SUDLEY ROAD/CENTREVILLE ROAD (RT. 28) ROUNDABOUT

PRELIMINARY AND INTERMEDIATE DESIGN FOR PROPOSED ROUNDABOUT

WHAT IS A ROUNDABOUT?

A roundabout is a circular intersection without traffic lights where all traffic moves counterclockwise around a central island. Traffic entering the roundabout slows down and yields to vehicles already in the roundabout.

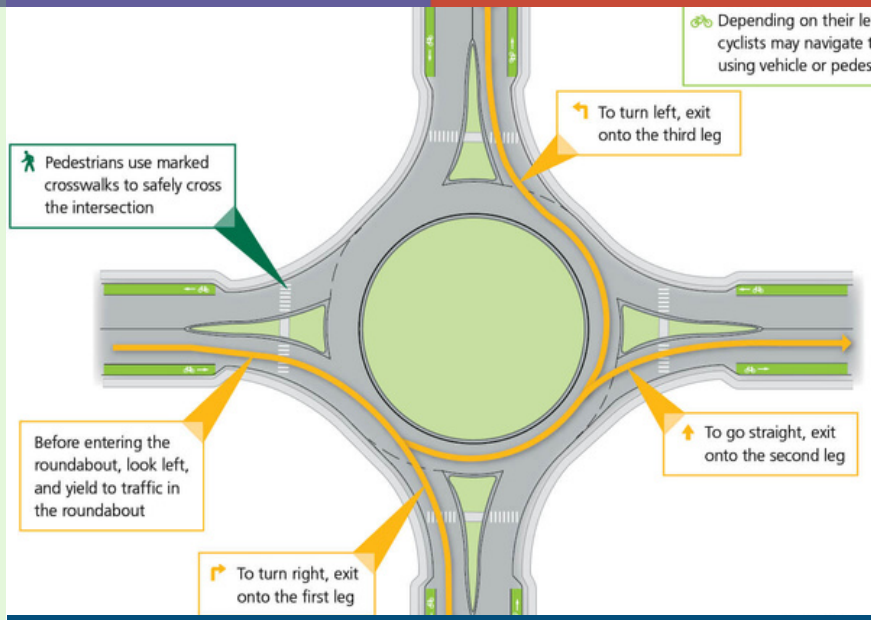
WHY BUILD A ROUNDABOUT?

Two major studies of this intersection concluded that a roundabout would:

- reduce travel times and a major bottleneck
- reduce the number of auto and pedestrian accidents
- improve air quality and noise
- lower cost to maintain than traffic lights and hardware
- help create a more beautiful gateway into the city

HOW WOULD WE PAY FOR THE ROUNDABOUT?

- This project is partially funded in the FY23 Capital Improvement Plan.
- Federal grant funds are being sought to fully fund this project.



STATUS

- Feasibility study was completed in June 2019.
- Survey was completed in February 2020.
- Preliminary Engineering in progress.

WWW.MANASSASVA.GOV/ROUNDABOUT

WHAT THE RK&K FEASIBILITY STUDY FOUND: (assuming a 14% increase in traffic volume over 20 years)

VEHICLE DELAY SAVINGS

A roundabout will get every car through the intersection 30 seconds more quickly during peak hours & 18 seconds more quickly during off-peak hours.

CAR CRASHES

The intersection had 49 car crashes in 2014-2018. Round-abouts reduce fatalities by 35% & injuries by 76% compared to traffic lights.*

**U.S. Dept. of Transportation*

PEDESTRIAN SAFETY

Sidewalks on all four sides connect to existing sidewalks with marked crosswalks. Refuge areas in the median let pedestrians cross one direction of traffic at a time.

AIR & NOISE

With less idling, acceleration, and deceleration, the roundabout improves air quality and reduces noise.

COST SAVINGS

A roundabout has no need for electricity, signal timing equipment, or other hardware. That saves approximately $64,300 over 20 years.