

List of meeting materials

Phase 2 Working Group Meeting #6

Monday, October 26, 2020, 6:00 pm Online

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Map of active projects and studies in the area	following page 73







Agenda

Phase 2 Working Group Meeting #6

Monday, October 26, 2020, 6:00 pm Online

- 1. Introduction
 - · Summary of notebook materials
 - Approval of July 27, 2020 meeting minutes
- 2. Welcome: Nicole Majeski, Deputy Secretary, DelDOT
- 3. Henlopen TID update
- 4. Map of active projects and studies in the area
- 5. Mulberry Knoll Road extension
- 6. Phase 2 implementation status
- 7. Presentation on DelDOT's traffic activities in the study area
- 8. Public comment
- 9. Adjourn







Phase 2 Working Group Meeting #6

October 26, 2020





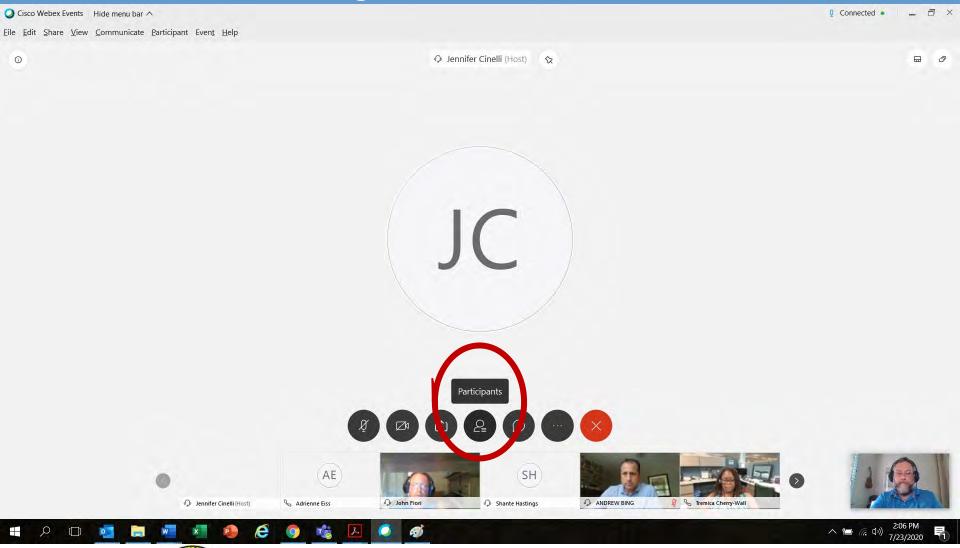
Agenda

- Introduction
- Welcome: Nicole Majeski, Deputy Secretary, DelDOT
- Henlopen TID update
- Map of active projects and studies in the area
- Mulberry Knoll Road extension
- Phase 2 implementation status
- Presentation on DelDOT's Traffic/ITS work
- Public comment





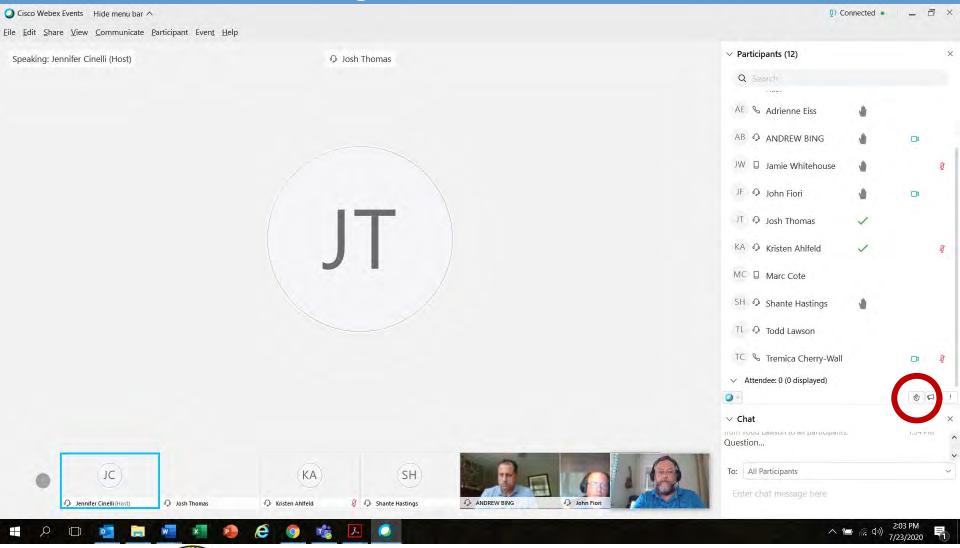
How to raise your hand







How to raise your hand







Introduction

- Summary of notebook materials
 - Agenda
 - Presentation
 - Draft minutes of July 27 Working Group meeting
 - List of upcoming meetings
 - Updated implementation plan
- Approval of July 27, 2020 meeting minutes





Welcome



Nicole Majeski Deputy Secretary, DelDOT







HENLOPEN TID UPDATE





Henlopen TID update

- MOU between DelDOT and Sussex County signed on September 22
- DelDOT presented on the TID agreement at the September 22 Sussex County Council meeting
 - Presentation is on DelDOT's TID website at <u>https://deldot.gov/Programs/transportation-improvement-districts/</u>
- A vote on the TID agreement is on tomorrow's Sussex County Council meeting agenda







MAP OF ACTIVE PROJECTS AND STUDIES IN THE AREA





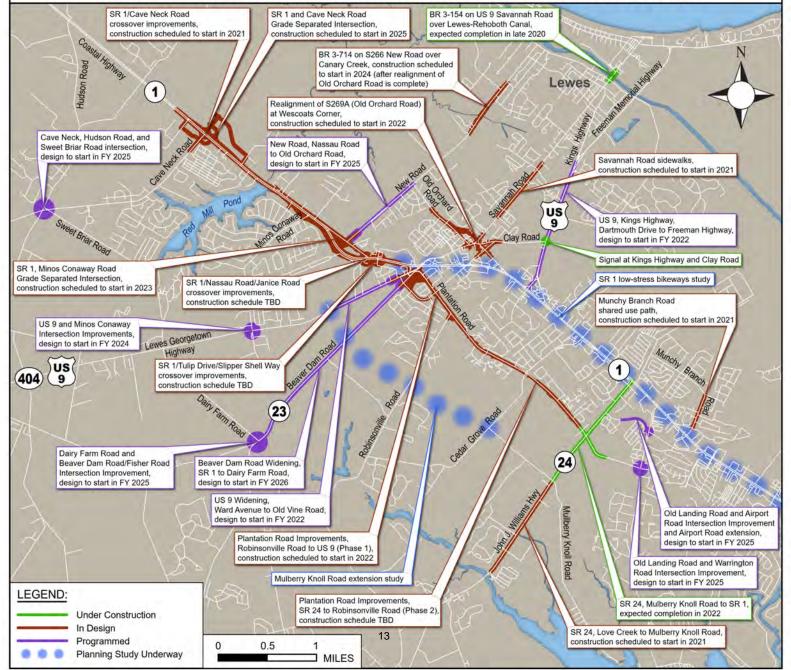
Map of projects and studies

- Created to show how DelDOT's activities in the Five Points area fit together
- 26 total
 - 3 under construction
 - 12 in design
 - 2 planning studies underway
 - 9 programmed
- Map is located on the Five Points website at <u>5points.deldot.gov</u>





ACTIVE PROJECTS AND STUDIES IN THE AREA, OCTOBER 2020





MULBERRY KNOLL ROAD EXTENSION





Mulberry Knoll Road Extension

- The extension of Mulberry Knoll Road to US 9
 was a recommendation of both Phase 1 of
 the Five Points Transportation Study and the
 Henlopen TID study
- The study will include consideration of whether DelDOT should:
 - Extend Mulberry Knoll Road,
 - Widen Plantation Road between Robinsonville Road and Route 24, or
 - Both
- Work is just beginning





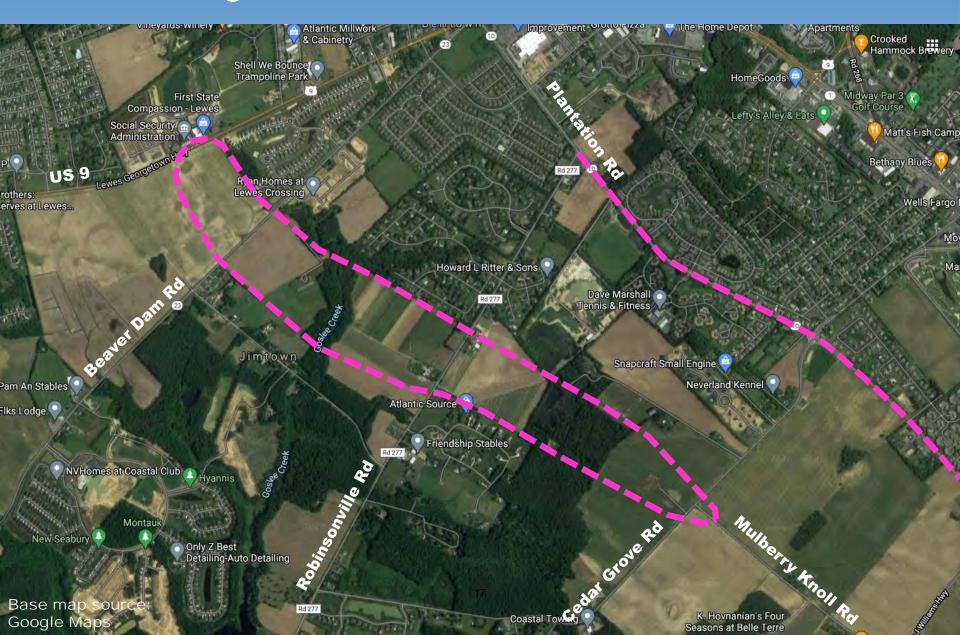
Mulberry Knoll Road Extension

- Inventory and mapping of wetlands and historic resources is underway
- Opportunities for public involvement will be provided during the study process





Mulberry Knoll Road Extension





Phase 2 Implementation Plan Update

CMART for		ecend re	ien			\$ <5300K - 530M 55	**	-D years 3-10 years 510 years		Low Medium High			
Category	ю	Priority	Old idea	Working Group recommendation	Assumed lead agency	Other responsible parties (if any)	Shedy	Study timeframe	Seep.	long. Simeframe	Imp. impacts	Station	Memorks (public)
		Ag/A	а	Review the need for grade separating or restricting crowing between finederics and Lewes, before eliminating signals in this area.			5		Mt.	NA	N/A	COMPLETE	A memorandum community this effort can be found at \$1045.
		NA.	-0	Evaluate Tulip Online committees to Route I as part of the Mirror Committy Road grade separation project	DHEXIT - PD South		5		55			COMPLETE	Has connection is now part of the project, Project information can be found at https://www.deldoc.gov/information/projects/SESMnoot/univers/in- des.btml
		N/A	-61	trudy the feasibility of increasing the proposed floute 2A. Suppos of Millisboro from one lane in each direction to two lates in each direction.	0+001 - FD South		50		5955	-	111	COMPLETE	This effort was completed as part of the US 113 Milliboro-South Area Supplemental DEA. A new-large bypass was found to be adequate for future demand. A newscrandum summaring profile propertiess for the floate 24 bigsies can be found at 2001.
		N/A	54	Study options for signings to direct appropriate traffic, i.e., local, boat, iii of iii and waking falling areas, under the Nesses finishe	Debit - Po Suite		5		180	190	180-	IN PRODUCTS	This will be addressed as part of the Minos Conovaly project. Occurrentation of agoing will be available when serio final place are completed and the public will have the opportunity to comment. See A-2 above the a lots to project information.
		46/4	56	Evaluate one-way service roads at part of the Minos Conservy flood grade separation project	DeDCT - PD South				36			COMPLETE	Service routs are now just of the project. Project information can be found at found at https://www.deldot.gov/information/projects/SESMnos/onwarylin- des.store/
		N/A	69	Dudy the facilitity of extending the excitious of extending of Notice 24 to Line Creek	Debit +P south				555		1+1	COMMISSION	The current project, design of which is searing completion, exceeds the four-laine less too 34 24 to a point sent of Searine Molifle School, Walening to Oreal Sens (one firings) have in each direction plot a center with durin large will extend to the Jave Creek bridge.
		14/1	10	Study the feasibility of endering or adding through lanes on Plantation fload flows flowle 24 to Ceder Drove fload and Protol Lane	OwlDOT - FD South/Manning		1	٠	555		111	, ne impogenza	Coordinate with 6-2 and 6-3.
		*	34	Require new developments to plus for interconnections to any fluture development areas and monitor to ensure proplementation.	Success Coursey	100m0	*		N/A	N/A	N/A	Priority incommunitation for 2019	Addressed in the Country's congrehensive plan and currently required for commercial properties, implementation for recolerated developments will be considered.
		٧	16	Consider modifications to said development requirements and for the Development Coordination Manual that require additional fulfacy further, for all new developments for flusive modificacy processes.	Susses County	De007	1		NA.	NA	NA.	Priority recommendation for 2029	Addressed in the County's 2018 comprehensive plan update; more unit is reached.
		Y	4	Drudy the head-fits and enterpeted effectiveness of modifying signage, starting in Milliod, to encourage through drives (by points outside the floute 1) provide between larens and Deway Search) to one floute 133, floute 3, floute 23, est.	DelDOT - Freffic	Private partner(s) such as Mane	5		ss			Promity incommendation for 2029	Additional signs will be installed as southbound \$8 t. north of thompsonville food to identify municipal destinations and distances. Installation is planned for 2018.
		Y	91	Improve advance approximation process to plane DelDOT to more quickly acquire land rended for transportation improvements and acquire assistate land within the fine Paretti Shalf Area (e.g., Credited Consepts)	General Assembly	DHDOT	\$		NA	S(A	N/A	COMPLETE	New advance acquisition regulations were appropriate to 2018. Now projective purchases will be feasible.
		Y	68	Study the Resididly of converting the Arby's dineway between Route 1 and Sassman Road into a publish econodite road.	DeDOT-Flavory	DelDOT - Real Estate; property benefit	1		55		4	Procesy recommendation for Joseph	
		Y	34	proxyporate more equivable, bikeable, mixed-use town prodest into the comprehensive plan	Susses County		\$		NX.	N/X	N/A	Lingertern	





78 recommendations

Recommendations to be implemented under current DelDOT projects or initiatives (7 recommendations)

Implement policies and procedures to make the area more efficient, sustainable and beautiful (8 priorities out of 27 recommendations)

Make the most of existing roadway infrastructure (8 priorities out of 20 recommendations)

Make walking, bicycling, and transit more viable as alternatives to driving (5 priorities out of 15 recommendations)

Invest in new infrastructure to support anticipated growth (3 priorities out of 9 recommendations)





Previous status (as of July 2020)

42 of 78 recommendations in progress, ongoing, or completed

- 7 of 7 in Category A to be addressed by current DelDOT projects or initiatives
- 12 of 27 in Category B policies and procedures
- 13 of 20 in Category C make the most of existing infrastructure
- 7 of 15 in Category D bicycle, pedestrian, transit
- 3 of 9 in Category E major infrastructure improvements





Current status (as of October 2020) 19

43 of 78 recommendations in progress, ongoing, or completed

- Another of the recommendations to be initiated in 2020 is now in progress
- 2 of 5 recommendations to be initiated in 2020 remain to be initiated in 2020





Category A

being addressed by current DelDOT projects and initiatives

Number of recommendations by status

Status	Jul 2020	Oct 2020	Change
COMPLETE	5	5	-
IN PROGRESS	2	2	-
Total A	7	7	_





Category B Policies and procedures

Number of recommendations by status

	Jul	Oct	
Status	2020	2020	Change
COMPLETE	4	4	-
ONGOING	3	3	-
IN PROGRESS	4	5	-
Priority for 2019	2	2	-
Initiate in 2020	2	1	-
Longer-term	12	12	-
Total B	27	27	-





- B-3 Study the feasibility and anticipated effectiveness of modifying signage, starting in Milford, to encourage through drivers (to points outside the Route 1 corridor between Lewes and Dewey Beach) to use Route 113, Route 5, Route 23, etc.
 - DelDOT has been testing display of (automated) travel time information on various variable message signs approaching the beach area (including information north of the SR 1 and US 113 split).
 - Electronic sign travel time display was tested in August and September and will begin regular operation in November.
 - This information is also available on the DelDOT app.





- B-7 Continue TID studies both east and west of Route 1
 - At its October 27 meeting, Sussex County Council will consider approval of the Henlopen TID agreement





- B-21 Study frequency and causes of emergency vehicle preemption and make recommendations to balance emergency vehicle access with traveler mobility
 - New signal controllers that will enhance recovery from preemption were deployed along the corridor.
 - The vendor is working on firmware updates to take advantage of this feature.
 - More in tonight's Traffic/ITS presentation.





Category C

Make the most of existing roadway infrastructure

Number of recommendations by status

Status	Jul 2020	Oct 2020	Change	
COMPLETE	4	4	-	
ONGOING	1	1	-	
IN PROGRESS	7	8	+1	
Initiate in 2020	2	1	-1	
Longer-term	6	6	-	
Total C	20	20	-	





- C-1 Conduct a corridor study on Route 9 to determine the feasibility of widening to four lanes
 - Was considered by Henlopen TID study, with limits from Ward Avenue to just west of Old Vine Boulevard.
 - A DelDOT planning study is underway.
 - A project is programmed in the FY 21 26 CTP.
 - Design is scheduled to start in FY 2022.





- C-3 Initiate a capital project to improve the intersection of Old Landing and Warrington Road (developer funding and concept are available)
 - A project is programmed in the FY 21 26 CTP.
 - Design is scheduled to start in FY 2025.





- C-5 Improve the intersection of Cave Neck Road, Sweet Briar Road, and Hudson Road
 - A project is programmed in the FY 21 26 CTP.
 - Design is scheduled to start in FY 2025.
 - This schedule may be accelerated through FAST (Funding Accelerating Safety in Transportation), for which approval is pending.





- C-6 Study the feasibility of lengthening leftand right-turn lanes throughout the study area
 - Now IN PROGRESS.
 - DelDOT Traffic is evaluating locations suggested by Five Points Working Group members at the January 27, 2020 meeting.





- C-19 Study the feasibility of an all-way STOP at Beaver Dam Road and Kendale Road
 - Considered by Henlopen TID study, which recommended a traffic signal by 2045.
 - Selection of appropriate traffic control will need to take into account crash history and the curvature of the road.





- C-20 Study the feasibility of replacing the HAWK signal with a full signal at Holland Glade Road, potentially with a fourth leg at the outlets
 - Coordination continues with the developer.
 - Plan review is being completed by Planning's Development Coordination section.





Category D Walking, bicycling, and transit

Number of recommendations by status

Status	Jul 2020	Oct 2020	Change
COMPLETE	0	1	+1
IN PROGRESS	7	6	- 1
Initiate in 2020	1	1	-
Longer-term	7	7	-
Total D	15	15	-





- D-14 Study the feasibility of signing and/or pavement markings that will improve bicyclist comfort turning left from Dartmouth Drive onto Route 1
 - Bike box is not feasible at Dartmouth Drive.
 - Bicyclists may cross SR 1 with pedestrian signals.
 - Additional safety measures may be considered as part of the Kings Highway CTP project, which includes this intersection.
 - D-14 is now COMPLETE.





- D-15 Study opportunities for pedestrian crossings on Kings Highway and Freeman Highway.
 - Rectangular Rapid Flashing Beacons (RRFBs) are now operating at the trail crossing of Freeman Highway near Cape Henlopen Drive.





Category E New infrastructure

Number of recommendations by status

Status	Jul 2020	Oct 2020	Change	
COMPLETE	0	0	-	
IN PROGRESS	3	3	_	
Longer-term	6	6	_	
Total E	9	9	_	





Category E progress

- E-2 Evaluate the potential transportation benefits, costs, and impacts of a new road parallel to Plantation Road connecting Mulberry Knoll Road to Route 9; require any new development in this area to build this road to state specifications one parcel at a time.
 - Planning study is underway as described earlier.





Phase 2 implementation plan

Next steps

- Continue work on recommendations
- Provide email progress updates in November and December
- Convene the Working Group on January 25, 2021
- Prepare annual report for 2020, to be issued in spring of 2021





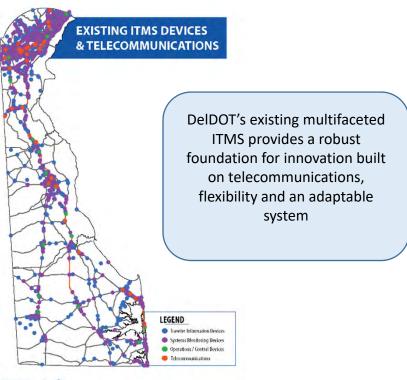


TRAFFIC/ITS PRESENTATION





DelDOT's Integrated Transportation Management System (ITMS)





M-ITMS



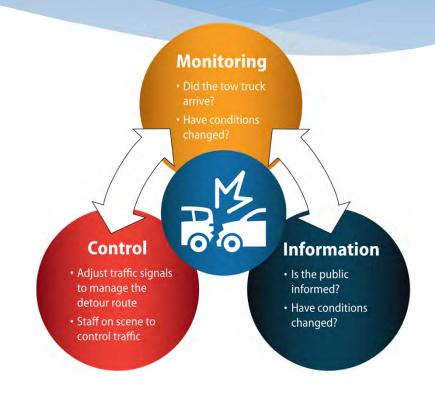
https://deldot.gov/programs/itms



DelDOT's Integrated Transportation Management System (ITMS)

Innovative ITMS

- Comprehensive monitoring system
- Integrating transit operations with highway operations
- DelDOT App and Website
- Robust fiber and wireless telecommunications network
- Real-time monitoring and control
- Statewide computerized signal system







DelDOT ITMS Strategic Plan

- 2017 update to the ITMS Strategic plan
- Addresses emerging technologies and DelDOT's existing leverage for implementation:
 - Telecommunications Network
 - Traffic Signal and Intelligent Transportation System (ITS) Device Integration into Transportation Management Center (TMC)
 - Transit Integration
 - DelDOT Mobile Application
- The next phase of ITMS will incorporate Artificial Intelligence (AI) and Machine Learning (ML)





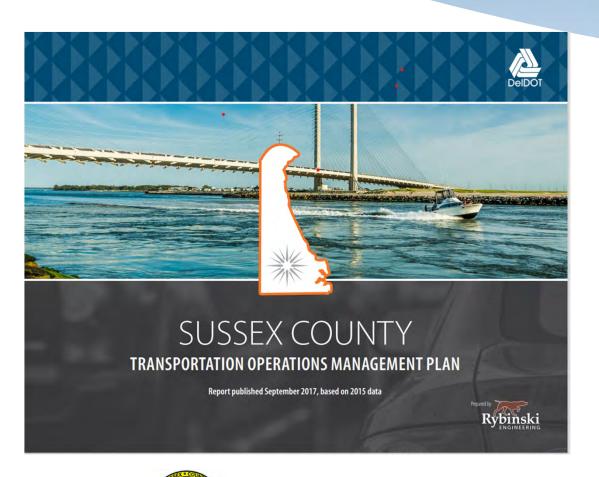


https://deldot.gov/programs/itms



Transportation Operations Management Plan

TOMP



- Developed in coordination with Division of Planning
- TOMPS developed for New Castle, Kent and Sussex
- TOMPs will now be done on a three year rotation
 - Kent December, 2020
 - New Castle 2022
 - Sussex 2023

https://deldot.gov/Publications/reports/ITMS/pdfs/ITMS-Sussex-County-TOMP.pdf





Transportation Management Center¹³ TMC



- TMC first envisioned in 1997 ITMS Strategic Plan
- Single point of contact for statewide transportation management and operations
- 24/7/365 operation coordinates and manages DelDOT 's response to incidents and events impacting the state's multimodal transportation system.



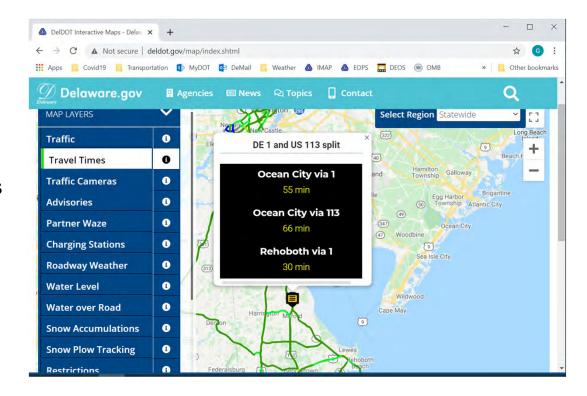






Travel Times

- Travel Times
 - Links
 - Destinations
- Bluetooth/Wi-Fi technology
- Available
 - DelDOT APP
 - DelDOT Interactive Map (web)
 - Electronic Message Signs
 - Sign control software in process of being upgraded
 - Tested late summer
 - WTMC 1380 AM/98.5 FM (Delay information in season for beach routes)
 - Available on DelDOT App and Web







ITMS - Statewide Computerized Signal System ¹ the core of DelDOT's ITMS Program

Statewide Computerized Signal System

- Operated from 24 Hour Transportation Management Center (TMC) near Smyrna, DE
- As of January 2020 all of the approximately 1000 DelDOT maintained signals on system
- Three types of traffic signal operation
 - Isolated intersection

 Fully actuated
 - Coordinated Groups (Zones) –
 Semi-actuated operation
 - Manual operation

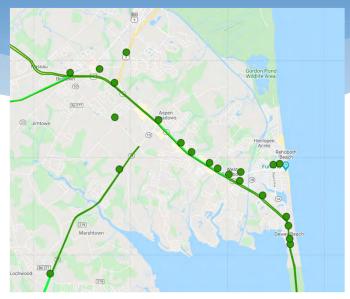






ITMS – Statewide Computerized Signal System⁴⁶

- Coordinated Groups (Zones) Semi-actuated operation
 - Cycle Length Total time from main street (DE1) red to red
 - Offset (Coordination between signals referenced to central computer clock)
 - Splits- (Percentage of cycle length allocated to each signalized movement (signal phase), includes G/Y/R
 - Time of Day Signal timing patterns are selected by time of day
 - Traffic Responsive Signal timing patterns are automatically selected by vehicle demand
 - "System" detectors located on far side of intersection provide volume/delay information to central computer.
- Manual operation incidents, construction, events TMC can adjust real time zone and intersection signal timing parameters



System Detector Locations



6'x6' inductance loop detector each lane





ITMS - Statewide Computerized Signal System 47

Statewide Computerized Signal System

DE1 Lewes-Rehoboth, Dewey Beach Zones

Sussex Zone 20 – DE1 US9 to Bay Vista Rd.
Traffic responsive
Cycle lengths 90, 120, 150, 165
Inbound (southbound), balanced, outbound
(northbound)

Sussex Zone 19 - DE1 Spring Lake Dr. to Collins St.

Traffic responsive Cycle lengths 90, 120, 150, 165 Inbound (southbound), balanced, outbound (northbound)







ITMS - Statewide Computerized Signal System⁴⁸

Signal Operation/Timing Impacts

Demand vs Capacity – when demand exceeds capacity there will be delay

- Signal timings do not add capacity
- Number of signalized movements (Phases)
- Once a signalized intersection is over capacity, you are assigning percentage of delay to each movement
- Increasing the cycle length does not add capacity
- Above 120 to 150 second cycle lengths become less efficient because of the increasing gaps between vehicles



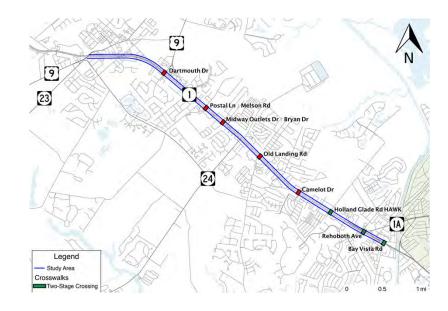




ITMS - Statewide Computerized Signal System⁴⁹

Signal Operation/Timing Impacts

- Pedestrian Signal Timings
 - Width of DE1 (in the Lewes to Rehoboth section, combined with narrow medians require 47 seconds (7 sec. W + 40 DW)
- Pedestrian impact on intersection level of service during peak periods.
 - DE 1 @ Camelot Dr:
 - LOS D w/o peds (minor delay)
 - LOS F with peds (one or > cycle delay) Equivalent to 20 veh/lane/cycle



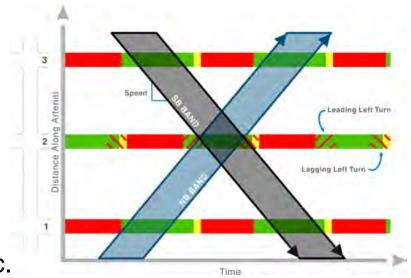




ITMS – Statewide Computerized Signal System®

Signal Operation/Timing Impacts

- Signal Coordination
 - "Early greens", watch main street "Reds"
 - Intersection spacing impacts coordination
 - Directional pattern in operation, i.e. Inbound (southbound) pattern favors southbound progression, etc.
- Emergency Vehicle Signal Pre-emption



Traffic Signal Time Space Diagram





AI - ITMS the next phase

AI-ITMS Artificial Intelligence-enhanced ITMS Objectives

- Create and maintain an enhanced ITMS that will predict traffic anomalies and adapt management and operations in real-time for current and predicted traffic conditions.
- Adopt and deploy Al and ML technologies to automate multimodal system tasks (e.g. data collection, analysis, decision support, and solution evaluation processes)
- Monitor all components of DelDOT's ITMS and optimize performance to improve safety, mobility, sustainability, economic vitality, and air quality
- Prepare DelDOT's TMC to integrate emerging transportation technologies more efficiently and effectively





AI – ITMS the next phase

AI-ITMS Deployment

Implementation will occur over a duration of three years in three project areas.

The project team is led by the **DelDOT Division of Transportation Solutions**,
supported by:

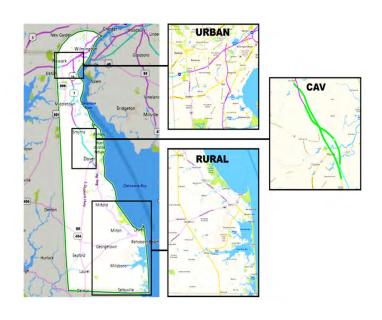
Jacobs Engineering – Program

Management Consultant

Intelligent Automation, Inc. (IAI) – Technical

Consultants

University of Delaware – supporting program evaluation by monitoring and reporting on project and program benefits







Thank You - Questions?





Automated Shuttles





Public comment





Thank you for your participation!

Next meeting

Monday, January 25, 2021
6:00 pm

Location TBD

Jenn Cinelli-Miller
Project Planner
Delaware Department of Transportation
jennifer.cinelli@delaware.gov
302.760.2549







Meeting Minutes

Phase 2 Working Group Meeting #5

July 27, 2020, 6:00 pm Online

Members present:

I.G. Burton
Robert Fischer
Scott Green
DJ Hughes
Carole Kohr
Todd Lawson
Sen. Ernesto B. Lopez
Lloyd Schmitz
Rep. Peter Schwartzkopf
Kim Hoey Stevenson
Josh Thomas
Ann Marie Townshend
Gail Van Gilder

Members absent:
Greg Christmas
Dennis Forney
Rev. Wendell B. Hall
Christian Hudson
Doug Hudson
Rep. Steve Smyk
Helen Truitt

This was a virtual meeting on DelDOT's WebEx platform. The meeting began with a quorum of 13 Working Group members present.

Andrew Bing welcomed everyone and provided information to the public on how to use the online chat function to make comments or ask questions. He noted that the public would have the opportunity to comment at the end of the meeting.

Andrew went over the agenda and summarized the contents of the meeting packet that was emailed to the members of the Working Group prior to the meeting. The minutes of the January 27, 2020 Working Group meeting were approved unanimously.



Ann Marie Townshend informed the group that Lewes had a municipal election and two new City Council members would be sworn in on August 7.

Gail Van Gilder commented that while the Five Points effort is very well coordinated, in her opinion the coordination for New Road and Kings Highway master plans needs improvement.

Virtual Open House

Jeff Riegner summarized public feedback from the Virtual Open House, which was held to describe progress made in 2019 on implementation of study recommendations. Six drop-in sessions were held at various dates and times between May 18 and June 6 to maximize opportunities for the public to attend. 75 people attended. Polls conducted during the sessions revealed:

- 80% of poll respondents agreed the Five Points Transportation Study process is informative
- 53% of respondents are pleased with the progress of implementation in 2019
- The majority of respondents liked the online open house format, either in conjunction with or instead of in-person meetings.

Implementation Plan Status

Jeff described the implementation plan status and progress that has been made since the April 27, 2020 update that is posted on the study website.

Two recommendations to be initiated in 2020 are now in progress:

- B-25 Identify the costs and benefits of dedicating Nassau Commons Boulevard to public use
- C-12 Study access management opportunities along Route 1 in the study area, including potential connections between businesses

Two recommendations are now Complete:

 C-8 – Study the feasibility of restriping two-lane sections of Savannah Road with a two-way left turn lane. The DelDOT study is complete. The Byway Committee is investigating moving forward with a Savannah Road master plan that will consider whether a two-way left turn lane should be provided.



• C-9 – Evaluate potential short-term safety and operational improvements at Route 9, Plantation Road and Beaver Dam Road while longer-term improvements are under development. Signing and striping improvements were completed in spring of 2020.

The progress of implementation since April 2020 is described in detail in the presentation slides and on the implementation plan status spreadsheet. This information is in the Working Group meeting packet, which is available to the public on the Five Points website at 5points.deldot.gov. A video of the presentation is also available on the Five Points website.

Working Group Comments and Questions

For some of the recommendations, Working Group members raised questions or provided comments as described below.

B-9 - Study enhancing New Road per the Byway Master Plan There was extended discussion of B-9. The New Road Corridor Master Plan was endorsed by the Lewes Mayor and City Council, The Byway Committee is being transitioned to a citizen-led committee with representation from the City. Carole Kohr asked how the Master Plan is used by DelDOT during design. She was also interested in Old Orchard Road, which does not have a master plan. Jeff Riegner responded that the New Road Corridor Master Plan was initiated by the Byway Committee and developed in conjunction with DelDOT. The Byway Committee has not initiated a master plan for Old Orchard Road or Clay Road.

Whenever a DelDOT project is along a road with a master plan, that plan is consulted from the beginning of design. New Road has not yet entered the design phase. DelDOT's Old Orchard Road/Wescoats Road project has been in design for awhile. Although that project area doesn't have a master plan, the project goes through a standard review process with Planning input and public participation.

I.G Burton asked whether there is a plan that shows all the roads on the route from New Road to Old Orchard Road to Wescoats Road to Clay Road to King's Highway. If there is not, a plan should be produced.

I.G. also asked how much traffic will increase on the route from Nassau Road via Wescoats Road to Kings Highway. Jeff responded that traffic studies presented to the City of Lewes in 2019 showed about 200 vehicles per day diverting to this route as a result of the DelDOT capital projects. However additional traffic would be added from new developments. Anne Marie said even though the impact from the DelDOT projects may be low, people that live in the area are concerned about



overall traffic increase. DJ Hughes expressed his opinion that the traffic studies underestimate the traffic volume that will use the New Road underpass of Route 1 after the Minos Conaway grade separated intersection project is completed.

DJ noted that the current plans for Clay Road do not have shoulders all the way to Kings Highway, and he believes shoulders should be added.

Gail mentioned there is a recent traffic study for private development in the area of Kings Highway and Gills Neck Road that shows the volume of traffic that must be planned for.

Bob Fischer said the plan for vehicles must coordinate with the shared use pathways for bicycles, for example the trail crossing of Old Orchard Road.

C-20 - Study the feasibility of replacing the HAWK signal with a full signal at Holland Glade Road, potentially with a fourth leg at the outlets. Rep. Schwartzkopf said access from the outlets needs to be able to make a left turn to go north on Route 1, and it should be a 4-way intersection. Marc Coté, DelDOT's Director of Planning, said DelDOT is working with the developers on a plan for a 4-way intersection that will allow left turns from southbound Route 1 into Holland Glade Road as well as left turns out of Holland Glade Road and out of the outlets. This will reduce the need for U-turns and help the Shuttle Road intersection. DJ agreed this will be a significant safety and operational improvement.

D-11 Study the feasibility of providing context-sensitive bus shelters at bus stops is now in progress.

DTC has a statewide standard for bus shelter design. 13 shelters have been installed and DTC continues to look for opportunities to install more shelters at high demand stops. Rep. Schwartzkopf said he would be willing to fund a few shelters through the Community Transportation Fund. DTC can contact him or his assistant Eric Hastings.

Regarding potential transit service to Henlopen State Park, Gail commented that jitney service makes more sense than a fixed route extension into the Park. But in either case, the Park has a standard not only how many cars it can take, but how many people it can handle. Planning for bus service needs to coordinate with the Park so buses don't bring in more people than the Park can handle.



Presentation on DelDOT's Bicycle Program

John Fiori, DelDOT's Bicycle Coordinator, provided a presentation that covered the many aspects of DelDOT's bicycle program. John has been with DelDOT for 31 years and has been the Bicycle Coordinator since 2015. Presentation topics included:

- Bicycle-friendly accomplishments
- What DelDOT has done to support bicycling and to improve infrastructure and safety
- Trail crossings at roadways
- Bicycle safety countermeasures
- Delaware bicycle laws
- Connections from developments to trails

After the presentation, Working Group members provided comments.

Gail said the trail crossing of Freeman Highway is not safe. Traffic moves at high speeds and bicyclists often don't stop. Blinking lights or something more is needed. John responded that this section of road is owned by DRBA. DRBA had the flashing lights removed and is currently monitoring the crossing with cameras.

Kim Hoey Stevenson commented that the trail map does not show parking locations for trail users. People show up and park on residential streets. Parking locations should be added to the trail map. John said DelDOT tries to update the map every year, and parking locations can be added in the next update.

There was much discussion about trail crossing safety. I.G commented that at any crossing there is confusion over whether the motorist or the bicyclist has to yield. This is a serious safety issue, especially where the speed limit is 45 mph. Bob said a bicyclist is not required to stop if the crossing is a 2-lane road. John Fiori clarified that bikes can yield at a Stop sign if the coast is clear.

John noted all DelDOT's efforts toward educating trail users, e.g. signing improvements, education for summer student workers, bike safety checkpoints, handing out brochures during summer season. However, there are new users all the time (recreational tourists) who are not familiar with the rules.

Several Working Group members believe the law is confusing. There is a need to funnel bicyclists into a stop or slow down mode at crossings.

Rep. Schwartzkopf said the Delaware Yield Law applies to public roadways and doesn't refer specifically to trails. Law enforcement agencies have different



opinions. The Delaware Yield Law expires October 5, 2021. The law should be left to expire.

A second safety concern is the speed of some bikes and complaints from concerned pedestrians about close calls. DelDOT tries to get the word out that the trails are for all users and "spandex riders" need to slow down when near other users. There has been one head-on bike/bike crash due to an unsafe passing maneuver.

John described the process for getting commercial and residential development connections to the trail. During design of a new trail section, DelDOT will design and construct the connection within the state right of way, and the developer will then construct to the state right of way. New developments along existing trails may be required to extend a connection to the trail. Any connection made by a homeowner without DelDOT approval can be removed. The main concern is that unauthorized connections could block the carefully designed drainage. At this time, DelDOT is not removing these connections unless they are causing a problem.

At Cool Spring Road, the current plan for the Lewes - Georgetown Trail crossing of Route 9 is to keep the trail on the north side of Route 9 to the intersection of Hudson and Fisher Roads, cross at the traffic signal, go along the Dollar General Store property and then back to the rail line. The only alternative would be a grade separated crossing. I.G. said the Sussex Land Trust has partnered with others to do a feasibility study of a possible overhead pedestrian crossing.

The video recording of the meeting on the Five Points website includes the full bicycle presentation.

Jeff summarized the next steps in the Working Group process:

- Updates on the implementation plan will continue.
- The next meeting will be held October 26, 2020. It is yet to be determined whether this meeting will be in person or online.
- Email progress updates will be sent in August and September.
- An annual report of progress made in 2020 will be issued in spring 2021.

Andrew invited public comment.

Public comments

 Kathleen Baker commented that the new bicycle facilities have drawn many added bicyclists from the neighborhood. She has also observed



many new bicyclists including "athletic" bicyclists. She said the trails should be a place for all, and educational materials on how to behave on the trails should be aimed at all the different user groups. Regarding a possible overpass at Cool Spring Road, she said that would be a great place for an art project, creating something beautiful as well as useful.

• An unidentified caller asked for an update on the Plantation Road project. Shanté Hastings answered this question. Plantation Road is broken into two phases. Phase 1 goes from Route 9 to Robinsonville Road. Phase 1 is in design, and is scheduled to start construction in 2022. Phase 2 goes from Robinsonville Road to Route 24. DelDOT is currently evaluating different alternatives, such as two lanes with added turn lanes, four lanes, different options for shoulders and bike facilities. DelDOT will be evaluating costs, utility impacts and right of way impacts of widening for the different options. When the evaluation is complete DelDOT will be presenting this information to the public.

Andrew adjourned the meeting at 8:06 pm.

Public attendance online

Registration was not required, so the number of attendees is not available. Attendees' names were not recorded unless they provided a comment during the public comments period.





List of upcoming meetings

Phase 2 Working Group

Meeting #7

January 25, 2021, 6:00 pm Location to be determined

Meeting #8

April 26, 2021, 6:00 pm Location to be determined

Meeting #9

July 26, 2021, 6:00 pm Location to be determined

Meeting dates, times, locations, and agendas are subject to change.

See the Delaware Public Meeting Calendar at publicmeetings.delaware.gov for official meeting notices.





Updated October 26, 2020 (red text indicates changes since previous update)

\$\$\$\$\$ > \$200M

Category	ID	Priority	Old idea no.	Working Group recommendation	Assumed lead agency	Other responsible parties (if any)	Study cost	Study timeframe	Imp.	Imp. timeframe	Imp.	Status	Remarks
A. Recom	nmendat	ions to be	implemen	ted under current DelDOT projects or init	iatives								
Α	1	N/A	25	Review the need for grade separating or restricting crossings between Frederica and Lewes before eliminating signals in this area	DelDOT - Traffic		\$	*	N/A	N/A	N/A	COMPLETE	Studies have been completed, with results presented to the Working Group in October 2019. DelDOT is proceeding with a program of grade separations and crossover improvements.
A	2	N/A	42	Evaluate Tulip Drive connection to Route 1 as part of the Minos Conaway Road grade separation project	DelDOT - PD South		\$	*	\$\$	* *	٥٥	COMPLETE	Tulip Drive connection is now part of the Minos Conaway project.
A	3	N/A	53	Study the feasibility of increasing the proposed Route 24 bypass of Millsboro from one lane in each direction to two lanes in each direction	DelDOT - PD South		\$\$	**	\$\$\$\$	**	⋄⋄⋄	COMPLETE	This effort was completed as part of the US 113 Millsboro-South Area Supplemental DEIS. A two-lane bypass was found to be adequate for future demand.
A	4	N/A	54	Study options for signage to direct appropriate traffic, i.e. local, boat, U of D and walking/biking areas, under the Nassau Bridge	DelDOT - PD South		\$	*	TBD	TBD	TBD	IN PROGRESS	This will be addressed as part of the Minos Conaway project. Documentation of signing will be available when semi-final plans are completed and the public will have the opportunity to comment. Coordinate with recommendation B-24.
А	5	N/A	55	Evaluate one-way service roads as part of the Minos Conaway Road grade separation project	DelDOT - PD South		\$	*	\$\$	**	٥٥		Service roads are now part of the project; they are two-way to provide better mobility. Please see the project page for additional information. A ramp from northbound Route 1 to the east service road in the vicinity of Meineke is under consideration to serve local traffic.
A	6	N/A	82	Study the feasibility of extending the eastbound widening of Route 24 to Love Creek	DelDOT - PD South		\$	*	\$\$\$	* *	**	COMPLETE	The current project, design of which is nearing completion, extends the four-lane section on SR 24 to a point west of Beacon Middle School. Widening to three lanes (one through lane in each direction plus a center left-turn lane) will extend to the Love Creek bridge. The Henlopen TID study anticipates that widening of the bridge will be needed by 2040.
A	7	N/A	83	Study the feasibility of widening or adding through lanes on Plantation Road from Route 24 to Cedar Grove Road and Postal Lane	DelDOT - PD South/Planning		\$	*	\$\$\$	* *	⋄⋄⋄	IN PROGRESS	The Henlopen TID effort is studying widening of Plantation Road and an extension of Mulberry Knoll Road. See recommendations E-2 and E-3.
B. Impler	ment pol	icies and p	orocedures	to make the area more efficient, sustain	able, and beautiful								
В	1	Y	34	Require new developments to plan for interconnections to any future development areas and monitor to ensure implementation	Sussex County	DelDOT	\$	*	N/A	N/A	N/A	Priority recommendation for 2019	Addressed in the County's comprehensive plan and currently required for commercial properties. Implementation for residential developments will be considered.
В	2	Y	86	Consider modifications to land development requirements and/or the Development Coordination Manual that require additional buffers/setbacks for all new developments for future road expansion	Sussex County	DelDOT	\$	*	N/A	N/A	N/A	Priority recommendation for 2019	Addressed in the County's 2018 comprehensive plan update; more work is needed.

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\$\$\$\$ \$20M - \$200M \$\$\$\$\$ > \$200M

Categ	ory	ID	Priority	Old idea no.	Working Group recommendation	Assumed lead agency	Other responsible parties (if any)	Study cost	Study timeframe	Imp.	Imp. timeframe	Imp. impacts	Status	Remarks
В		3	Υ	4	Study the feasibility and anticipated effectiveness of modifying signage, starting in Milford, to encourage through drivers (to points outside the Route 1 corridor between Lewes and Dewey Beach) to use Route 113, Route 5, Route 23, etc.	DelDOT - Traffic	Private partner(s) such as Waze	\$	*	\$\$	*	\		An additional sign was installed on southbound SR 1 south of Thompsonville Road to identify municipal destinations and distances. Anticipated effectiveness of guide signs is decreasing as more and more people rely on GPS/route guidance systems. DelDOT has been testing display of (automated) travel time information on various variable message signs approaching the beach area (including information north of the SR 1 and US 113 split). Regular operation should begin in November. This information is also available on the DelDOT app.
В		4	Y	91	Improve advance acquisition process to allow DelDOT to more quickly acquire land needed for transportation improvements and acquire available land within the Five Points Study Area (e.g., Creative Concepts)	General Assembly	DelDOT	\$	* *	N/A	N/A	N/A	COMPLETE	New advance acquisition regulations were approved in 2018. Now proactive purchases will be feasible.
В		5	Υ		Study the feasibility of converting the Arby's driveway between Route 1 and Savannah Road into a publicly-accessible road	DelDOT - Planning	DelDOT - Real Estate and PD South; property owners	\$	*	\$\$	* *	◊	IN PROGRESS	DelDOT is reviewing potential options. Coordinate with B-1 and C- 12.
В		6	Y	14	Incorporate more walkable, bikeable, mixed-use town centers into the comprehensive plan	Sussex County		\$	*	N/A	N/A	N/A	Longer-term	
В		7	Υ	89	Continue TID studies both east and west of Route 1	DelDOT - Planning	Sussex County, City of Lewes	\$\$	*	TBD	TBD	TBD		At its October 27 meeting, Sussex County Council will consider approval of the Henlopen TID agreement. The Henlopen TID recomendations are related to Five Points Recommendations A-6, A-7, C-1, C-3, C-7, C-19, E-2, and E-3. Because most available land on the east side of Route 1 has already been developed or approved for development, there is limited value to a TID in this area.
В		8	Y		ISVSTAM TO AIART TRAVAIARS WHAN HARKING INTS AT	DelDOT - Planning, Traffic DTC?	DelDOT Traffic, property owners, businesses, DNREC, private partner(s)	\$\$	*	\$\$\$	* *	\	To be initiated in 2020	Coordinate with recommendation B-3.
В		9	N	69	Study enhancing New Road per Byway Master Plan	DelDOT	City of Lewes, Sussex County, Delaware Greenways	N/A	N/A	\$\$\$	**	⋄⋄⋄	IN PROGRESS	The New Road Master Plan was endorsed by the Lewes Mayor & City Council on July 13. In addition, they approved the Byway's request to transition to a citizen-led committee with representation from the City on the committee. The New Road bridge over Canary Creek is being designed in accordance with the Master Plan.
В		10	N	94	Endorse "don't block the box" legislation with camera enforcement	General Assembly	Delaware State Police, DelDOT	\$	**	\$\$	*	◊	Longer-term	

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Category	ID	Priority	Old idea no.	Working Group recommendation	Assumed lead agency	Other responsible parties (if any)	Study cost	Study timeframe	Imp.	Imp. timeframe	Imp.	Status	Remarks
В	11	N	87	Ensure cost savings from transportation projects within the study area are re-invested in projects within the study area			\$	*	N/A	N/A	N/A	Longer-term	
В	12	N	15	Study relaxed height limits as part of the comprehensive plan to increase density	Sussex County		\$	*	N/A	N/A	N/A	Longer-term	
В	13	N	95	Study alternatives to both meter and slow southbound traffic approaching Five Points	DelDOT		\$	*	TBD	TBD	TBD	COMPLETE	DelDOT has implemented speed reduction pavement markings along SR 1 southbound approaching the Nassau Bridge.
В	14	N	36	Identify locations where trees can safely be planted within the right of way	DelDOT		\$	*	\$\$	* *	◊	Longer-term	
В	15	N	17	Identify all locations in the study area with poor drainage and make recommendations for potential inclusion in the Capital Transportation Program or developer requirements	DelDOT	Sussex County	\$	*	\$\$\$	***	⋄ ⋄	Longer-term	
В	16	N	16	Increase the importance of considering noise and lighting impacts of major transportation project recommendations per regulations	DelDOT		\$	*	N/A	N/A	N/A	ONGOING	
В	17	N	56	Evaluate the use of land made available by narrowing lanes for landscape and multi-modal trails or parks	DelDOT		\$	*	\$\$	* *	◊	Longer-term	
В	18	N	26	Study potential locations and designs for aesthetically pleasing gateways to coastal Sussex County	Sussex County	DelDOT, City of Lewes, Byway Committee	\$	*	\$\$	* *	◊	Longer-term	
В	19	N	75	Study the feasibility of mounting clear, consistent, day/night address/block numbering signage along Route 1	DelDOT	Sussex County Tourism	\$	*	\$\$	*	◊	Longer-term	
В	20	N	80	Consider whether CTP funding should be allocated based on population growth	DelDOT	Council on Transportation	\$	* *	N/A	N/A	N/A	Longer-term	
В	21	N	7	Study frequency and causes of emergency vehicle preemption and make recommendations to balance emergency vehicle access with traveler mobility	DelDOT	Emergency service providers	\$	*	\$\$	*	◊	ONGOING	Minimizing the impact of pre-emption is an ongoing effort. New signal controllers that will enhance recovery from preemption were deployed along the corridor. The vendor is working on firmware updates to take advantage of this feature.
В	22	N	2	Require bike parking as a condition of certain new developments	Sussex County		\$	*	N/A	N/A	N/A	ONGOING	Discussions with developers occur as plans are submitted. Bike parking recommendations are made for some site plans.
В	23	N	35	Use an app to warn people of congestion on Route 1 and recommend alternative routes	DelDOT		\$	*	N/A	N/A	N/A	COMPLETE	DelDOT app is in place and continually being updated.
В	24	N	49	Improve tourism-oriented destination signage along Route 1	Sussex County Tourism	DelDOT	\$	*	\$	*	◊	IN PROGRESS	Sussex County Tourism is taking the lead on this effort in conjunction with municipalities. Coordinate with recommendation A-4.
В	25	N	28	Identify the costs and benefits of dedicating Nassau Commons Boulevard to public use	DelDOT	Sussex County, property owner	\$	*	\$\$	**	٥٥	IN PROGRESS	DelDOT is working with the developer of the Vineyards to upgrade the portion of the Boulevard adjacent to Route 9 and add turn lanes. Part of the Boulevard will be dedicated to public use as part of this project.

\$ < \$200K \$\$ \$200K - \$2M \$\$\$ \$2M - \$20M

\$\$\$\$ \$20M - \$200M

\$\$\$\$ > \$200M

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	\$\$\$\$\$ > \$200M												
Category	ID	Priority	Old idea no.	Working Group recommendation	Assumed lead agency	Other responsible parties (if any)	Study cost	Study timeframe	Imp. cost	Imp. timeframe	Imp. impacts	Status	Remarks
В	26	N	21	Bring in nationally recognized planners and engineers to provide new, creative ideas that draw from examples in other parts of the country	DelDOT	Sussex County	\$	*	N/A	N/A	N/A	Longer-term	
В	27	N	9	Develop a better process for constituents to request transportation improvements	DelDOT	General Assembly, Sussex County, Council on Transportation	\$	*	N/A	N/A	N/A	Longer-term	
C. Make	the mos	t of existir	ng roadway	infrastructure									
С	1	Υ	20	Conduct a corridor study on Route 9 to determine the feasibility of widening to four lanes	DelDOT - Planning		\$\$	**	\$\$\$\$	***	000	IN PROGRESS	Being considered by Henlopen TID study, with limits from Ward Avenue to just west of Old Vine Boulevard. A DelDOT planning study is underway for this effort. A project is programmed in the FY 21 - 26 CTP. Design is scheduled to start in FY 2022.
с	2	Υ	72	Conduct a study at Route 9 and Minos Conaway Road to determine if a traffic signal is warranted and install a signal if warranted			\$	*	\$\$	*	◊	COMPLETE	Study is complete, recommending installation of a southbound right-turn lane on Minos Conaway Road and keeping stop sign control. A project is proposed in the FY 21 - 26 CTP. It has been approved by the COT, and DelDOT will be seeking federal approval of the FY 21 – FY 26 CTP in September 2020.
с	3	Υ	64	Initiate a capital project to improve the intersection of Old Landing and Warrington Road (developer funding and concept are available)	DelDOT - PD South		N/A	N/A	\$\$\$	* *	٥٥	IN PROGRESS	A project is programmed in the FY 21 - 26 CTP. Design is scheduled to start in FY 2025.
С	4	Υ	11	Improve the Canary Creek bridge on New Road to reduce flooding	DelDOT - Bridge		N/A	N/A	\$\$\$	* *	⋄⋄⋄	IN PROGRESS	A project has been initiated under DelDOT's Bridges/State of Good Repair budget. Construction cannot begin until after the Old Orchard Road/Savannah Road intersection project is complete, in order to maintain adequate traffic circulation.
С	5	Υ	92	Improve the intersection of Cave Neck Road, Sweet Briar Road, and Hudson Road	DelDOT - PD South		\$	*	\$\$\$	* *	⋄ ⋄	IN PROGRESS	A project is programmed in the FY 21 - 26 CTP. Design is scheduled to start in FY 2025. This schedule may be accelerated through FAST (Funding Accelerating Safety in Transportation), for which approval is pending.
С	6	Υ	102	Study the feasibility of lengthening left- and right-turn lanes throughout the study area	DelDOT - Traffic		\$	*	\$\$\$\$	* * *	⋄⋄⋄	IN PROGRESS	DelDOT Traffic is evaluating locations suggested by Five Points Working Group members at the January 27, 2020 meeting.
С	7	Υ	104	Study the feasibility of improving Minos Conaway Road with appropriate lane widths, shoulder widths, turn lanes, curvature, etc.	DelDOT - Planning/Traffic		\$	*	\$\$\$	* * *	⋄⋄⋄	IN PROGRESS	A curve compliance study completed in February 2019 and signage improvements were implemented in March 2019. A preliminary concept is being considered as part of the Henlopen TID study.
с	8	Υ		Study the feasibility of restriping two-lane sections of Savannah Road with a two-way left-turn lane	DelDOT - Traffic		\$	*	\$\$	* *	◊	COMPLETE	DelDOT's assessment is complete. Providing a two-way left-turn lane is potentially feasible, but there are pros and cons to this idea. Implementation would likely involve more than striping. The Byway Committee is investigating moving forward with a master plan for Savannah Road that will consider whether a two-way left-turn lane should be provided.

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* <3 years \$ < \$200K \$\$ \$200K - \$2M \$\$\$ \$2M - \$20M

\$\$\$\$ \$20M - \$200M \$\$\$\$ > \$200M

Category	ID	Priority	Old idea	Working Group recommendation	Assumed lead agency	Other responsible parties (if any)	Study	Study timeframe	Imp.	Imp. timeframe	Imp.	Status	Remarks
С	9	γ*	73	Evaluate potential short-term safety and operational improvements at Route 9, Plantation Road, and Beaver Dam Road while longer-term improvements are under development	DelDOT Traffic/PD South		\$	*	\$	*	◊	COMPLETE	Signing and striping was implemented in spring of 2020 to better organize and direct westbound Route 9 traffic flow. Potential direct access to Lowe's from Route 1 may reduce traffic at this location.
С	10	γ*	32	Continue to improve traffic signal phasing, timing and coordination using real time monitoring and control technologies	DelDOT - Traffic		\$	*	\$	*	◊	ONGOING	This is a core function of DelDOT Traffic, and is done on an ongoing basis. Pre-emption improvements are in progress; see recommendation B-21.
С	11	N	68	Develop concepts and estimates for bringing roads in the study area to DelDOT standard, including shoulders	DelDOT		\$\$	* *	\$\$\$\$\$	* * *	⋄⋄⋄	Longer-term	Sussex County recently introduced an ordinance to upgrade standards for new roads as they are built.
С	12	N	98	Study access management opportunities along Route 1 in the study area, including potential connections between businesses	DelDOT	Sussex County	\$	*	\$\$\$	* *	⋄⋄⋄	IN PROGRESS	Consideration of direct access to Lowe's from Route 1 may be considered in the short term. Sussex County is actively pursuing interconnectivity in all commercial projects along Route 1.
С	13	N	22	Study the feasibility of eliminating unsignalized crossovers on Route 1	DelDOT		\$	*	\$\$	* *	◊	Longer-term	This recommendation refers to crossovers between Five Points and Route 24.
С	14	N	51	Study the feasibility of installing a "YOUR SPEED" display on southbound Route 1 at Nassau Road	General Assembly	DelDOT	\$	*	\$	*	◊	Longer-term	
С	15	N	38	Study the feasibility of lengthening the southbound acceleration lane on Route 1 at Minos Conaway Road	DelDOT		\$	*	\$\$	*	◊	COMPLETE	Construction was completed in spring 2020.
С	16	N	84	Study the feasibility of providing driveway access from Beacon Middle School and Love Creek Elementary School onto Mulberry Knoll Road	DelDOT	Sussex County, Cape Henlopen School District	\$	*	\$\$\$	* *	٥٥	Longer-term	
С	17	N	27	Conduct capacity analyses at study area intersections to identify the need for turn lanes	DelDOT		\$\$	*	\$\$\$\$	* *	٥٥	Longer-term	
С	18	N	60	Improve lane markings and signs at identified intersections: Five Points, Dartmouth Drive/Kings Highway, Plantation Road/Beaver Dam Road	DelDOT		\$	*	\$	*	◊	Longer-term	Immediate maintenance concerns are being addressed now.
С	19	N	78	Study the feasibility of an all-way STOP at Beaver Dam Road and Kendale Road	DelDOT		\$	*	\$	*	⋄	IN PROGRESS	Considered by Henlopen TID study, which recommended a traffic signal by 2045. Selection of appropriate traffic control will need to take into account crash history and the curvature of the road.
С	20	N	48	Study the feasibility of replacing the HAWK signal with a full signal at Holland Glade Road, potentially with a fourth leg at the outlets	DelDOT - Development Coordination		\$	*	\$\$	*	⋄	IN PROGRESS	In conjunction with proposed development of Coastal Station on the west side of Route 1 at Holland Glade Road, the HAWK signal will be removed. Coordination is underway to determine which turning movements will be provided at the intersection. Plan review is being completed by Planning's Development Coordination section.

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*

<3 years
3-10 years

♦ Low ♦♦ Medium

\$\$ \$200K - \$2M \$\$\$ \$2M - \$20M \$\$\$\$ \$20M - \$200M

\$ < \$200K

* * * >10 years

♦♦♦ High

\$\$\$\$\$ > \$200M

Other responsible Study Study Imp. Imp. Imp. Category Priority Working Group recommendation Assumed lead agency Status Remarks parties (if any) cost timeframe cost timeframe impacts D. Make walking, bicycling, and transit more viable as alternatives to driving Study the feasibility of a hop-on, hop-off van or Primary lead would be the municipality. DTC's role would be jitney service loop for Lewes similar to free City of Lewes, DRBA 79 DTC. DNRFC \$\$ IN PROGRESS advisory to determine feasibility, and to serve as a partner to any service in Cape May (Five Points, hospital, study effort. Lloyds Grocery Store, downtown Lewes, Library Lewes Beach, Ferry, State Park, etc.) Study the feasibility of potential connections for A new Mobility Committee is proposed under the comprehensive Sussex County (as part of DelDOT - Planning D 2 ŚŚ \$\$\$ * * * $\Diamond \Diamond$ Longer-term plan. This committee and/or the Working Group could play a role walking and bicycling between existing comprehensive plan) neighborhoods, along streets, and to trails in this effort. Develop design guidance to separate \$ 3 pedestrians and bicyclists from highway traffic DelDOT Sussex County TBD TBD TBD Longer-term using aesthetic treatments Portions will be built by current CTP projects on Old Orchard Road Develop concepts and estimates for filling all and SR 1/Minos Conaway Road, as well as by developer projects. * * Υ sidewalk gaps along New Road and Old Orchard DelDOT - Planning Ś \$\$\$ IN PROGRESS 90 $\Diamond \Diamond \Diamond$ The New Road Master Plan will identify remaining gaps on New Road Road. Portions will be built by current CTP projects on Old Orchard Road Develop concepts and estimates for filling all and on Savannah Road (between the Georgetown-Lewes Trail and sidewalk gaps along Savannah Road between DelDOT - Planning \$\$\$ $\Diamond \Diamond \Diamond$ IN PROGRESS Quaker Road). Assessment of remaining gaps is underway. To be Lewes and Five Points coordinated with C-8. The Byway Committee is investigating moving forward with a master plan for Savannah Road. Study the feasibility of pedestrian bridges over * * * γ* 52 DelDOT \$ \$\$\$ \Diamond \Diamond Longer-term D Route 1 at specific locations DTC studied the feasibility of providing traditional fixed route transit service to Milton/Red Mill Pond/Minos Conaway Road area and presented the findings to the 5 Pts. Transportation Advisory Group in January 2020 as not feasible at this time. DTC has improved service connections for transit transfers between Routes Study the feasibility of transit service to tie the 206 and 303, which make the connection from the Lewes Ν Milton/Red Mill Pond/Minos Conaway Road Ś \$\$ \Diamond IN PROGRESS Transportation Center to Milton. DTC is studying other types of area into the transit network non-traditional transit service options to this area that are better suited to operate given the economic, road geometry and environmental factors. Statewide, DTC is looking to create micro transit service delivery options in select areas, to operate as a pilot. Additionally, DTC will be applying for grants to support these proposals. Study the feasibility of a park and ride lot on DTC supports implementing a Park and Ride along SR 24. An exact Ν DTC DelDOT \$ \$\$\$ * * $\Diamond \Diamond \Diamond$ Longer-term location needs to be determined. Route 24 at the edge of the study area dentify potential connections to and from the To be initiated in DelDOT * * D 9 Ν 23 \$ \$\$ \Diamond Lewes Transit Center 2020 Study the feasibility of a barrier in the median of Route 1 to deter pedestrian crossings at \$\$\$ 10 Ν DelDOT \$ Longer-term inappropriate locations

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Category	ID	Priority	Old idea no.	Working Group recommendation	Assumed lead agency	Other responsible parties (if any)	Study cost	Study timeframe	Imp.	Imp. timeframe	Imp.	Status	Remarks
D	11	N	67	Study the feasibility of providing shelters at bus stops - Context Sensitive i.e. cottage beach style shelters	DTC		\$	*	\$\$	*	⋄	IN PROGRESS	DTC has upgraded and improved transit shelters in the Five Points study area. 13 shelters have been installed in the Rehoboth Beach/Lewes area and along the Route 1 corridor at the higher ridership locations.
D	12	N	41	Identify publicly- and privately-owned land in the study area that may be used for trails	DelDOT		\$	*	\$\$\$\$	* * *	٥٥	Longer-term	
D	13	N	1	Identify locations in the study area where bike parking can be provided	DelDOT		\$	*	\$	*	◊	Longer-term	
D	14	N	43	Study the feasibility of signing and/or pavement markings that will improve bicyclist comfort turning left from Dartmouth Drive onto Route 1	DelDOT - Traffic		\$	*	\$	*	⋄	COMPLETE	A bike box is not feasible at Dartmouth Drive. Bicyclists may cross SR 1 with pedestrian signals. Additional safety measures may be considered as part of the Kings Highway CTP project, which includes this intersection.
D	15	N	47	Study opportunities for pedestrian crossings on Kings Highway and Freeman Highway	DelDOT, DRBA		\$	*	\$\$	* *	◊	IN PROGRESS	Signs were installed in May 2018. Additional pedestrian facilities may be included with the Kings Highway CTP project as proposed by the Kings Highway/Gills Neck Road Byway Master Plan. Rectangular Rapid Flashing Beacons (RRFB) are now operating at the trail crossing of Freeman Highway near Cape Henlopen Drive.
E. Invest	Invest in new infrastructure to support anticipated growth												
E	1	Υ	66	Study the feasibility of a grade separation at Five Points	DelDOT - Planning		\$\$	**	\$\$\$\$	***	⋄⋄⋄		This effort will depend on the results of studies under A-7, E-2, and E-3. Additionally, the shorter term improvements and CTP projects will impact the scope of the study as well.
E	2	Y	70	Evaluate the potential transportation benefits, costs, and impacts of a new road parallel to Plantation Road connecting Mulberry Knoll Road to Route 9; require any new development in this area to build this road to state specifications one parcel at a time	DelDOT - Planning	Sussex County	\$\$	* *	\$\$\$\$	***	⋄⋄⋄		Idea is being considered as part of the Henlopen TID study. DelDOT has initiated a planning study for this effort. Inventory and mapping of wetlands and historic resources is underway. Opportunities for public involvement will be provided during the study process. Coordinate with A-7 and E-3.
E	3	Υ	8	Develop a plan for grid road patterns where land is available, working with property owners and developers, including a series of roads that connect Route 9, Route 23, and Route 24 between Plantation Road and Dairy Farm Road	DelDOT - Planning	Sussex County, property owners and developers	\$\$	**	\$\$\$\$	***	⋄⋄⋄	IN PROGRESS	Idea is being considered as part of the Henlopen TID study. Coordinate with A-7 and E-2.
E	4	N	29	Evaluate the potential transportation benefits, costs, and impacts of a new road connecting Route 1 north of Five Points and the Vineyards	DelDOT		\$\$	**	\$\$\$	***	٥٥٥	Longer-term	
E	5	N	44	Look at east/west traffic as a system: Minos Conaway (starting at Route 9), New, Old Orchard, and Clay Roads	DelDOT - Planning, PD South		\$\$	*	TBD	TBD	TBD	Longer-term	
E	6	N	57	Study the feasibility, benefits, costs, and impacts of potential service roads along Route 1, including whether narrowing the median would facilitate provision of service roads	DelDOT		\$\$	* *	\$\$\$\$\$	* * *	⋄⋄⋄	Longer-term	

Updated October 26, 2020 (red text indicates changes since previous update)

\$\$\$\$ \$20M - \$200M \$\$\$\$\$ > \$200M

Category	ID	Priority	Old idea no.	Working Group recommendation	Assumed lead agency	Other responsible parties (if any)	Study cost	Study timeframe	Imp. cost	Imp. timeframe	Imp. impacts	Status	Remarks
E	7	N	77	Evaluate the potential transportation benefits, costs, and impacts of a new through road connecting Postal Lane with the intersection of Old Landing Road/Airport Road	DelDOT		\$\$	**	\$\$\$	***	⋄⋄⋄	IN PROGRESS	
E	8	N	85	Evaluate the potential transportation benefits,	DelDOT		\$\$	**	\$\$\$	***	⋄⋄⋄	Longer-term	
E	9	N	30	Revisit and consider feasibility of recommendations from 2003 SR 1 Land Use and Transportation Study	DelDOT		\$\$	*	\$\$\$\$\$	***	٥٥٥	Longer-term	

FIVE POINTS TRANSPORTATION STUDY ACTIVE PROJECTS AND STUDIES IN THE AREA, OCTOBER 2020

