

Delaware Department of Transportation

SR 1 Widening SR 273 to Roth Bridge Listening Tour

SR 72 Area March 19, 2013



Agenda



- Project Limits
- Reason for the Project Purpose & Need
- Environmental (NEPA) Process
- Transportation Solution Alternatives
- Improvements Specific to Your Community

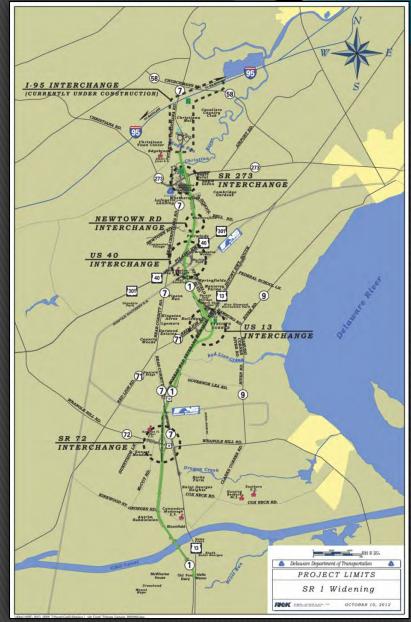




Project Limits

North of SR 273 to Roth Bridge







- Address congestion
- Improve system connectivity
- Improve local access
- Improve safety
- Ensure emergency access & evacuation















Congestion - Existing Conditions (2011)

- SR 1 Mainline Failing Condition
 - US 40 I-95 (AM)
- Interchange Failing Condition
 - Entering SR 1 from US 40 (AM)
 - Exiting SR 1 to SR 273 (AM)
 - US 13 (Tybouts) Interchange (PM)
 - Entering SR 1 from US 13 (PM)

Doodway Cogmont	Existing (2011)		
Roadway Segment	AM Peak	PM Peak	
SR 1 Northbound			
South of SR 72	D	В	
Diverge to SR 72	С	В	
Merge from SR 72	D	С	
SR 72 to US 13	D	В	
Diverge to US 13	PASS*	PASS*	
Merge from Bear-Tybouts Road	D	С	
US 13 to US 40	D	С	
Diverge to US 40	D	С	
Merge from US 40	F	D	
US 40 to SR 273	F	D	
Diverge to SR 273	F	D	
SR 1 Southbound			
Merge from SR 273	В	D	
SR 273 to US 40	В	D	
Diverge to US 40	В	E	
Merge from US 40	В	С	
US 40 to US 13	В	С	
Diverge to US 13	В	С	
Within US 13 Interchange	С	F	
Merge from US 13	PASS*	F*	
US 13 to SR 72	Α	С	
Diverge to SR 72	В	E	
Merge from SR 72	В	Е	
South of SR 72	А	С	
* Note: Major merge and major diverge segments ar	e evaluated on a pass/f	ail basis.	





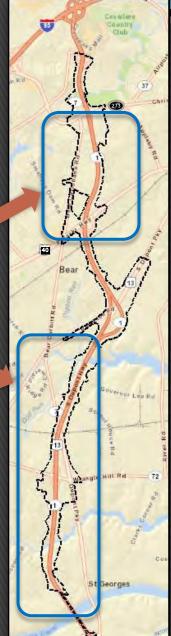
Congestion - Future Conditions (2040)

Traffic Projections

(based on WILMAPCO, NCC approved model)

Location	2011	2040	Increase
SR 1 between US 40 and SR 273	76,500	125,000	63%
SR 1 between the Roth Bridge and US 13	79,500	140,000	76%







SR 1 WIDENING SR 273 to the Roth Bridge

Congestion - Future Conditions (2040)

 The entire SR 1 corridor and every interchange entrance and exit within the study area are projected to operate at a Failing Level of Service (LOS) during rush hour.

Roadway Segment	Future (2040)				
	AM Peak	PM Peak			
SR 1 Northbound					
South of SR 72	F	С			
Diverge to SR 72	F	С			
Merge from SR 72	F	D			
SR 72 to US 13	F	D			
Diverge to US 13	F*	PASS*			
Merge from Bear-Tybouts Road	F	E			
US 13 to US 40	F	Е			
Diverge to US 40	F	E			
Merge from US 40	F	F			
US 40 to SR 273	F	F			
Diverge to SR 273	F	F			
SR 1 Southbound					
Merge from SR 273	С	F			
SR 273 to US 40	С	F			
Diverge to US 40	D	F			
Merge from US 40	С	F			
US 40 to US 13	С	F			
Diverge to US 13	С	F			
Within US 13 Interchange	F	F			
Merge from US 13	F*	F*			
US 13 to SR 72	В	F			
Diverge to SR 72	D	F			
Merge from SR 72	С	F			
South of SR 72	В	F			
* Note: Major merge and major diverge segments are evaluated on a pass/fail basis.					



Congestion - Seasonal Traffic

- SR 1, a designated beach route, serves as a primary route for summer travel
 - Summer Fridays, Saturdays and Sundays experience increased travel demand
 - Traffic volumes are 20-30% higher in July and August





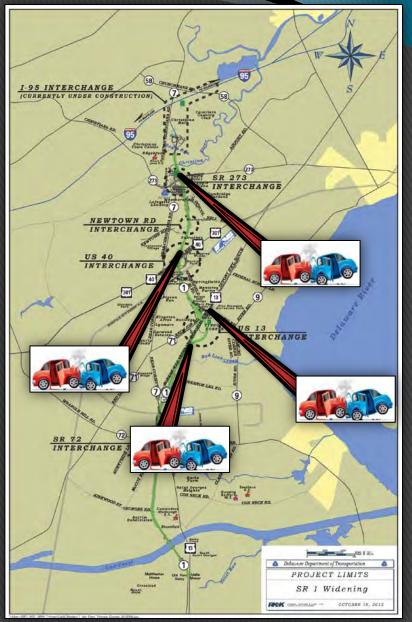




Safety - Crash History

- A total of 284 reported crashes between January 2008 and December 2010
- DelDOT has identified 4 locations with frequent accidents requiring improvements (HEP):
 - SR 273 through the SR 1 interchange
 - US 40 through the SR 1 interchange
 - Hamburg Road through the US 13 intersection
 - SR 1 northbound near the diverge to US 13







Emergency Access & Evacuation

- Fire, police and EMT emergency responders
- Christiana Hospital
- Designated evacuation route (snow emergencies, hurricanes, homeland security threats, and potential hazardous materials incidents)

















How do we begin to address these transportation problems?





Environmental (NEPA) Process



We are here



b



Develop Purpose and Need

Identify Environmental Resources: Wetlands, Historic, Parks, Communities, Forests, etc.

Develop Transportation Alternatives and Identify Impacts



NEPA Documentation and Approval

Final Design

Construction



Public Outreach Approach

- Project Website: sr1.deldot.gov
 - Under development
- **Listening Tour with Community Leaders**
 - March 2013
- Public Workshop Schedule
 - April 8, 2013 (5:00 PM 8:00 PM): Leasure Elementary School
 - April 18, 2013 (6:00 PM 9:00 PM): Wilbur Elementary School





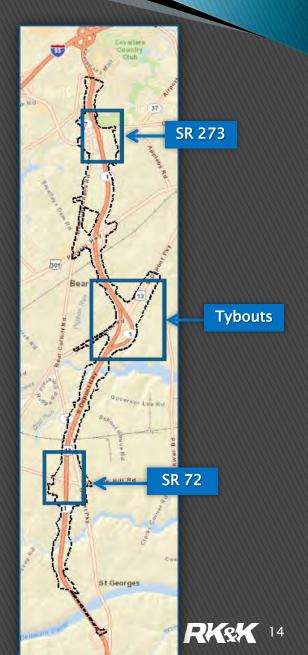


Transportation Solution Alternatives

- Proposed Solutions
 - Mainline Widening additional lane alternatives
 - Work within existing corridor
 - Meet current FHWA design requirements
 - US 40 interchange minor traffic flow improvements
 - New access from NB SR 7 to NB SR 1
 - Interchange Improvements Alternatives
 - SR 273
 - Tybouts
 - SR 72









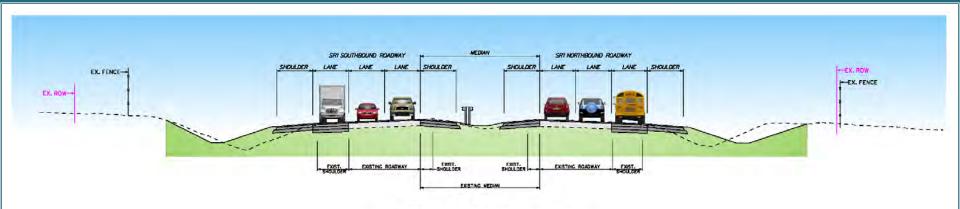
- Three Alternatives
 - Outside-Outside Widening
 - West Side Widening
 - East Side Widening



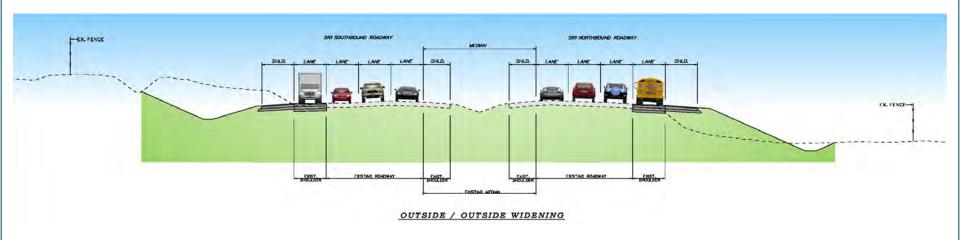




Outside-Outside Widening Alternative



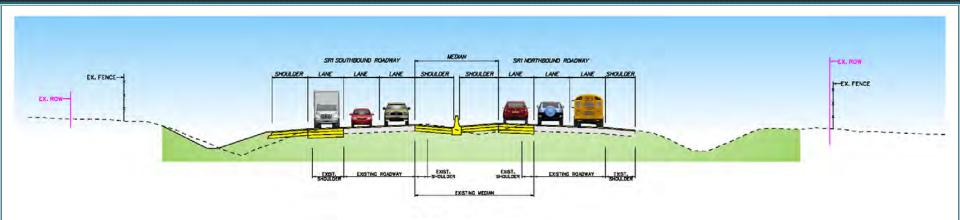
OUTSIDE / OUTSIDE WIDENING



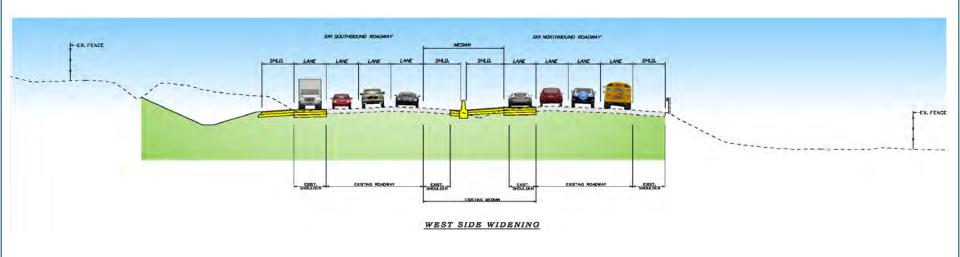




West Side Widening Alternative



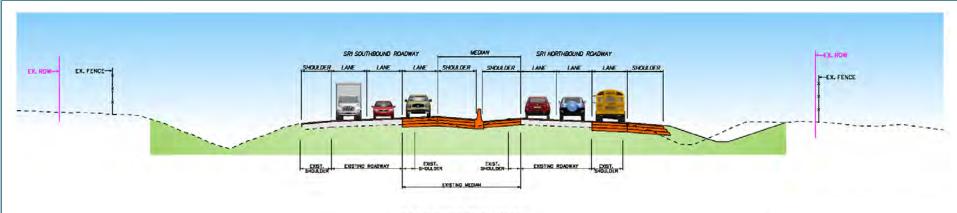
WEST SIDE WIDENING



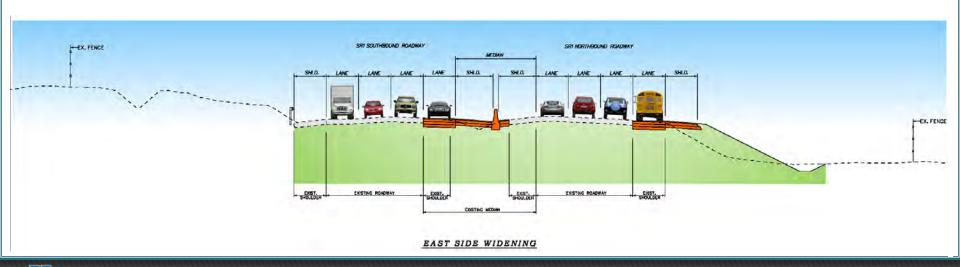




East Side Widening Alternative



EAST SIDE WIDENING



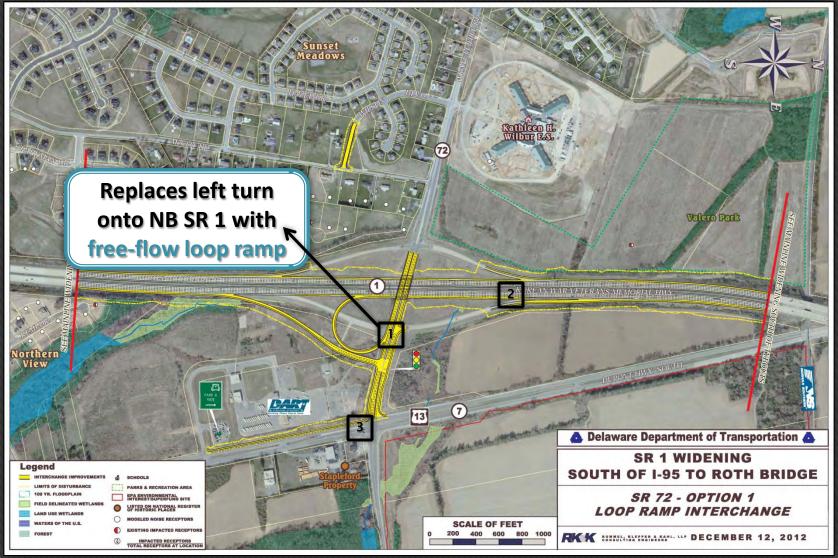




Existing Conditions









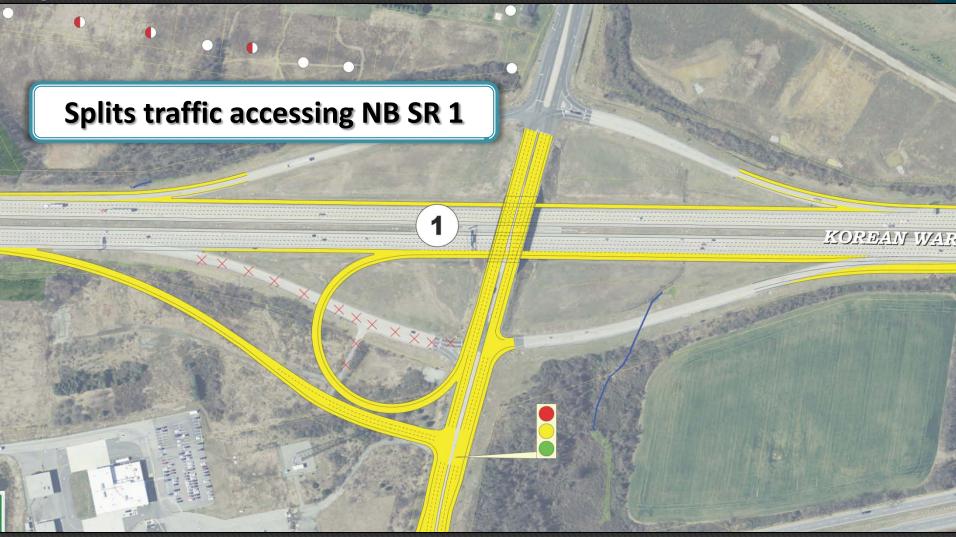




















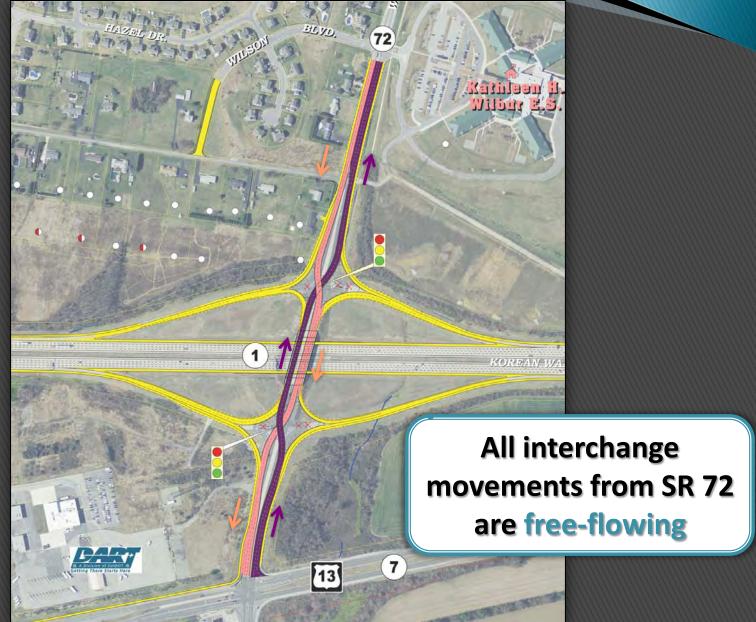




SR 1 WIDENING SR 273 to the Roth Bridge



SR 1 WIDENING
SR 273 to the Roth Bridge





Specific Community Issues



- Thank you for being part of our listening tour.
- Let's discuss your community's concerns with this project, as we prepare for the upcoming Public Workshops:
 - April 8, 2013 (5:00 PM 8:00 PM): Leasure Elementary School
 - April 18, 2013 (6:00 PM 9:00 PM): Wilbur Elementary School