



SHAKER HEIGHTS

# Warrensville Center Road/ Shaker Boulevard Intersection Improvements

Public Meeting  
January 22, 2020

Revised 4/28/2021

# Agenda

Welcome

Project Summary/Goals

Funding & Process

Progress Since Last Public Meeting

Existing Conditions

Traffic Study Overview

Proposed Improvements

Next Steps

Community Feedback

# Project Summary

- Includes both Warrensville/Shaker intersections
  - Eastbound
  - Westbound
- Implements *Van Aken District Signal Study (2018)*
- Study recommendations
  - Reduce the number of side streets
  - Improve signal operations
  - Make shorter, safer crossings for pedestrians
  - Improve bicycle access

# Goals

- Improve vehicle flow
- Reduce confusion
- Increase pedestrian safety
- Enhance connections for bicyclists/pedestrians
  - Public and private schools
  - Library
  - Shaker Median multipurpose trail
  - RTA Green Line Warrensville rapid transit station
  - RTA #41 bus

# October 30, 2019 Public Meeting – Summary of Comments

- 33 comments; 4 comment cards
- Theme of comments:
  1. **South Park Connector** – potential accidents; right turn lane needed; wrong way traffic on South Park
  2. **Pedestrian & Bike** – support pedestrian experience & shortened crosswalks; ped/bike priority
  3. **Falmouth** – support; Fire response
  4. **Diverted traffic** – locations
  5. **Chesterton** – cut through traffic & speed
  6. **Shelburne/Warrensville** – light timing

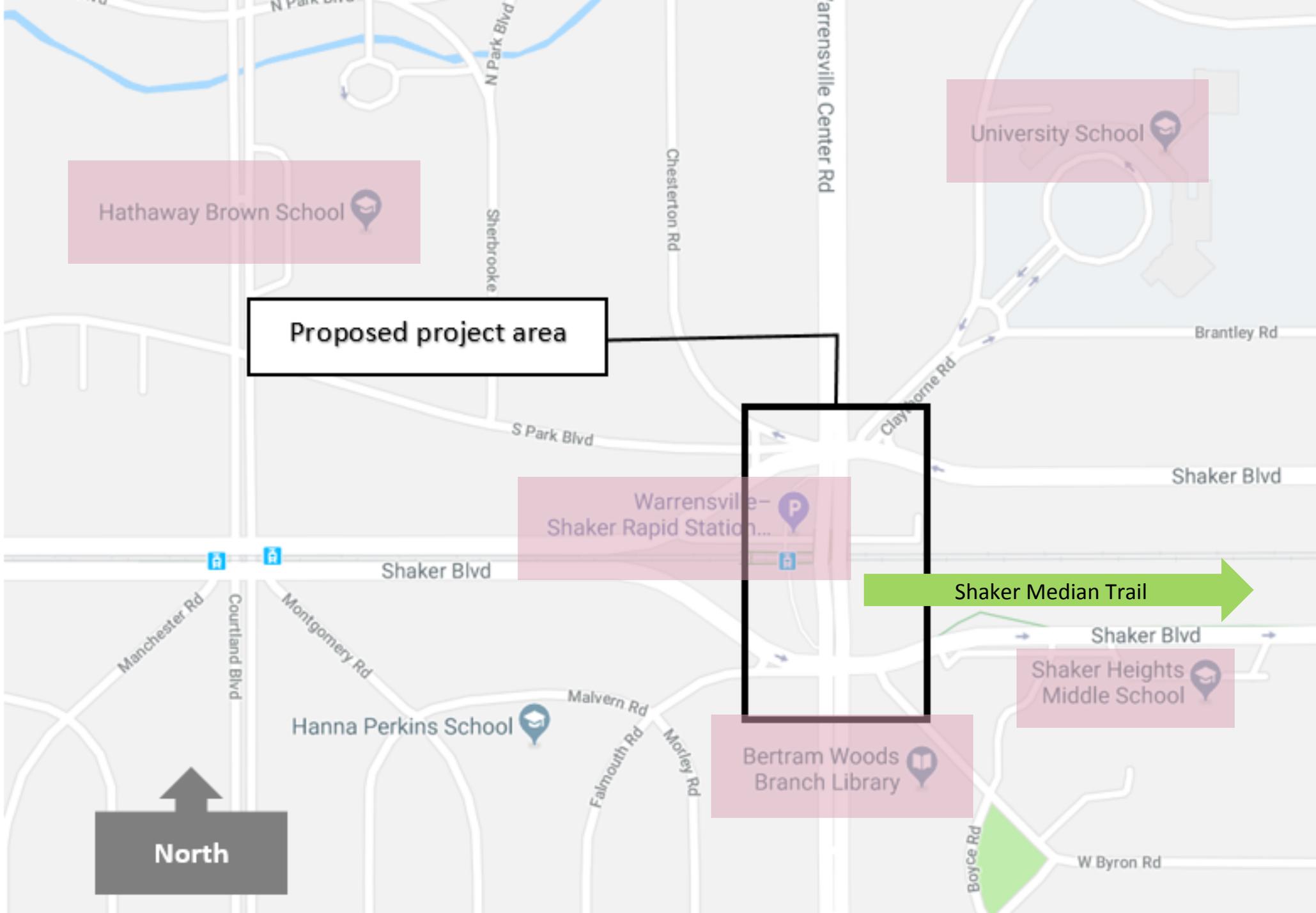
# Progress Since the Last Public Meeting

- Additional traffic counts at 5 intersections
  - South Park Boulevard / Courtland Boulevard
  - Shaker Boulevard / Courtland Boulevard
  - South Park Boulevard / Sherbrooke Road
  - Shelburne Road / Warrensville Center Road
  - North Park Boulevard / Courtland Boulevard
- Traffic simulation module updates
- Speed survey on Shaker Boulevard by Police Department
  - Survey included 30,325 vehicles
  - Average speed is 37 mph
  - 1.8% of vehicles above 45 mph

# Funding

Revised 4/28/2021

- Project committed budget \$747,000
  - \$200,000 grant – Transportation for Livable Communities Initiative (TLCI) program
  - \$374,000 grant – ODOT State Safety funding
  - \$173,000 – City Capital Budget
- Construction slated for Summer 2021



Hathaway Brown School

University School

Proposed project area

Warrensville-Shaker Rapid Station

Shaker Median Trail

Shaker Heights Middle School

Bertram Woods Branch Library

North

# Existing Conditions



# Existing Conditions - Westbound



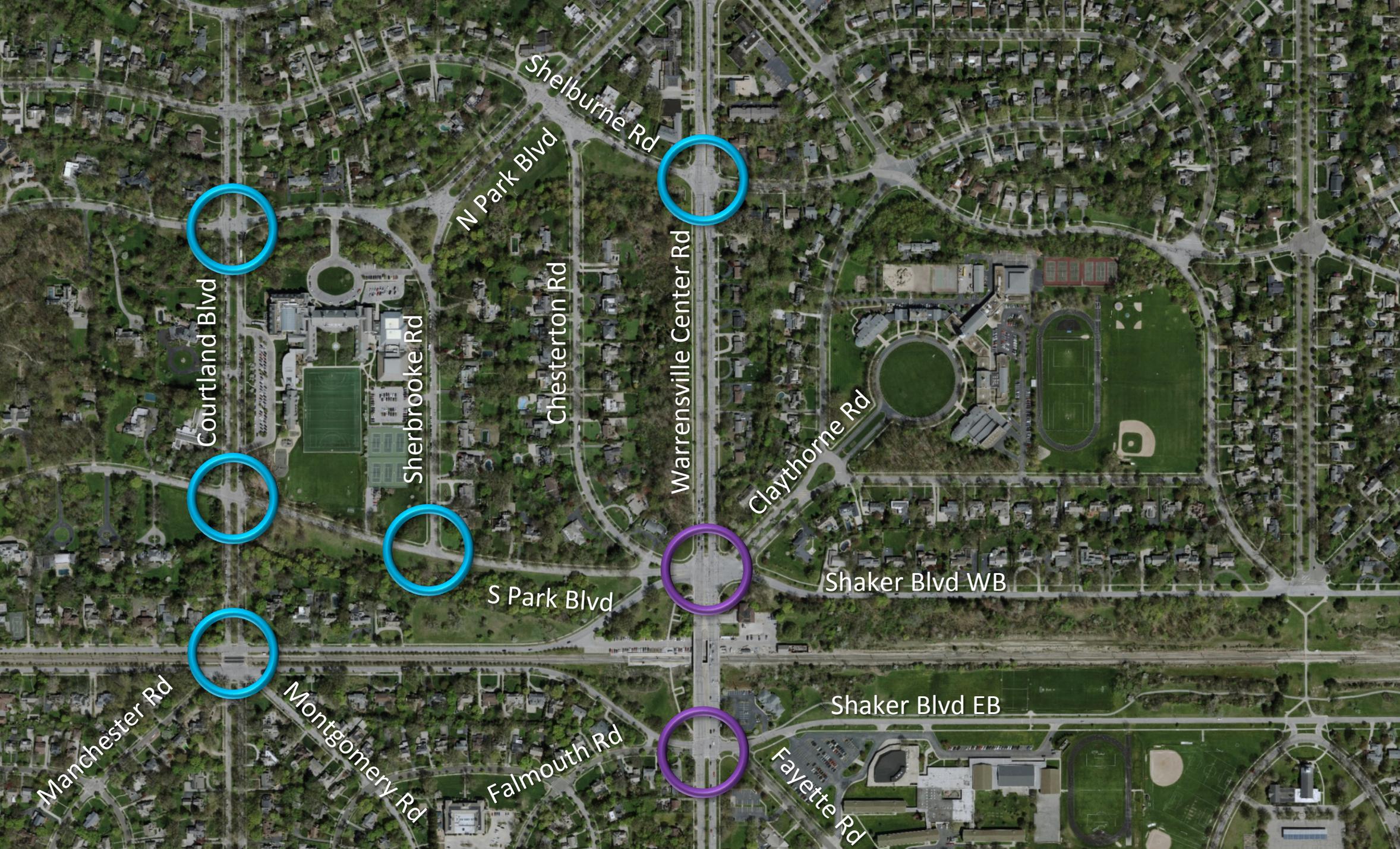
- 7-leg, irregular intersection
- Very long crossing distances
- Lots of asphalt
- Private schools, Fire Station, RTA



# Existing Conditions - Eastbound

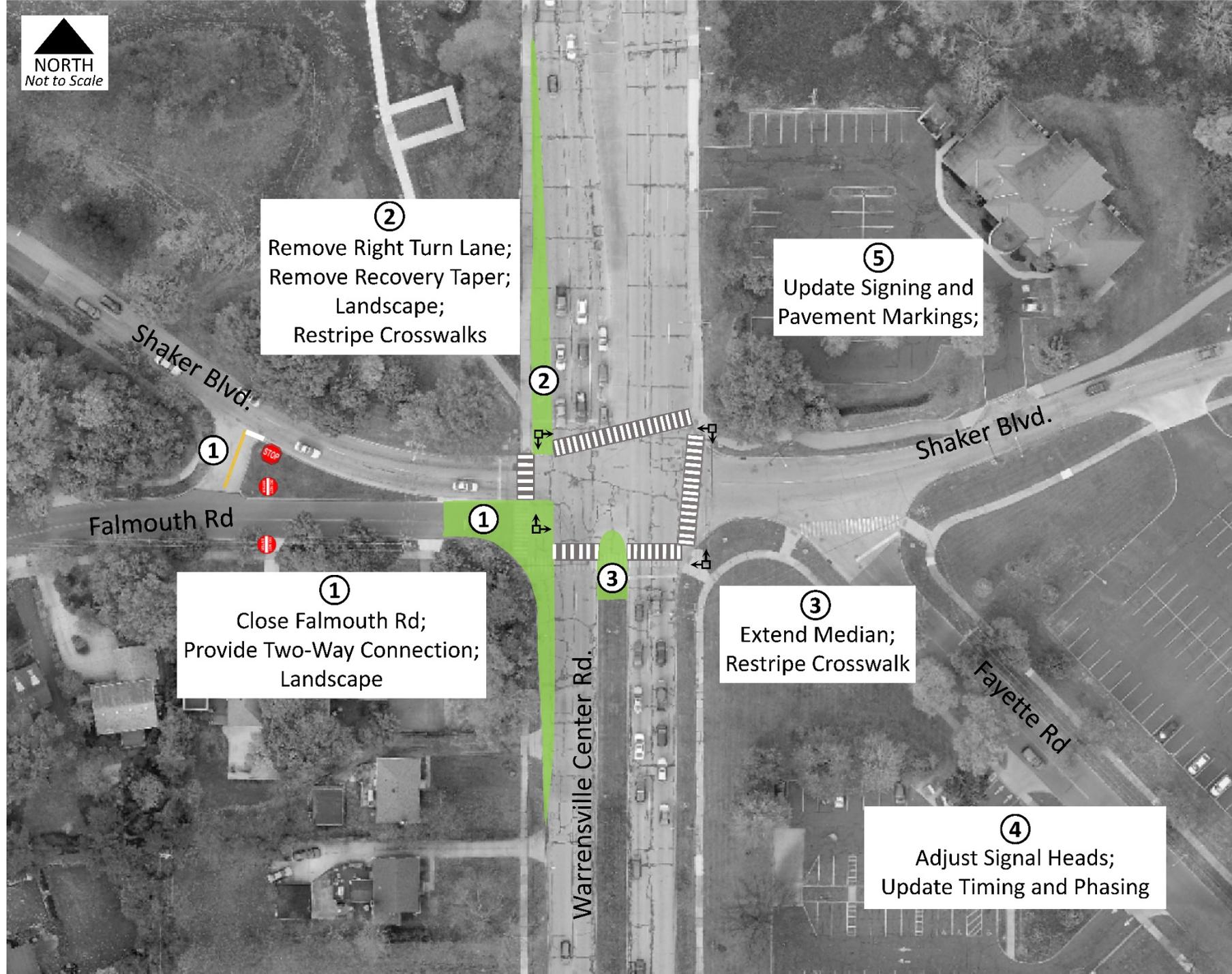
- 6-leg irregular intersection
- Middle school, library, trail, RTA
- Many pedestrians
- Long crossing distances







# Proposed Changes Eastbound



②  
Remove Right Turn Lane;  
Remove Recovery Taper;  
Landscape;  
Restripe Crosswalks

⑤  
Update Signing and  
Pavement Markings;

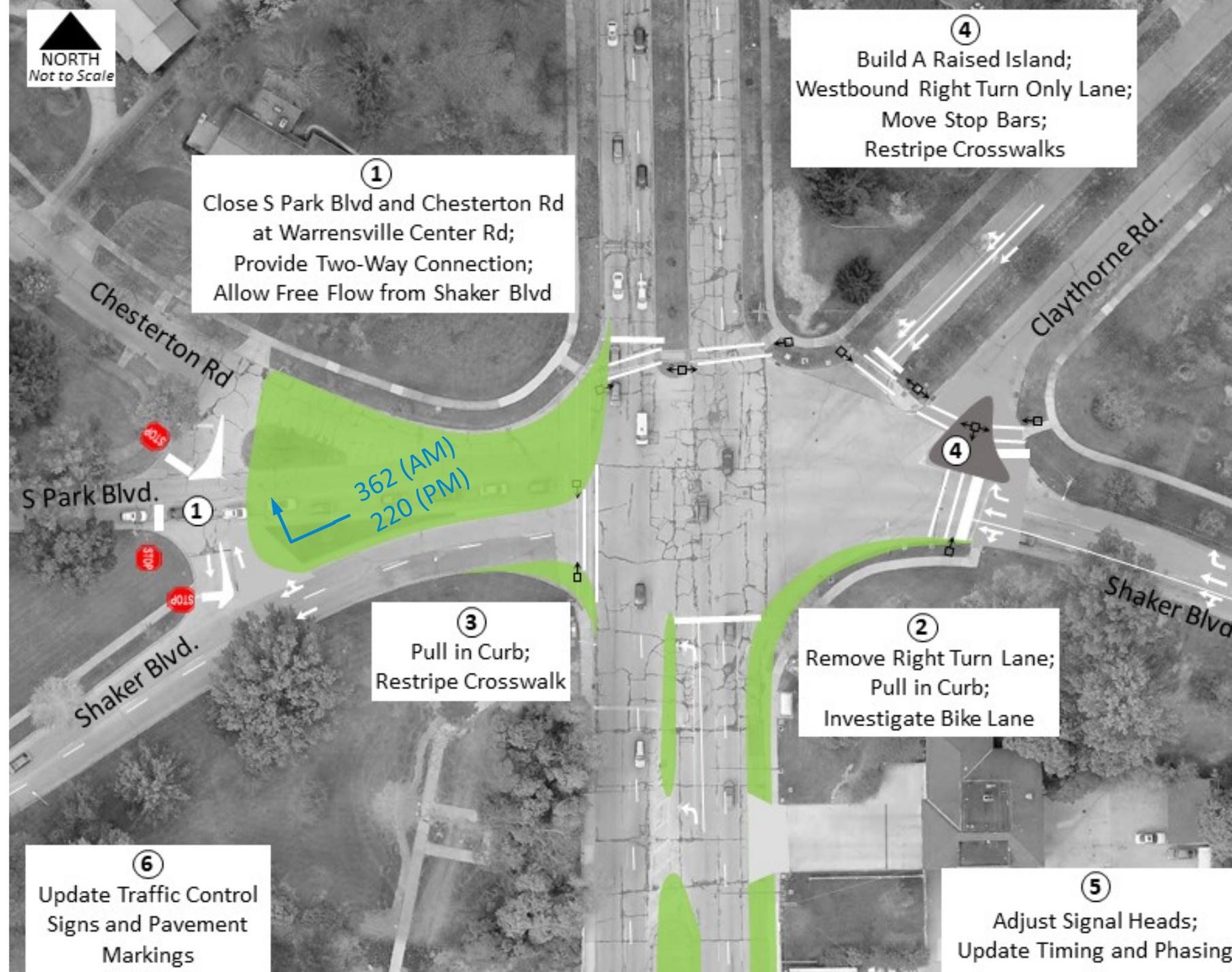
①  
Close Falmouth Rd;  
Provide Two-Way Connection;  
Landscape

③  
Extend Median;  
Restripe Crosswalk

④  
Adjust Signal Heads;  
Update Timing and Phasing

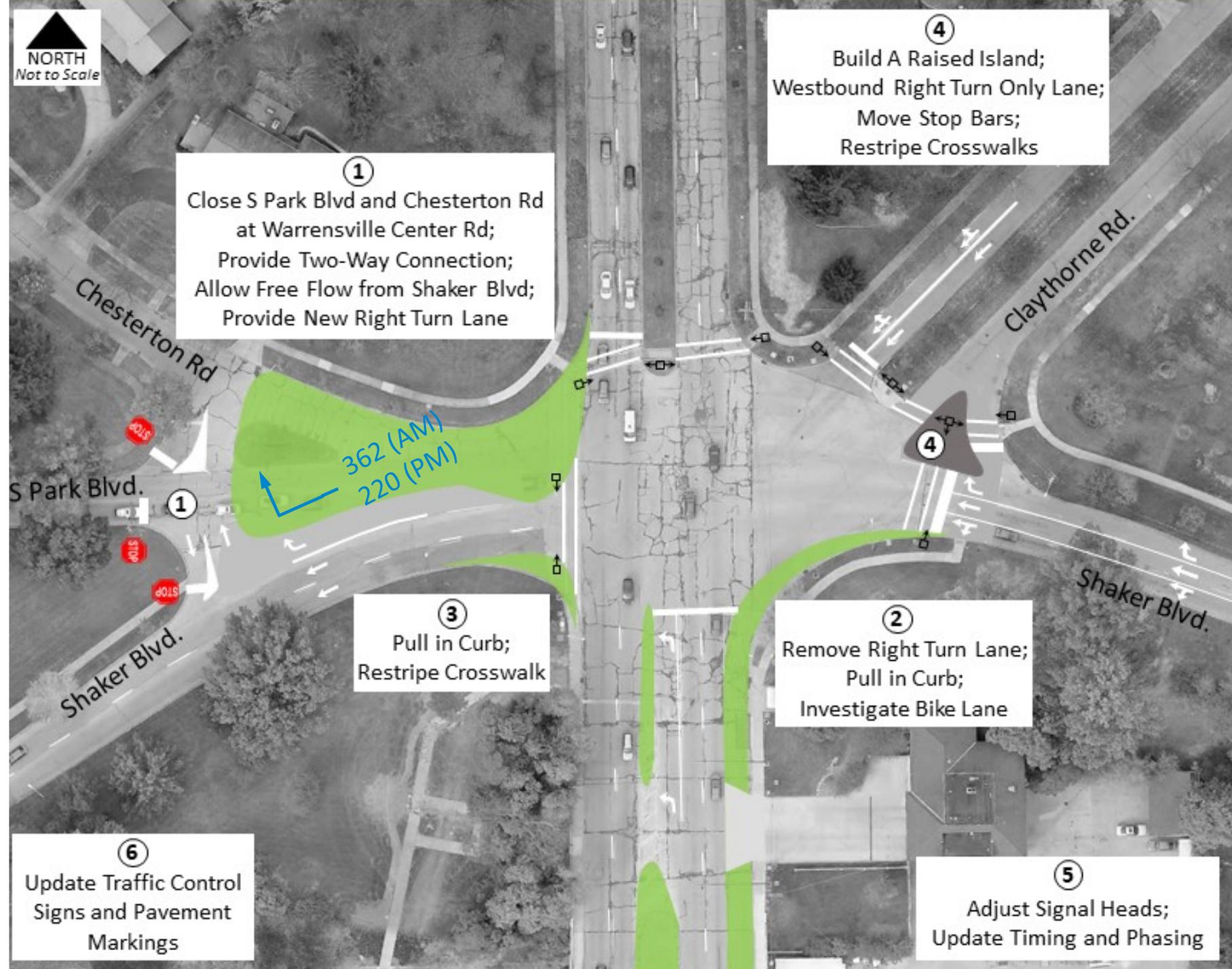
# Proposed Changes Westbound

## Option 1 2-Way Connection



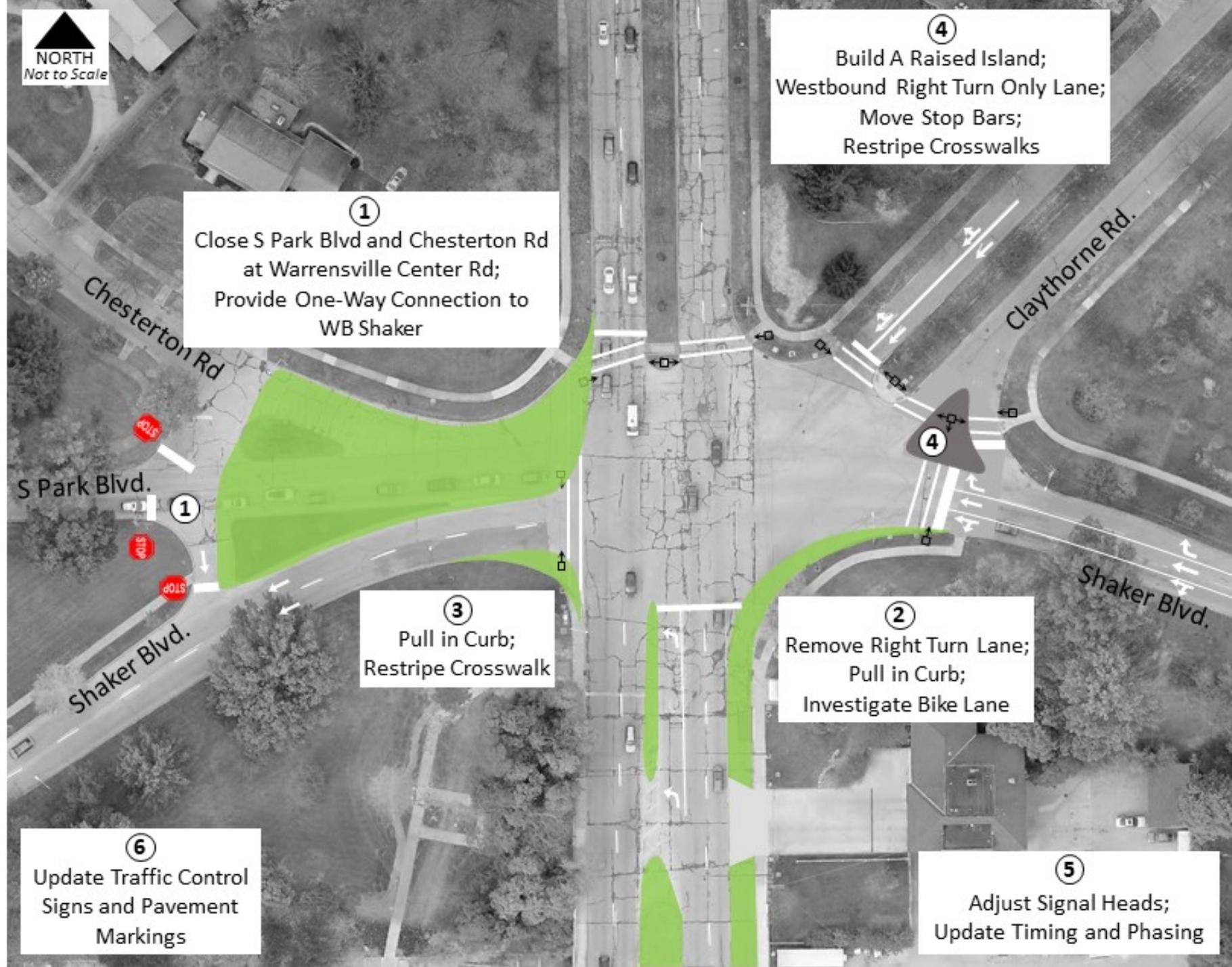
# Proposed Changes Westbound

## Option 2 2-Way Connection with Turn Lane

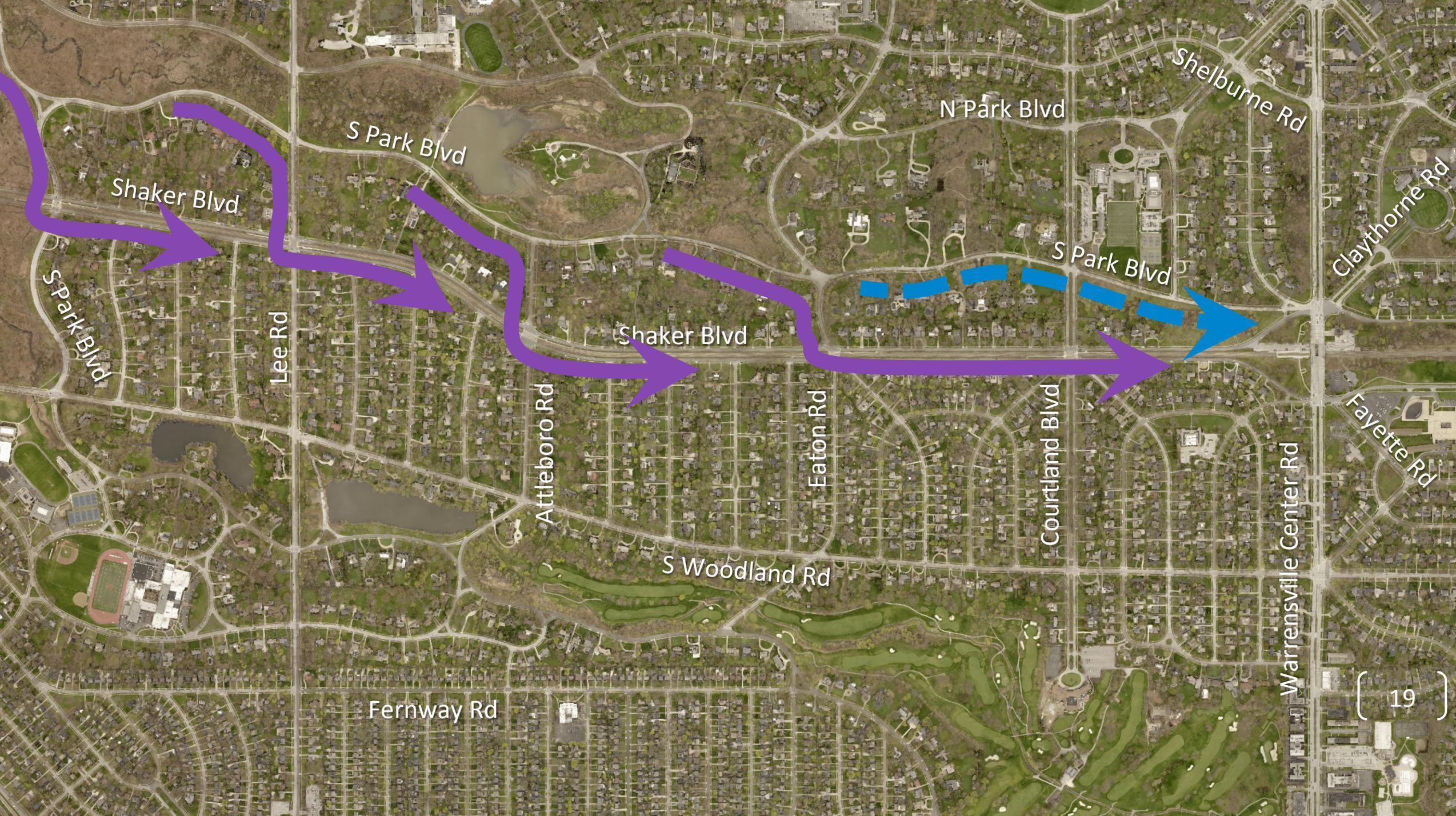


# Proposed Changes Westbound

## Option 3 1-Way Southbound Connection







S Park Blvd

Shaker Blvd

Lee Rd

S Park Blvd

Shaker Blvd

Attleboro Rd

Eaton Rd

Courtland Blvd

N Park Blvd

Shelburne Rd

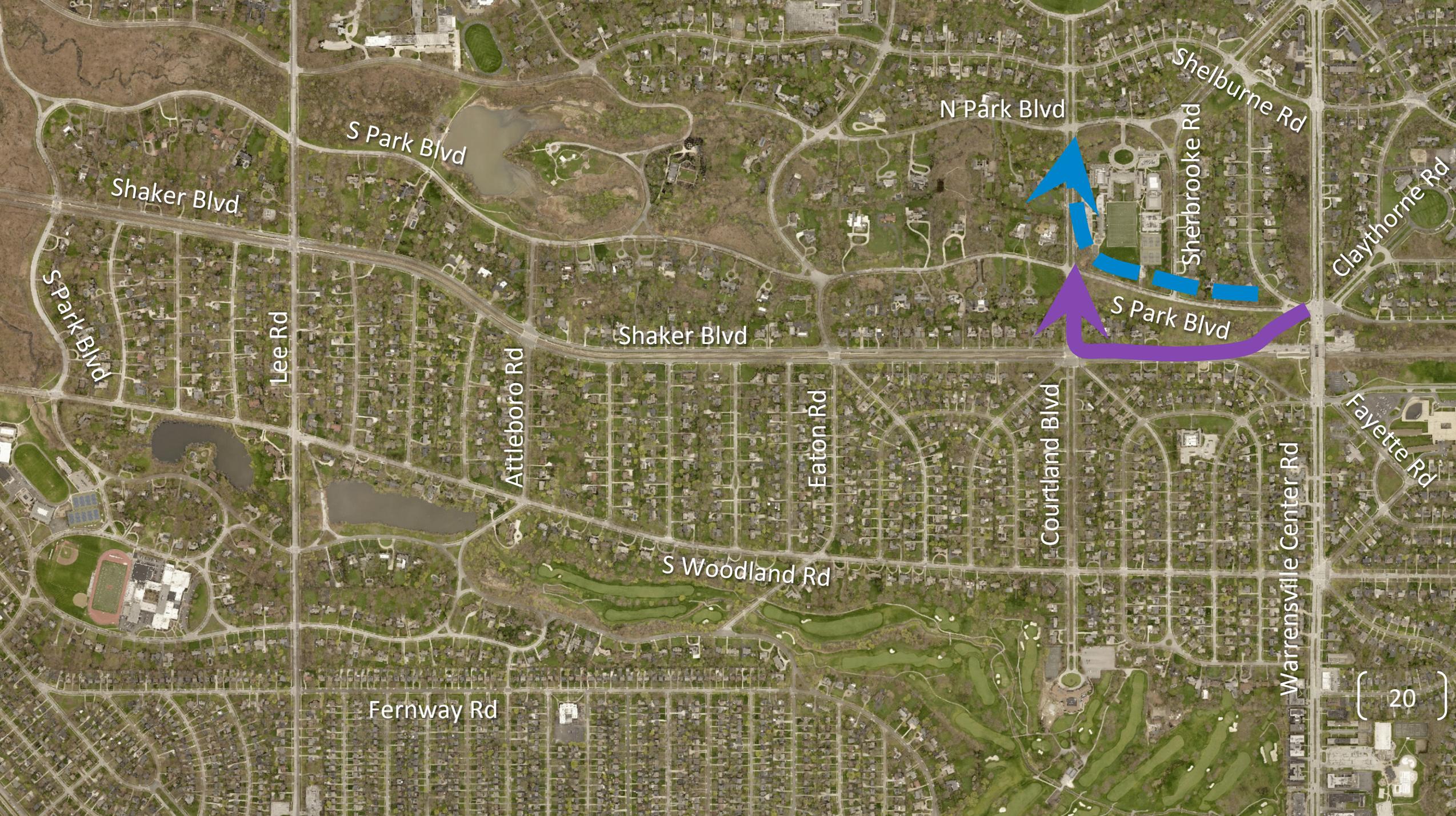
Claythorne Rd

S Woodland Rd

Fernway Rd

Warrensville Center Rd

Fayette Rd



Shaker Blvd

S Park Blvd

Lee Rd

S Park Blvd

Attleboro Rd

Shaker Blvd

Eaton Rd

S Woodland Rd

Fernway Rd

N Park Blvd

Courtland Blvd

S Park Blvd

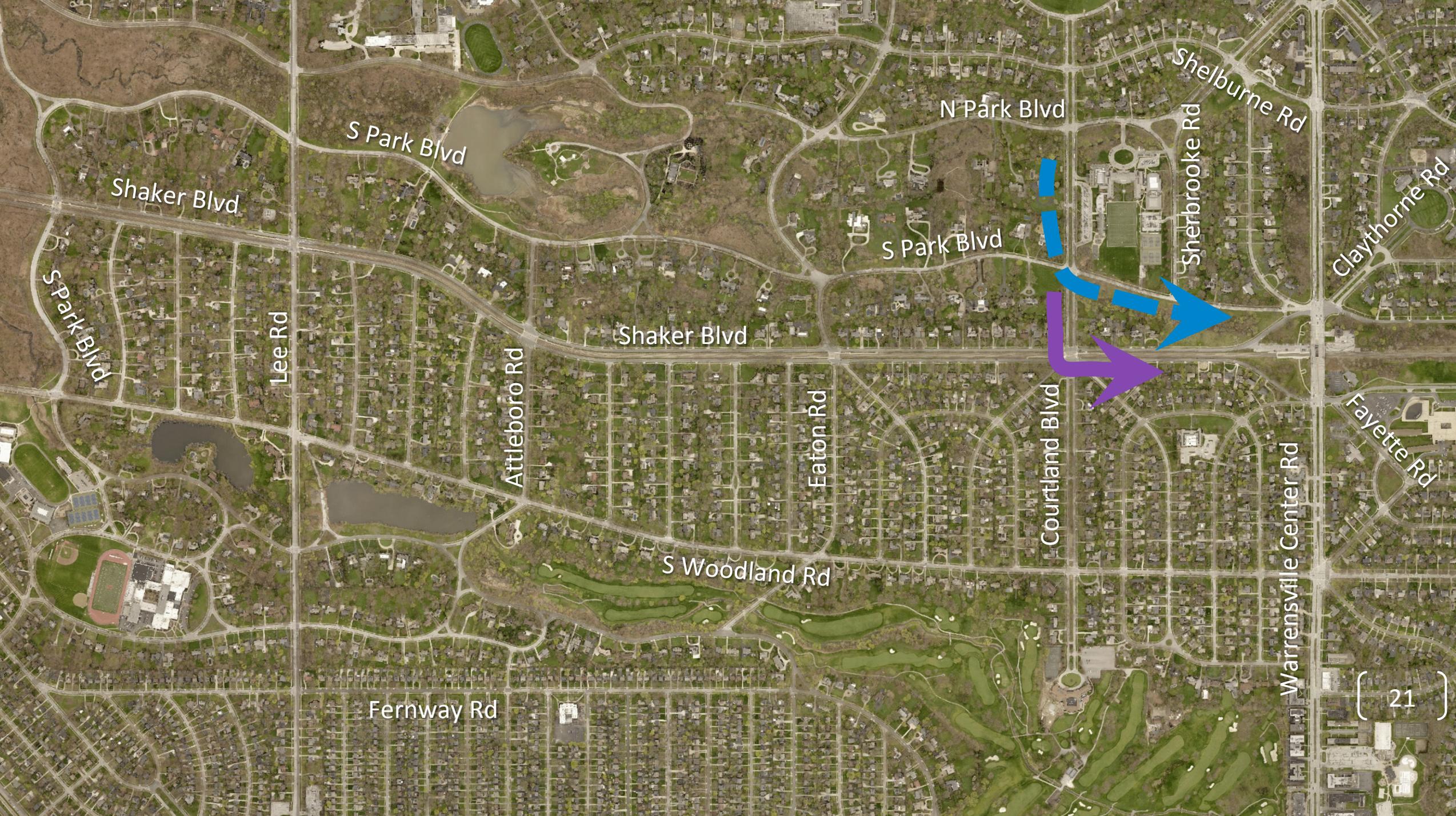
Shelburne Rd

Warrensville Center Rd

Claythorne Rd

Fayette Rd

( 20 )



Shaker Blvd

S Park Blvd

Lee Rd

S Park Blvd

Attleboro Rd

Shaker Blvd

Eaton Rd

S Woodland Rd

Fernway Rd

N Park Blvd

S Park Blvd

Courtland Blvd

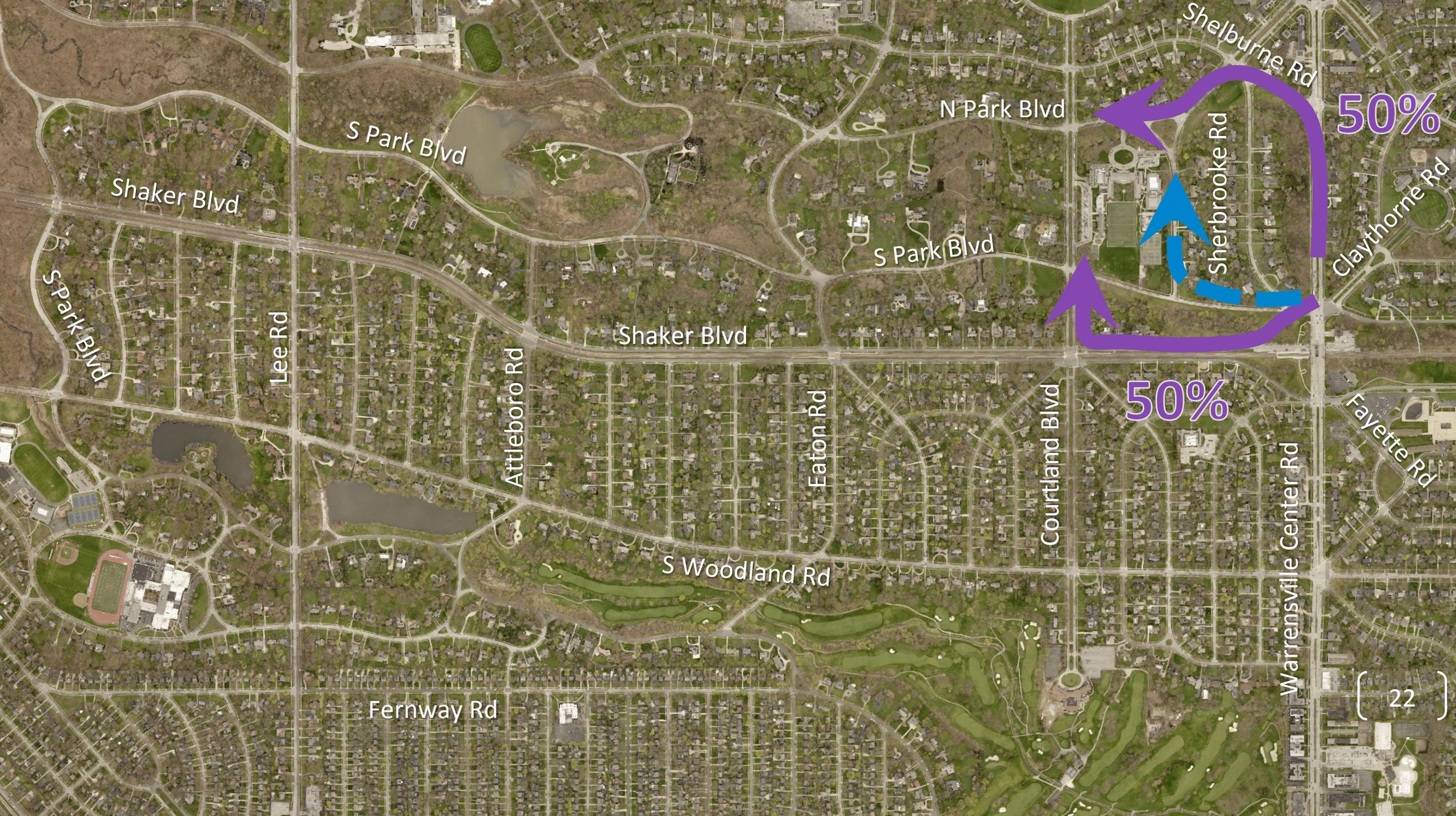
Shelburne Rd

Sherbrooke Rd

Warrensville Center Rd

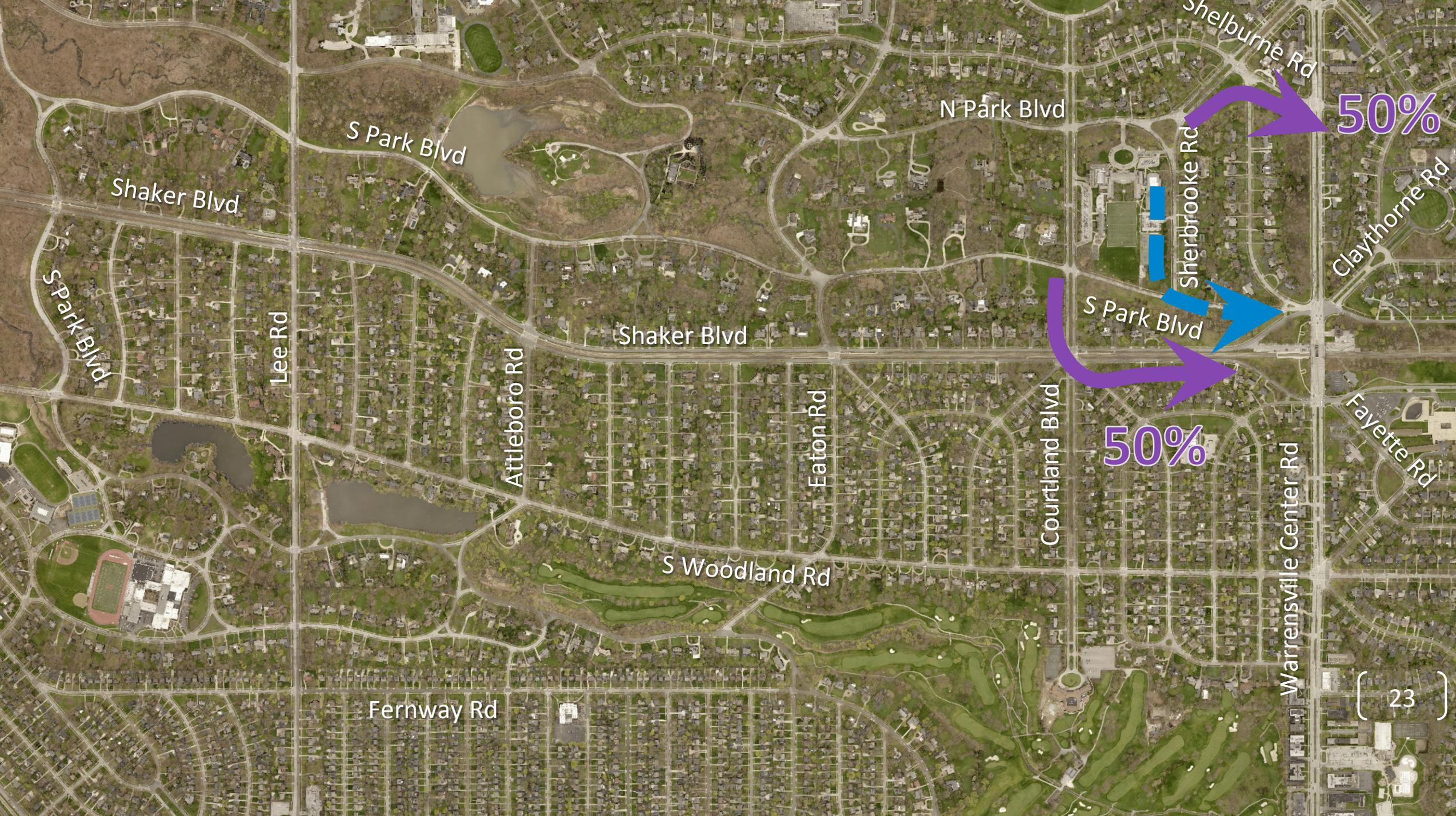
Claythorne Rd

Fayette Rd



50%

50%



Shaker Blvd

S Park Blvd

Lee Rd

S Park Blvd

Shaker Blvd

Attleboro Rd

Eaton Rd

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Fernway Rd

N Park Blvd

Sherbrooke Rd

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Claythorne Rd

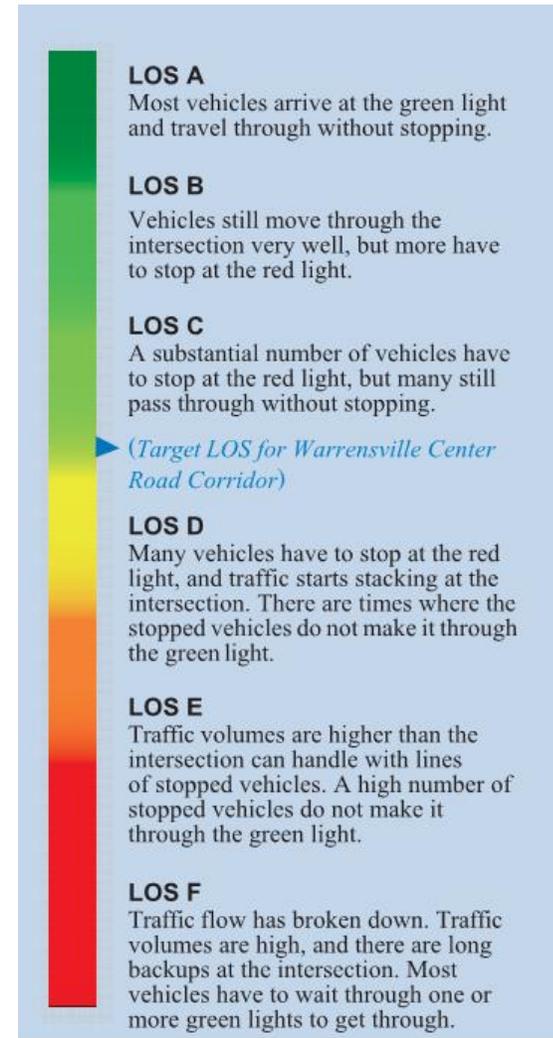
Fayette Rd

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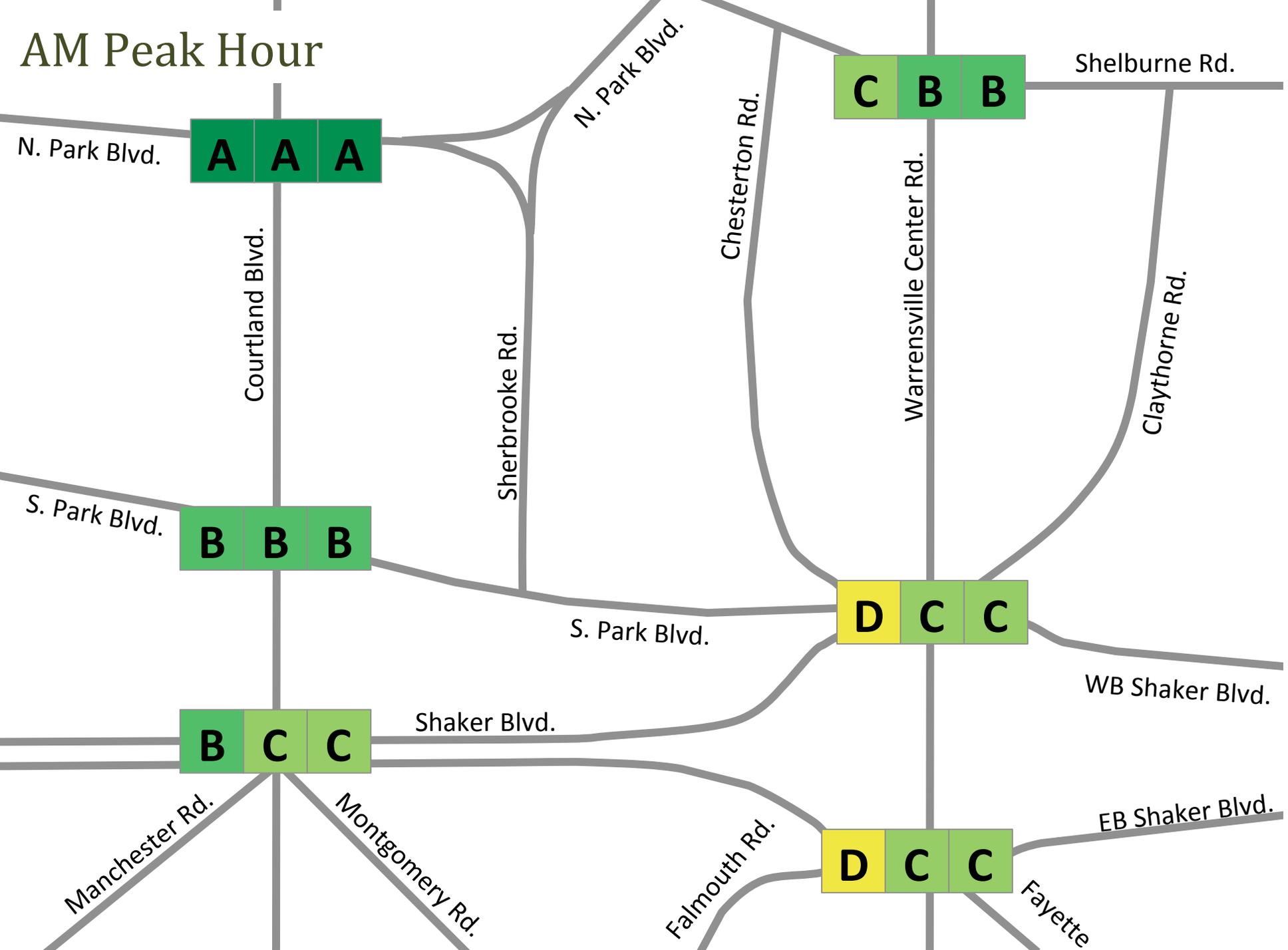
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# How do we measure traffic flow?

- Level of service (LOS D)
- “Grades” traffic congestion on a scale from A to F
- Target = LOS D
- Traffic analysis tools
  - Synchro
  - SimTraffic

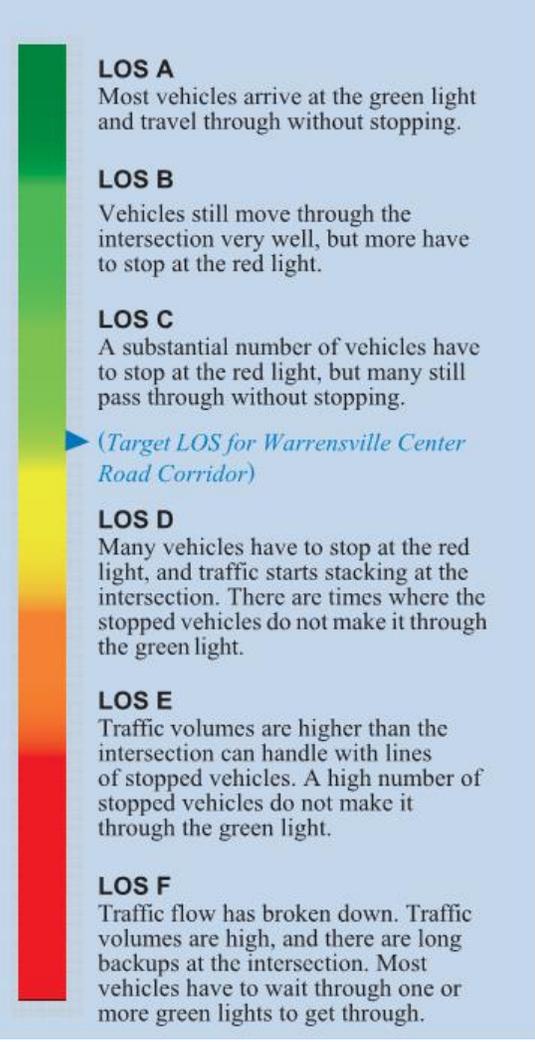


# AM Peak Hour

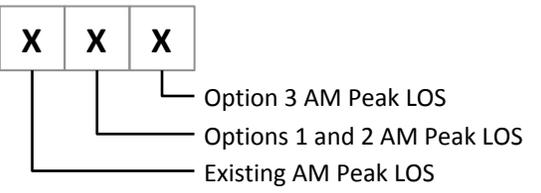


## Levels of Service (LOS)

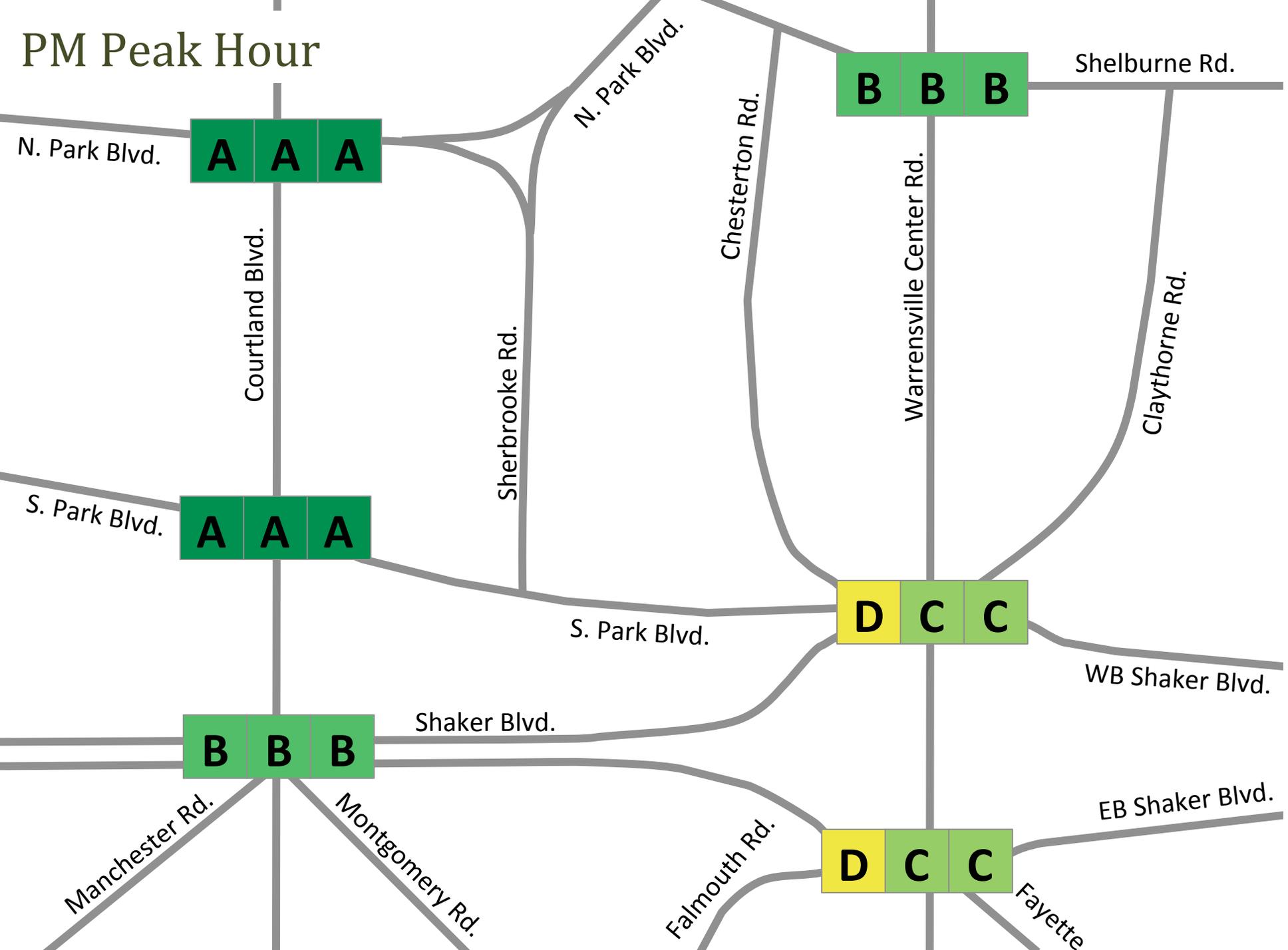
Measure of Traffic Flow



## Legend

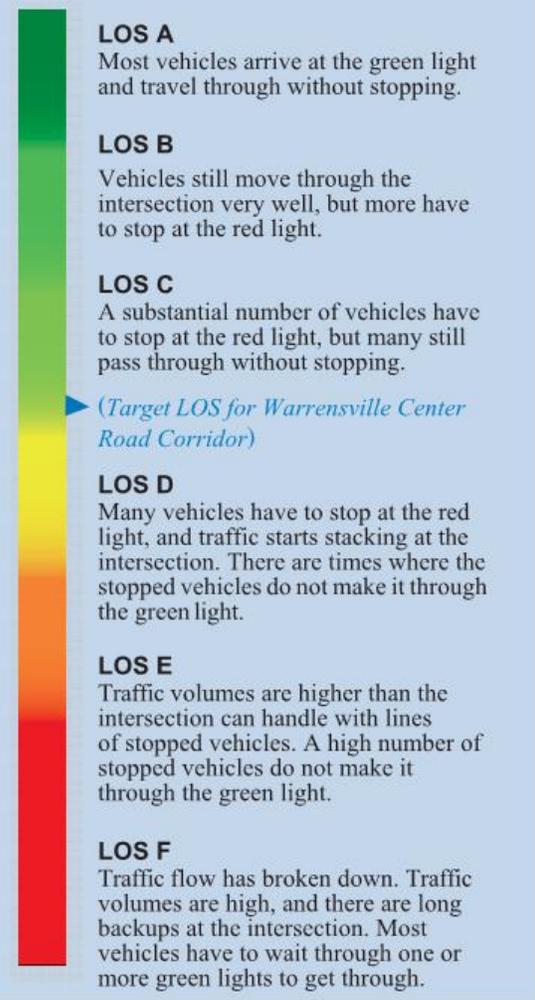


# PM Peak Hour

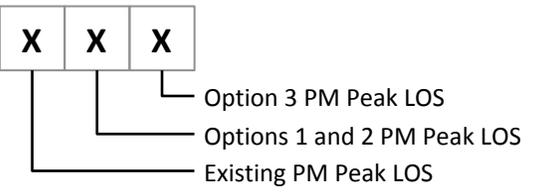


## Levels of Service (LOS)

Measure of Traffic Flow

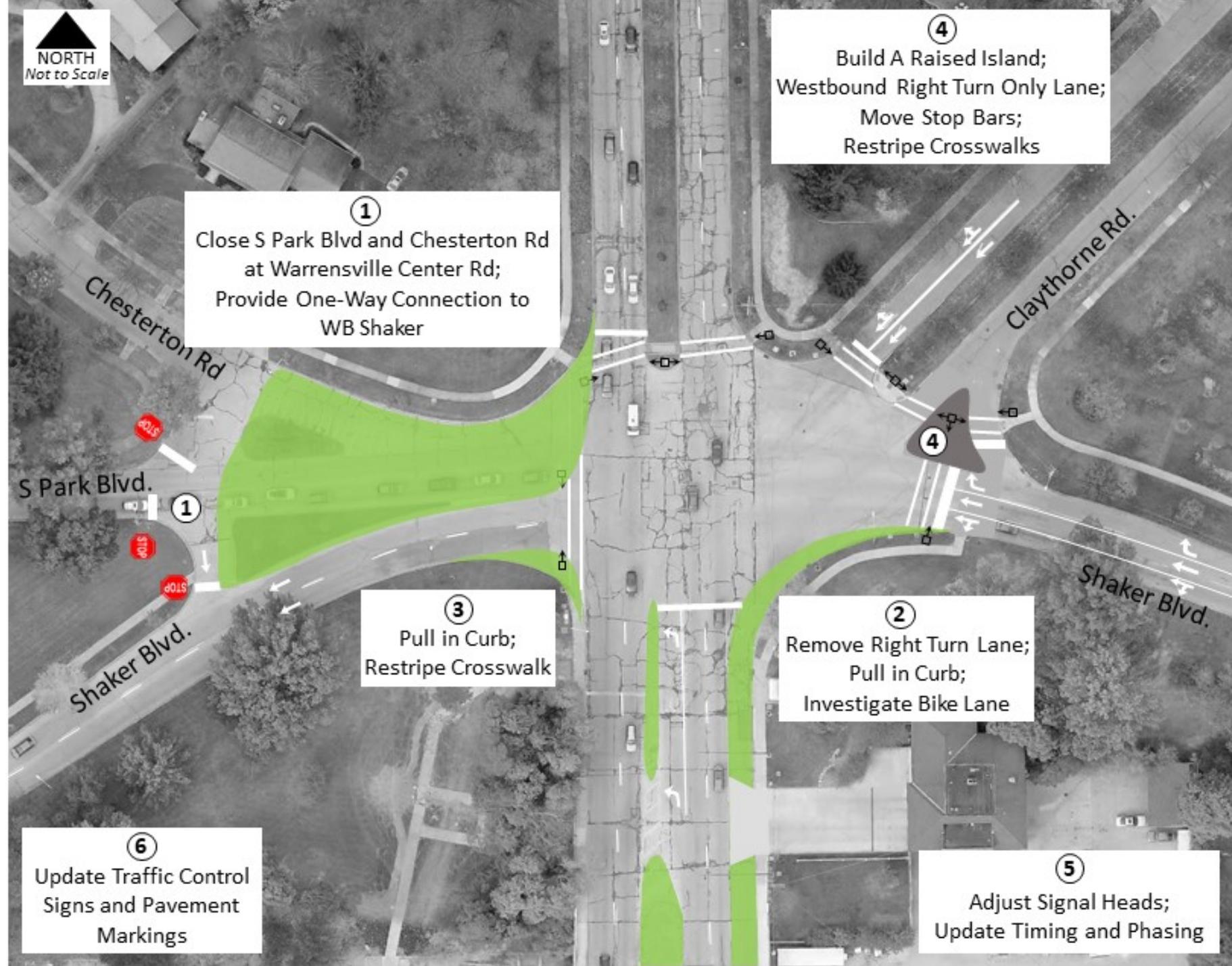


## Legend



# Recommended Changes Westbound

## Option 3 1-Way Southbound Connection



# Next Steps

- Plans due to ODOT for review
- Construction
  
- Timeline of all projects in the area:
  - Dominion gas line replacement projects      Spring 2020
  - Intersection Reconfiguration      Summer / Fall 2020
  - Warrensville Center paving      Spring / Fall 2021
  - County replacement of WCR bridge      2022

# Community Feedback

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