

SR1 and Trap Shooters Road Planning Study

Public Workshop #2 Alternatives



March 28, 2023



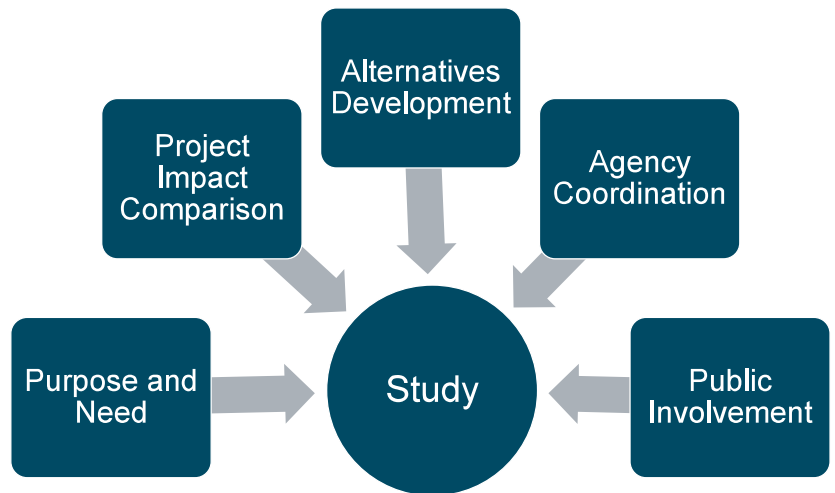
Overview of Information Presented Tonight

- 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

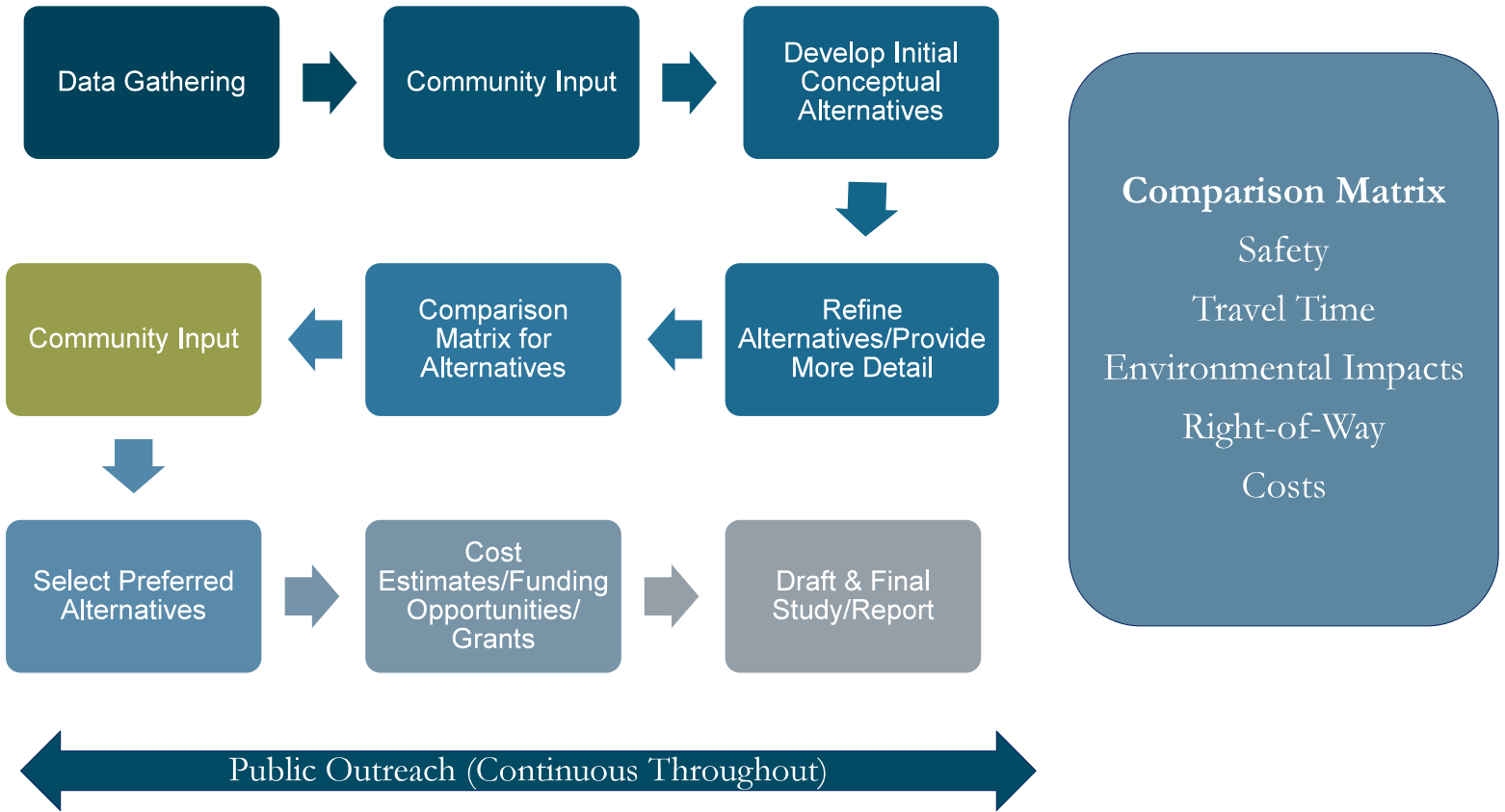


Purpose and Need

- 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



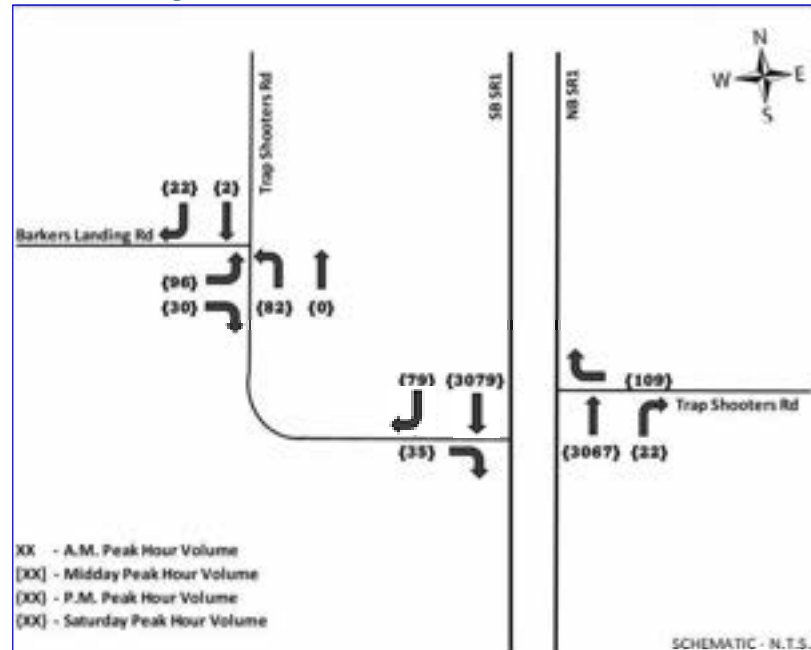
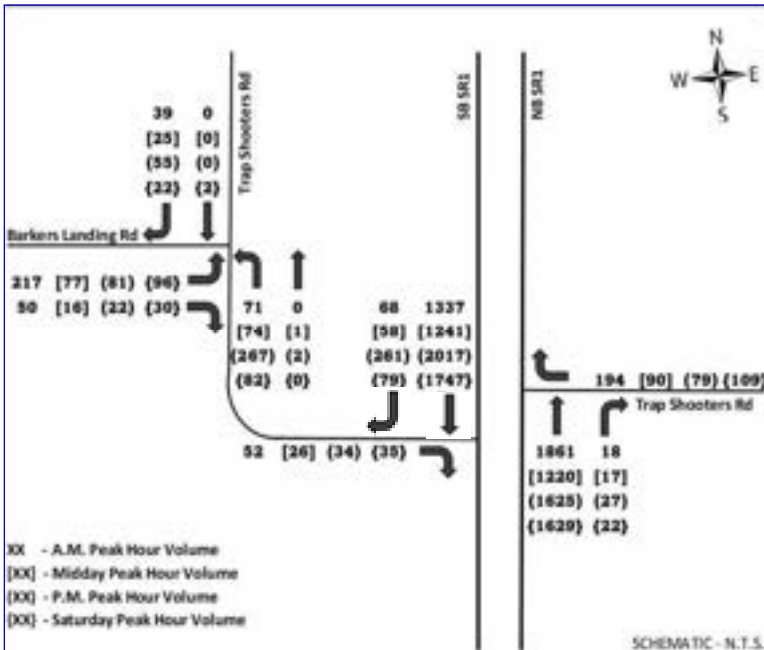
Process

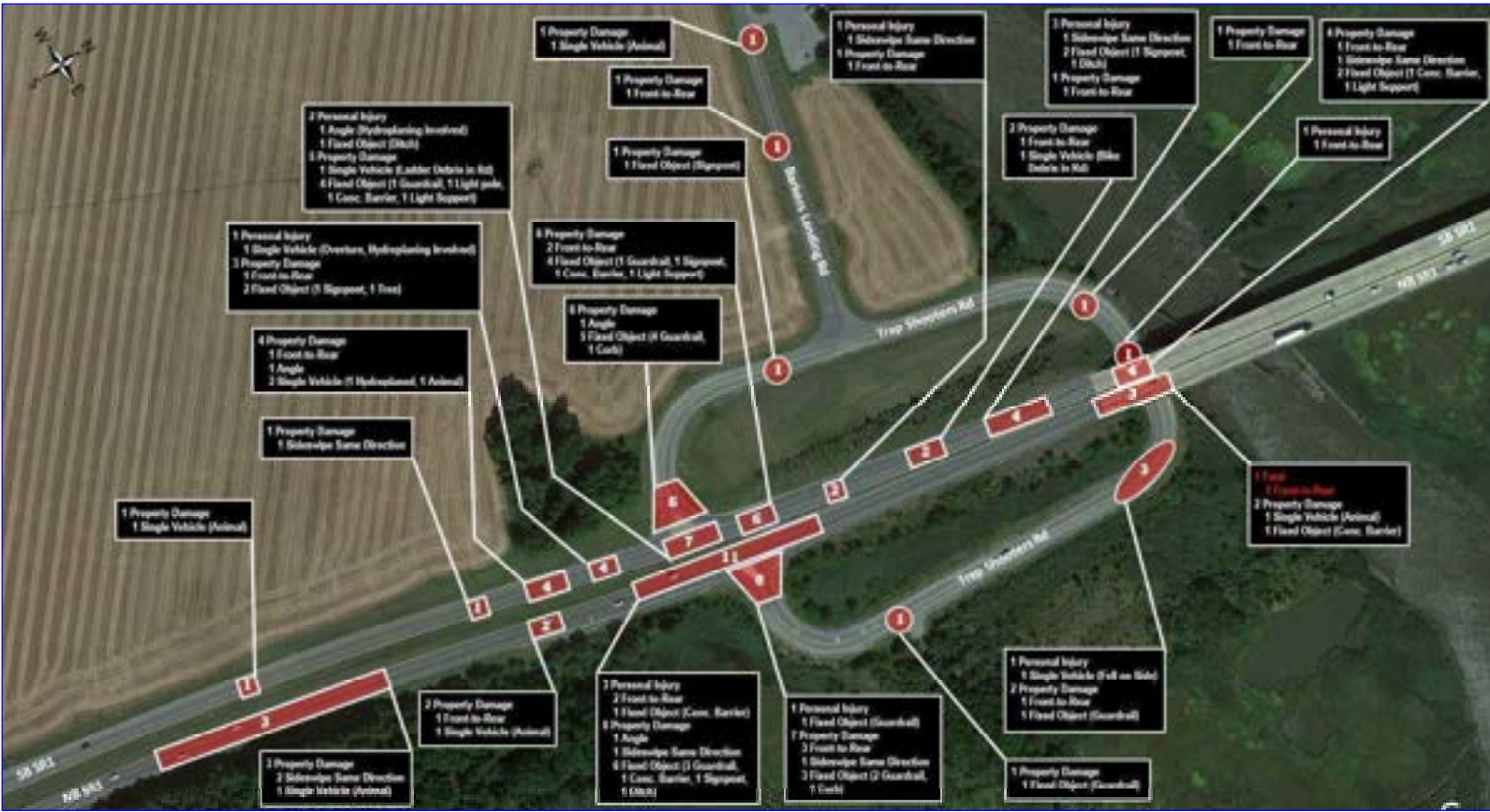


Existing Conditions

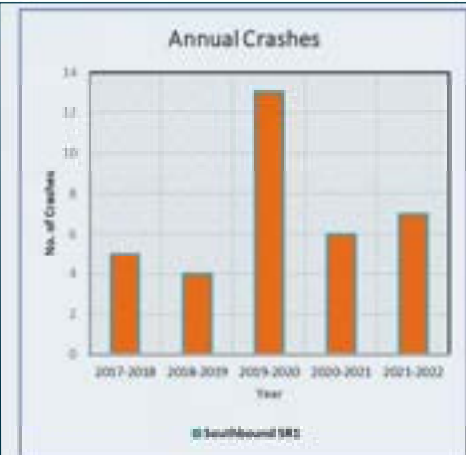
Non summer peak hour turning movements

Summer Saturday peak hour turning movements

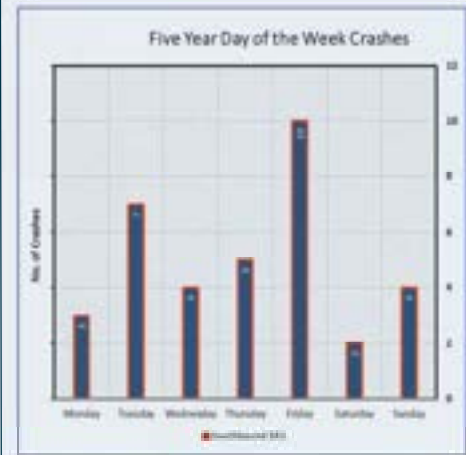
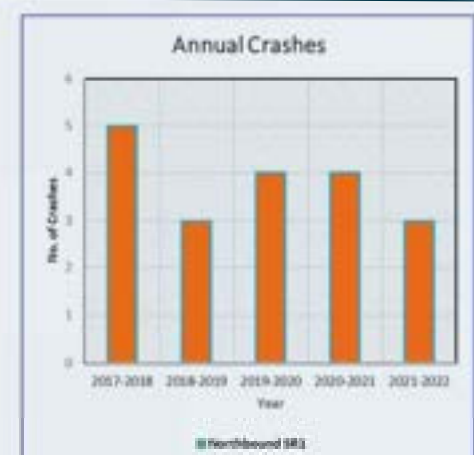




Existing Conditions



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



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



TRAP SHOOTERS ROAD - ALTERNATIVES OVERVIEW



ALTERNATIVE 1 - TRAP SHOOTERS ROAD EXTENDED - WETLAND FILL



ALTERNATIVE 1 - TRAP SHOOTERS ROAD EXTENDED - WETLAND FILL



ALTERNATE 2 - TRAP SHOOTERS ROAD EXTENDED W/ BRIDGE



ALTERNATE 2 - TRAP SHOOTERS ROAD EXTENDED W/ BRIDGE





ALTERNATIVE 3 - SPUR ROAD WITH DIAMOND 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	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

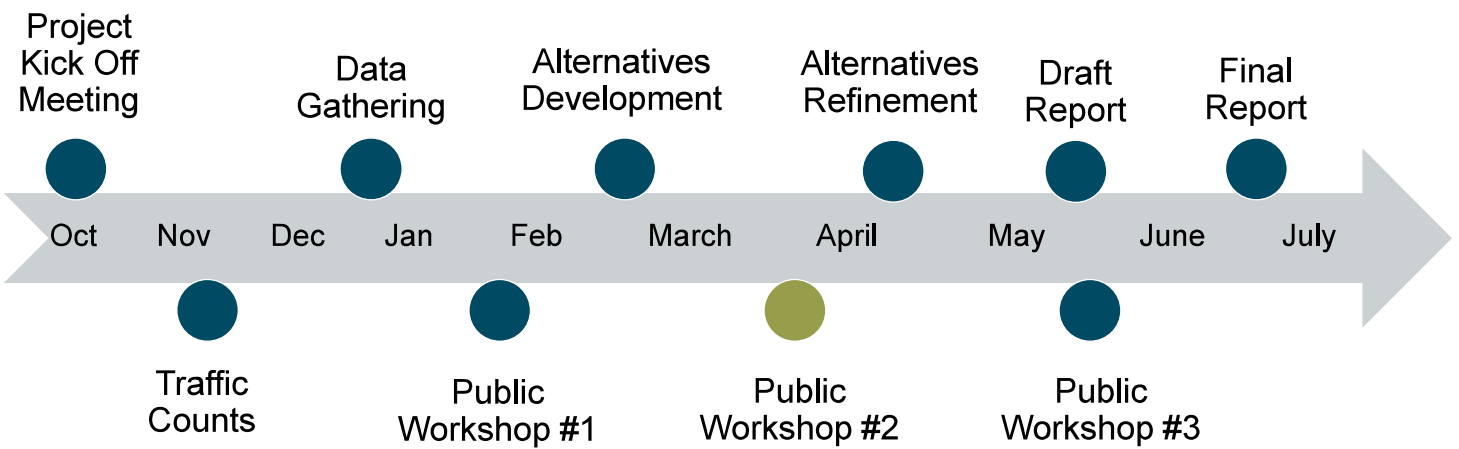
Travel Time Change with Magnolia Origin-Destination

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

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



Magnolia

1	Name Rupl Sotho Siroja Retired	Address 2449 Woodlytown Rd	Phone 302 270 4724
2	Name Nan Buff Fire chief - Magnolia	Address 411 W Birere Ln, Magnolia, DE 19968 Email Address Kidast33@comcast.net	Phone 302-535-0004
3	Name Todd Burger	Address 2203 Ponderosa Dr Magnolia DE 19962 Email Address Greenbkdeirrigation@gmail.com	Phone 302-270-8417
4	Name Robert Holm Magnolia Fire Co	Address 1266 woodlytown Rd magnolia, DE 19962 Email Address	Phone 302-532-8126
5	Name Robert Olemiller	Address 4758 South Side Street Magnolia 19960 Email Address R501479@aol.com	Phone 302-617-2367
6	Name Patrick Raymond	Address 49 - JESUIT Dr Email Address Praymads62@hotmail.com	Phone 302 399 1041
7	Name LADUE WILCOY	Address 1578 MCGINNIS POWERS, MAGNOLIA, DE Email Address /WILCOYS1@GMAIL.COM	Phone 302-222-4006

SR1 / Trap Shooters Road Interchange Study
Public Workshop 2

March 28, 2023



ID	Name	Organization	Address	Phone
8	Paula Zimmerman		696 Plain Dealing Road, Magnolia, DE CZ11252@AOL.COM	(302) 724-0062
9	John Sgro		192 BAY HILL ROAD MAGNOLIA DE SGROJ@OUTLOOK.COM	973 945-8531
10	RON CANTRELL		38 N MAIN ST MAGNOLIA 19962 ROVINORBITE@COMcast.net	302 222 1351
11	Roberto Perez		17. S MAIN ST MAGNOLIA robert.perez354@Comcast.net	302 399 1929
12	JAMES F. NADLER		37 S. MAIN ST. jcferry@gn.com	302-947-1093
13	JANE M. PILLET		133 QUAKER HILL RD MAGNOLIA JPILLET@COMCAST.NET	302-698-0349
14	Phyllis Green		110 Masters Lane PhyllisGreen110@Comcast.net	201-280-8317

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

March 28, 2023



15	Name Brian Howard Organization	Address 9 S Main St Email Address	Phone 302-310-2035
16	Name Talia Viter Organization	Address 275 Main St Email Address	Phone 302 270 2325
17	Name Roxanne Maureen Reed Organization	Address 247 Nicklaus Lane MAGNOLIA DE 19962 Email Address	Phone 302-270-8670
18	Name Shari Gray Organization	Address 178 Plaudersley Road Email Address	Phone 302-697-8795
19	Name Scott Vardard Organization	Address 99 Big Hat Lane Email Address	Phone (302) 270 - 7942
20	Name Mike Hershberger Organization	Address 602 Plaudersley RD Email Address	Phone 302 270-2853
21	Name Patricia Cerchio Organization	Address 763 Augusta National Email Address	Phone 302-387-1309

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52 22	Name Eileen O'Connell Organization	Address 553 DuckLano Lane, Magnolia Email Address DawnOConnell@msn.com	Phone 302-697-1542
52 23	Name ED MARVEL Organization	Address 403 BARBERS LANEING Email Address	Phone 302-582-1037
52 24	Name Bernie Sarnoski Organization	Address 787 Augusta National Drive, Magnolia DE Email Address Fudgieclay@comcast.net	Phone
52 25	Name Mona Bennett Organization	Address 36 N. Main St., Magnolia, DE Email Address MonaCBennettKantor@gmail.com	Phone 302-331-5882
54 26	Name ROGER CRAIG Organization	Address 100 CHERRY Hill RD, MAGNOLIA Email Address	Phone 302-535-8478
55 27	Name Patrice Hartung Organization	Address 767 Windrow Way Magnolia DE Email Address dtsterling@aol.com	Phone 302-284-3316
56 28	Name Kate Meire Organization	Address 804 QUAKER HILL RD MAGNOLIA, DE 19962 Email Address kpicomdables@comcast.net	Phone 302-698-0443

SR1 / Trap Shooters Road Interchange Study
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29	Name Brandon Bent Organization Bent Farms	Address 472 Barkers lane KD Magnolia	Phone 302 542 2431
30	Name David Redding Organization	Address 47 CONCESSIONAR ST, MAGNOLIA Email Address dredded@yahoo.com	Phone 603-918-0403
31	Name Judi & CARL CALIOPPO Organization	Address 99 Cherry Hill Rd. Magnolia Email Address	Phone 302-697-3630
32	Name Lisamare Doughton Organization	Address 458 Tullamore Rd. Email Address Magnolia De 19962	Phone 302-363-9947
33	Name Patty Webb Organization	Address 151 Quaker Hill Rd Magnolia, De Email Address pattiswebb@gmail.com	Phone 302-382-1179
34	Name Rebecca Campbell Organization	Address 21 N. MAIN ST Magnolia, De Email Address	Phone 856 207 4896
35	Name Amy Zoster Organization	Address 13 S. main St Magnolia Email Address Lez770@yahoo.com	Phone —

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

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



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

1. Do you support Alternative 1 – Extension of Trap Shooters Road with Wetland Fill?
 A. Yes
 B. No
 C. Unsure

2. Do you support Alternative 2 – Extension of Trap Shooters Road with Bridge Spanning Wetland?
 A. Yes
 B. No
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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?
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 B. No
 C. Unsure

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

Name: *Kelph Saltoufield*
 Address: *2419 Woodlawn Rd Magnolia*
 Email:

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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Length of north Road off Ramp to Trap Shooters
Road. widen bridge to Leather 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: 425 S South State Street, Magnolia DE 19962
 Email: ROV1979@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
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Address:

Email:

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

CURRENT SINGAPORE - NORTH + SOUTH OF RT 1 -
IS POOR

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

Name: DAVID REDDING
 Address: 47 CONGRESSOR WAY CT., HUNTSVILLE
 Email: pdredding@yahoo.com

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)

Safety
Cost Spatters? There is no mention

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

Name: J. Green
Address: 110 W. Main St
Email: jgreen110@comcast.net

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THE RAMP'S 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. MAGGOLIA
Email: ROGC197@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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Until then "SILWAGE ALERTING TRAFFIC TO BS
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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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 Maindealing 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:

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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)

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: *21N. 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

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

- 1. Do you support Alternative 1 – Extension of Trap Shooters Road with Wetland Fill?
 A. Yes
 B. No
 C. Unsure

- 2. Do you support Alternative 2 – Extension of Trap Shooters Road with Bridge Spanning Wetland?
 A. Yes
 B. No
 C. Unsure

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

FOR NB RT1, AS AN INTERIM MEASURE, PLACE SIGNS IN
ADVANCE OF EXIST TRAPSHOOTERS ON RAMP THAT SAY
"~~EXIT~~ TRAFFIC ENTERING FROM THE RIGHT" TO HELP W/
TRAFFIC TRYING TO ENTER AND ACCEL. ON RAMP @ BRIDGE.

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

Name: LANCE WILGUS
 Address: 1578 MCGINNIS POND RD, MAGNOLA, DE 19962
 Email: LWILGUS1@gmail.com

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: *PATRICK RAYMOND*
 Address: *49 JOSHUA DR MAGNOLIA DE 19962*
 Email: *PRaymond62@HOTMAIL.COM*

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

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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:

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

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Better Hwy Sign hope better than
Recover 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: 17 Sugar 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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C. Unsure

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)

*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 Rebo*
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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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)

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

Name: *Colton Vantard*
 Address: *275 main st majorie 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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james.galvin@doverkentmpo.org - Ph: 302.387.6030

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

ok to bridge wetland ^{ON WEST SIDE} to make road tighter to avoid litigation - Bridge that wetland if necessary - see blue sticky

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?

- A. Yes
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A. Yes

B. No

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?

A. Yes

B. No

C. Unsure

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A. Yes

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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 @ Row MIA.

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

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: 603 plaindealer RD Magnolia DE 19962
 Email:

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

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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

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

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- ① A. Yes
 B. No
 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 budge 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?

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)

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: *LeB770@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 interim 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 



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

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

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

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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

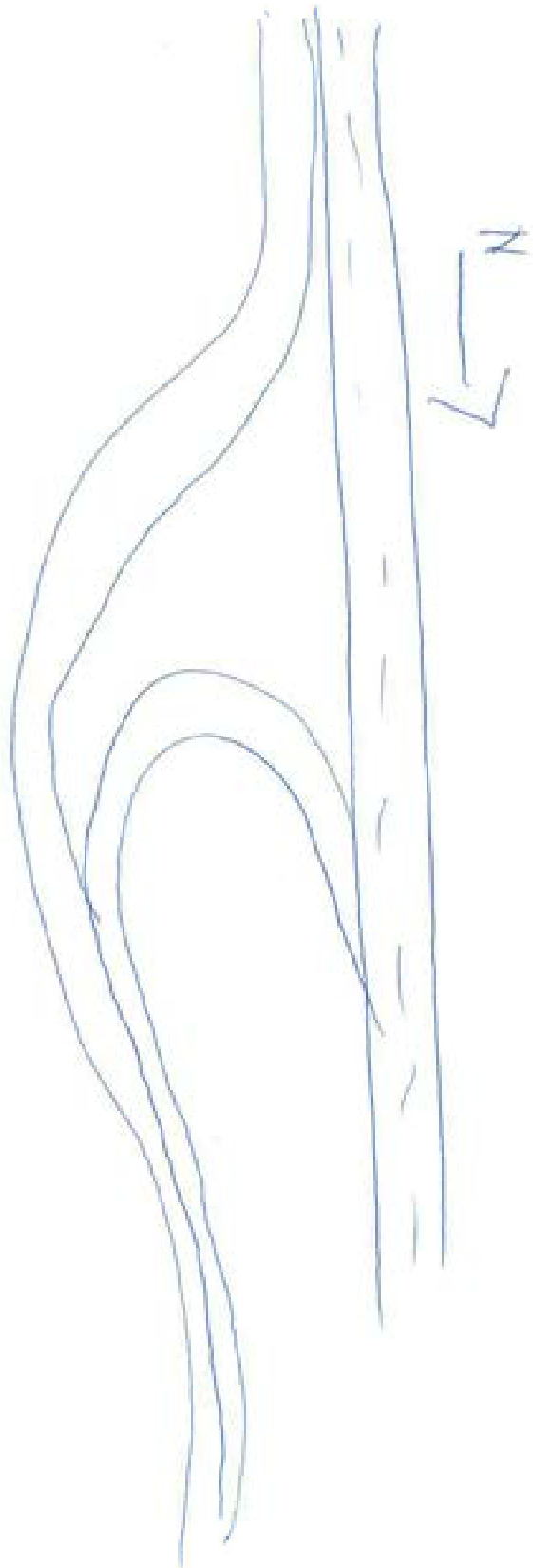
Additional Comments: (please use the back of this form if you need additional space)

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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





Appendix E: Preferred Alternatives

TRAP SHOOTERS ROAD - ALTERNATIVES OVERVIEW





ALTERNATIVE 3 - SPUR ROAD WITH DIAMOND INTERCHANGE



LEGEND

- PROPOSED ROADWAY
- PROPOSED BASE OF CUT AREAS
- PROPOSED DITCHES
- EXISTING AND PROPOSED EASEMENTS
- EXISTING WETLANDS
- PROPOSED WETLANDS
- IRRIGATION CANALS
- PROPOSED WIDENING OF DITCHES

Scale: 1" = 50'
SHEET 1 OF 3
3/8/2010

ALTERNATIVE 3 - SPUR ROAD WITH DIAMOND INTERCHANGE



ALTERNATIVE 3 - SPUR ROAD WITH DIAMOND INTERCHANGE



LEGEND

	PROPOSED ROADWAY
	PROPOSED DRIVE OR GRASS DRIVE ACCESS
	PROPOSED ALLEYS
	PROPOSED DRIVEWAY APPROACHES
	EXISTING, MAINTAIN ROADWAY
	EXISTING DRIVE APPROACHES
	EXISTING WETLAND
	MUNICIPAL/STATE RIGHT-OF-WAY
	REGULATORY PATH
	PROPOSED OR EXISTING ST. CROSS

Scale: 1" = 50'
SHEET 3 OF 3
3/20/09

ALTERNATIVE 4 - SPUR ROAD WITH TRUMPET INTERCHANGE



ALTERNATIVE 4 - SPUR ROAD WITH TRUMPET INTERCHANGE



SR1 and Trap Shooters Road Interchange

Appendix F: Cost Estimates

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	I.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	I.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	I.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	I.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