

# 2020 NO-BUILD TRAFFIC CONDITIONS

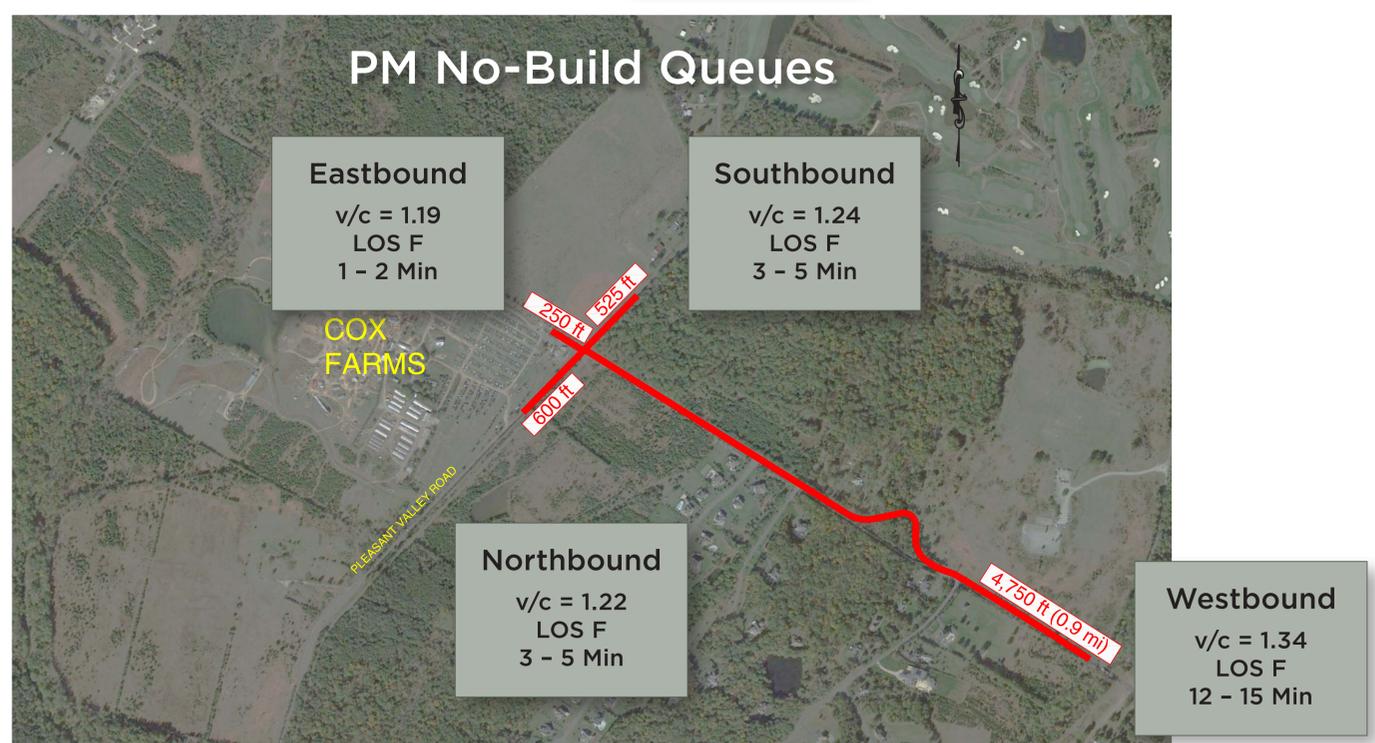
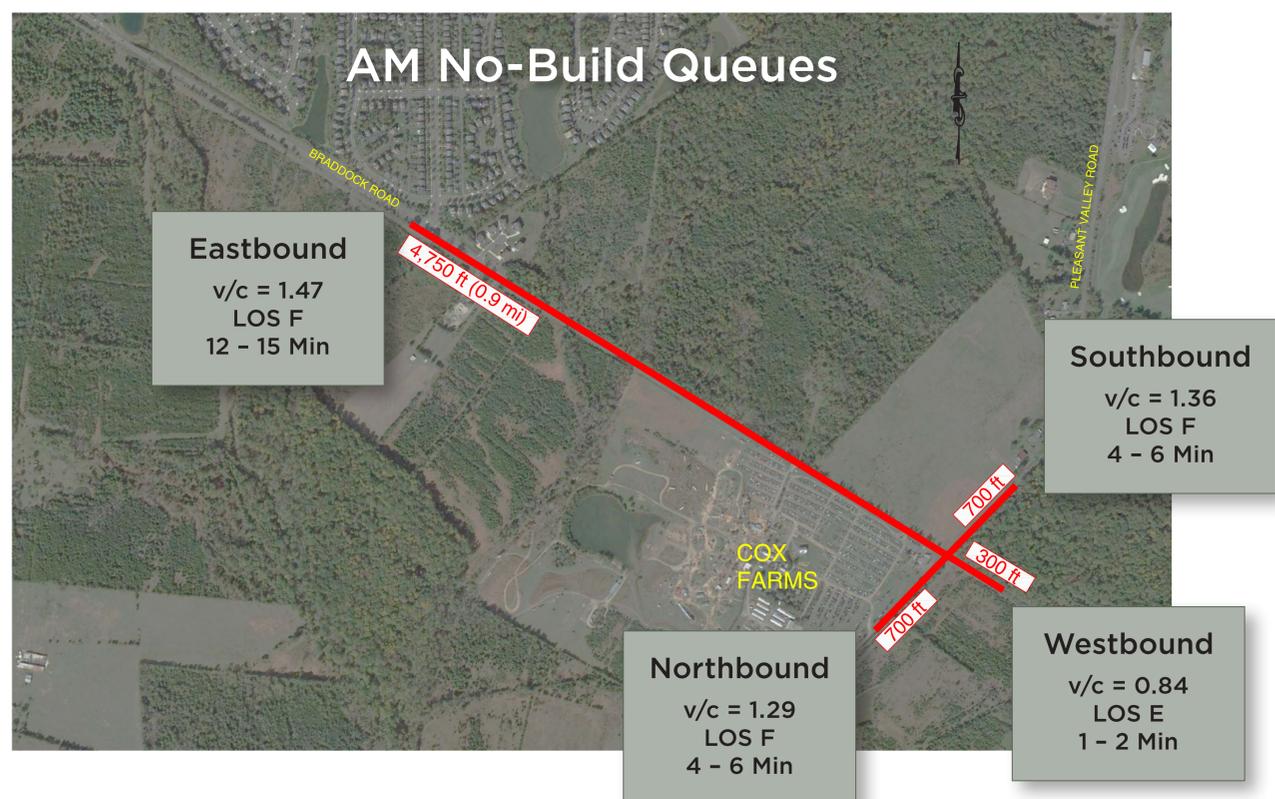
## All-Way Stop Control

### 2020 No-Build Traffic Operations

Intersection Approach	Weekday AM Peak Hour		Weekday PM Peak Hour	
	V/C	LOS	V/C	LOS
Eastbound	<b>1.47</b>	<b>F</b>	<b>1.19</b>	<b>F</b>
Westbound	0.84	E	<b>1.34</b>	<b>F</b>
Northbound	<b>1.29</b>	<b>F</b>	<b>1.22</b>	<b>F</b>
Southbound	<b>1.36</b>	<b>F</b>	<b>1.24</b>	<b>F</b>

### 2012 Observed Queues

Intersection Approach	Weekday AM Peak Hour		Weekday PM Peak Hour	
	Observed Queue Length	Time in Queue	Observed Queue Length	Time in Queue
Eastbound	<b>4,750 ft (0.9 mi)</b>	<b>12-15 min</b>	250 ft	1-2 min
Westbound	300 ft	1-2 min	<b>4,750 ft (0.9 mi)</b>	<b>12-15 min</b>
Northbound	700 ft	4-6 min	600 ft	3-5 min
Southbound	700 ft	4-6 min	525 ft	3-5 min



#### LEGEND

V/C - volume-to-capacity ratio

LOS - Level of service



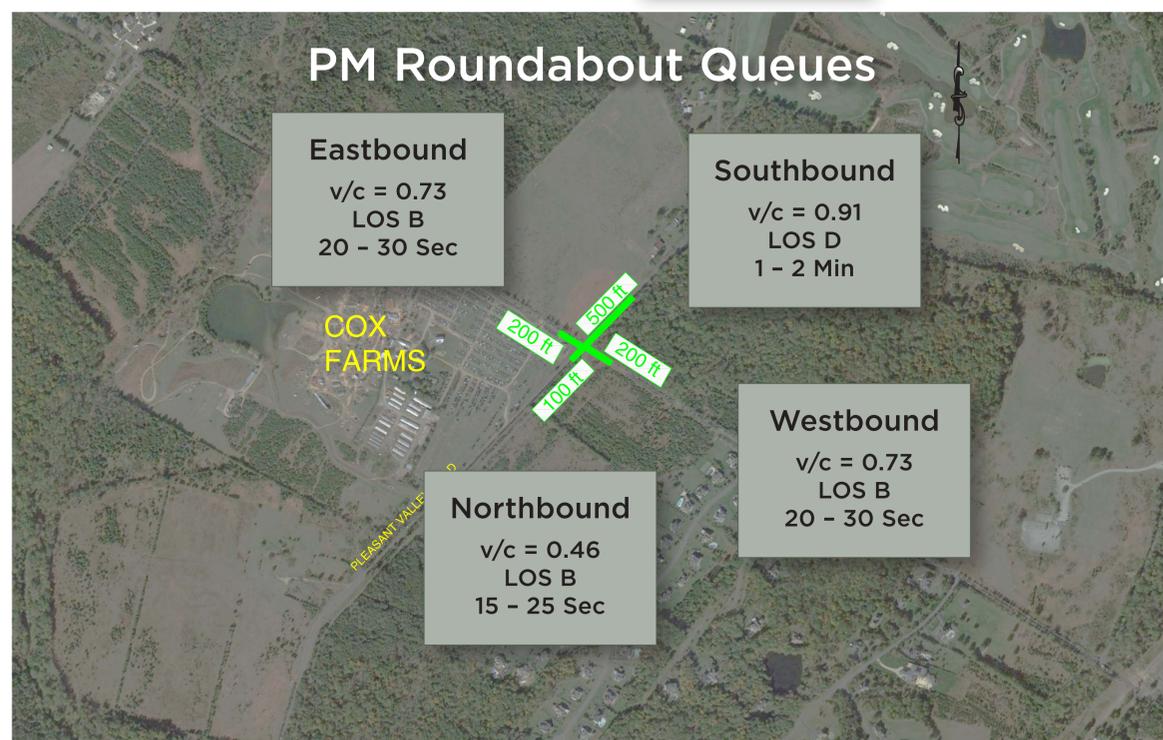
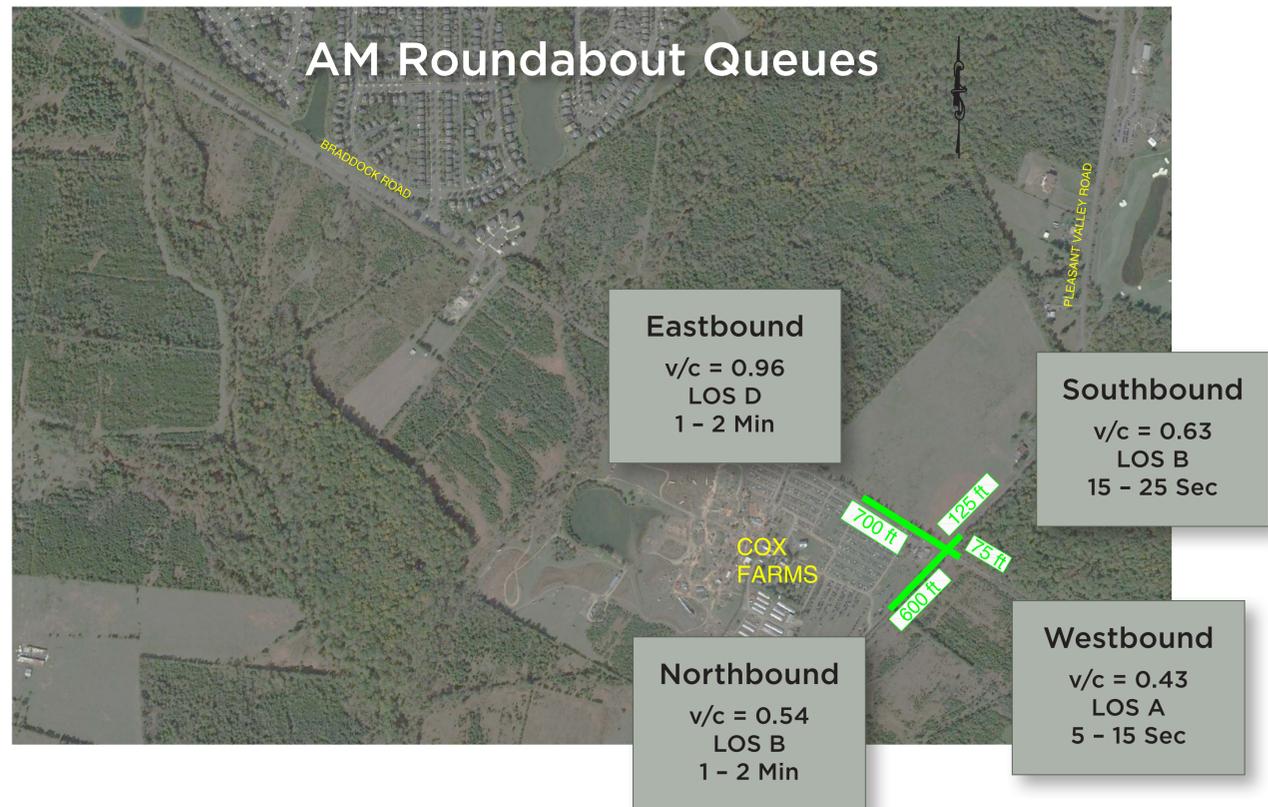
# 2020 ROUNDABOUT TRAFFIC CONDITIONS

## 2020 Roundabout Traffic Operations

Intersection Approach	Weekday AM Peak Hour		Weekday PM Peak Hour	
	V/C	LOS	V/C	LOS
Eastbound	0.96	D	0.73	B
Westbound	0.43	A	0.73	B
Northbound	0.54	B	0.46	B
Southbound	0.63	B	0.91	D

## 2012 Roundabout Queues

Intersection Approach	Weekday AM Peak Hour		Weekday PM Peak Hour	
	95th% Queue	Time in Queue	95th% Queue	Time in Queue
Eastbound	700 ft	1-2 min	200ft	20-30 sec
Westbound	75 ft	5-15 sec	200 ft	20-30 sec
Northbound	600 ft	1-2 min	100 ft	15-25 sec
Southbound	125 ft	15-25 sec	500 ft	1-2 min



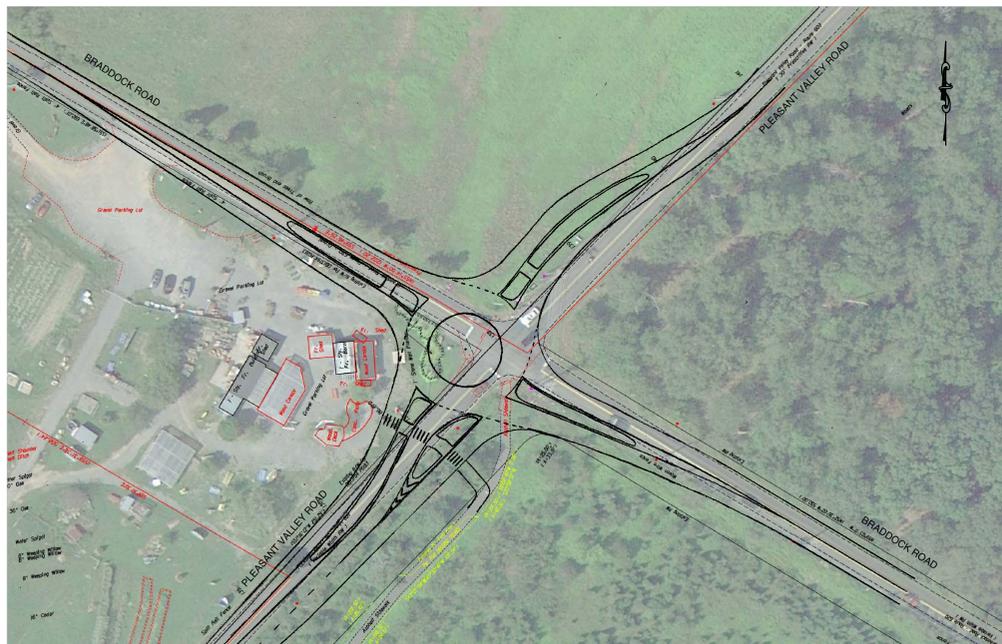
### LEGEND

V/C - volume-to-capacity ratio

LOS - Level of service



# WHY A ROUNDABOUT AND NOT A TRAFFIC SIGNAL?



## Benefits of a Roundabout vs. Traffic Signal

- Roundabout requires **45% LESS** overall area compared a Traffic Signal
  - Less Right-of-Way
  - Reduced environmental impacts
  - Reduced utility impacts
  - Reduced 4f impacts
- Better safety performance
  - 48% fewer total crashes
  - 78% fewer injury crashes
- Better off-peak performance (little or no delay)
- Lower life-cycle (maintenance/operations/power) costs
- Adaptable to wider range of traffic volume variations
- Access management (Cox Farms & FCPA)
- Landscaping/aesthetics

