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

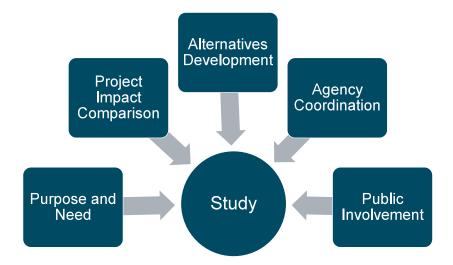






Purpose and Need

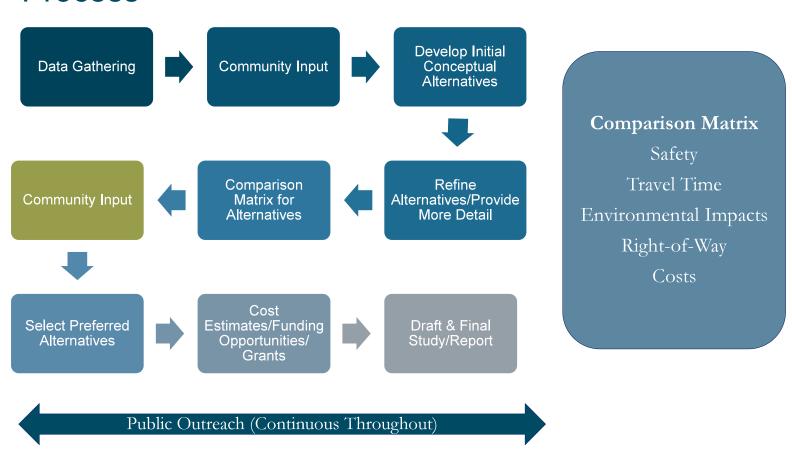
- Purpose
 - Improve safety and capacity at the intersection of SR1 and Trap Shooters Road
- Need
 - The intersection is experiencing high crash rates
 - The intersection reducing the overall capacity of SR1







Process

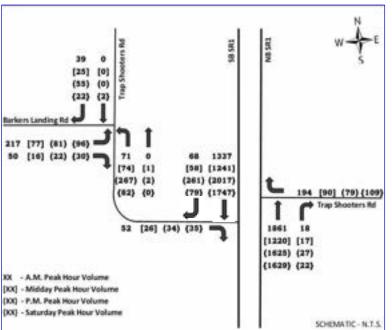




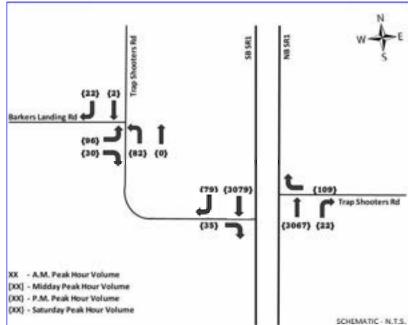


Existing Conditions

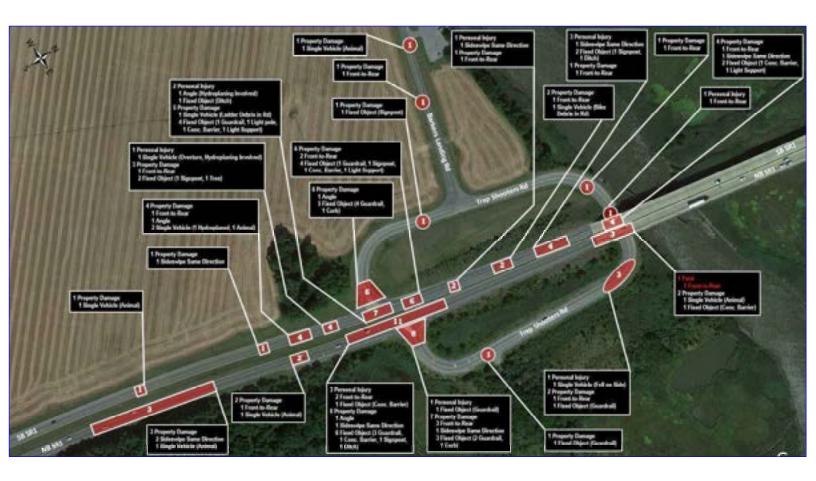
Non summer peak hour turning movements



Summer Saturday peak hour turning movements



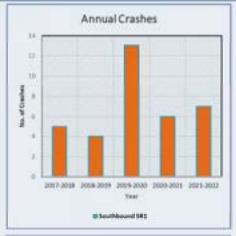




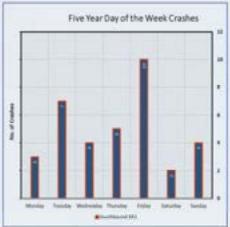




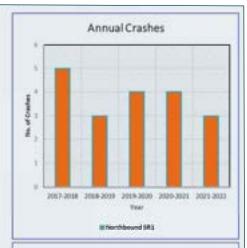
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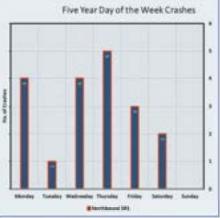


- SR1 Southbound Crashes
 - · Total of 35 crashes
 - 2020 experienced an abnormally high number of crashes
 - Friday has a higher number of crashes



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











































































Alternatives Comparison Matrix

	SR1 Trap Shooters Road Interchnage Study												
Measures of Effectiveness - Physical Impacts													
Measure	UOM	Soi	ccess Points uth ridge	So	ccess Points uth Bridge	New Spur Roa	nate 3 ad to SR1 with nterchnage	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 Alte	ernatives)		
	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	\$3,523,422.00

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

^{** 2021} Base Year Dollars

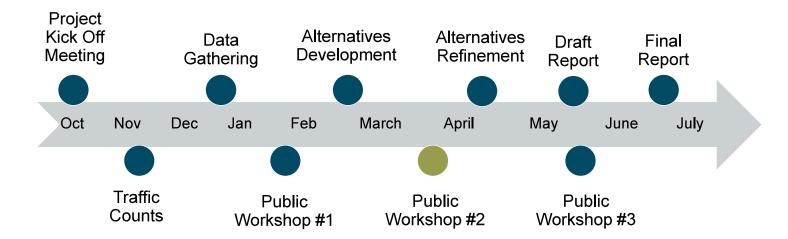
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	Travel Time Change		Alt 1 Ge	ometry			Alt 2 Ge	ometry			Alt 3 Ge	ometry			Alt 4 Ge	eometry		
	(Seconds)	Northbo	und Trips	s Southbound Trip		Northbound Trips S		Southbo			Northbound Trips		Southbound Trip		Northbound Trips		Southbound Trip	
	(Seconds)	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)	

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	(Seconds)	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 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.

Sign in Sheets

SR1 / Trap Shooters Road Interchange Study

Public Workshop 2

March 28, 2023



DOVER/KENT COUNTY MPO



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Name Rulel JoHow S.	12 2449 Wood 1 town Rd 101	302 270 4724
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Todd Buryen	30303 Panderosa DR Magnelia DE 19962 PANDE 302-302-317	L112-016-608 and
Organization	Greenblade, irrigation@gma, 1 com	
Robert HO My	woodly four Rd responden Ox 19462	Phone 3-2-532-3126
Organization Overgooting Fire Co		
Robert Overnoller	4758 South Sate Street manily 19960	303-6-17-3367
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Organization	Email Address	

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



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9 Name John SSRO	192 BAY HILL ROAD MAGNOLIN DE	Phone 973 945-8531
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10 Name RON CANTRELL	Address N MAIN ST MAGNULLIA 19962	302 222 1351
Organization	Email Address RONINGORBITE I COULD. COM	
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12 Name J RMCJ F NB 31 EK	5	Phone 7-3-917-10934
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13 Name JALE M. PILLET	ADDREE HILL RE MAGNOLIA	6480 -869-208 would
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SR1 / Trap Shooters Road Interchange Study

Public Workshop 2





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16 Name Fra Jeth	27 5 Megal. 24 Megal. 2	302 270 232 E
17 Name ROAJ & MALIPEEN REIS Organization	Address 247 EVICELAUS LANE NACHOLIA DE 19962 Email Address	Phong 3-02-270-8670
Organization	Address 178 Plandedeny Read Marcha	Phone 323-697-8798
19 Name Scan Vacutard Organization	Email address 99 Big Heat Land	1302 270 -7942
Organization	Email address plain dealing RD Magnolia DE	Phone 302 370-2853
21 Name Patricia Cerchio Organization	763 Assersta National Macaolio	Phone 3 02 - 387-1309

SR1 / Trap Shooters Road Interchange Study Public Workshop 2

March 28, 2023

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Organization	Email Address	
20 Name abice Harbung	Adress 7 Windraw Way Magnolia DE	Phone 362-284-33/6
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March 28, 2023

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	Organization	Email Address MagNollA De 19962	
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	Organization	Emilhadross Dattswebb Ogamail.com	
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SR1 / Trap Shooters Road Interchange Study Public Workshop 2

March 28, 2023



DOVER/KENT COUNTY MPO



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	Email Address Chinail-com	
Name	Address	Phone
Organization	Email Address	
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Organization	Email Address	

Comment Sheets







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

	Do you support Alternative 1 – Extension of Trap Shooters Road with Wetland Fill? A. Yes
	B. No
	C. Unsure
	C. Onsure
	Do you support Alternative 2 – Extension of Trap Shooters Road with Bridge Spanning Wetland?
	A. Yes
	B. No
	C. Unsure
	Do you support Alternative 3 – New Spur Road from Barkers Landing Road to SR1 with Diamond
	Interchange?
	A. Yes
	(B.) No
	C. Unsure
	Do you support Alternative 4 – New Spur Road from Barkers Landing Road to SR1 with Trumpet
	Interchange?
	(A) Yes
	B. No
	C. Unsure
	Is there another configuration for the corridor you prefer?
	Is there another configuration for the corridor you prefer?
	Is there another configuration for the corridor you prefer?
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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
	B. No
	C. Unsure
5.	Is there another configuration for the corridor you prefer?
If s	o, please describe: (please use the back of this form if you need additional space)
Ad	ditional Comments: (please use the back of this form if you need additional space)
	ase provide your contact information to stay informed about this project:
	me: Leiph Sattor Field Magnidia
	dress: 2449 Woodleytownite Wagudia
Em	nail:

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



A. Yes





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?

	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
	B. No
	C. Unsure
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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.	
	Interchange?
	A. Yes
	B. No
	C. Unsure
	Do you support Alternative 4 – New Spur Road from Barkers Landing Road to SR1 with Trumpet
	Interchange?
	A. Yes
	(B. No
	C. Unsure
5.	Is there another configuration for the corridor you prefer?
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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?

B. No C. Unsure Do you support Alternative 2 – Extension of Trap Shooters Road with Bridge Spanning Wetland: A. Yes B. No C. Unsure Do you support Alternative 3 – New Spur Road from Barkers Landing Road to SR1 with Diamond Interchange? A. Yes B. No C. Unsure Do you support Alternative 4 – New Spur Road from Barkers Landing Road to SR1 with Trumpet Interchange? A. Yes B. No C. Unsure Is there another configuration for the corridor you prefer?	ative 3 – New Spur Road from Barkers Landing Road to SR1 with Diamond
Do you support Alternative 2 – Extension of Trap Shooters Road with Bridge Spanning Wetlands A. Yes B. No C. Unsure Do you support Alternative 3 – New Spur Road from Barkers Landing Road to SR1 with Diamond Interchange? A. Yes B. No C. Unsure Do you support Alternative 4 – New Spur Road from Barkers Landing Road to SR1 with Trumpet Interchange? A. Yes B. No C. Unsure Is there another configuration for the corridor you prefer?	ative 3 – New Spur Road from Barkers Landing Road to SR1 with Diamond
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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?

	B. No
	C. Unsure
	Do you support Alternative 2 - Extension of Trap Shooters Road with Bridge Spanning Wetland?
	A. Yes
	B. No
	C. Unsure
1.	Do you support Alternative 3 – New Spur Road from Barkers Landing Road to SR1 with Diamond
	Interchange?
	A. Yes
	B. No
	C. Unsure
	Do you support Alternative 4 – New Spur Road from Barkers Landing Road to SR1 with Trumpet
	Interchange?
	A. Yes
	B. No
	C. Unsure
	Is there another configuration for the corridor you prefer? o, please describe: (please use the back of this form if you need additional space)
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Ple	ease turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to: mes 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

Do you support Alternative 1 – Extension of Trap Shooters Road with Wetland Fill?

	C. Unsure
2.	Do you support Alternative 2 – Extension of Trap Shooters Road with Bridge Spanning Wetland? A. Yes B. No C. Unsure
	C. Offsdre
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 B. No C. Unsure
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	ase provide your contact information to stay informed about this project:
Na	ne: ROBER CEARCH HILL RO. MALLOUIS
	ail: ROGE 197 @ GTAIL, CON
Jan jan	ase turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to: nes Galvin, AICP – Dover/Kent Co MPO Principal Planner nes galvin@doverkentmpo.org - Ph: 302.387.6030 83 Friends Way, Ste 3, Camden, DE 19934







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

Do you support Alternative 1 – Extension of Trap Shooters Road with Wetland Fill?

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4-		support Alternative 2 – Extension of Trap Shooters Road with Bridge Spanning Wetland?
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Do you support Alternative 1 – Extension of Trap Shooters Road with Wetland Fill?

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	A. Yes
	B. No
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2.	Do you support Alternative 2 - Extension of Trap Shooters Road with Bridge Spanning Wetland?
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3.	Do you support Alternative 3 – New Spur Road from Barkers Landing Road to SR1 with Diamond
	Interchange?
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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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PI	ease provide your contact information to stay informed about this project:
Na	Ime: Paula Zimmerrian Road, Magnolia DE 19962
Er	nail: CZ 111252@ ADL. com
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Pi	ease turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:

1783 Friends Way, Ste 3, Camden, DE 19934 http://www.doverkentmpo.org

James Galvin, AICP - Dover/Kent Co MPO Principal Planner james.galvin@doverkentmpo.org - Ph: 302.387.6030







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?
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Ple	ase provide your contact information to stay informed about this project:
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Ple	ase turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:
	nes Galvin, AICP - Dover/Kent Co MPO Principal Planner

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1. Do you support Alternative 1 - Extension of Trap Shooters Road with Wetland Fill?

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	Interchange?
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4.	Do you support Alternative 4 – New Spur Road from Barkers Landing Road to SR1 with Trumpet Interchange?
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	ease turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:
	mes Galvin, AICP – Dover/Kent Co MPO Principal Planner
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1/	83 Friends Way, Ste 3, Camden, DE 19934







1. Do you support Alternative 1 - Extension of Trap Shooters Road with Wetland Fill?

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Ple	ease turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:
	nes Galvin, AICP – Dover/Kent Co MPO Principal Planner
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james,galvin@doverkentmpo.org - Ph: 302,387.6030

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

Do you support Alternative 1 – Extension of Trap Shooters Road with Wetland Fill?

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4.		u support Alternative 2 – Extension of Trap Shooters Road with Bridge Spanning Wetland
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james.galvin@doverkentmpo.org - Ph: 302.387.6030

1783 Friends Way, Ste 3, Camden, DE 19934







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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	nes Galvin, AICP – Dover/Kent Co MPO Principal Planner
jan	nes.galvin@doverkentmpo.org - Ph: 302.387.6030

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	A. Yes
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2.	Do you support Alternative 2 – Extension of Trap Shooters Road with Bridge Spanning Wetland?
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Ple	ase turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:
	nes Galvin, AICP – Dover/Kent Co MPO Principal Planner
	nes.galvin@doverkentmpo.org - Ph: 302.387.6030

1783 Friends Way, Ste 3, Camden, DE 19934







1. Do you support Alternative 1 - Extension of Trap Shooters Road with Wetland Fill?

	A. Yes
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	Do you support Alternative 2 – Extension of Trap Shooters Road with Bridge Spanning Wetland?
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	Interchange?
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	ase provide your contact information to stay informed about this project:
	me: Maureen Ret
Ad	dress: 247 Becklaus d'ene, Magnalia
Em	maureen@theRebs, net
	ease turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:
Jan	nes Galvin, AICP – Dover/Kent Co MPO Principal Planner

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james.galvin@doverkentmpo.org - Ph: 302.387.6030







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	A. Yes
	B. No
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2	Do you support Alternative 2 – Extension of Trap Shooters Road with Bridge Spanning Wetland?
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Ple	ase turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:
13	and the second of the second o

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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 Ok to Ordge wetland thomake housed tight B. No C. Unsure to avoid ITTIG at lon-Bridge to wetland if necessary - See Blue Street
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 B. No C. Unsure
	Is there another configuration for the corridor you prefer? to, please describe: (please use the back of this form if you need additional space)
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Na	ease provide your contact information to stay informed about this project: me: dress:
Jan jan	ease turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to: mes Galvin, AICP — Dover/Kent Co MPO Principal Planner mes.galvin@doverkentmpo.org - Ph: 302.387.6030 83 Friends Way, Ste 3, Camden, DE 19934







1. Do you support Alternative 1 - Extension of Trap Shooters Road with Wetland Fill?

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Please provide your contact is	nformation to stay informed about this project:
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	sheets at the workshop or mail/email prior to April 25, 2023 to:
James Galvin, AICP - Dover/K	Cent Co MPO Principal Planner
inmore anhain Melounekentman	040 Ph. 303 307 6030

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
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Do you support Alternative 1 – Extension of Trap Shooters Road with Wetland Fill?

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







1. Do you support Alternative 1 - Extension of Trap Shooters Road with Wetland Fill?

1	
	I. No
	. Unsure
. Doy	ou support Alternative 2 – Extension of Trap Shooters Road with Bridge Spanning Wetland?
	V. Yes
1	3. No
1	C. Unsure
. Doy	ou support Alternative 3 – New Spur Road from Barkers Landing Road to SR1 with Diamond
Inte	change?
1	A. Yes
	3. No
50	. Unsure
	ou support Alternative 4 – New Spur Road from Barkers Landing Road to SR1 with Trumpet change?
	Yes
	3. No
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	ere another configuration for the corridor you prefer? ase describe: (please use the back of this form if you need additional space)
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1783 Friends Way, Ste 3, Camden, DE 19934







4.0	A Yes
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)	Do you support Alternative 2 – Extension of Trap Shooters Road with Bridge Spanning Wetland?
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١,	Do you support Alternative 3 – New Spur Road from Barkers Landing Road to SR1 with Diamond
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	B. No
	C Unsure
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	Interchange?
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)	B) No
	C. Unsure
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. 3	shows up to use their voice!
ni.	are availed to the contract to formation to atom to form and about this work to
	ase provide your contact information to stay informed about this project:
Na Na	me: Amy Zook
AO	oress: 135 main 3/ Magnicia
EM	dress: 13 & main St Magniferer
	ease turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:
	nes Galvin, AICP – Dover/Kent Co MPO Principal Planner

james.galvin@doverkentmpo.org - Ph: 302.387.6030

1783 Friends Way, Ste 3, Camden, DE 19934







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
Int	erchange?
	A. Yes
	B. No
	C. Unsure
4. Do	you support Alternative 4 - New Sput Road from Barkers Landing Road to SR1 with Trumpet
Int	erchange?
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Name:	
Addres	is:
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

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

Tomas noves) Need interm improvements A These alternatives den't have finding Object merge ahead Signs su people on SKI know to move over—This is dure very well in Miltird is dure very well in Miltird Doleyone ignores Signs do simethingmire Bury no inderni alts? They do you make me face strought out
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1. Do you support Alternative 1 – Extension of Trap Shooters Road with Wetland Fill?

	(A) Yes
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	C. Unsure
1	Do you support Alternative 2 – Extension of Trap Shooters Road with Bridge Spanning Wetland?
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	C. Unsure
1.	Do you support Alternative 3 – New Spur Road from Barkers Landing Road to SR1 with Diamond
	Interchange?
	(A) Yes
	B. No
	C. Unsure
	Do you support Alternative 4 – New Spur Road from Barkers Landing Road to SR1 with Trumpet
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	ase provide your contact information to stay informed about this project:
	me: John Sgro
	dress: 192 BAY HILL ROAD MAGNOLIA DE
Em	
	SGROJE OUTLOOK COM
	SGROJ@047Look.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 Singer

Signage:

1) LARGER MAGNOLIA EXIT SIGNS
BOTH WAYS AND A BIT
EARLIER THAN THE CURRENT
SigNS (Which could REMAIN)

2) CAUTION MERSINS TRAFFIC SIGNS ON RT I NORTH AND SOUTH



http://www.doverkentmpo.org

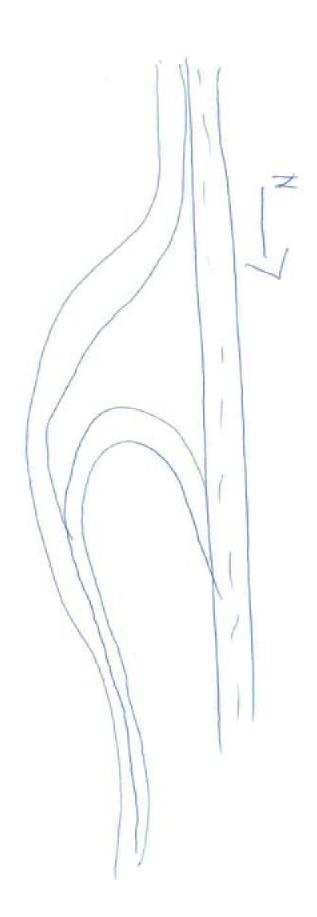




SR1 / Trap Shooters Road Interchange Study - Public Workshop 2 March 28, 2023 Comment Form

1. Do you support Alternative 1 - Extension of Trap Shooters Road with Wetland Fill?

	A. Yes
	B. No
	C. Unsure
	Do you support Alternative 2 – Extension of Trap Shooters Road with Bridge Spanning Wetland?
	(A.) Yes
	B. No
	C. Unsure
	Do you support Alternative 3 - New Spur Road from Barkers Landing Road to SR1 with Diamond
	Interchange?
	A. Yes
	B. No
	C. Unsure
	Do you support Alternative 4 - New Spur Road from Barkers Landing Road to SR1 with Trumpet
	Interchange?
	A. Yes
	B. No
	C. Unsure
	o, please describe: (please use the back of this form if you need additional space) SC Back
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Ad En Ple	Idress: hail: ease turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to: mes Galvin, AICP — Dover/Kent Co MPO Principal Planner
Pie Jan	dress: nail: ease turn-in your comment sheets at the workshop or mail/email prior to April 25, 2023 to:









1.	Do you support Altern	ative 1 – Extensi	on of Trap Shoot	ers Road with Wet	land Fill?	
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19	B. No					
13	C. Unsure					
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2.	Do you support Altern	ative 2 – Extensi	on of Trap Shoot	ers Road with Brid	ge Spanning Wetl	and?
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	C. Unsure					
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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 OP

From: Melissa Anderson < mastiller1@yahoo.com>

Sent: Tuesday, March 21, 2023 1:16 PM

To: James Galvin < iames.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

Cc: Sen. Eric Buckson < <u>eric.buckson@delaware.gov</u>>; Hon. Kerri Evelyn Harris

<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

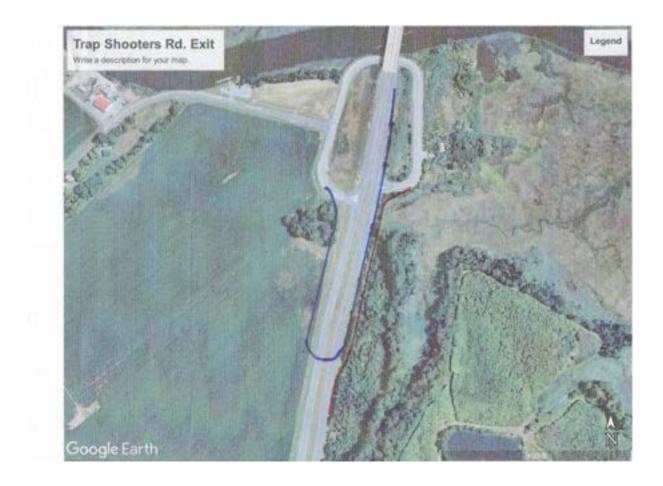
Yet it will still achieve the improved safety goals of the project. Did I mention save taxpayers money?

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









SR1 and Trap Shooters Road Interchange

Appendix E: Preferred Alternatives









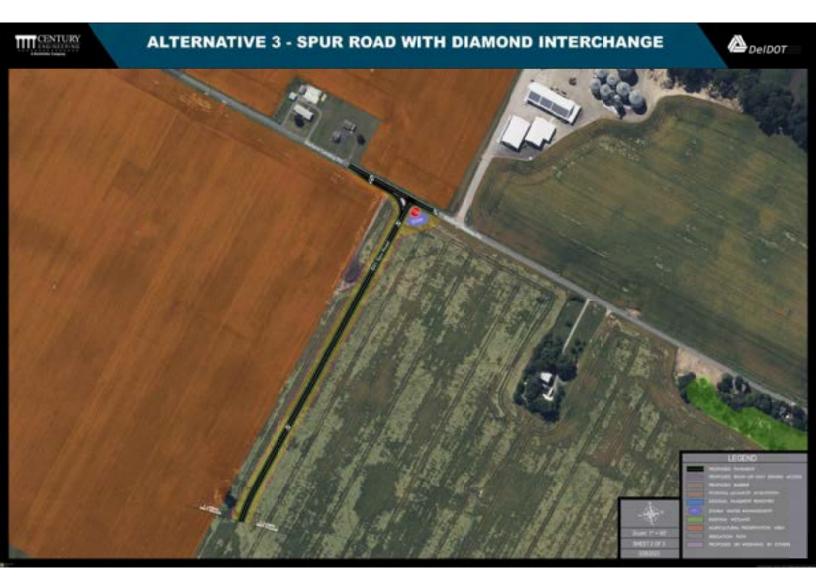




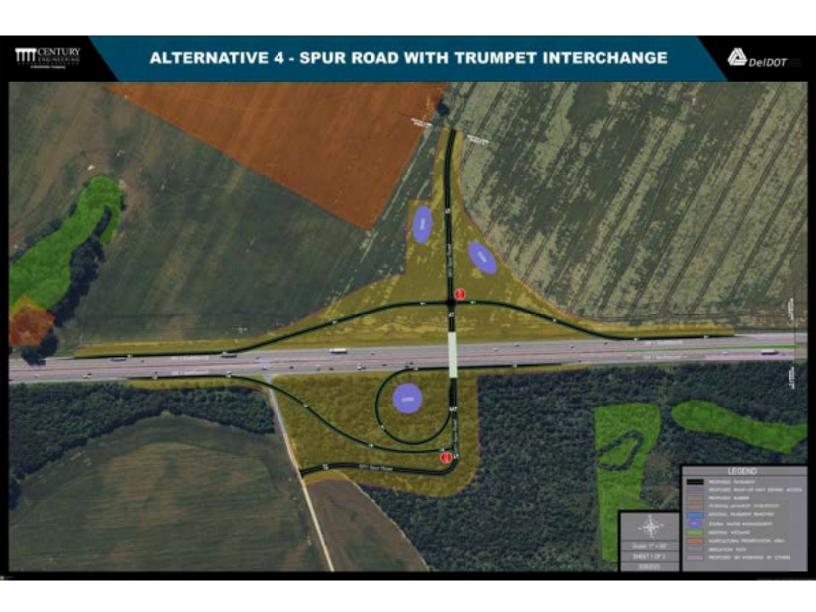




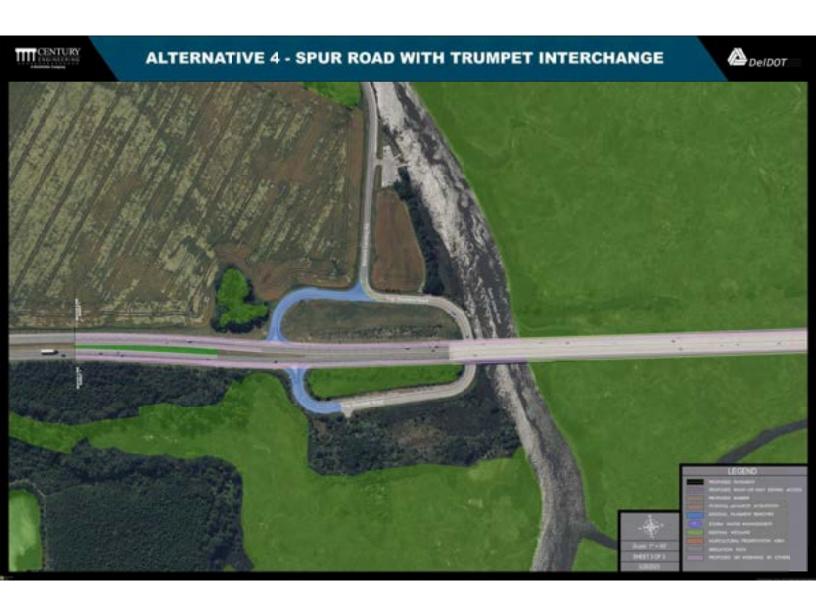












SR1 and Trap Shooters Road Interchange

Appendix F: Cost Estimates







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

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

TBD

	t Estimate	

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
<u>301001</u>	GABC	CY	\$65.00	7818.00	\$508,170.00
302002	DELAWARE NO. 3 STONE	TON	\$60.00	107.00	\$6,420.00
<u>401006</u>	SUPERPAVE TYPE C, PG 70-22 (CARBONATE STONE)	TON	\$140.00	3778.00	\$528,920.00
<u>401015</u>	SUPERPAVE TYPE B, PG 70-22	TON	\$125.00	7669.00	\$958,625.00
<u>401021</u>	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
<u>601033</u>	REINFORCED CONCRETE PIPE, 18", CLASS IV	LF	\$80.00	500.00	\$40,000.00
<u>601035</u>	REINFORCED CONCRETE PIPE, 24", CLASS IV	LF	\$100.00	840.00	\$84,000.00
<u>601144</u>	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
<u>701023</u>	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
<u>723015</u>	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
700000	L-W-J 5 (50)	1.0	0.440,000,00	4	#449.000.00
	Initial Expense (5%)	L.S.	\$418,299.36	1	\$418,299.36
/63501	Construction Engineering (2.5%)	L.S.	\$209,149.68	1	\$209,149.68
	TOTAL PLOS SOR PROJECT				***********
	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
	The Earliest Control (not control of the		\$2,027,000.00	<u> </u>	\$2,521,555.00
	TOTAL CONSTRUCTION COST				\$13,877,220.10
	PROJECT DEVELOPMENT	L.S.	\$899,340.00	1	\$899,340.00
		L.S.	\$1,349,020.00	1	\$1,349,020,00
	PRELIMINARY ENGINEERING (DESIGN)	l ∟.S.	J \$1,349,020.00	'	\$1,5 4 5,020.00
	ROW COSTS	SF	\$1,298,637.50	1	\$1,300,000.00

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

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

	TBD Conceptual Cost Estimate 4/18/2023					
ITEM #	TITLE	18/2023 UNIT	ESTIMATE	UNIT	TOTAL	
			COST	QUANTITY		
201000	CLEARING AND GRUBBING	LS	\$150,000.00	1.00	\$150,000.0	
202000	EXCAVATION AND EMBANKMENT	CY	\$40.00	48438.00	\$1,937,520.00	
202003	UNDERCUT EXCAVATION	CY	\$35.00	2307.00	\$80,745.0	
204000	TEST HOLE	CY	\$200.00	11.00	\$2,200.0	
209001	BORROW, TYPE A	CY	\$30.00	11255.00	\$337,650.0	
209006	BORROW, TYPE F	CY	\$25.00	128.00	\$3,200.0	
301001	GABC	CY	\$65.00	7585.00	\$493,025.0	
302002	DELAWARE NO. 3 STONE	TON	\$60.00	107.00	\$6,420.0	
401006	SUPERPAVE TYPE C, PG 70-22 (CARBONATE STONE)	TON	\$140.00	3659.00	\$512,260.0	
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 601035	REINFORCED CONCRETE PIPE, 18", CLASS IV	LF LF	\$80.00	500.00	\$40,000.00	
601144	REINFORCED CONCRETE PIPE, 24", CLASS IV		\$100.00	840.00	\$84,000.00	
602005	REINFORCED CONCRETE FLARED END SECTION, 24"	EACH	\$1,800.00	14.00	\$25,200.00	
701023	DRAINAGE INLET, 48" X 48"	EACH LF	\$4,500.00	8.00 1406.00	\$36,000.00 \$50,616.00	
705001	I.PCC CURB AND GUTTER, TYPE 3-8	SF	\$36.00	0.00	\$50,616.00	
705001	PCC SIDEWALK, 4" PCC SIDEWALK, 6"	SF	\$11.00 \$15.00	19737.00	\$296,055.00	
705002	DETECTABLE WARNING SURFACE	SF SF	\$15.00	0.00	\$296,055.00	
723015		LF		-	\$348,600.00	
762000	CONCRETE MEDIAN BARRIER, 42? F-SHAPE SAW CUTTING, BITUMINOUS CONCRETE	LF	\$200.00 \$2.50	1743.00 0.00	\$348,600.00	
762001	SAW CUTTING, BITUMINOUS CONCRETE SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$2.50	5114.00	\$0.00	
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	62.00	\$25,570.00	
817013	PERMANENT PAVEMENT STRIPING, STMIDOL/LEGEND, ALT D-THERMOPLASTIC	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		\$300,000.00	<u>'</u>	\$12,459,946,00	
	- Cubicial				ψ12,400,040.00	
763000	Initial Expense (5%)	L.S.	\$622,997.30	1	\$622,997.3	
	Construction Engineering (2,5%)	L.S.	\$311,498,65	1	\$311,498,6	
7 0 0 0 0 1	Constitution Engineering (2.070)	L.S.	\$511,430,03	' 	Ψ511,490.0	
	TOTAL BASE FOR PROJECT				\$13,394,441.95	
	CONSTRUCTION CONTINGENCY	25%	\$3,348,610.49	1	\$3,348,610.4	
·	TRAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$50,000.00	1	\$50,000.0	
	UTILITY	L.S.	\$150,000.00	1	\$150,000.0	
	PLANTING	L.S.	\$20,000.00	1	\$20,000.0	
	QA/QC for HMA	L.S.	\$7,730.10	1	\$7,730.1	
	Asphalt Cost Adj	L.S.	\$77,558.40	1	\$77,558.4	
	CONSTRUCTION ENGINEERING - (INSPECTION CE ETC)	1.9	\$3 //39 610 //9	1	\$3,439,610,4	

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\$3,439,610.49

\$1,339,440.00

\$2,009,170.00

\$1,384,927.50

\$3,439,610.49

\$20,487,951.43

\$1,339,440.00

\$25,236,561.43

\$2,009,170.00

TOTAL CONSTRUCTION COST

PRELIMINARY ENGINEERING (DESIGN)

TOTAL BASE CONSTRUCTION COST

PROJECT DEVELOPMENT

CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)

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

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

	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	\$75,000.0
202000	EXCAVATION AND EMBANKMENT	CY	\$40.00	76562.00	\$3,062,480.0
202003	UNDERCUT EXCAVATION	CY	\$35.00	3646.00	\$127,610.0
204000	TEST HOLE	CY	\$200.00	11.00	\$2,200.0
209001	BORROW, TYPE A	CY	\$30.00	10293.00	\$308,790.0
209006	BORROW, TYPE F	CY	\$20.00	260325.00	\$5,206,500.0
301001	GABC	CY	\$65.00	6554.00	\$426,010.0
302002	DELAWARE NO. 3 STONE	TON	\$60.00	107.00	\$6,420.
<u>401006</u>	SUPERPAVE TYPE C, PG 70-22 (CARBONATE STONE)	TON	\$140.00	3346.00	\$468,440.
<u>401015</u>	SUPERPAVE TYPE B, PG 70-22	TON	\$125.00	6792.00	\$849,000.
<u>401021</u>	SUPERPAVE TYPE BCBC, PG 64-22	TON	\$100.00	10060.00	\$1,006,000.
601032	REINFORCED CONCRETE PIPE, 15", CLASS IV	LF	\$70.00	300.00	\$21,000.
<u>601033</u>	REINFORCED CONCRETE PIPE, 18", CLASS IV	LF	\$80.00	300.00	\$24,000.
601035	REINFORCED CONCRETE PIPE, 24", CLASS IV	LF	\$100.00	960.00	\$96,000.0
<u>601144</u>	REINFORCED CONCRETE FLARED END SECTION, 24"	EACH	\$1,800.00	20.00	\$36,000.
602005	DRAINAGE INLET, 48" X 48"	EACH	\$4,500.00	10.00	\$45,000.
701023	I.PCC CURB AND GUTTER, TYPE 3-8	LF	\$36.00	89.00	\$3,204.
705001	PCC SIDEWALK, 4"	SF	\$11.00	0.00	\$0.0
705002	PCC SIDEWALK, 6"	SF	\$15.00	341.00	\$5,115.
705007	DETECTABLE WARNING SURFACE	SF	\$50.00	0.00	\$0.
<u>723015</u>	CONCRETE MEDIAN BARRIER, 42? F-SHAPE	LF	\$200.00	0.00	\$0.
762000	SAW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	0.00	\$0.
<u>762001</u>	SAW CUTTING, CONCRETE, FULL DEPTH	LF	\$5.00	3936.00	\$19,680.
817002	PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	62.00	\$930.
817013	PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$0.80	26027.00	\$20,821.
905001	SILT FENCE	LF	\$1.50	9328.00	\$13,992.0
905004	INLET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	10.00	\$1,500.
908004	TOPSOIL, 6" DEPTH	SY	\$15.00	77776.00	\$1,166,640.
908014	PERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	77776.00	\$77,776.
908015	PERMANENT GRASS SEEDING, STORMWATER	SY	\$1.50	5061.00	\$7,591.
908017	TEMPORARY GRASS SEEDING	SY	\$0.75	244995.00	\$183,746.
908023	STABILIZED CONSTRUCTION ENTRANCE	SY	\$45.00	477.00	\$21,465.
908024 850003	STABILIZED CONSTRUCTION ENTRANCE, TOPDRESSING	TON	\$78.00	40.00	\$3,120.
	LUMINAIRE (HPS), 150 WATTS	EACH	\$13,000.00	53.00	\$689,000.
999999 999999	LANDSCAPING LUMP SUM	LS	\$75,000.00	1.00	\$75,000.
999999	BRIDGE CONSTRUCTION	SF	\$325.00	6922.00	\$2,249,650.
	STORMWATER MANAGEMENT POND LUMP SUM	LS	\$350,000.00	1.00	\$350,000.
999999	MAINTENANCE OF TRAFFIC	L.S.	\$250,000.00	1	\$250,000
	Subtotal				\$16,899,681.
	Initial Expense (5%)	L.S.	\$844,984.07	1	\$844,984
/63501	Construction Engineering (2.5%)	L,S.	\$422,492.03	1	\$422,492
	TOTAL BASE FOR PROJECT				\$18,167,157.
	CONSTRUCTION CONTINGENCY	25%	\$4,541,789.36	1	\$4,541,789
	TRAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$50,000.00	1	\$50,000
	UTILITY	L.S.	\$150,000.00	1	\$150,000
	PLANTING	L.S.	\$20,000.00	1	\$20,000
	QA/QC for HMA	L.S.	\$7,069.30	1	\$7,069
	Asphalt Cost Adj	L.S.	\$70,926.00	1	\$70,926
	CONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$4,690,539.36	1	\$4,690,539
	Sold House Engine Engine English (More Engine Engin	2.0.	\$4,550,555.50		——————————————————————————————————————
	TOTAL CONSTRUCTION COST				\$27,697,481
	PPO JECT DEVEL OPMENT	1.9	\$1.816.720.00	1	\$1.816.720

\$1,816,720.00

\$2,725,070.00 \$2,298,230.00

L.S.

L.S.

\$1,816,720.00

\$2,725,070.00 \$2,300,000.00

\$34,539,271.48

PROJECT DEVELOPMENT

PRELIMINARY ENGINEERING (DESIGN)
ROW COSTS

TOTAL BASE CONSTRUCTION COST

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

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

202000 EX 202003 UN 204000 TE 209001 BC 209006 BC 301001 GA 302002 DE 401006 SL 401015 SL	TITLE LEARING AND GRUBBING XCAVATION AND EMBANKMENT NDERCUT EXCAVATION EST HOLE ORROW, TYPE A ORROW, TYPE F	UNIT LS CY CY CY CY	ESTIMATE COST \$75,000.00 \$40.00 \$35.00	UNIT QUANTITY 1.00 80211.00	TOTAL \$75,000.00
202000 EX 202003 UN 204000 TE 209001 BC 209006 BC 301001 GA 302002 DB 401006 SL 401015 SL	XCAVATION AND EMBANKMENT NDERCUT EXCAVATION EST HOLE ORROW, TYPE A ORROW, TYPE F	CY CY CY	\$40.00 \$35.00		\$75,000.00
202003 UN 204000 TE 209001 BO 209006 BO 301001 GA 302002 DE 401006 SU 401015 SU	NDERCUT EXCAVATION EST HOLE ORROW, TYPE A ORROW, TYPE F	CY	\$35.00	90244 00	,,
204000 TE 209001 BO 209006 BO 301001 GA 302002 DE 401006 SL 401015 SL	EST HOLE ORROW, TYPE A ORROW, TYPE F	CY			\$3,208,440.0
209001 BC 209006 BC 301001 GA 302002 DE 401006 SL 401015 SL	ORROW, TYPE A ORROW, TYPE F			76391.00	\$2,673,685.0
209006 BC 301001 GA 302002 DE 401006 SL 401015 SL	ORROW, TYPE F	l CY	\$200.00	11.00	\$2,200.0
301001 GA 302002 DE 401006 SU 401015 SU			\$30.00	10881.00	\$326,430.0
302002 DE 401006 SU 401015 SU		CY	\$20.00	27601.00	\$552,020.0
401006 St. 401015 St.		CY	\$65.00	6934.00	\$450,710.0
401015 SL	ELAWARE NO. 3 STONE	TON	\$60.00	107.00	\$6,420.0
	UPERPAVE TYPE C, PG 70-22 (CARBONATE STONE)	TON	\$140.00	3537.00	\$495,180.0
401021 50	UPERPAVE TYPE B. PG 70-22	TON	\$125.00	7179.00	\$897,375.0
601032 RF	UPERPAVE TYPE BCBC, PG 64-22	TON LF	\$100.00	10634.00	\$1,063,400.0
	EINFORCED CONCRETE PIPE, 15", CLASS IV EINFORCED CONCRETE PIPE, 18", CLASS IV	LF	\$70.00 \$80.00	300.00 300.00	\$21,000.0 \$24,000.0
	EINFORCED CONCRETE PIPE, 16 , CLASS IV EINFORCED CONCRETE PIPE, 24", CLASS IV	LF LF	\$100.00	960.00	\$96,000.0
	EINFORCED CONCRETE FIFE, 24 , CLASS IV EINFORCED CONCRETE FLARED END SECTION, 24"	EACH	\$1,800.00	20.00	\$36,000.0
	RAINAGE INLET, 48" X 48"	EACH	\$4,500.00	10.00	\$45,000.0
	PCC CURB AND GUTTER, TYPE 3-8	LF	\$4,500.00	89.00	\$3,204.0
100	CC SIDEWALK, 4"	SF	\$11.00	0.00	\$3,204.0
	CC SIDEWALK, 4 CC SIDEWALK, 6"	SF	\$15.00	341.00	\$5,115.0
	ETECTABLE WARNING SURFACE	SF	\$50,00	0.00	\$0.0
	ONCRETE MEDIAN BARRIER, 42? F-SHAPE	LF	\$200,00	0.00	\$0.0
	AW CUTTING, BITUMINOUS CONCRETE	LF	\$2.50	0.00	\$0.00
	AW CUTTING, CONCRETE, FULL DEPTH	LF	\$5.00	4486.00	\$22,430,00
	ERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	SF	\$15.00	62.00	\$930.0
	ERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	LF	\$0.80	27361.00	\$21,888.80
	LT FENCE	LF	\$1,50	9789.00	\$14.683,50
	ILET SEDIMENT CONTROL, DRAINAGE INLET	EACH	\$150.00	10.00	\$1,500.00
	OPSOIL, 6" DEPTH	SY	\$15.00	81984.00	\$1,229,760.00
908014 PE	ERMANENT GRASS SEEDING, DRY GROUND	SY	\$1.00	81984.00	\$81,984.00
908015 PE	ERMANENT GRASS SEEDING, STORMWATER	SY	\$1.50	4784.00	\$7,176.0
908017 TE	EMPORARY GRASS SEEDING	SY	\$0.75	258250.00	\$193,687.50
908023 ST	TABILIZED CONSTRUCTION ENTRANCE	SY	\$45.00	477.00	\$21,465.00
908024 ST	TABILIZED CONSTRUCTION ENTRANCE, TOPDRESSING	TON	\$78.00	40.00	\$3,120.00
	JMINAIRE (HPS), 150 WATTS	EACH	\$13,000.00	60.00	\$780,000.00
<u>999999</u> LA	ANDSCAPING LUMP SUM	LS	\$75,000.00	1.00	\$75,000.00
	RIDGE CONSTRUCTION	SF	\$325.00	6922.00	\$2,249,650.0
	TORMWATER MANAGEMENT POND LUMP SUM	LS	\$350,000.00	1.00	\$350,000.00
999999 MA	AINTENANCE OF TRAFFIC	L.S.	\$250,000.00	1	\$250,000.0
Su	ubtotal				\$15,284,453.8
763000 I ni	itial Expense (5%)	L.S.	\$764,222.69	1	\$764,222.6
763501 Co	onstruction Engineering (2.5%)	L.S.	\$382,111.35	1	\$382,111.3
TC	OTAL BASE FOR PROJECT				\$16,430,787.84
<u></u>	OVOTRUGTION CONTINUED V	055	04 407 005 55		04.407
	ONSTRUCTION CONTINGENCY	25%	\$4,107,696.96	1	\$4,107,696.9
	RAFFIC (FROM TRAFFIC STATEMENT)	L.S.	\$50,000.00	1	\$50,000.0
	TILITY	L.S.	\$150,000.00	1	\$150,000.0
	LANTING A/OC for LIMA	L.S.	\$20,000.00	1 1	\$20,000.0
	A/QC for HMA	L.S.	\$7,472.50	1	\$7,472.5
	sphalt Cost Adj ONSTRUCTION ENGINEERING - (INSPECTION, CE, ETC)	L.S.	\$74,970.00 \$4,256,446.96	1	\$74,970.0 \$4,256,446.9
	ONOTINO THORILLINING - (INGELETION, OL, LTO)		ψ 4 ,230,440.90	'	ψ 4 ,230,440.8
	OTAL CONSTRUCTION COST				\$25,097,374.2
	ROJECT DEVELOPMENT	L.S.	\$1,643,080.00	1	\$1,643,080.0
	RELIMINARY ENGINEERING (DESIGN)	L.S.	\$2,464,620.00	1	\$2,464,620.0
	OW COSTS OTAL BASE CONSTRUCTION COST	SF	\$2,424,430.00	1	\$2,500,000.0 \$31,705,074.2