Traffic Study

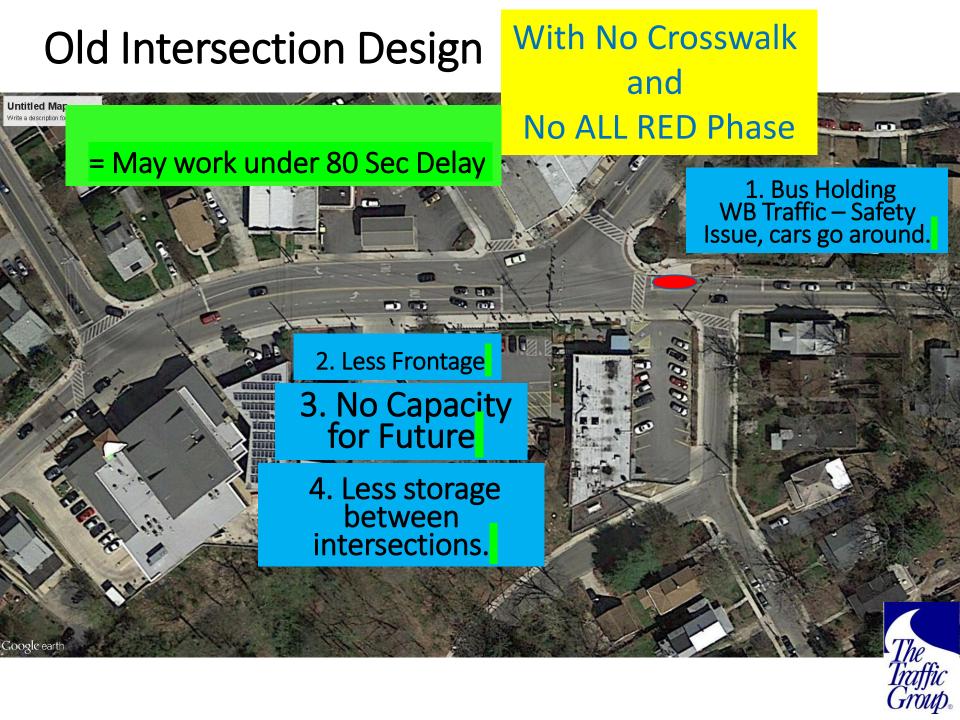
Glenn Cook Sr. VP

Paul Dorr Dir. Eng. Design



June 20th Summary

- Existing Intersection meets 80 Sec. Delay.
- Existing Intersection Fails 80 Sec. w/ Background traffic.
- Intersection must be redesigned to meet future conditions and eliminate existing operational issues.



Traffic Study

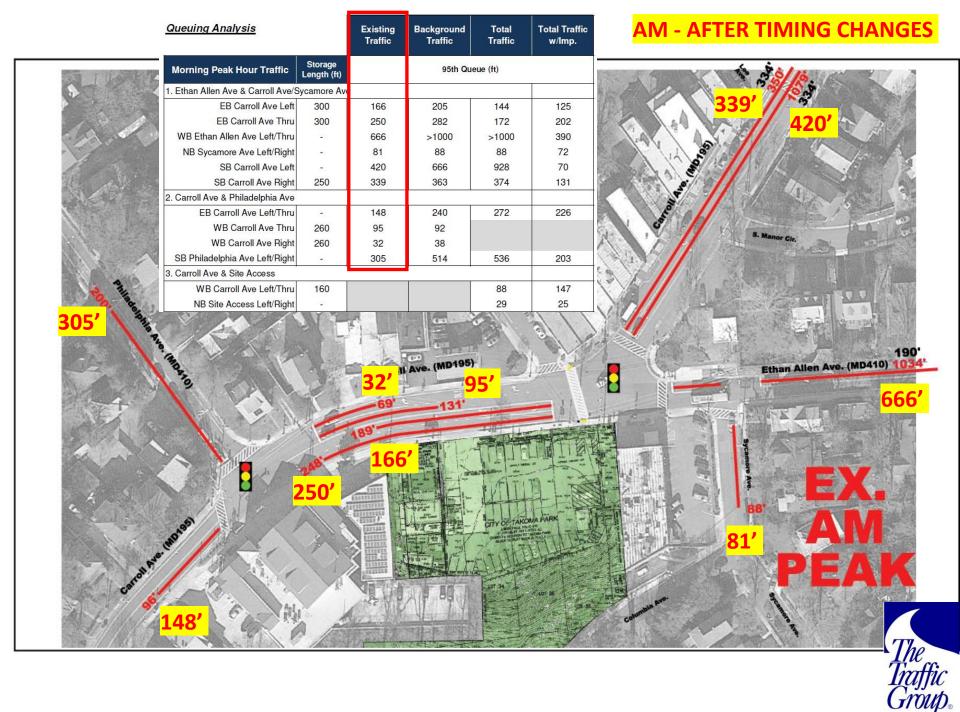
- Existing Traffic
- Background Traffic
- Total Traffic
- AM Peak = 7:30-8:30 PM Peak = 5:15-6:15
- Site Traffic
 - AM = 47 In / 12 Out
 - PM = 70 In / 94 Out
- Prepared a Model
- Study Total Traffic Improvement Options

Delay Info:

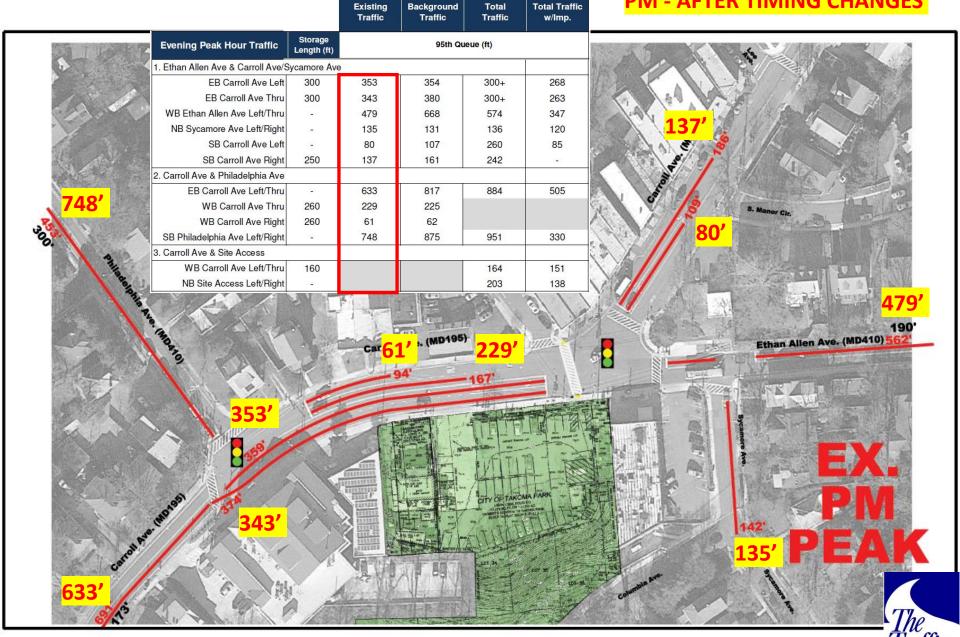
Delay - AFTER TIMING CHANGES

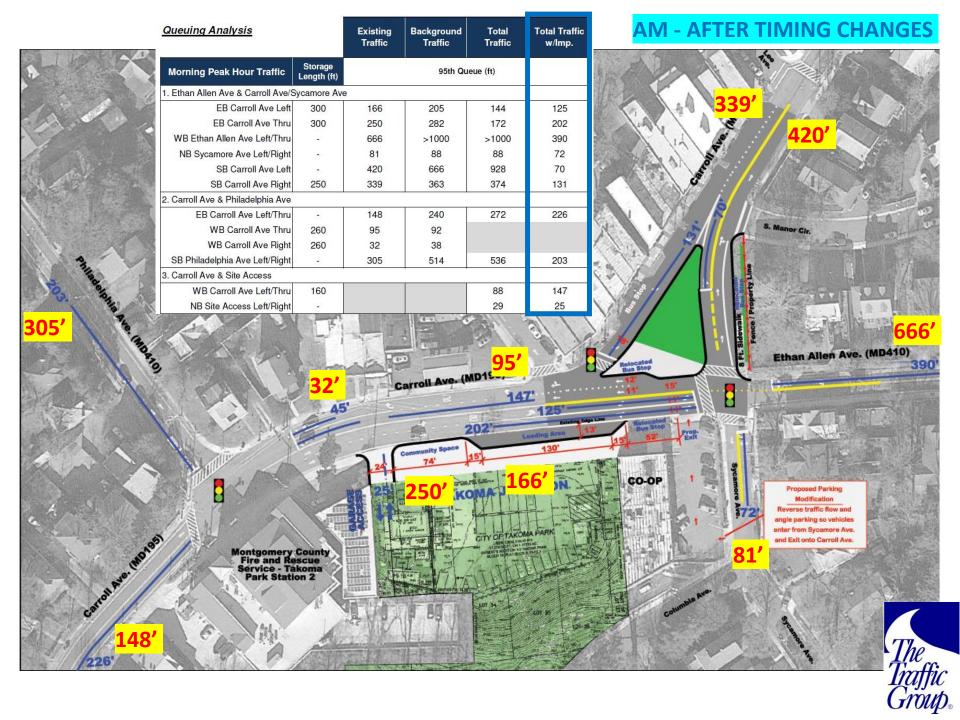
SimTraffic Simulation		Existing Traffic	Background Traffic	Total Traffic	Total Traffic w/Imp.
Morning Peak Hour Traffic	HCM Delay Standard (sec/veh)	Delay (sec/veh)	Delay (sec/veh)	Delay (sec/veh)	Delay (sec/veh)
1. Ethan Allen Ave & Carroll Ave/Grant Ave	80	68.1 65.1	89.8 99.5	93.1 104.5	14.8 21.0
1a. Ethan Allen Ave & Sycamore Ave	80	151.9	147.1	154.2	
2. Carroll Ave & Philadelphia Ave	80	9.2 17.3	-10.0 265	9.8 31.4	10.1 13.1
3. Carroll Ave & Site Access	80			1.5 3.5	1.7 _{12.2}
Evening Peak Hour Traffic					
Ethan Allen Ave & Carroll Ave/Grant Ave	80	34.3 58.6	35.1 69.7	31.2 68.0	12.8 23.3
1a. Ethan Allen Ave & Sycamore Ave	80	41.5	39.3	54.1	
2. Carroll Ave & Philadelphia Ave	80	41.1 58.2	44.8 85.3	93.3 145.5	-18.5 25.7
3. Carroll Ave & Site Access	80			21.4	3.4
Note: SimTraffic results are based on 10 simulation run	9		4	29.4	9.2

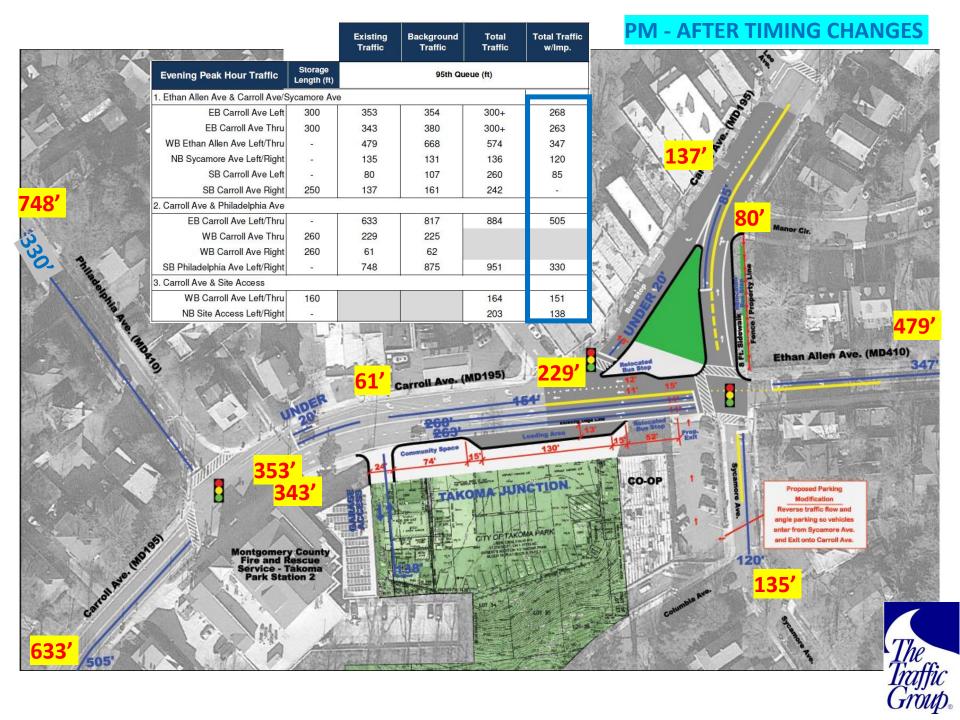
Note: SimTraffic results are based on 10 simulation runs.

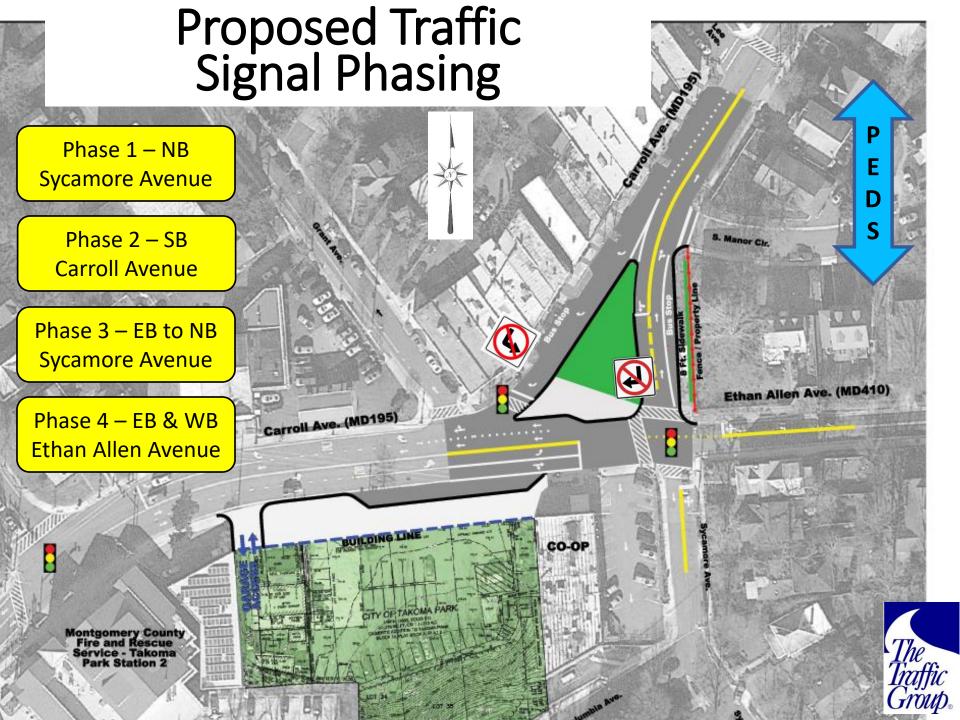


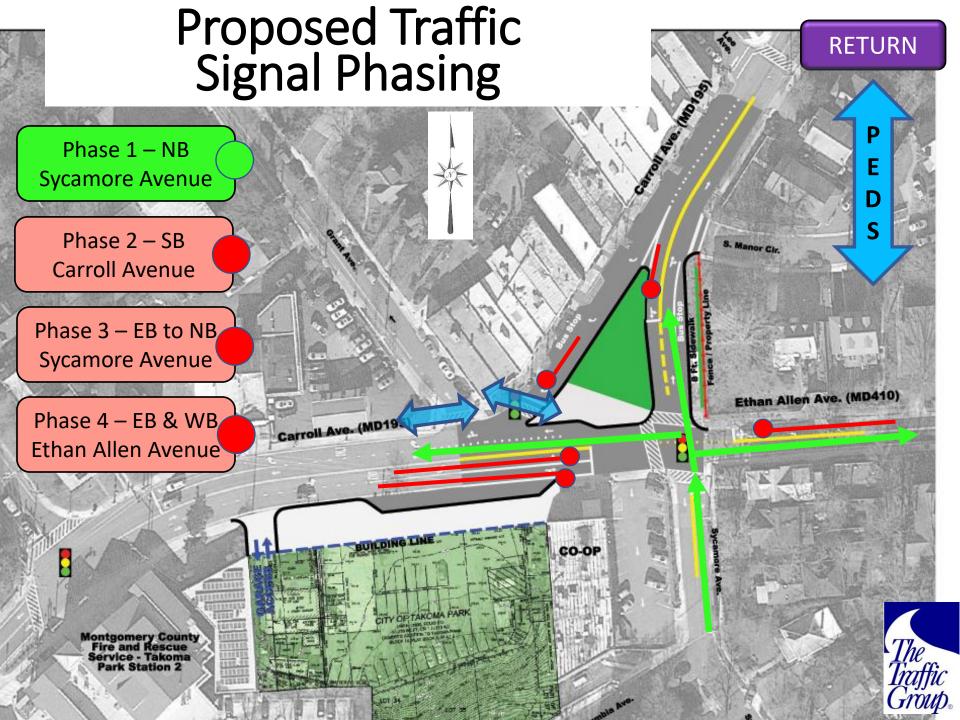
PM - AFTER TIMING CHANGES

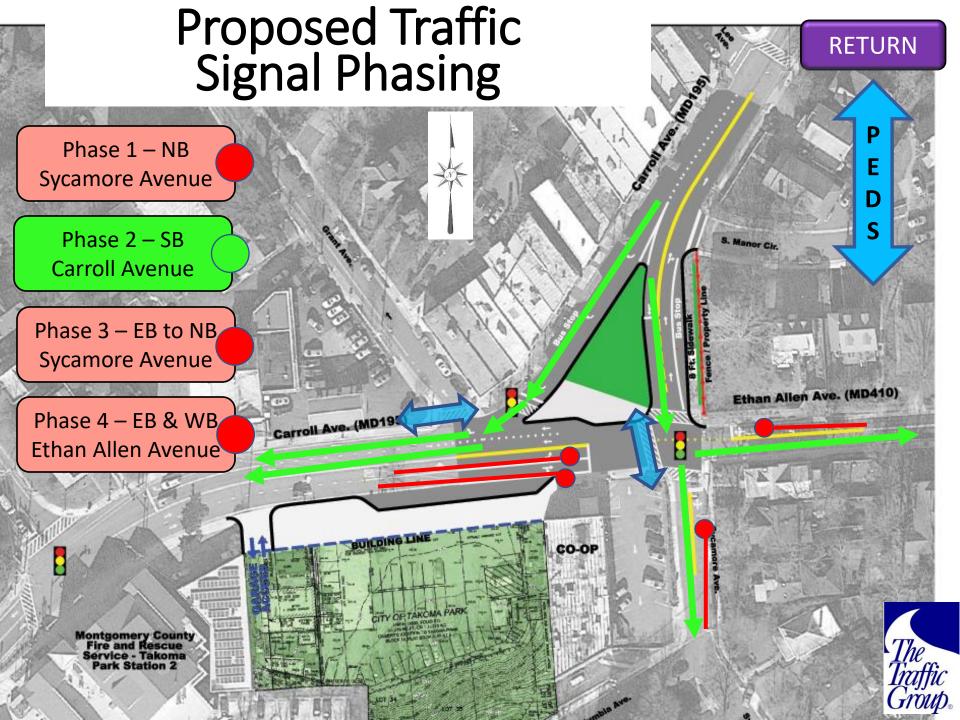


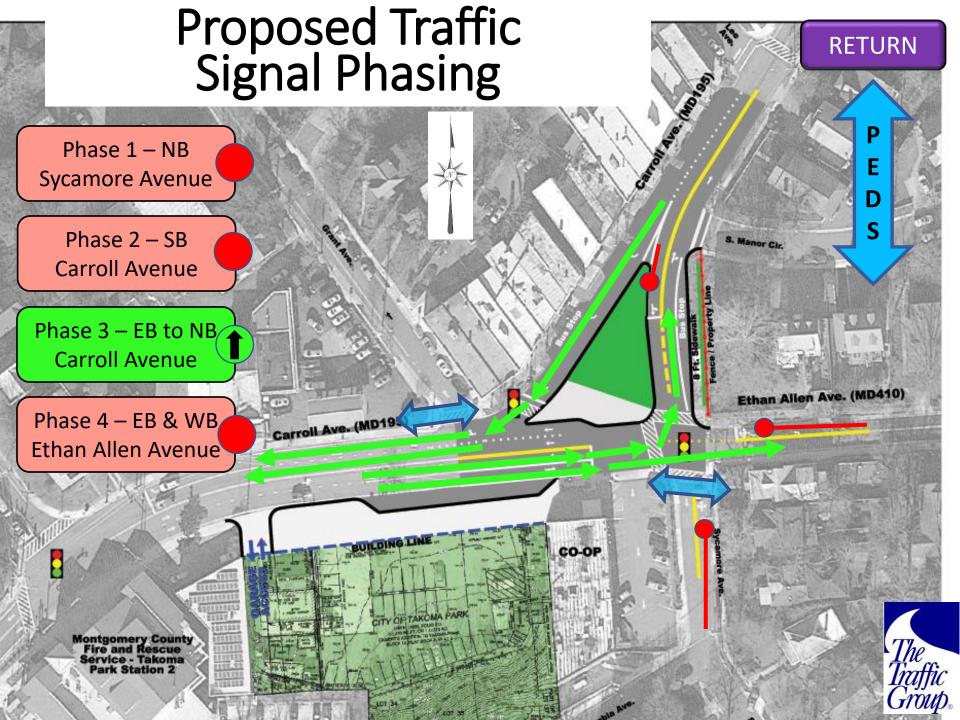


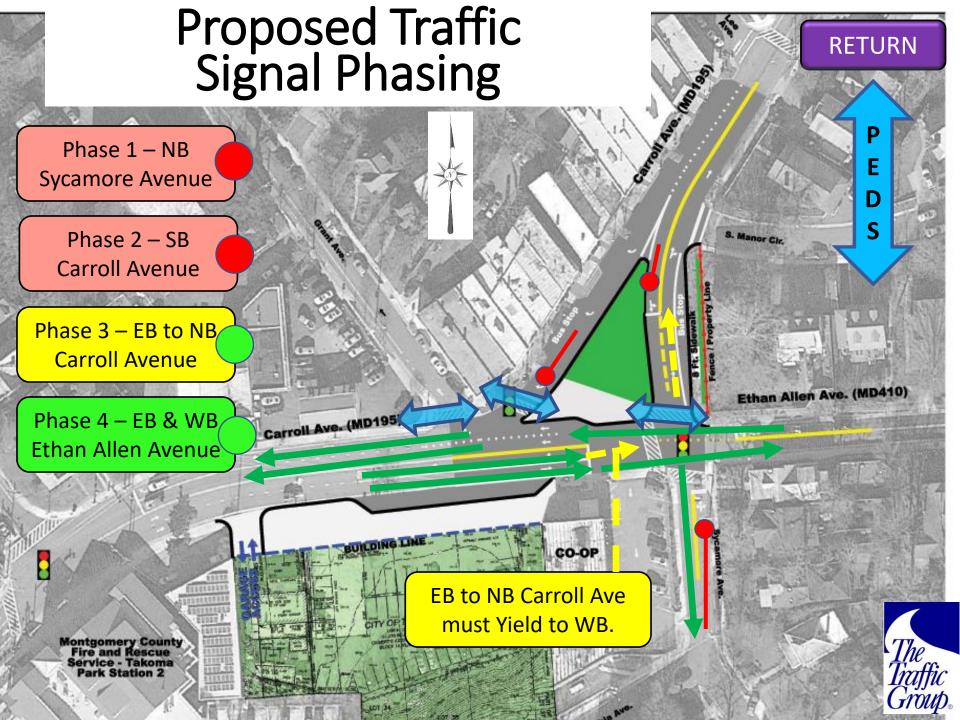




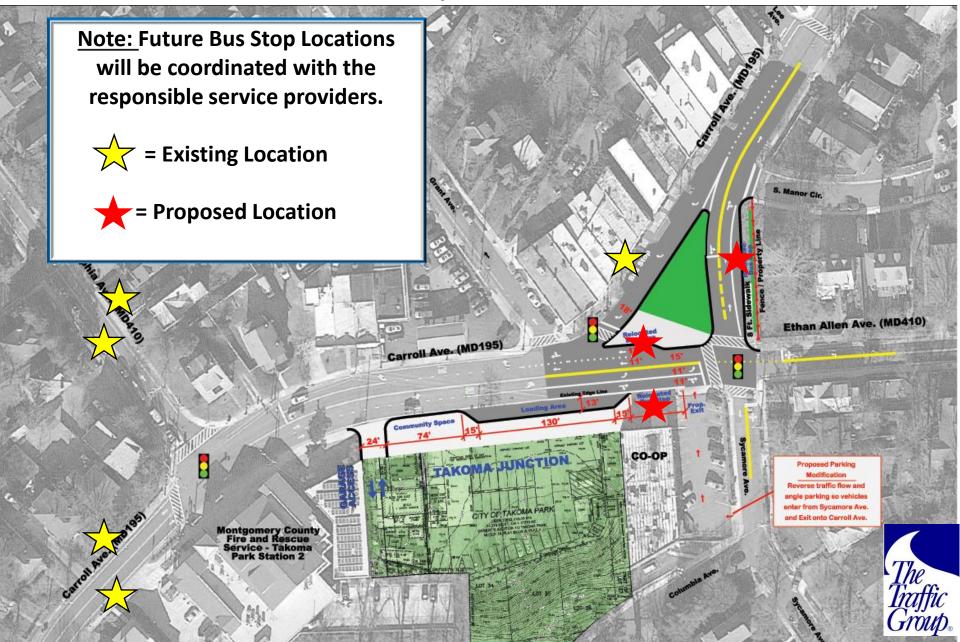








Bus Stop Re-locations





Questions