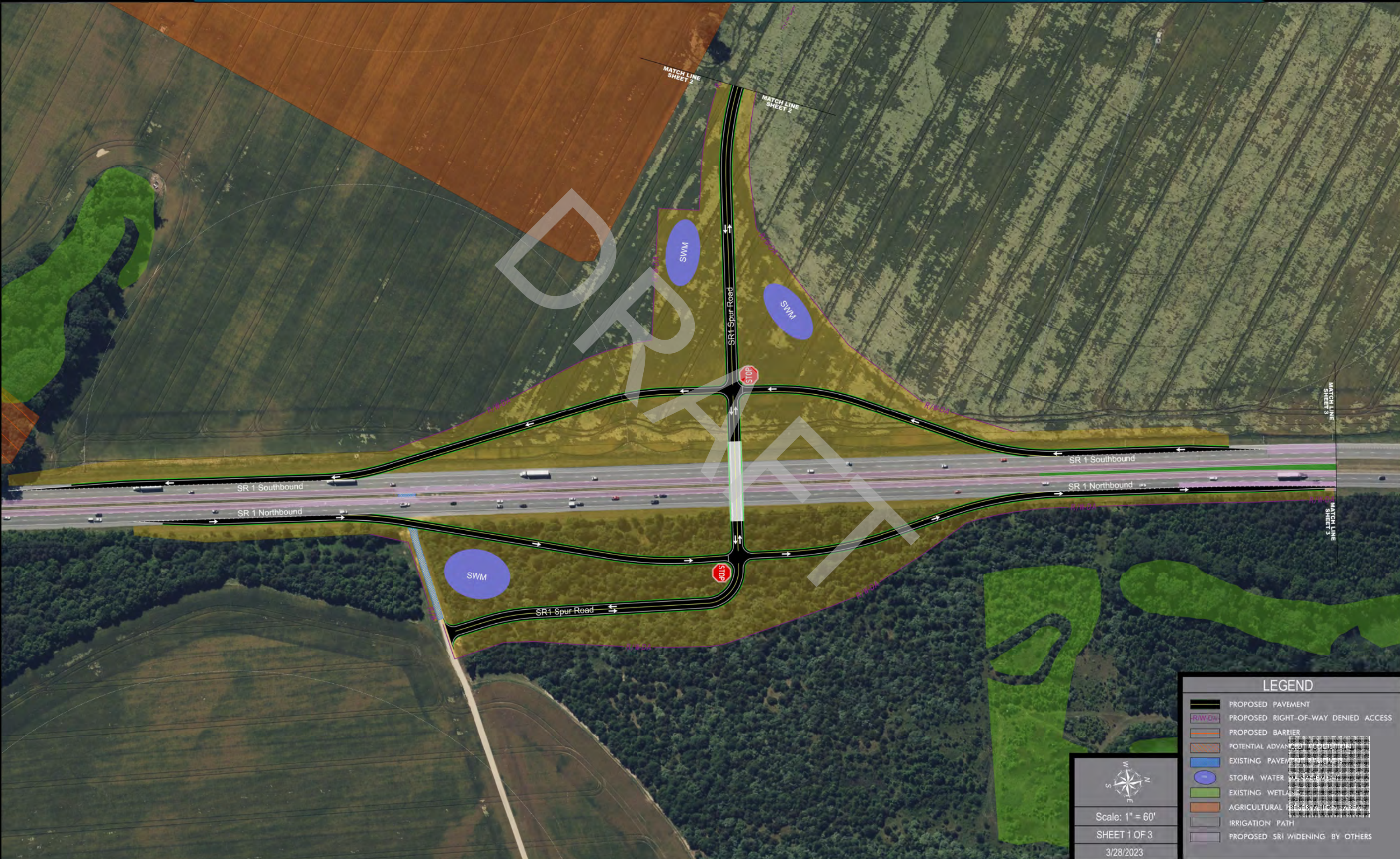
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-  PROPOSED RIGHT-OF-WAY DENIED ACCESS
-  PROPOSED BARRIER
-  POTENTIAL ADVANCED ACQUISITION
-  EXISTING PAVEMENT REMOVE
-  STORM WATER MANAGEMENT
-  EXISTING WETLAND
-  AGRICULTURAL PRESERVATION AREA
-  IRRIGATION PATH
-  PROPOSED SRI WIDENING BY OTHERS



Scale: 1" = 60'

SHEET 2 OF 2

3/28/2023



LEGEND	
	PROPOSED PAVEMENT
	PROPOSED RIGHT-OF-WAY DENIED ACCESS
	PROPOSED BARRIER
	POTENTIAL ADVANCED ACQUISITION
	EXISTING PAVEMENT REMOVAL
	STORM WATER MANAGEMENT
	EXISTING WETLAND
	AGRICULTURAL PRESERVATION AREA
	IRRIGATION PATH
	PROPOSED SRI WIDENING BY OTHERS

Scale: 1" = 60'
 SHEET 1 OF 3
 3/28/2023



MATCH LINE SHEET 1

MATCH LINE SHEET 1

Scale: 1" = 60'

SHEET 2 OF 3

3/28/2023

LEGEND	
	PROPOSED PAVEMENT
	PROPOSED RIGHT-OF-WAY DENIED ACCESS
	PROPOSED BARRIER
	POTENTIAL ADVANCED ACQUISITION
	EXISTING PAVEMENT REMOVE
	STOP
	STORM WATER MANAGEMENT
	EXISTING WETLAND
	AGRICULTURAL PRESERVATION AREA
	IRRIGATION PATH
	PROPOSED SRI WIDENING BY OTHERS



MATCH LINE SHEET 1

MATCH LINE SHEET 1











Barkers Landing Rd.

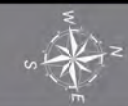
R/W-DA
Trap Shooters Rd.

Trap Shooters Rd.

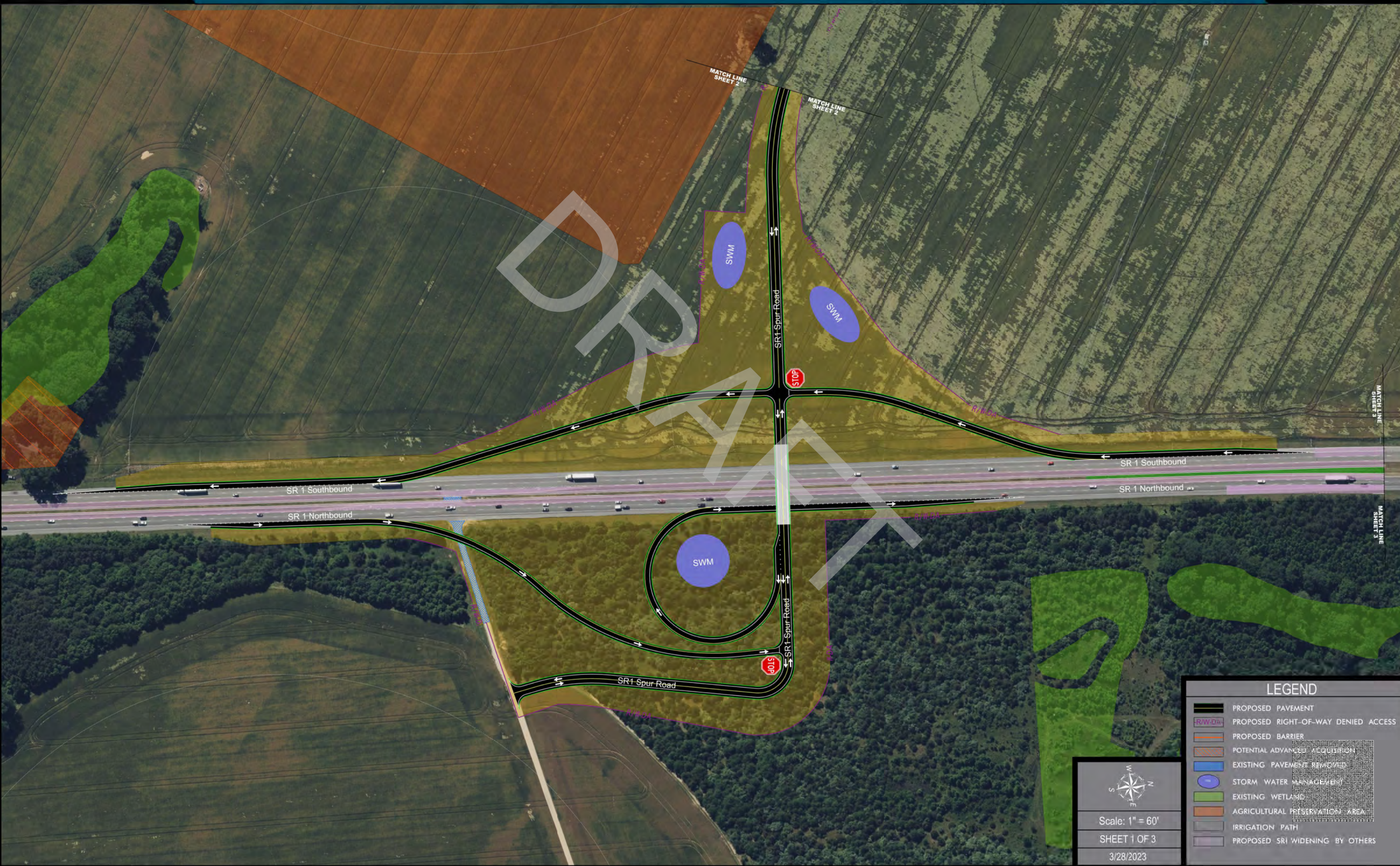
Saint Jones River

LEGEND

-  PROPOSED PAVEMENT
-  PROPOSED RIGHT-OF-WAY DENIED ACCESS
-  PROPOSED BARRIER
-  POTENTIAL ADVANCED ACQUISITION
-  EXISTING PAVEMENT REPAIRS
-  STORM WATER MANAGEMENT
-  EXISTING WETLANDS
-  AGRICULTURAL PRESERVATION AREA
-  IRRIGATION PATH
-  PROPOSED SRI WIDENING BY OTHERS



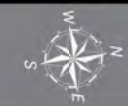
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SHEET 3 OF 3
3/28/2023



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LEGEND

- PROPOSED PAVEMENT
- PROPOSED RIGHT-OF-WAY DENIED ACCESS
- PROPOSED BARRIER
- POTENTIAL ADVANCED ACQUISITION
- EXISTING PAVEMENT REPAVING
- STORM WATER MANAGEMENT
- EXISTING WETLAND
- AGRICULTURAL PRESERVATION AREA
- IRRIGATION PATH
- PROPOSED SRI WIDENING BY OTHERS



Scale: 1" = 60'
SHEET 1 OF 3
3/28/2023



MATCH LINE SHEET 1
MATCH LINE SHEET 1

IRGA: 64279

Scale: 1" = 60'
SHEET 2 OF 3
3/28/2023

LEGEND	
	PROPOSED PAVEMENT
	PROPOSED RIGHT-OF-WAY DENIED ACCESS
	PROPOSED BARRIER
	POTENTIAL ADVANCED ACQUISITION
	EXISTING PAVEMENT STRIPES
	STORM WATER MANAGEMENT
	EXISTING WETLAND
	AGRICULTURAL PRESERVATION AREA
	IRRIGATION PATH
	PROPOSED SRI WIDENING BY OTHERS



MATCH LINE SHEET 1

MATCH LINE SHEET 1











Barkers Landing Rd.

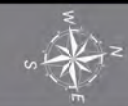
Trap Shooters Road
R/W-DA

Trap Shooters Road

Saint Jones River

LEGEND

-  PROPOSED PAVEMENT
-  PROPOSED RIGHT-OF-WAY DENIED ACCESS
-  PROPOSED BARRIER
-  POTENTIAL ADVANCED ACQUISITION
-  EXISTING PAVEMENT IMPROVEMENT
-  STORM WATER MANAGEMENT
-  EXISTING WETLAND
-  AGRICULTURAL PRESERVATION AREA
-  IRRIGATION PATH
-  PROPOSED SRI WIDENING BY OTHERS



Scale: 1" = 60'
SHEET 3 OF 3
3/28/2023

Appendix F: Cost Estimates

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Cost Estimate Summary

Trap Shooters Road and SR1 Interchnage improvements - Alternative 1

	Funded Amount (CTP):	Current Estimate	% Difference
Preliminary Engineering		\$2,248,360.00	
Right-of-Way		\$1,300,000.00	
Total Construction		\$13,877,220.10	

Contractor Items*	\$8,993,436.13		* From TrnsPort
Const. Contingency	\$2,248,359.03	@	25.00%
CE**	\$2,327,359.03	@	25.88%
Traffic	\$50,000.00		
Utilities	\$150,000.00		
Planting	\$20,000.00		
Env. Performance	\$0.00		
QA/QC for HMA	\$7,982.10		
Asphalt Cost Adj	\$80,083.80		
Total Need:	\$13,877,220.10		

** CE costs consist of the following:

Advertisement	\$1,000.00
Construction inspection services	\$1,349,015.42
Construction engineering services	\$899,343.61
E&S Inspection services	\$63,000.00
Pipe Video Inspection Services	\$0.00
Materials and Research Insp. Services	\$15,000.00
Misc. Construction Items	\$0.00

Primavera Estimate Data

Preliminary Engineering	\$2,248,360.00
Right-of-Way	\$1,300,000.00
Construction	\$13,877,220.10
Contingency	\$2,336,424.93
CE	\$2,327,359.03
Traffic	\$50,000.00
Utilities	\$150,000.00

Trap Shooters Road and SR1 Interchnage improvements - Alternative 1

TBD

Conceptual Cost Estimate 4/18/2023

ITEM #	TITLE	UNIT	ESTIMATE COST	UNIT QUANTITY	TOTAL
201000	CLEARING AND GRUBBING	LS	\$150,000.00	1.00	\$150,000.00
202000	EXCAVATION AND EMBANKMENT	CY	\$40.00	45740.00	\$1,829,600.00
202003	UNDERCUT EXCAVATION	CY	\$35.00	2179.00	\$76,265.00
204000	TEST HOLE	CY	\$200.00	11.00	\$2,200.00
209001	BORROW, TYPE A	CY	\$30.00	11622.00	\$348,660.00
209006	BORROW, TYPE F	CY	\$25.00	1271.00	\$31,775.00
301001	GABC	CY	\$65.00	7818.00	\$508,170.00
302002	DELAWARE NO. 3 STONE	TON	\$60.00	107.00	\$6,420.00
401006	SUPERPAVE TYPE C, PG 70-22 (CARBONATE STONE)	TON	\$140.00	3778.00	\$528,920.00
401015	SUPERPAVE TYPE B, PG 70-22	TON	\$125.00	7669.00	\$958,625.00
401021	SUPERPAVE TYPE BCBC, PG 64-22	TON	\$100.00	11359.00	\$1,135,900.00
601032	REINFORCED CONCRETE PIPE, 15", CLASS IV	LF	\$70.00	200.00	\$14,000.00
601033	REINFORCED CONCRETE PIPE, 18", CLASS IV	LF	\$80.00	500.00	\$40,000.00
601035	REINFORCED CONCRETE PIPE, 24", CLASS IV	LF	\$100.00	840.00	\$84,000.00
601144	REINFORCED CONCRETE FLARED END SECTION, 24"	EACH	\$1,800.00	14.00	\$25,200.00
602005	DRAINAGE INLET, 48" X 48"	EACH	\$4,500.00	8.00	\$36,000.00
701023	J.PCC CURB AND GUTTER, TYPE 3-8	LF	\$36.00	1406.00	\$50,616.00
705001	PCC SIDEWALK, 4"	SF	\$11.00	0.00	\$0.00
705002	PCC SIDEWALK, 6"	SF	\$15.00	19737.00	\$296,055.00
705007	DETECTABLE WARNING SURFACE	SF	\$50.00	0.00	\$0.00
723015	CONCRETE MEDIAN BARRIER, 42? F-SHAPE	LF	\$200.00	1743.00	\$348,600.00
762000	SAW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	0.00	\$0.00
762001	SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$5.00	5114.00	\$25,570.00
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	62.00	\$930.00
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$0.80	27807.00	\$22,245.60
905001	SILT FENCE	LF	\$1.50	6498.00	\$9,747.00
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	8.00	\$1,200.00
908004	TOPSOIL, 6" DEPTH	SY	\$15.00	27323.00	\$409,845.00
908014	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	27323.00	\$27,323.00
908015	PERMANENT GRASS SEEDING, STORMWATER	SY	\$1.50	27323.00	\$40,984.50
908017	TEMPORARY GRASS SEEDING	SY	\$0.75	86068.00	\$64,551.00
908023	STABILIZED CONSTRUCTION ENTRANCE	SY	\$45.00	477.00	\$21,465.00
908024	STABILIZED CONSTRUCTION ENTRANCE, TOPDRESSING	TON	\$78.00	40.00	\$3,120.00
850003	LUMINAIRE (HPS), 150 WATTS	EACH	\$13,000.00	36.00	\$468,000.00
999999	BRIDGE CONSTRUCTION	LS	\$0.00	0.00	\$0.00
999999	STORMWATER MANAGEMENT POND LUMP SUM	LS	\$100,000.00	3.00	\$300,000.00
999999	MAINTENANCE OF TRAFFIC	LS	\$500,000.00	1.00	\$500,000.00
	Subtotal				\$8,365,987.10
763000	Initial Expense (5%)	L.S.	\$418,299.36	1	\$418,299.36
763501	Construction Engineering (2.5%)	L.S.	\$209,149.68	1	\$209,149.68
	TOTAL BASE FOR PROJECT				\$8,993,436.13
	CONSTRUCTION CONTINGENCY	25%	\$2,248,359.03	1	\$2,248,359.03
	TRAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$50,000.00	1	\$50,000.00
	UTILITY	L.S.	\$150,000.00	1	\$150,000.00
	PLANTING	L.S.	\$20,000.00	1	\$20,000.00
	QA/QC for HMA	L.S.	\$7,982.10	1	\$7,982.10
	Asphalt Cost Adj	L.S.	\$80,083.80	1	\$80,083.80
	CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$2,327,359.03	1	\$2,327,359.03
	TOTAL CONSTRUCTION COST				\$13,877,220.10
	PROJECT DEVELOPMENT	L.S.	\$899,340.00	1	\$899,340.00
	PRELIMINARY ENGINEERING (DESIGN)	L.S.	\$1,349,020.00	1	\$1,349,020.00
	ROW COSTS	SF	\$1,298,637.50	1	\$1,300,000.00
	TOTAL BASE CONSTRUCTION COST				\$17,425,580.10

Cost Estimate Summary

Trap Shooters Road and SR1 Interchnage improvements - Alternative 2

	Funded Amount (CTP):	Current Estimate	% Difference
Preliminary Engineering		\$3,348,610.00	
Right-of-Way		\$1,400,000.00	
Total Construction		\$20,487,951.43	

Contractor Items*	\$13,394,441.95		* From TrnsPort
Const. Contingency	\$3,348,610.49	@	25.00%
CE**	\$3,439,610.49	@	25.68%
Traffic	\$50,000.00		
Utilities	\$150,000.00		
Planting	\$20,000.00		
Env. Performance	\$0.00		
QA/QC for HMA	\$7,730.10		
Asphalt Cost Adj	\$77,558.40		

Total Need: \$20,487,951.43

** CE costs consist of the following:

Advertisement	\$1,000.00
Construction inspection services	\$2,009,166.29
Construction engineering services	\$1,339,444.20
E&S Inspection services	\$70,000.00
Pipe Video Inspection Services	\$0.00
Materials and Research Insp. Services	\$20,000.00
Misc. Construction Items	\$0.00

Primavera Estimate Data

Preliminary Engineering	\$3,348,610.00
Right-of-Way	\$1,400,000.00
Construction	\$20,487,951.43
Contingency	\$3,433,898.99
CE	\$3,439,610.49
Traffic	\$50,000.00
Utilities	\$150,000.00

Trap Shooters Road and SR1 Interchnage improvements - Alternative 2

TBD

Conceptual Cost Estimate 4/18/2023

ITEM #	TITLE	UNIT	ESTIMATE COST	UNIT QUANTITY	TOTAL
201000	CLEARING AND GRUBBING	LS	\$150,000.00	1.00	\$150,000.00
202000	EXCAVATION AND EMBANKMENT	CY	\$40.00	48438.00	\$1,937,520.00
202003	UNDERCUT EXCAVATION	CY	\$35.00	2307.00	\$80,745.00
204000	TEST HOLE	CY	\$200.00	11.00	\$2,200.00
209001	BORROW, TYPE A	CY	\$30.00	11255.00	\$337,650.00
209006	BORROW, TYPE F	CY	\$25.00	128.00	\$3,200.00
301001	GABC	CY	\$65.00	7585.00	\$493,025.00
302002	DELAWARE NO. 3 STONE	TON	\$60.00	107.00	\$6,420.00
401006	SUPERPAVE TYPE C, PG 70-22 (CARBONATE STONE)	TON	\$140.00	3659.00	\$512,260.00
401015	SUPERPAVE TYPE B, PG 70-22	TON	\$125.00	7427.00	\$928,375.00
401021	SUPERPAVE TYPE BCBC, PG 64-22	TON	\$100.00	11000.00	\$1,100,000.00
601032	REINFORCED CONCRETE PIPE, 15", CLASS IV	LF	\$70.00	200.00	\$14,000.00
601033	REINFORCED CONCRETE PIPE, 18", CLASS IV	LF	\$80.00	500.00	\$40,000.00
601035	REINFORCED CONCRETE PIPE, 24", CLASS IV	LF	\$100.00	840.00	\$84,000.00
601144	REINFORCED CONCRETE FLARED END SECTION, 24"	EACH	\$1,800.00	14.00	\$25,200.00
602005	DRAINAGE INLET, 48" X 48"	EACH	\$4,500.00	8.00	\$36,000.00
701023	J.PCC CURB AND GUTTER, TYPE 3-8	LF	\$36.00	1406.00	\$50,616.00
705001	PCC SIDEWALK, 4"	SF	\$11.00	0.00	\$0.00
705002	PCC SIDEWALK, 6"	SF	\$15.00	19737.00	\$296,055.00
705007	DETECTABLE WARNING SURFACE	SF	\$50.00	0.00	\$0.00
723015	CONCRETE MEDIAN BARRIER, 42? F-SHAPE	LF	\$200.00	1743.00	\$348,600.00
762000	SAW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	0.00	\$0.00
762001	SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$5.00	5114.00	\$25,570.00
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	62.00	\$930.00
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$0.80	27705.00	\$22,164.00
905001	SILT FENCE	LF	\$1.50	6463.00	\$9,694.50
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	8.00	\$1,200.00
908004	TOPSOIL, 6" DEPTH	SY	\$15.00	32401.00	\$486,015.00
908014	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	32401.00	\$32,401.00
908015	PERMANENT GRASS SEEDING, STORMWATER	SY	\$1.50	5315.00	\$7,972.50
908017	TEMPORARY GRASS SEEDING	SY	\$0.75	102064.00	\$76,548.00
908023	STABILIZED CONSTRUCTION ENTRANCE	SY	\$45.00	477.00	\$21,465.00
908024	STABILIZED CONSTRUCTION ENTRANCE, TOPDRESSING	TON	\$78.00	40.00	\$3,120.00
850003	LUMINAIRE (HPS), 150 WATTS	EACH	\$13,000.00	44.00	\$572,000.00
999999	LANDSCAPING LUMP SUM	LS	\$75,000.00	1.00	\$75,000.00
999999	BRIDGE CONSTRUCTION	SF	\$375.00	10880.00	\$4,080,000.00
999999	STORMWATER MANAGEMENT POND LUMP SUM	LS	\$100,000.00	3.00	\$300,000.00
999999	MAINTENANCE OF TRAFFIC	L.S.	\$300,000.00	1	\$300,000.00
	Subtotal				\$12,459,946.00
763000	Initial Expense (5%)	L.S.	\$622,997.30	1	\$622,997.30
763501	Construction Engineering (2.5%)	L.S.	\$311,498.65	1	\$311,498.65
	TOTAL BASE FOR PROJECT				\$13,394,441.95
	CONSTRUCTION CONTINGENCY	25%	\$3,348,610.49	1	\$3,348,610.49
	TRAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$50,000.00	1	\$50,000.00
	UTILITY	L.S.	\$150,000.00	1	\$150,000.00
	PLANTING	L.S.	\$20,000.00	1	\$20,000.00
	QA/QC for HMA	L.S.	\$7,730.10	1	\$7,730.10
	Asphalt Cost Adj	L.S.	\$77,558.40	1	\$77,558.40
	CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$3,439,610.49	1	\$3,439,610.49
	TOTAL CONSTRUCTION COST				\$20,487,951.43
	PROJECT DEVELOPMENT	L.S.	\$1,339,440.00	1	\$1,339,440.00
	PRELIMINARY ENGINEERING (DESIGN)	L.S.	\$2,009,170.00	1	\$2,009,170.00
	ROW COSTS	SF	\$1,384,927.50	1	\$1,400,000.00
	TOTAL BASE CONSTRUCTION COST				\$25,236,561.43

Cost Estimate Summary

Trap Shooters Road and SR1 Interchnage improvements - Alternative 3

	Funded Amount (CTP):	Current Estimate	% Difference
Preliminary Engineering		\$4,541,790.00	
Right-of-Way		\$2,300,000.00	
Total Construction		\$27,697,481.48	

Contractor Items*	\$18,167,157.45		* From TrnsPort
Const. Contingency	\$4,541,789.36	@	25.00%
CE**	\$4,690,539.36	@	25.82%
Traffic	\$50,000.00		
Utilities	\$150,000.00		
Planting	\$20,000.00		
Env. Performance	\$0.00		
QA/QC for HMA	\$7,069.30		
Asphalt Cost Adj	\$70,926.00		

Total Need: \$27,697,481.48

** CE costs consist of the following:

Advertisement	\$1,000.00
Construction inspection services	\$2,725,073.62
Construction engineering services	\$1,816,715.75
E&S Inspection services	\$127,750.00
Pipe Video Inspection Services	\$0.00
Materials and Research Insp. Services	\$20,000.00
Misc. Construction Items	\$0.00

Primavera Estimate Data

Preliminary Engineering	\$4,541,790.00
Right-of-Way	\$2,300,000.00
Construction	\$27,697,481.48
Contingency	\$4,619,784.66
CE	\$4,690,539.36
Traffic	\$50,000.00
Utilities	\$150,000.00

Trap Shooters Road and SR1 Interchnage improvements - Alternative 3

TBD

Conceptual Cost Estimate 4/18/2023

ITEM #	TITLE	UNIT	ESTIMATE COST	UNIT QUANTITY	TOTAL
201000	CLEARING AND GRUBBING	LS	\$75,000.00	1.00	\$75,000.00
202000	EXCAVATION AND EMBANKMENT	CY	\$40.00	76562.00	\$3,062,480.00
202003	UNDERCUT EXCAVATION	CY	\$35.00	3646.00	\$127,610.00
204000	TEST HOLE	CY	\$200.00	11.00	\$2,200.00
209001	BORROW, TYPE A	CY	\$30.00	10293.00	\$308,790.00
209006	BORROW, TYPE F	CY	\$20.00	260325.00	\$5,206,500.00
301001	GABC	CY	\$65.00	6554.00	\$426,010.00
302002	DELAWARE NO. 3 STONE	TON	\$60.00	107.00	\$6,420.00
401006	SUPERPAVE TYPE C, PG 70-22 (CARBONATE STONE)	TON	\$140.00	3346.00	\$468,440.00
401015	SUPERPAVE TYPE B, PG 70-22	TON	\$125.00	6792.00	\$849,000.00
401021	SUPERPAVE TYPE BCBC, PG 64-22	TON	\$100.00	10060.00	\$1,006,000.00
601032	REINFORCED CONCRETE PIPE, 15", CLASS IV	LF	\$70.00	300.00	\$21,000.00
601033	REINFORCED CONCRETE PIPE, 18", CLASS IV	LF	\$80.00	300.00	\$24,000.00
601035	REINFORCED CONCRETE PIPE, 24", CLASS IV	LF	\$100.00	960.00	\$96,000.00
601144	REINFORCED CONCRETE FLARED END SECTION, 24"	EACH	\$1,800.00	20.00	\$36,000.00
602005	DRAINAGE INLET, 48" X 48"	EACH	\$4,500.00	10.00	\$45,000.00
701023	J.PCC CURB AND GUTTER, TYPE 3-8	LF	\$36.00	89.00	\$3,204.00
705001	PCC SIDEWALK, 4"	SF	\$11.00	0.00	\$0.00
705002	PCC SIDEWALK, 6"	SF	\$15.00	341.00	\$5,115.00
705007	DETECTABLE WARNING SURFACE	SF	\$50.00	0.00	\$0.00
723015	CONCRETE MEDIAN BARRIER, 42? F-SHAPE	LF	\$200.00	0.00	\$0.00
762000	SAW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	0.00	\$0.00
762001	SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$5.00	3936.00	\$19,680.00
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	62.00	\$930.00
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$0.80	26027.00	\$20,821.60
905001	SILT FENCE	LF	\$1.50	9328.00	\$13,992.00
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	10.00	\$1,500.00
908004	TOPSOIL, 6" DEPTH	SY	\$15.00	77776.00	\$1,166,640.00
908014	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	77776.00	\$77,776.00
908015	PERMANENT GRASS SEEDING, STORMWATER	SY	\$1.50	5061.00	\$7,591.50
908017	TEMPORARY GRASS SEEDING	SY	\$0.75	244995.00	\$183,746.25
908023	STABILIZED CONSTRUCTION ENTRANCE	SY	\$45.00	477.00	\$21,465.00
908024	STABILIZED CONSTRUCTION ENTRANCE, TOPDRESSING	TON	\$78.00	40.00	\$3,120.00
850003	LUMINAIRE (HPS), 150 WATTS	EACH	\$13,000.00	53.00	\$689,000.00
999999	LANDSCAPING LUMP SUM	LS	\$75,000.00	1.00	\$75,000.00
999999	BRIDGE CONSTRUCTION	SF	\$325.00	6922.00	\$2,249,650.00
999999	STORMWATER MANAGEMENT POND LUMP SUM	LS	\$350,000.00	1.00	\$350,000.00
999999	MAINTENANCE OF TRAFFIC	L.S.	\$250,000.00	1	\$250,000.00
	Subtotal				\$16,899,681.35
763000	Initial Expense (5%)	L.S.	\$844,984.07	1	\$844,984.07
763501	Construction Engineering (2.5%)	L.S.	\$422,492.03	1	\$422,492.03
	TOTAL BASE FOR PROJECT				\$18,167,157.45
	CONSTRUCTION CONTINGENCY	25%	\$4,541,789.36	1	\$4,541,789.36
	TRAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$50,000.00	1	\$50,000.00
	UTILITY	L.S.	\$150,000.00	1	\$150,000.00
	PLANTING	L.S.	\$20,000.00	1	\$20,000.00
	QA/QC for HMA	L.S.	\$7,069.30	1	\$7,069.30
	Asphalt Cost Adj	L.S.	\$70,926.00	1	\$70,926.00
	CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$4,690,539.36	1	\$4,690,539.36
	TOTAL CONSTRUCTION COST				\$27,697,481.48
	PROJECT DEVELOPMENT	L.S.	\$1,816,720.00	1	\$1,816,720.00
	PRELIMINARY ENGINEERING (DESIGN)	L.S.	\$2,725,070.00	1	\$2,725,070.00
	ROW COSTS	SF	\$2,298,230.00	1	\$2,300,000.00
	TOTAL BASE CONSTRUCTION COST				\$34,539,271.48

Cost Estimate Summary

Contract No.

TBD

Trap Shooters Road and SR1 Interchnage improvements - Alternative 4

	Funded Amount (CTP):	Current Estimate	% Difference
Preliminary Engineering		\$4,107,700.00	
Right-of-Way		\$2,500,000.00	
Total Construction		\$25,097,374.25	

Contractor Items*	\$16,430,787.84		* From TrnsPort
Const. Contingency	\$4,107,696.96	@	25.00%
CE**	\$4,256,446.96	@	25.91%
Traffic	\$50,000.00		
Utilities	\$150,000.00		
Planting	\$20,000.00		
Env. Performance	\$0.00		
QA/QC for HMA	\$7,472.50		
Asphalt Cost Adj	\$74,970.00		
Total Need:	\$25,097,374.25		

** CE costs consist of the following:

Advertisement	\$1,000.00
Construction inspection services	\$2,464,618.18
Construction engineering services	\$1,643,078.78
E&S Inspection services	\$127,750.00
Pipe Video Inspection Services	\$0.00
Materials and Research Insp. Services	\$20,000.00
Misc. Construction Items	\$0.00

Primavera Estimate Data

Preliminary Engineering	\$4,107,700.00
Right-of-Way	\$2,500,000.00
Construction	\$25,097,374.25
Contingency	\$4,190,139.46
CE	\$4,256,446.96
Traffic	\$50,000.00
Utilities	\$150,000.00

Trap Shooters Road and SR1 Interchnage improvements - Alternative 4

TBD

Conceptual Cost Estimate 4/18/2023

ITEM #	TITLE	UNIT	ESTIMATE COST	UNIT QUANTITY	TOTAL
201000	CLEARING AND GRUBBING	LS	\$75,000.00	1.00	\$75,000.00
202000	EXCAVATION AND EMBANKMENT	CY	\$40.00	80211.00	\$3,208,440.00
202003	UNDERCUT EXCAVATION	CY	\$35.00	76391.00	\$2,673,685.00
204000	TEST HOLE	CY	\$200.00	11.00	\$2,200.00
209001	BORROW, TYPE A	CY	\$30.00	10881.00	\$326,430.00
209006	BORROW, TYPE F	CY	\$20.00	27601.00	\$552,020.00
301001	GABC	CY	\$65.00	6934.00	\$450,710.00
302002	DELAWARE NO. 3 STONE	TON	\$60.00	107.00	\$6,420.00
401006	SUPERPAVE TYPE C, PG 70-22 (CARBONATE STONE)	TON	\$140.00	3537.00	\$495,180.00
401015	SUPERPAVE TYPE B, PG 70-22	TON	\$125.00	7179.00	\$897,375.00
401021	SUPERPAVE TYPE BCBC, PG 64-22	TON	\$100.00	10634.00	\$1,063,400.00
601032	REINFORCED CONCRETE PIPE, 15", CLASS IV	LF	\$70.00	300.00	\$21,000.00
601033	REINFORCED CONCRETE PIPE, 18", CLASS IV	LF	\$80.00	300.00	\$24,000.00
601035	REINFORCED CONCRETE PIPE, 24", CLASS IV	LF	\$100.00	960.00	\$96,000.00
601144	REINFORCED CONCRETE FLARED END SECTION, 24"	EACH	\$1,800.00	20.00	\$36,000.00
602005	DRAINAGE INLET, 48" X 48"	EACH	\$4,500.00	10.00	\$45,000.00
701023	J.PCC CURB AND GUTTER, TYPE 3-8	LF	\$36.00	89.00	\$3,204.00
705001	PCC SIDEWALK, 4"	SF	\$11.00	0.00	\$0.00
705002	PCC SIDEWALK, 6"	SF	\$15.00	341.00	\$5,115.00
705007	DETECTABLE WARNING SURFACE	SF	\$50.00	0.00	\$0.00
723015	CONCRETE MEDIAN BARRIER, 42" F-SHAPE	LF	\$200.00	0.00	\$0.00
762000	SAW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	0.00	\$0.00
762001	SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$5.00	4486.00	\$22,430.00
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	62.00	\$930.00
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$0.80	27361.00	\$21,888.80
905001	SILT FENCE	LF	\$1.50	9789.00	\$14,683.50
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	10.00	\$1,500.00
908004	TOPSOIL, 6" DEPTH	SY	\$15.00	81984.00	\$1,229,760.00
908014	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	81984.00	\$81,984.00
908015	PERMANENT GRASS SEEDING, STORMWATER	SY	\$1.50	4784.00	\$7,176.00
908017	TEMPORARY GRASS SEEDING	SY	\$0.75	258250.00	\$193,687.50
908023	STABILIZED CONSTRUCTION ENTRANCE	SY	\$45.00	477.00	\$21,465.00
908024	STABILIZED CONSTRUCTION ENTRANCE, TOPDRESSING	TON	\$78.00	40.00	\$3,120.00
850003	LUMINAIRE (HPS), 150 WATTS	EACH	\$13,000.00	60.00	\$780,000.00
999999	LANDSCAPING LUMP SUM	LS	\$75,000.00	1.00	\$75,000.00
999999	BRIDGE CONSTRUCTION	SF	\$325.00	6922.00	\$2,249,650.00
999999	STORMWATER MANAGEMENT POND LUMP SUM	LS	\$350,000.00	1.00	\$350,000.00
999999	MAINTENANCE OF TRAFFIC	L.S.	\$250,000.00	1	\$250,000.00
	Subtotal				\$15,284,453.80
763000	Initial Expense (5%)	L.S.	\$764,222.69	1	\$764,222.69
763501	Construction Engineering (2.5%)	L.S.	\$382,111.35	1	\$382,111.35
	TOTAL BASE FOR PROJECT				\$16,430,787.84
	CONSTRUCTION CONTINGENCY	25%	\$4,107,696.96	1	\$4,107,696.96
	TRAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$50,000.00	1	\$50,000.00
	UTILITY	L.S.	\$150,000.00	1	\$150,000.00
	PLANTING	L.S.	\$20,000.00	1	\$20,000.00
	QA/QC for HMA	L.S.	\$7,472.50	1	\$7,472.50
	Asphalt Cost Adj	L.S.	\$74,970.00	1	\$74,970.00
	CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$4,256,446.96	1	\$4,256,446.96
	TOTAL CONSTRUCTION COST				\$25,097,374.25
	PROJECT DEVELOPMENT	L.S.	\$1,643,080.00	1	\$1,643,080.00
	PRELIMINARY ENGINEERING (DESIGN)	L.S.	\$2,464,620.00	1	\$2,464,620.00
	ROW COSTS	SF	\$2,424,430.00	1	\$2,500,000.00
	TOTAL BASE CONSTRUCTION COST				\$31,705,074.25