TRANSPORTATION

Preliminary Traffic Calming Design & Public Comment







How do we approach the traffic calming design?

- Consistent treatment placement along entire street
 - 400' 700' spacing of treatments
 - Close spacing is used for streets with a higher speed compliance issue
 - Target pedestrian heavy amenities to increase safety, such as Millbrook High school
- Targeted placement to fix a speed related crash issue
 - If a pattern of speed related crashes is identified, targeted treatment placement can eliminate that crash pattern
 - If no pattern is identified locationally, but multiple speed related crashes have occurred, consistent treatment spacing can help eliminate crashes along an entire street

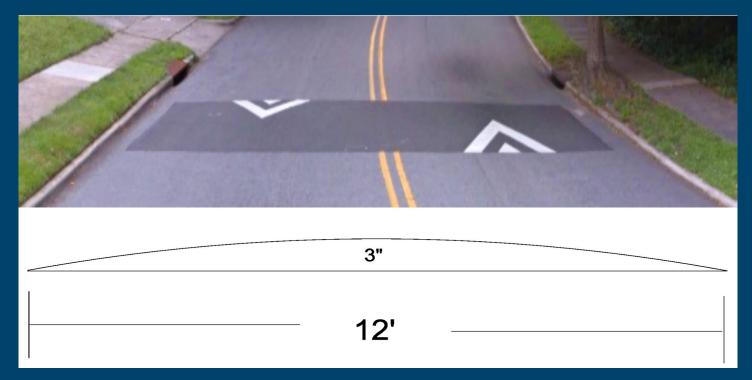


Treatment Limitations

- Your street's width will determine what types of treatments can be placed
 - Quail Ridge Rd is approximately 41' wide
 - Based on this street width, horizontal and vertical traffic calming elements are appropriate and are being proposed as part of this project



Speed Humps (vertical)





Speed Humps (vertical)

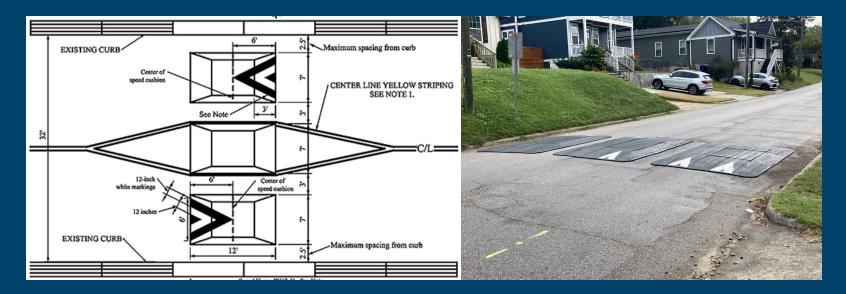
<u>Pros</u>

- Can be the most effective
- Fast installation time/Less impact during construction
- Versatile placement options based on compact footprint

- Does not contrast as much with existing roadway
- Impact to driving comfort
- Creates slight delay in emergency service's response times



Speed Cushions (vertical)



*Speed Cushion dimensions vary based on roadway dimensions



Speed Cushions (vertical)

<u>Pros</u>

- Can be as effective as speed humps
- Relatively low impact installation timeline, but slightly slower than a standard hump as more labor is required
- Versatile placement options based on compact footprint
- Slightly faster emergency service's response times due to tire slits for larger vehicles

- Does not contrast as much with existing roadway
- Reduced driving comfort
- There is still some level of delay to emergency service's response times when compared with no treatment



Neighborhood Traffic Circle (horizontal)



*Neighborhood Traffic Circle to be placed within existing curb lines – no impacts outside of existing roadway



Neighborhood Traffic Circle (horizontal)

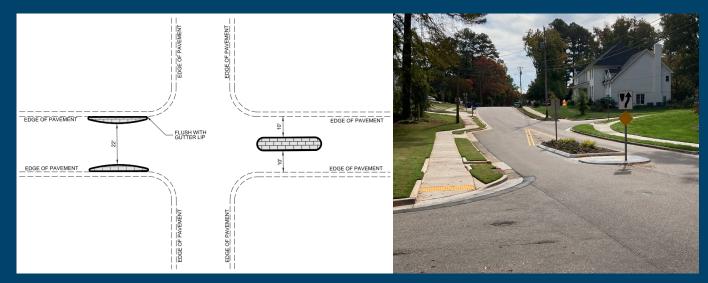


- Helps decrease speed of vehicles as they enter/drive through the intersection
- Helps to reduce the frequency and severity of collisions
- Increases safety for pedestrians and cyclists at the intersection
- Minimal impact to emergency service's response times

- Not all intersections meet the minimum dimensions for installation
- Slightly longer installation time, typical for treatments made of concrete



Intersection Narrowing (horizontal)



*Integrity of the separated bicycle lanes will be maintained through the intersection



Intersection Narrowing (horizontal)

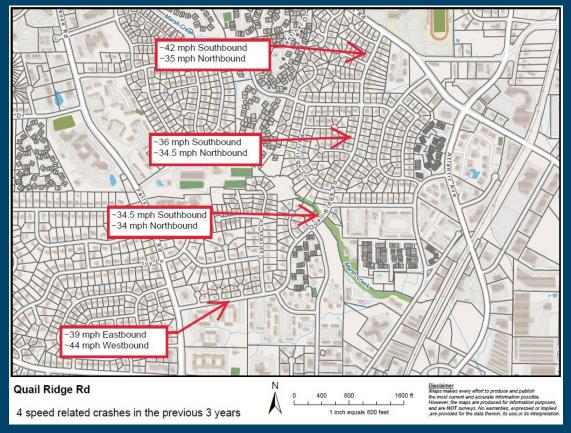
<u>Pros</u>

- Helps decrease the speed of vehicles as they enter/drive through the intersection
- Can be incorporated into locations with enhanced pedestrian elements to create safer pedestrian crossings
- Minimal impact to emergency service's response times

- Not all intersections are appropriate for this treatment style
- Slightly less effective at slowing down vehicles at intersections when compared to Neighborhood Traffic Circles
- Slightly longer installation time, typical for treatments made of concrete



Evaluation Data





Design Process

- Based on the speed progression and crash patterns along Quail Ridge Rd, we are proposing treatment spacing of approximately 400' – 500' intervals
- Speed related crashes are occurring along the entirety of Quail Ridge Rd. An intersection related crash issue has remained a concern after the multiway stop conversion was installed at Quail Ridge Rd at Port Royal Rd. Focusing on speed reduction for the whole street will help resolve the speed and crash issues identified for the whole street. Also, focusing on that intersection will aid in the overall project goals



Project Goal

- The project will be deemed effective if 85% of drivers are going at or below the 25 mph speed limit and top driver speed is capped at around 5-7 mph over the speed limit
 - Based on your location, Johnsdale Rd, E Rowan St, and Dartmouth Rd are the closest completed traffic calming project to you with this style of completed project. We encourage you to go drive these streets yourself to experience the final project.
- Once the project has been completed for approximately 6 months, an after-study will be performed to measure project effectiveness



Public Comment

- What are your thoughts on the proposed design?
 - Should we place more or less treatments along the street?
- Have we adequately addressed problem areas you see?
 - Should we place another traffic calming treatment in a targeted location?
- What are your thoughts on the mix of treatments being proposed?
 - Please review our video about Neighborhood Traffic Circles that may answer some immediate questions.
- What other questions, comments, suggestions do you have?

Please direct all comments and questions to staff using the PublicInput portal for Quail Ridge Rd. Staff will respond and we can have a neighborhood wide conversation.

