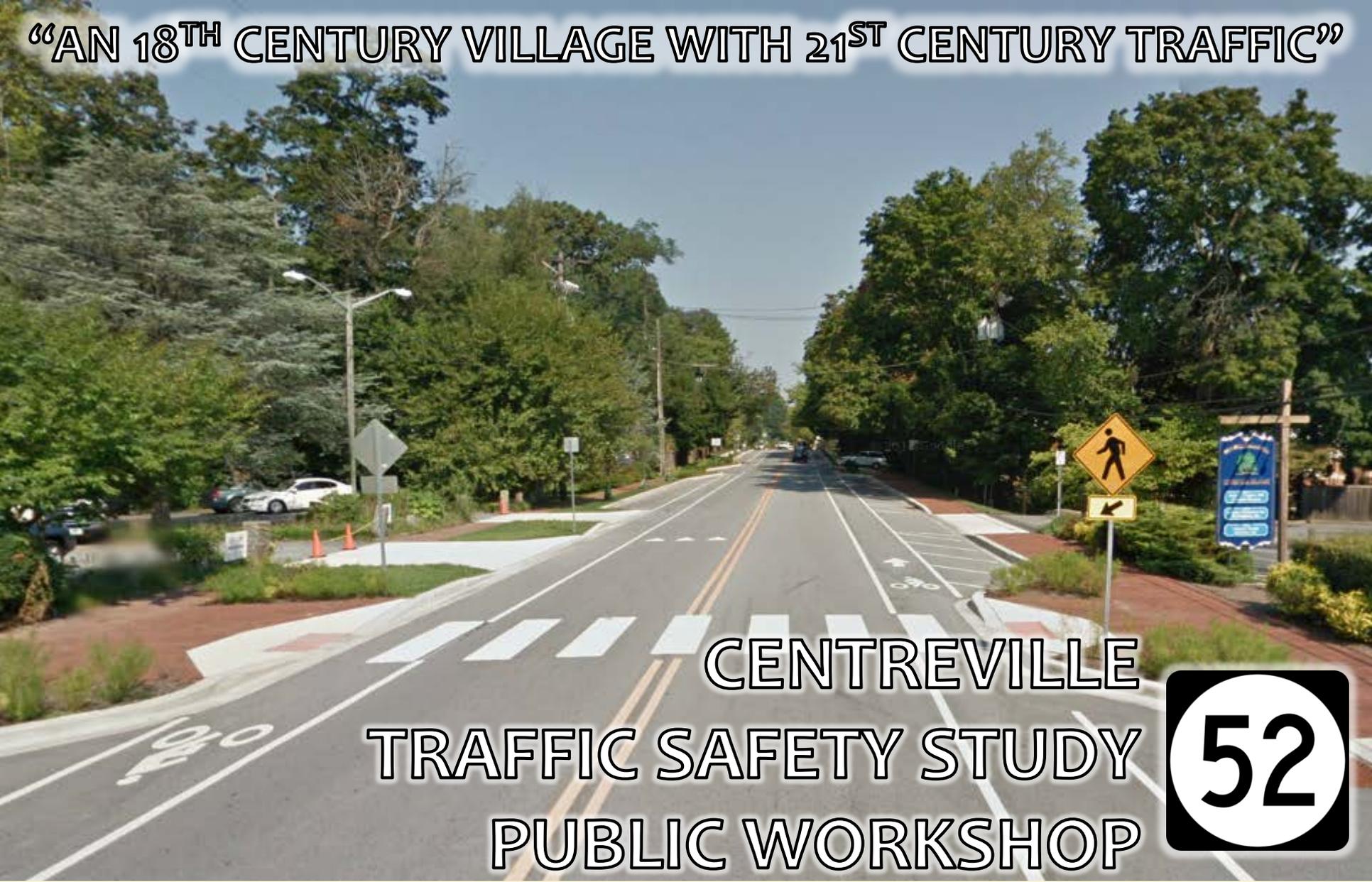


“AN 18TH CENTURY VILLAGE WITH 21ST CENTURY TRAFFIC”



CENTREVILLE
TRAFFIC SAFETY STUDY
PUBLIC WORKSHOP



Delaware Department
of Transportation

September 22, 2014
Centreville School, Centreville, Delaware

To address several safety-related issues along the Kennett Pike corridor including:

- Pedestrian safety
- Sign clutter
- Intersection sight distance and safety
- Adherence to posted speed limits upon entering the village
- Crash reduction



Photo courtesy of www.centrevillede.info

Community Concerns

- ▣ Sign Clutter
- ▣ Speeding
- ▣ Truck Traffic
- ▣ Pedestrian Safety
 - Crosswalks, Lighting
- ▣ Intersection safety issues
 - DE 52 & Twaddell Mill Rd/Owls Nest Rd

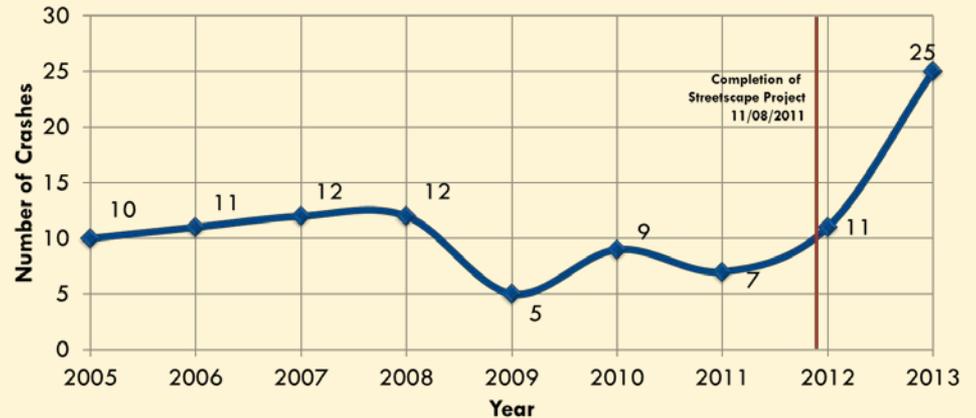




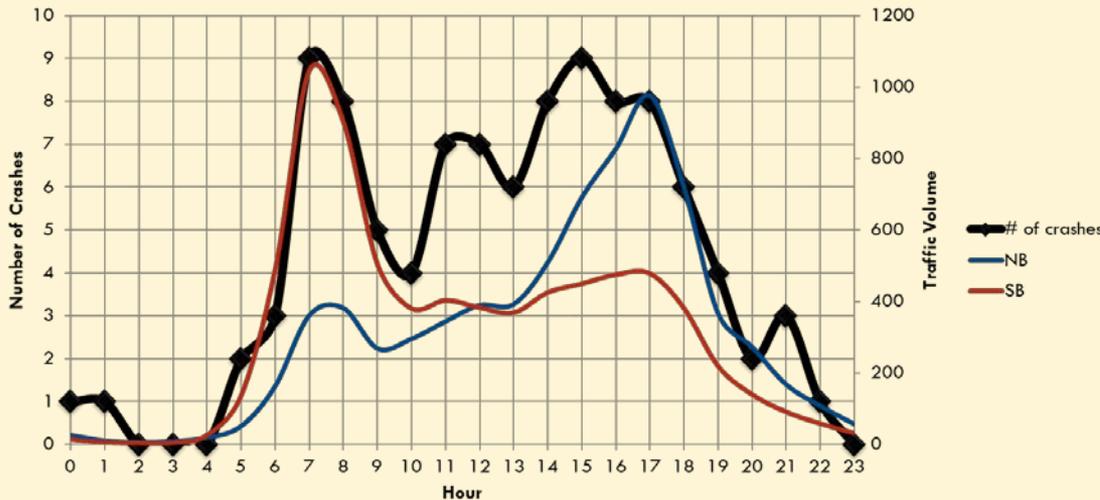
Kennett Pike Traffic Volumes and Crash Analysis

Kennett Pike traffic is made up of:
 95% Passenger Vehicles
 4% Trucks
 1% Bicycles

Annual Crashes
 Kennett Pike between Centreville gateway islands
 1/1/2005 – 12/31/2013



Crashes by Time of Day vs. Traffic Volumes
 Kennett Pike between Centreville gateway islands
 1/1/2005 – 12/31/2013

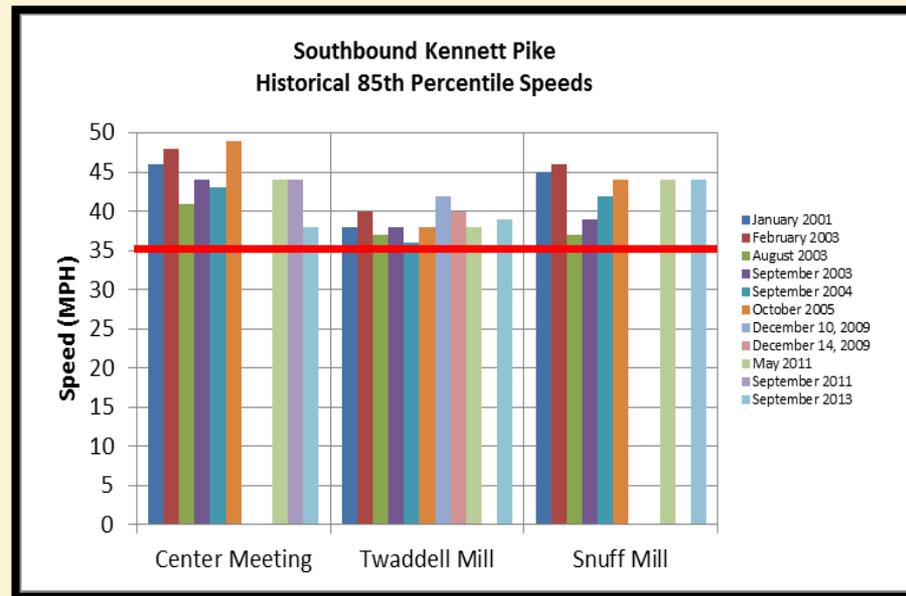
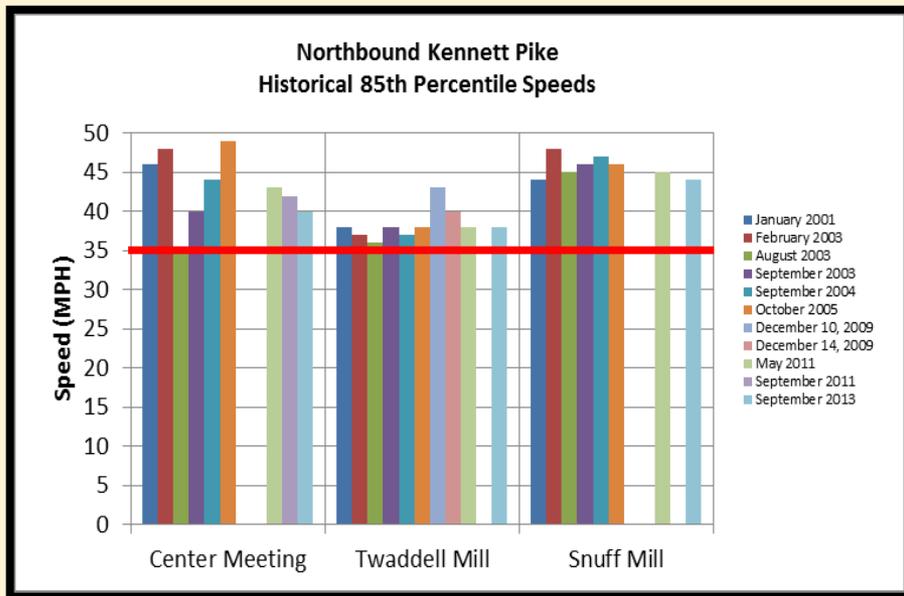


Summary	
	# of Crashes
Total Crashes	102
Fatal Crashes	1
Total Alcohol-Related Crashes	6
Total Non Alcohol-Related Crashes	96
Total Fatalities	1
Total Pedestrian Fatalities	1
Total Pedestrian Injuries	3
Total Pedestrian Crashes	2
Total Motorcycle Crashes	2
Total Pedalcyclist Crashes	0

Manner of Impact		
	# of Crashes	% of Total Crashes
Front to rear	36	35.29%
Front to front	3	2.94%
Angle	35	34.31%
Sideswipe, same direction	4	3.92%
Sideswipe, opposite direction	7	6.86%
Rear to side	1	0.98%
Rear to rear	0	0.00%
Other	1	0.98%
Unknown	0	0.00%
Not a collision between two vehicles	15	14.71%
Total	102	

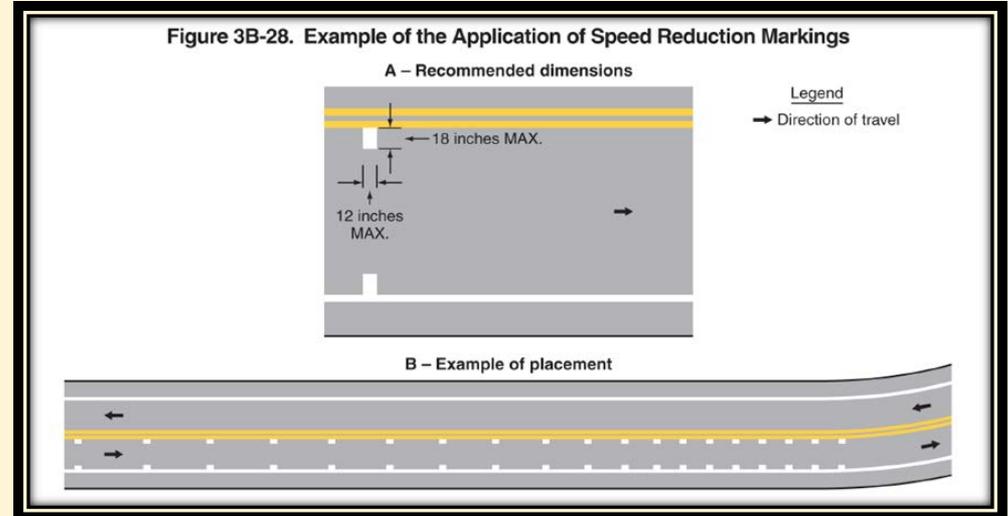
Total Crashes
 Kennett Pike between Centreville gateway islands
 1/1/2005 – 12/31/2013

- Since 2001, eleven speed studies have been performed in the same areas in and around Centreville.
- Speed data was taken during daytime, off-peak periods to capture free-flow traffic conditions.
- The most recent speed study performed in September 2013 resulted in good compliance with the 35 MPH speed limit through Centreville and fair compliance at the gateway islands.



Recommendations

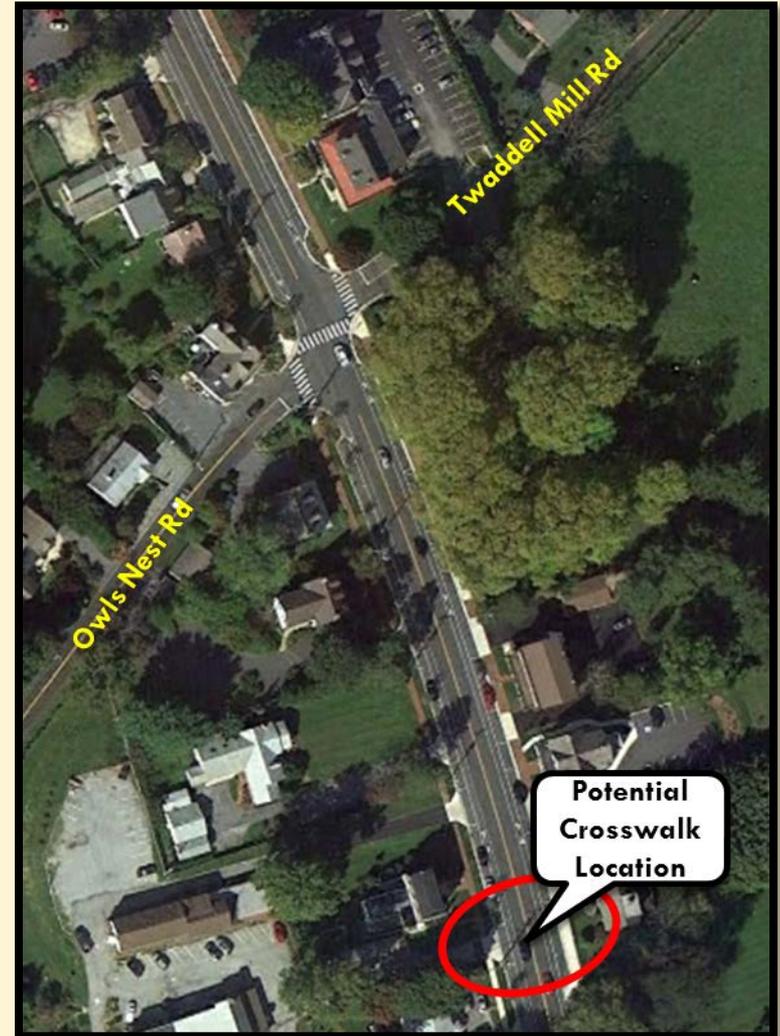
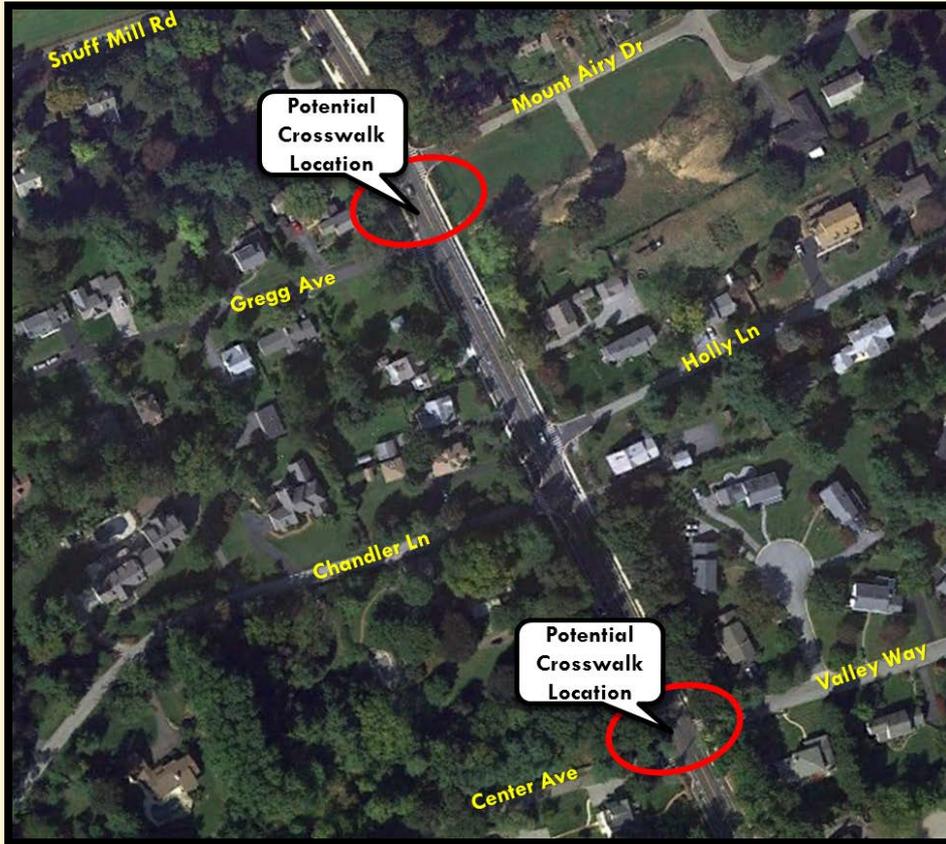
- Install a traffic signal at the intersection of Kennett Pike and Owls Nest Road/Twaddell Mill Road
 - Include pedestrian signals
 - Realign crosswalk across Kennett Pike
 - No additional turn lanes or left turn phases
 - Centreville Civic Association vote results: 64% YES / 36% NO
- Install additional crosswalks at locations with higher mid-block pedestrian activity
 - South of Owls Nest Road/Twaddell Mill Road toward southern end of sidewalk
 - At Center Avenue/Valley Way
 - At Gregg Avenue/Mount Airy Drive
 - Centreville Civic Association vote results: 67% YES / 33% NO
- Install Speed Reduction Pavement Markings on Kennett Pike at both gateway islands
 - Centreville to be pilot location in New Castle County
 - Centreville Civic Association vote results: 83% YES / 17% NO
- Remove and/or relocate signs to reduce sign clutter along Kennett Pike
 - Centreville Civic Association vote results: 95% YES / 5% NO
- Trim/remove shrubs to improve intersection sight distance at several locations
 - Owls Nest Road/Twaddell Mill Road
 - Center Avenue/Valley Way
 - Gregg Avenue



Delaware Manual on Uniform Traffic Control Devices, 2011

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Potential Crosswalk Locations

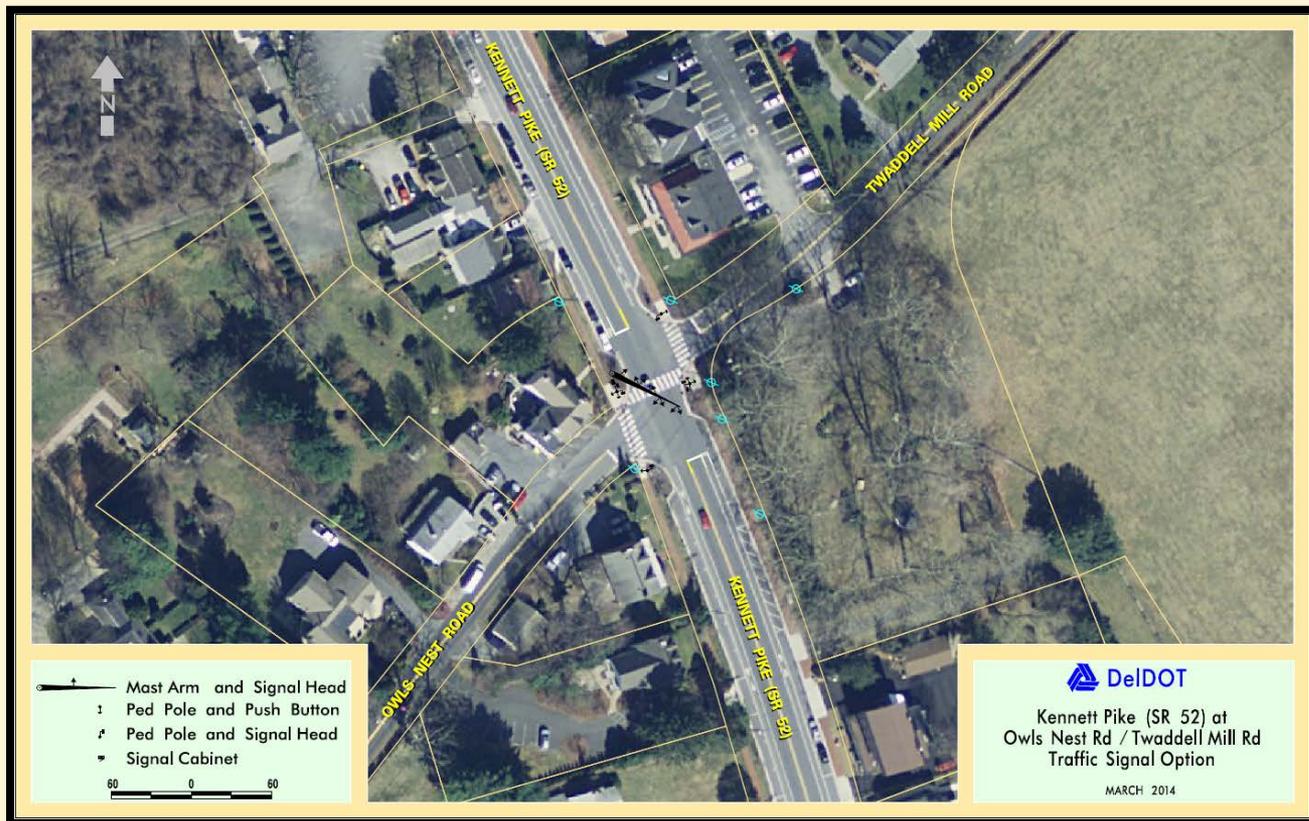


- South of Owls Nest Road/Twaddell Mill Road toward southern end of sidewalk
- At Center Avenue/Valley Way
- At Gregg Avenue/Mount Airy Drive



Potential Traffic Signal at Twaddell Mill Road/Owls Nest Road

- Signal will remain green along both directions of Kennett Pike unless “tripped” by a vehicle on either Twaddell Mill Road or Owls Nest Road.
- Due to low left turn volumes on Kennett Pike and to reduce unnecessary delay, left turn phases will not be implemented at this time.
- Pedestrian signals will be added for each crosswalk at the intersection.



Next Steps

- Install Speed Reduction Pavement Markings
- Complete sign clutter reduction modifications
- Review and respond to public workshop comments
- Discuss results of public workshop with the Centreville Traffic Working Group
- Develop improvement plans and review with Centreville Traffic Working Group
- Construction timeframe and funding sources yet to be determined

