



Lake Avenue Improvement Project

Council Presentation

July 22, 2019



Agenda

- Project Goals and Need
- Existing Traffic Conditions
- Summary of Public Outreach Conducted
- Proposed Concept Plan for Lake Avenue
- Next Steps

Lake Ave/Blue Earth Ave: W 4th St to Downtown Plaza



Project Goals



Address pavement, curb and gutter, sidewalks, elevation changes, outdated traffic signals, and sewer, water and drainage infrastructure replacement



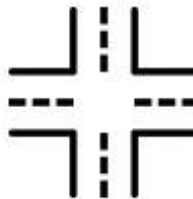
Support mixed land use as identified in the update to the City's Comprehensive Plan



Accommodate pedestrian and bicycle use as identified in the 2017 Active Transportation Plan



Identify streetscaping, landscaping, and site furnishing improvements



Improve intersection and corridor safety for all users



Identify changes needed to on-street parking



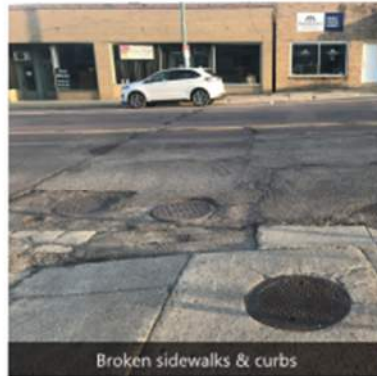
Project Need

Aging Infrastructure



Pavement cracking

Ped/Bike & Transit



Broken sidewalks & curbs

Traffic Operations & Safety



Outdated & unwarranted signals

Streetscape Elements



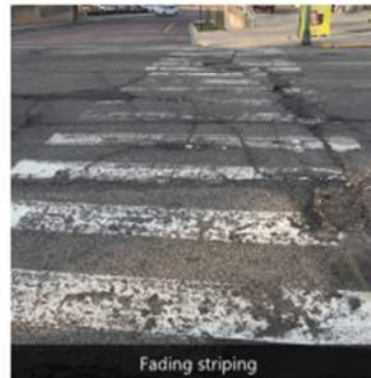
Expand current elements to new areas



Spalling & potholes



Uneven sidewalks & pinch points

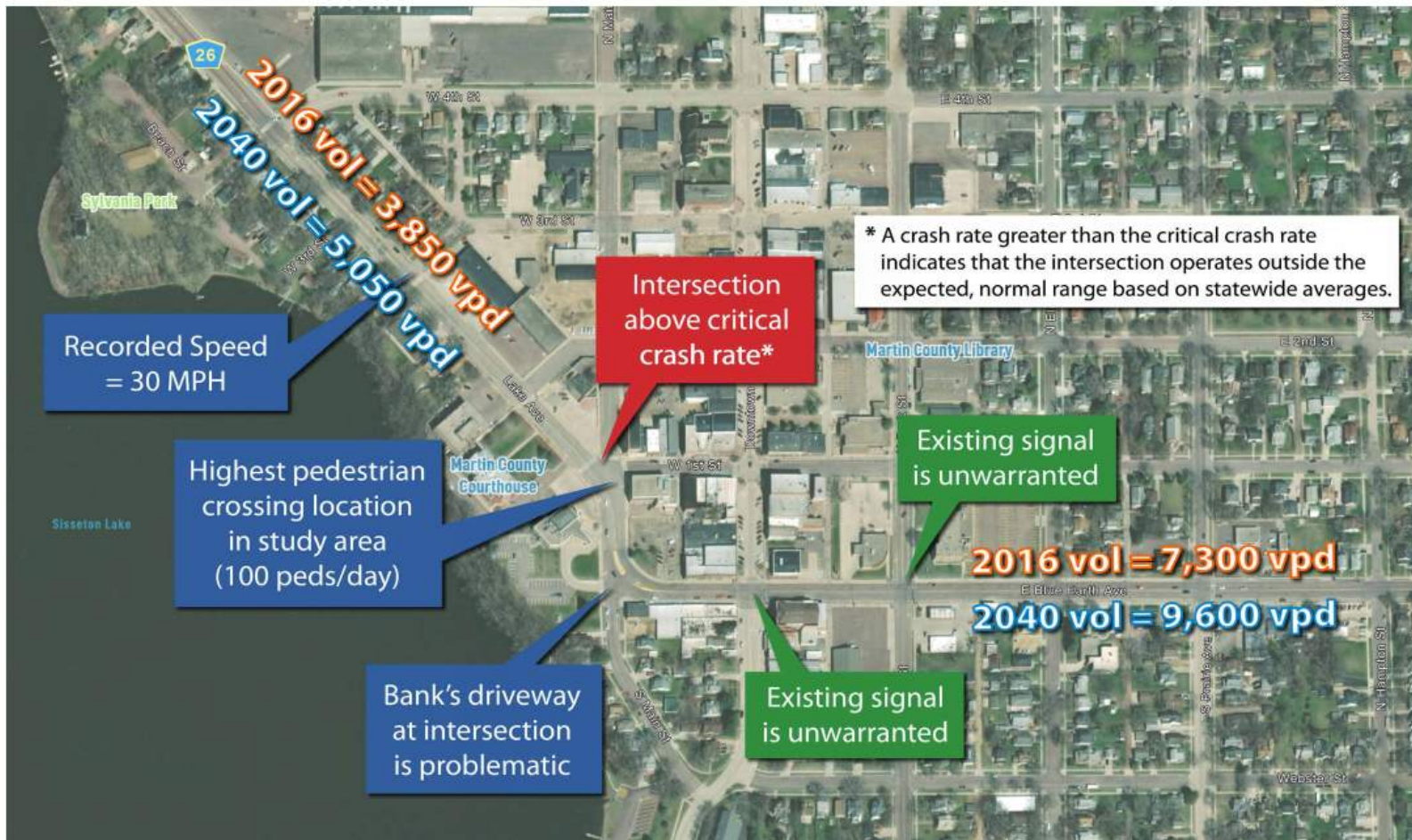


Fading striping



Old fixtures / peeling paint

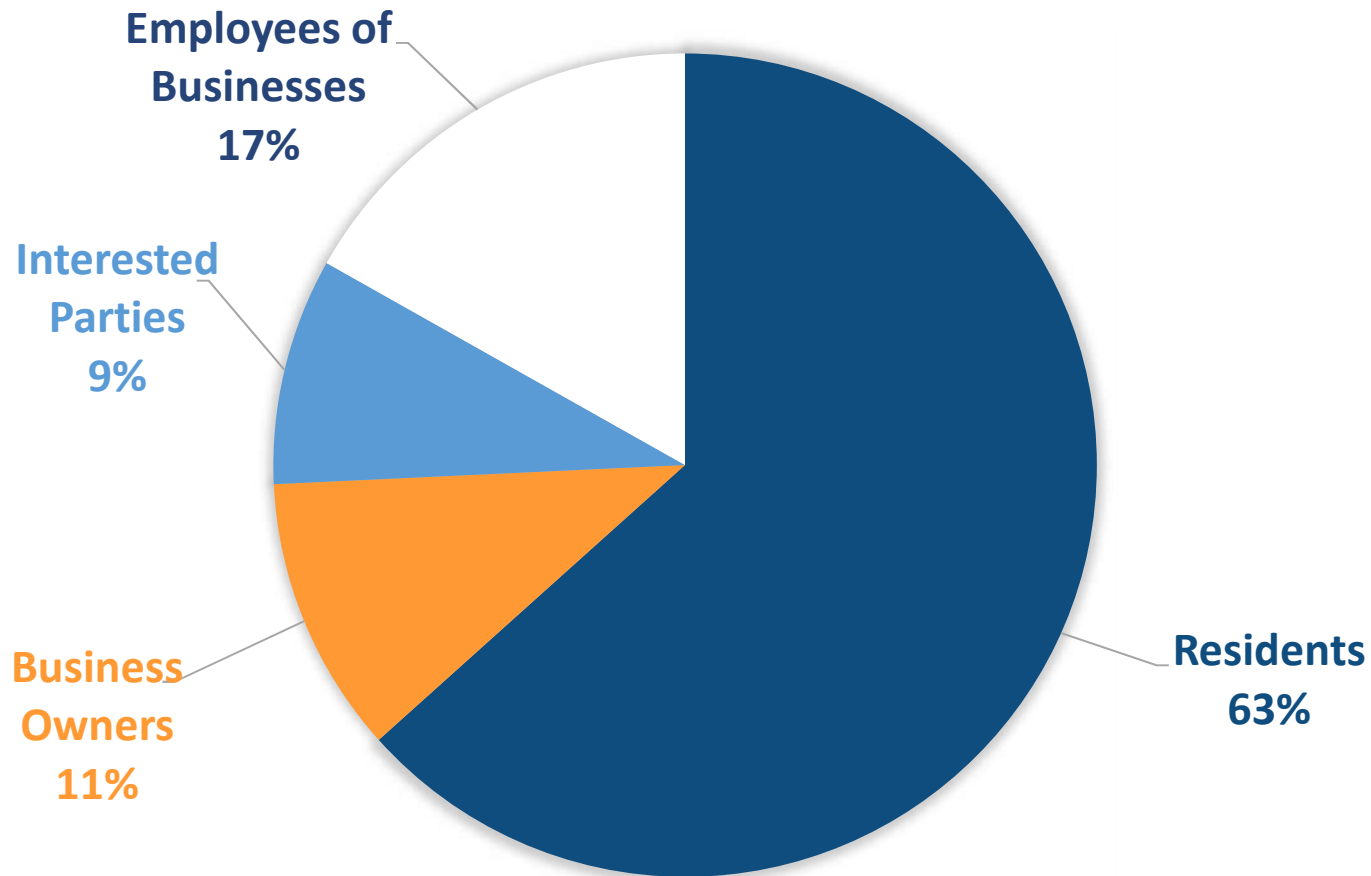
Existing Traffic Conditions



Project Outreach

- Project Open House May 9, 2019
 - 30 people attended
 - Businesses, residents, and other property owners
 - Several options presented
- Options revised and presented as part of online open house survey
 - 247 responses received

Survey Respondents

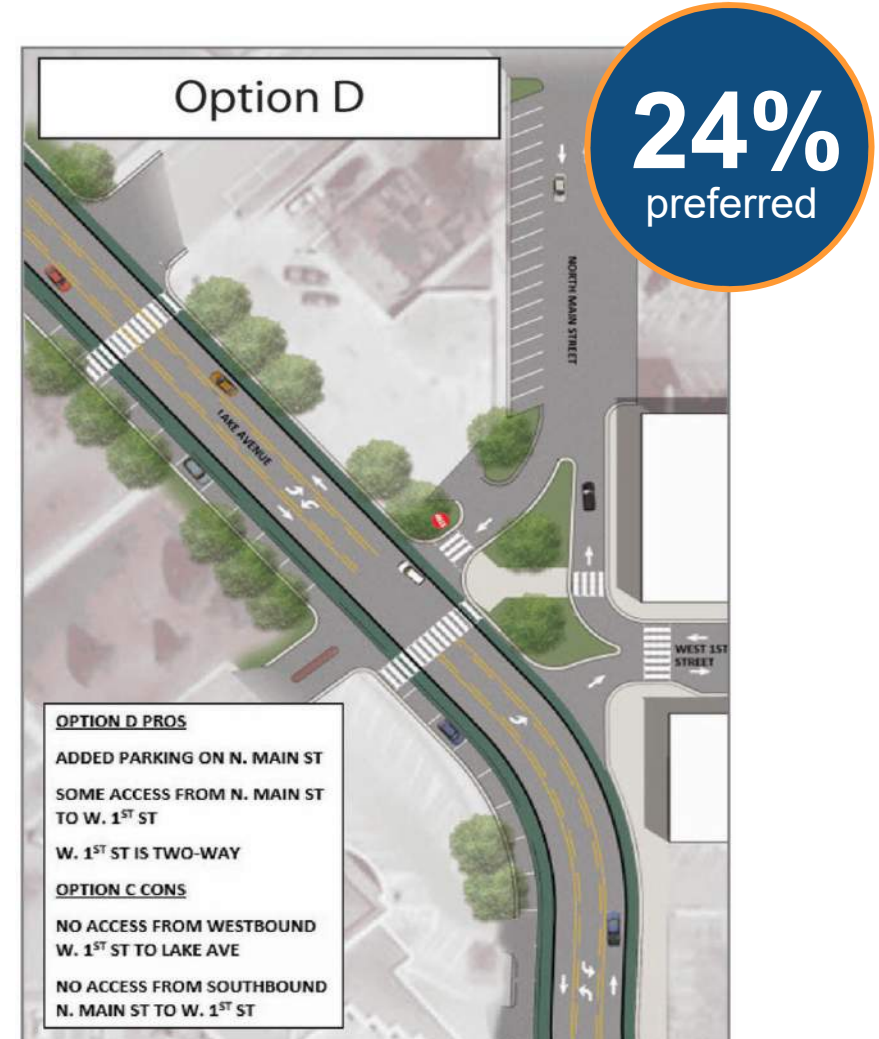
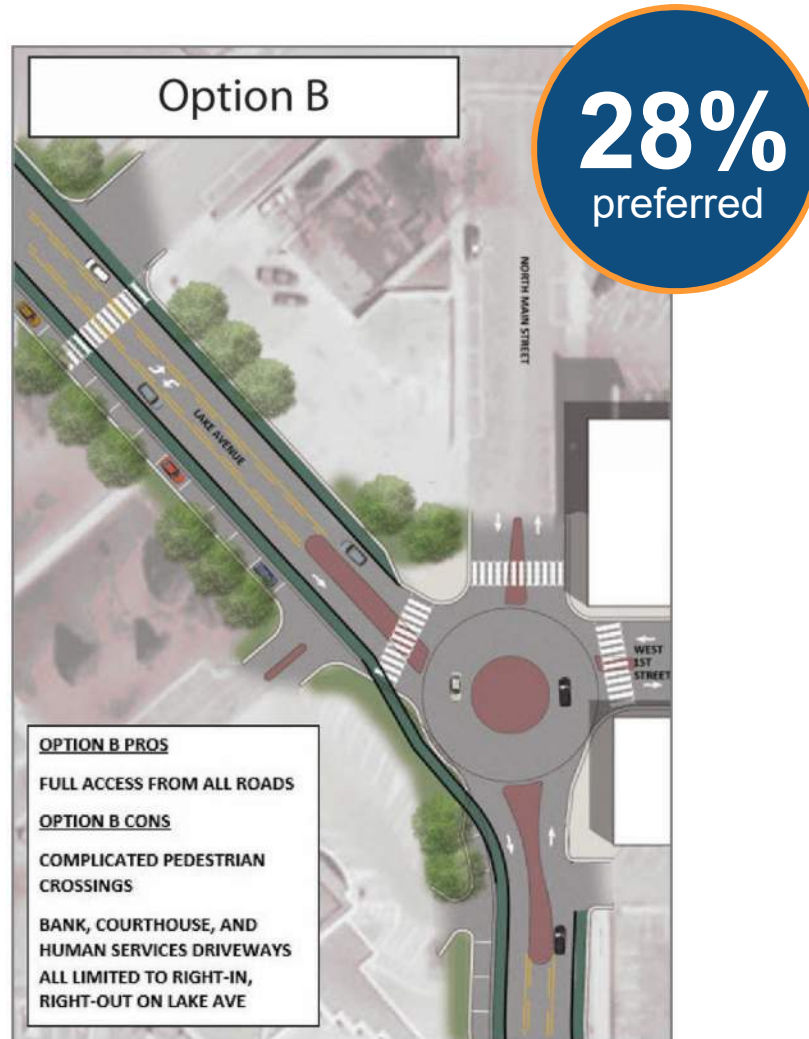


What Should be the Top 3 Priorities for the Lake Avenue project?

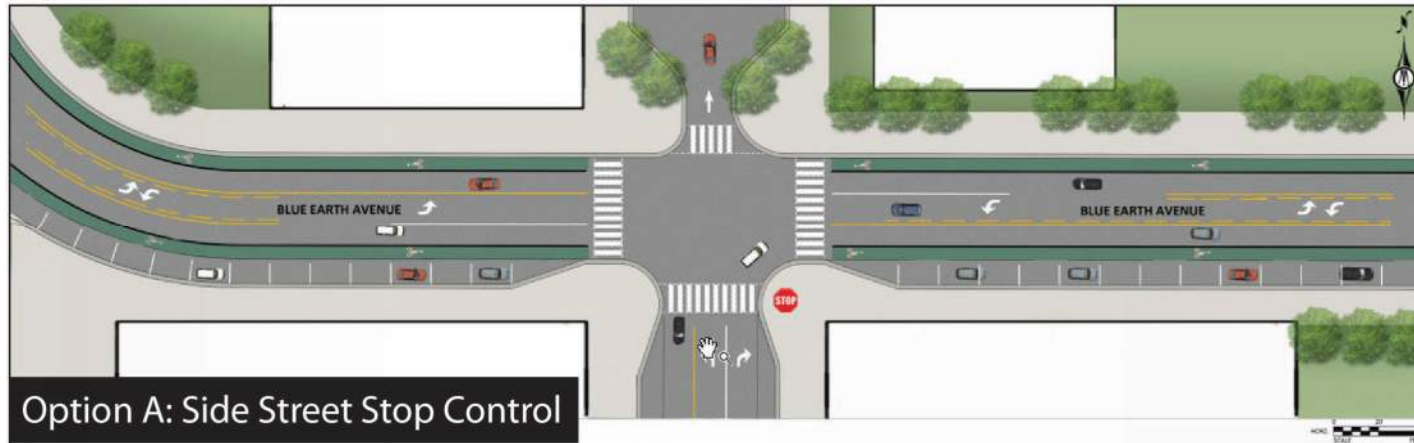
TOP 3

Answers	Count	Percent
Rebuild & reconstruct pavement	198	80.2%
Improve safety	156	63.2%
Move traffic quickly through the corridor with minimal delay	114	46.2%
Replace old traffic signals/signs & refresh street striping	65	26.3%
Keep project cost low	57	23.1%
Improve bicycle facilities	46	18.6%
Make sidewalks wider	44	17.8%
Add more on-street parking by making some streets one-way	14	5.7%

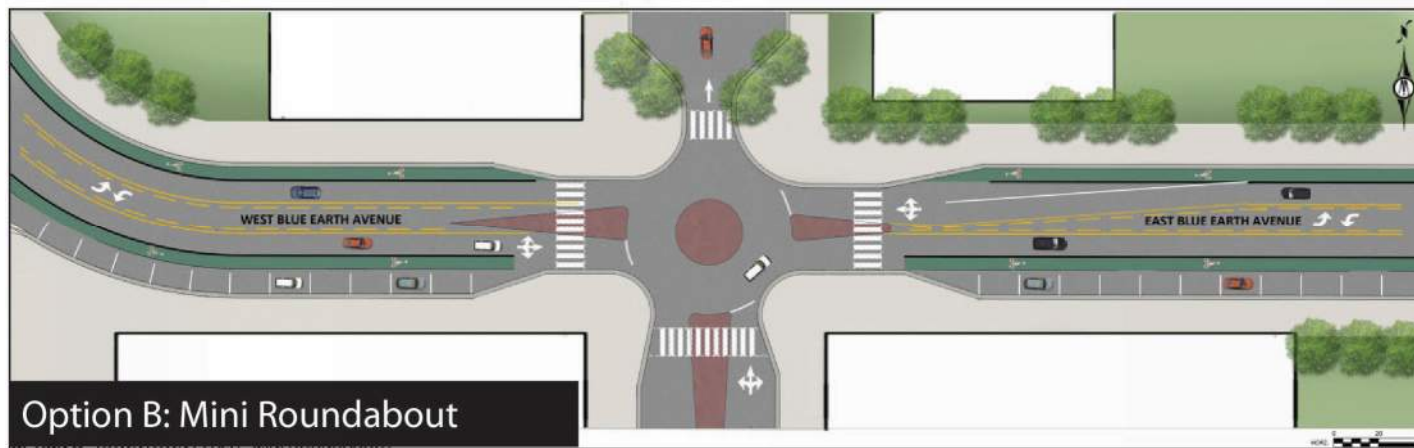
Main St and W 1st St Intersection



Blue Earth and Downtown Plaza Intersection

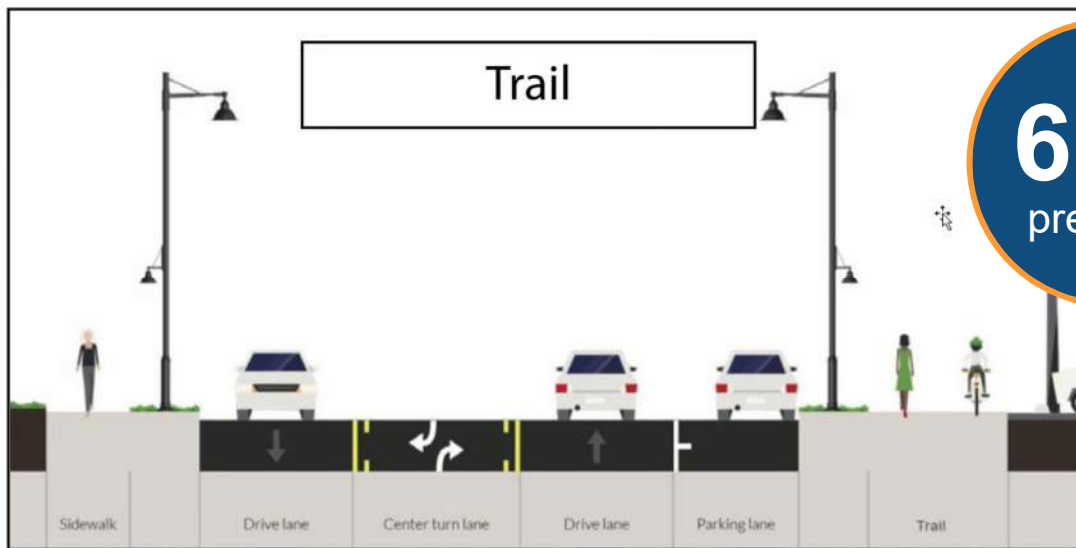


28%
preferred



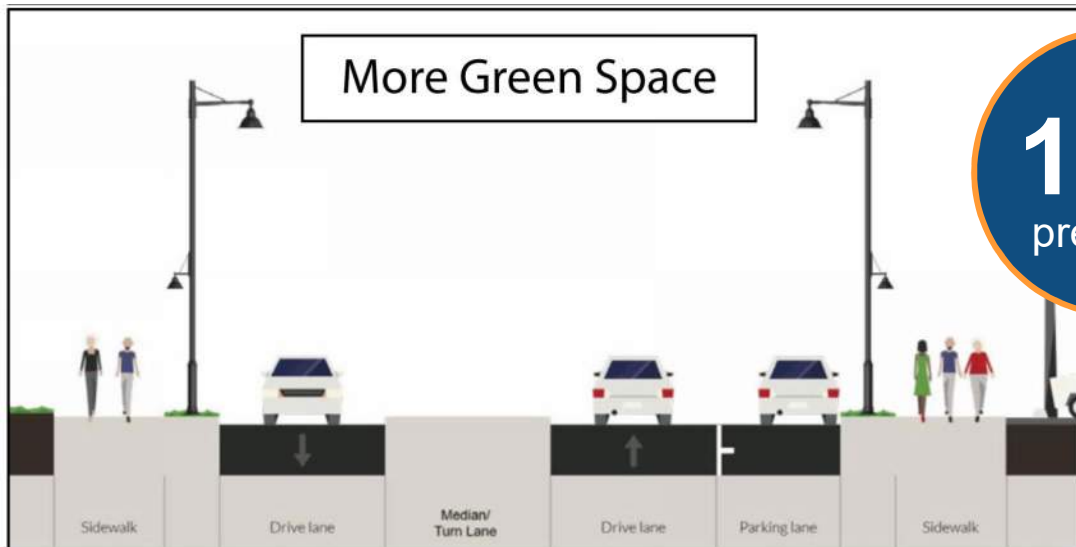
51%
preferred





61%
preferred

Roadway Reconfiguration



18%
preferred

On-Street Bike
Lanes Received
11% Support



Preferred Concept



Disadvantages to Mini-Roundabout at Main and 1st

No left turns out of Profinium, Courthouse, or Human Services driveways



Through traffic movements would be awkward due to geometry, particularly for trucks.

Next Steps

- Council Presentation on Proposed Concept
- Final Design this Fall/Winter
- Construction in 2020



Questions?

Project Website:

clients.bolton-menk.com/LakeAveImprovements



Mini-Roundabout



A **mini-roundabout** is a type of intersection that can be used in constrained locations in place of stop-controlled or signalized intersections to help improve safety and reduce delays. Generally, a mini-roundabout is small enough to be constructed within the existing intersection.

Navigating a Mini-Roundabout

- ① **Approach:** Slow down and stop for pedestrians in the crosswalk.
- ② **Enter:** Yield to vehicles approaching from the left, yield to all large vehicles including trucks, buses and emergency vehicles.
- ③ **Proceed:** Continue through the roundabout until you reach your street. Never stop for other cars while in the roundabout.
- ④ **Exit:** When exiting the roundabout, stop for pedestrians in the crosswalk.

Key Characteristics

- A **Center Island:** Mountable/traversable for larger vehicles. If a larger vehicle is on another approach with their turn signal on, do not enter the roundabout. Larger vehicles will use the entire intersection to complete their movement.
- B **Crosswalk:** Reduces number of conflict points for pedestrians crossing. Pedestrians should always look in the direction of approaching traffic to make sure cars stop before crossing. Cross one lane at a time.

https://www.youtube.com/watch?v=-wok-PZ4pGI&list=PL0rmHaSsN3seEayqIG0vtMIG1i_NrKSp6&index=6&t=0s



Mini-Roundabout in St. James

