#### **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 Cedar Hills Park
- 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

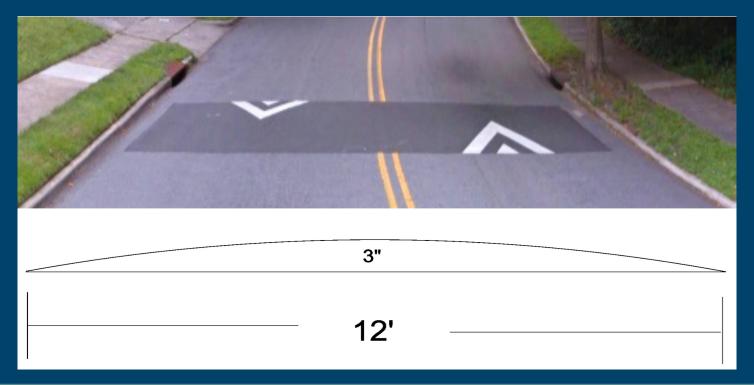


### Treatment Limitations

- Your street's width will determine what types of treatments can be placed
  - Mapleridge Rd is approximately 25' wide
  - Based on this street width, vertical traffic calming elements are the only viable option between intersections.
  - Horizontal traffic calming elements are being proposed at one intersection to address speed related concerns on Mapleridge Rd, but also related intersection concerns and issues



# Speed Humps (vertical)





## Speed Humps (vertical)

#### **Pros**

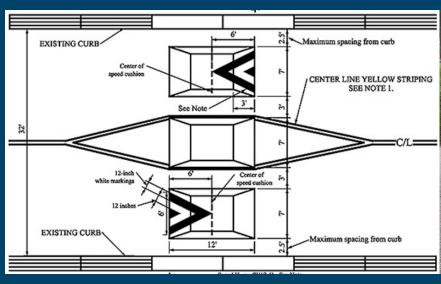
- Can be the most effective
- Fast installation time/Less impact during construction
- Versatile placement options based on compact footprint

#### <u>Cons</u>

- 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)

#### Pros

- 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

#### Cons

- 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)

#### **Pros**

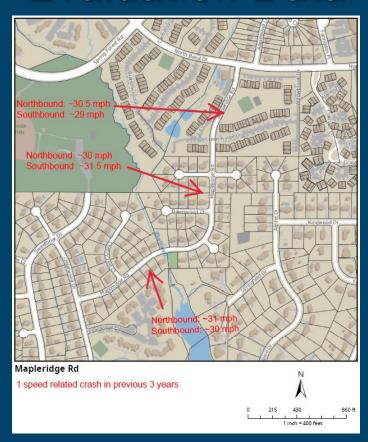
- Helps decrease speed of vehicles as they enter/drive through the intersection
- Helps to reduce the frequency and severity of collisions
- Increases safety for pedestrians and cyclists at the intersection
- Minimal impact to emergency service's response times

#### Cons

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



### **Evaluation Data**





### Design Process

- Based on the speed progression and vehicular volumes along Mapleridge Rd, we are proposing treatment spacing of approximately 400' – 600' intervals
- 1 speed related crash has been identified in the previous 3
  years. Staff will look to ensure lower speeds are maintained
  along the entire street to help eliminate similar speed related
  crashes in the future.



### **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, Northbrook Dr, E Rowan St, and Dartmouth Rd are the closest completed traffic calming projects to you. 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 Mapleridge Rd. Staff will respond and we can have a neighborhood wide conversation.

