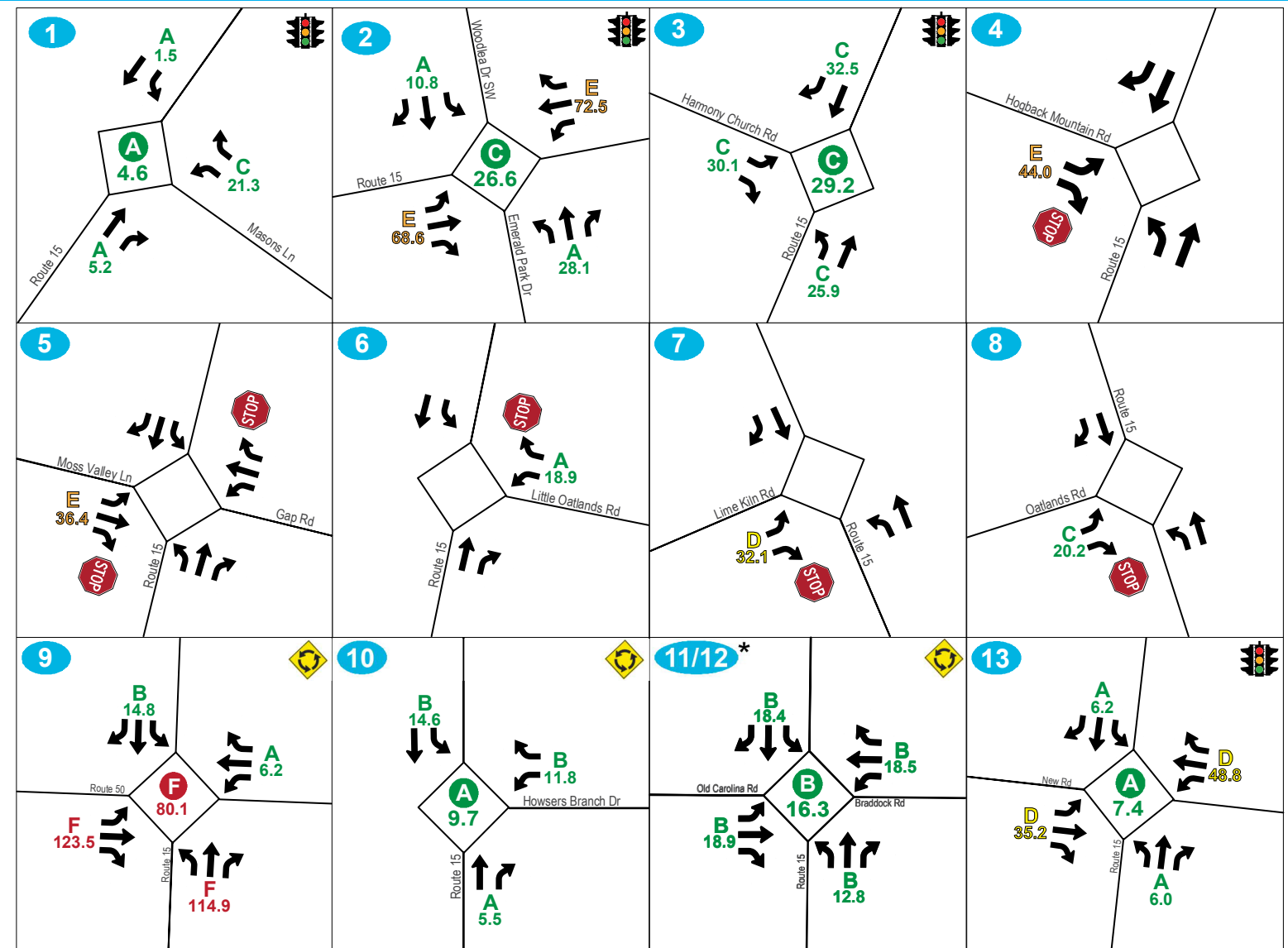
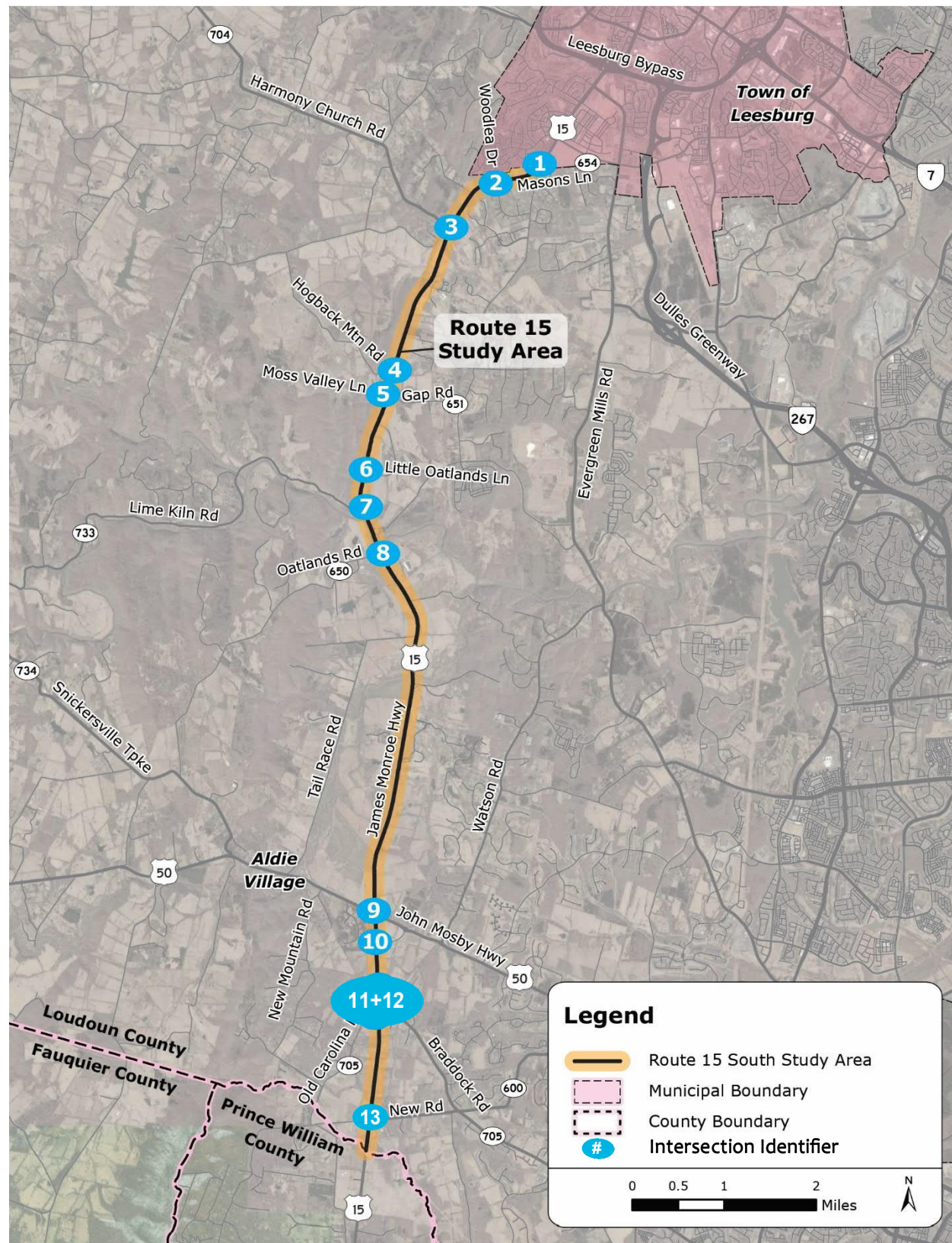


Route 15 South Safety and Operational Study



\* Assumes a 2 lane roundabout between Braddock Rd and Old Carolina Rd at Route 15.  
Synchro HCM 2000 used for Signalized Intersections.  
Synchro HCM 6th Ed used for AWSC and TWSC Intersections.  
SIDRA Roundabout LOS HCM Delay Formula used for Roundabout Intersections.

Level of Service	Control delay per vehicle in seconds (d)		
	Signals	Roundabouts	Stop and Yield Signs
A	$d \leq 10$	$d \leq 10$	$d \leq 10$
B	$10 < d \leq 20$	$10 < d \leq 20$	$10 < d \leq 15$
C	$20 < d \leq 35$	$20 < d \leq 35$	$15 < d \leq 25$
D	$35 < d \leq 55$	$35 < d \leq 50$	$25 < d \leq 35$
E	$55 < d \leq 80$	$50 < d \leq 70$	$35 < d \leq 50$
F	$80 < d$	$70 < d$	$50 < d$

**Legend**

- Permitted Movements
- Yield Controlled Approach
- Stop Controlled Approach
- Signalized Intersection
- Roundabout Intersection
- Intersection Identifier
- Approach LOS/Delay (sec)
- Intersection LOS/Delay (sec)

Level of Service (LOS)

**A B C D E F**

Future Year (2040) Build Option 2 Delay and Level of Service at Study Intersections (AM Peak).