

Corridor 10: US 13, from US 40 to Wilmington

Progress in Traffic Responsive Signalization (TRS) Implementation

Implementation	Progress
Timing Improvements Implemented	Timing improvements implemented; corridor still being monitored.
Traffic Monitoring Equipment Installed	✔
Signals Brought Online with TMC	✔
Signal Software Upgrades	-
Converted to Traffic Responsive System (TRS)	-

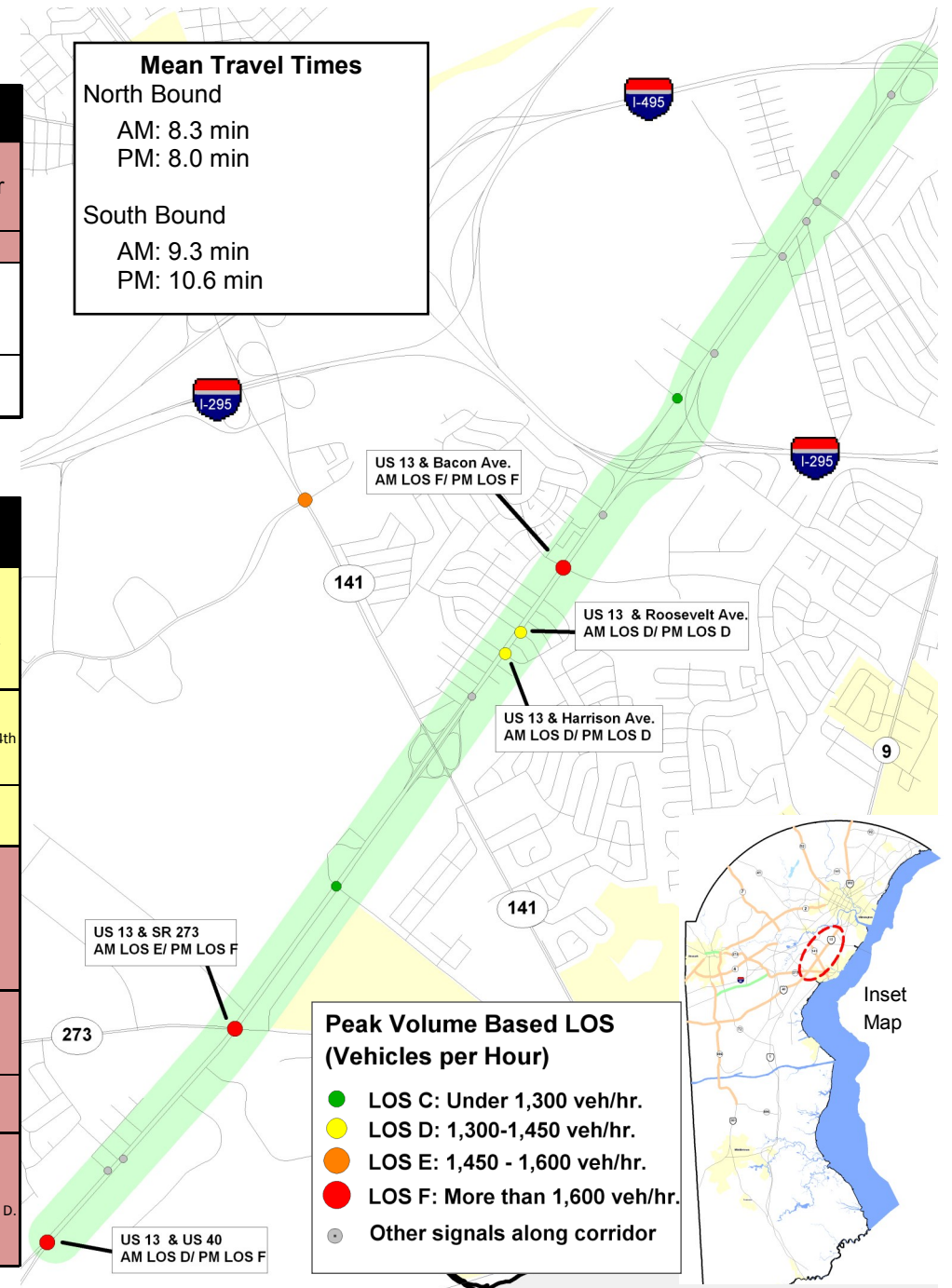
Capital Projects Along Corridor

INTERSECTION/ SEGMENT	STATUS
US 13 & US 40	No planned/programmed improvements. Intersection monitored through US 40 20-year study.
US 13 & SR 273	No planned/programmed improvements.
US 13, Tybouts Corner to Wilmington	Addition of one lane in each direction. Project is unfunded and is on the "Aspirations List" in the WILMAPCO RTP.
US 13, Memorial Dr. to US 40	Pedestrian Safety Improvements. Currently unfunded in FY 2015-2018 TIP/CTP.

Possible Improvement Options for Priority Intersections

INTERSECTION	EXISTING VOLUME LOS		DEMAND OVERAGE		IMPROVED VOLUME LOS		OPTIONS	COMMENTS
	AM	PM	AM	PM	AM	PM		
US 13 & Roosevelt Ave.			28	16	B	C	1. Provide a 4th NB through lane on US 13, and provide a 2nd WB left turn lane.	1. Need for 4th NB through lane on US 13 is generated by AM peak only, whereas need for 2nd WB left turn lane is generated by PM peak only.
US 13 & Harrison Ave.			41	76	C	B	1. Provide a 2nd NB left turn lane from US 13 to Harrison Ave. and provide a 4th SB through Lane on US 13.	1. Need for 2nd NB left turn lane on US 13 is generated by AM peak only, whereas need for 4th SB through lane is generated by PM peak only.
					D	B	2. Provide a 4th SB through lane on US 13.	
US 13 & SR 273			235	326	C	C	1. Widening on all approaches required: 3rd NB and SB left turn lanes, 3rd WB left turn lane, 3rd and 4th EB left turn lanes, and 3rd EB and WB through lane.	- Note: Consider grade separation. - Note: 5 through lanes on US 13 would go beyond standard CMS methodology.
US 13 & US 40			61	440	A	B	1. Provide a 3rd SB through lane, and provide a 3rd EB through lane.	
					C	D	2. Provide 3rd SB through lane only.	
US-13 & Bacon Ave./Boulden Blvd.			391	370	D	D	1. Provide 4 thru lanes in NB & SB direction.	1. No improvement on any minor approaches was substantial enough to reduce the LOS to a D.

Mean Travel Times
 North Bound
 AM: 8.3 min
 PM: 8.0 min
 South Bound
 AM: 9.3 min
 PM: 10.6 min



Peak Volume Based LOS (Vehicles per Hour)

- LOS C: Under 1,300 veh/hr.
- LOS D: 1,300-1,450 veh/hr.
- LOS E: 1,450 - 1,600 veh/hr.
- LOS F: More than 1,600 veh/hr.
- Other signals along corridor