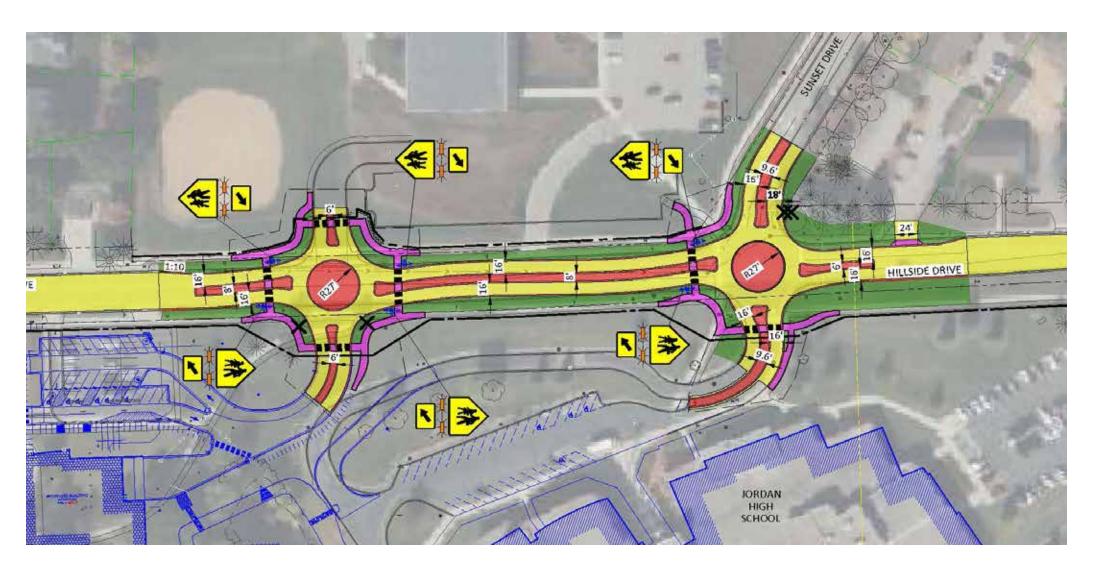
# Roundabout Safety

# **Proposed Compact Roundabouts**

#### Based on traffic volumes, the existing stop signs a the high school entrance/Sunset Drive are not needed. This leads to drivers rolling through the stop signs, increasing the risk of a pedestrian crashes.



- Smaller diameter than 'full sized roundabout'
- Reduces costs and property impacts while still meeting safety and capacity needs.
- Helps further reduce vehicle speeds and serious injury crashes.

## Give 'em a brake

State law requires that traffic entering and exiting a roundabout **must yield to** pedestrians in the crosswalk.

# **Increased Yield Rates** 83% of vehicles yield to

pedestrians in single-lane roundabouts.<sup>2</sup>

# **Enhanced Pedestrian Crossings**

Signage with flashing pedestrian beacons (RRFBs) are planned on all crossings of Sunset Drive to alert motorists when a pedestrian is crossing. These increase yield rates of vehicles to enhance pedestrian safety.

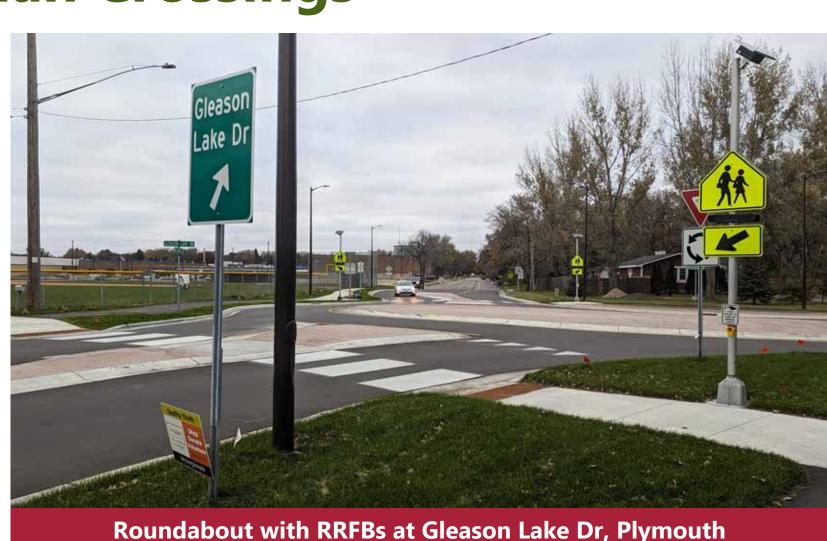


#### What diameter roundabout(s) is proposed?

> 90' compact roundabouts are proposed to allow less common, large vehicles to drive over the center, while still facilitating traffic movements for passenger vehicles, box trucks and buses using the roundabout lanes.

#### How do these compare in size to other **compact roundabouts?**

- > 82': Duluth Ave SE Village Lake Dr SE, Prior Lake
- > 78': Lyndale Ave / W 67th St, Richfield
- > 78': Lyndale Ave / W 70th St, Richfield
- > 75': Vierling Dr E / CR 79, Shakopee
- > 75': TH 19 / 1st Ave NE, New Prague
- > 69': Lyndale Ave / W 68th St, Richfield



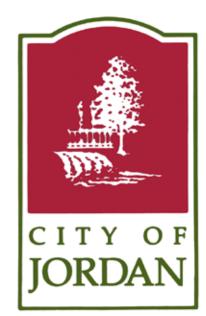
### Safety

- speeds.

- intersection.







Roundabouts have a 15-20 mph vehicle design speed. Two consecutive roundabouts will help maintain lower

Only 2 pedestrian/vehicle interaction points instead of 6 at a traditional intersection, improving safety.

Consistently reduce traffic congestion, delays, and serious injury crashes.

Pedestrian crossings are half the distance of a traditional

Overall greater interaction (e.g. eye-to-eye contact) between drivers and pedestrians.

87% fewer pedestrian injury crashes at a roundabout compared to a signalized intersection.<sup>1</sup>

# **Simplified Decision Making**

**Crosswalks** are set back to increase pedestrian visibility and allow drivers to focus on pedestrians crossing separate from vehicle traffic in the roundabout.

2. "Report 572: Roundabouts in the United States," National Cooperative Highway Research Program. 2006.