



Knutson Drive Reconstruction

Public Information Meeting
City of Madison Engineering Division
September 28, 2023

Thank you for attending. We will begin shortly...

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Presentation Overview

Thank You for participating!

- ▶ Welcome (Hannah Mohelnitzky, Public Information Officer, City of Madison)
- ▶ Introduction (Alder Charles Myadze, District 18)
- ▶ Presentation (Nashaly Gutierrez Vazquez, Andrew Zwieg P.E.)
- ▶ Q&A (facilitated by Hannah Mohelnitzky)
 - Assisted by:
 - Todd Chojnowski, City of Madison
 - Ali Heinritz, Traffic Engineer, City of Madison
- ▶ Presentation available on the website:
 - www.cityofmadison.com/engineering/projects/knutson-drive-reconstruction

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Rules and Housekeeping Items for this Meeting

- This meeting will be **recorded** and posted to the City's project page.
- All attendees will be **muted** during the presentation.
- Use **“chat”** option if you are having technical issues and a staff person can try to assist.
 - Chat will be disabled once presentation starts.
- After the presentation, participants may ask questions via the “Q&A” option, verbally, or by email.
 - Please use the **“Q&A”** option at the bottom of the screen to type a question.
 - To ask a question verbally, click the **“raise hand”** option at the bottom of your screen and the host will unmute you.
 - Email a question to Ngutierrez@cityofmadison.com



This meeting is being recorded.

It is a public record subject to disclosure.

By continuing to be in the meeting, you are consenting to being recorded and consenting to this record being released to public record requestors.

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How to Participate

The screenshot displays a Zoom meeting interface. At the top, a green banner reads "You are viewing City of Madison's screen" with a "View Options" dropdown. Below this is a shared Microsoft Excel spreadsheet. The spreadsheet has a header row for the years 2019 and 2020, with columns for months from May to August. The name "Sally" is visible in cell A1. A "City of Madison" window is partially visible on the right. In the center, a "Join Audio by Computer" button is highlighted with a blue background and a red arrow pointing to it. At the bottom of the Zoom interface, there is a "Join Audio" button with a headset icon, also highlighted with a red arrow. Other bottom icons include "Q&A", "Chat", and "Raise Hand". A "Leave Webinar" button is in the bottom right corner.

↑ Join audio to ensure you will be able to hear the speaker

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How to Participate

The screenshot displays a Zoom meeting interface. At the top, a green banner reads "You are viewing City of Madison's screen" with a "View Options" dropdown. Below this is a shared Microsoft Excel spreadsheet. The spreadsheet's active cell is A15, containing the value "32064". The spreadsheet shows a calendar layout for the years 2019 and 2020, with the name "Sally" in cell A1. The Zoom interface includes a "Recording" indicator in the top left, a "City of Madison" window title, and a "Join Audio by Computer" button highlighted in blue. At the bottom of the Zoom window, there are icons for "Join Audio", "Q&A", "Chat", and "Raise Hand". A red arrow points to the "Raise Hand" icon.

Raise your hand to be unmuted and ask questions after the meeting



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Use Q/A if you have questions 
We will answer after the presentation

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How to Participate

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To leave the meeting click here

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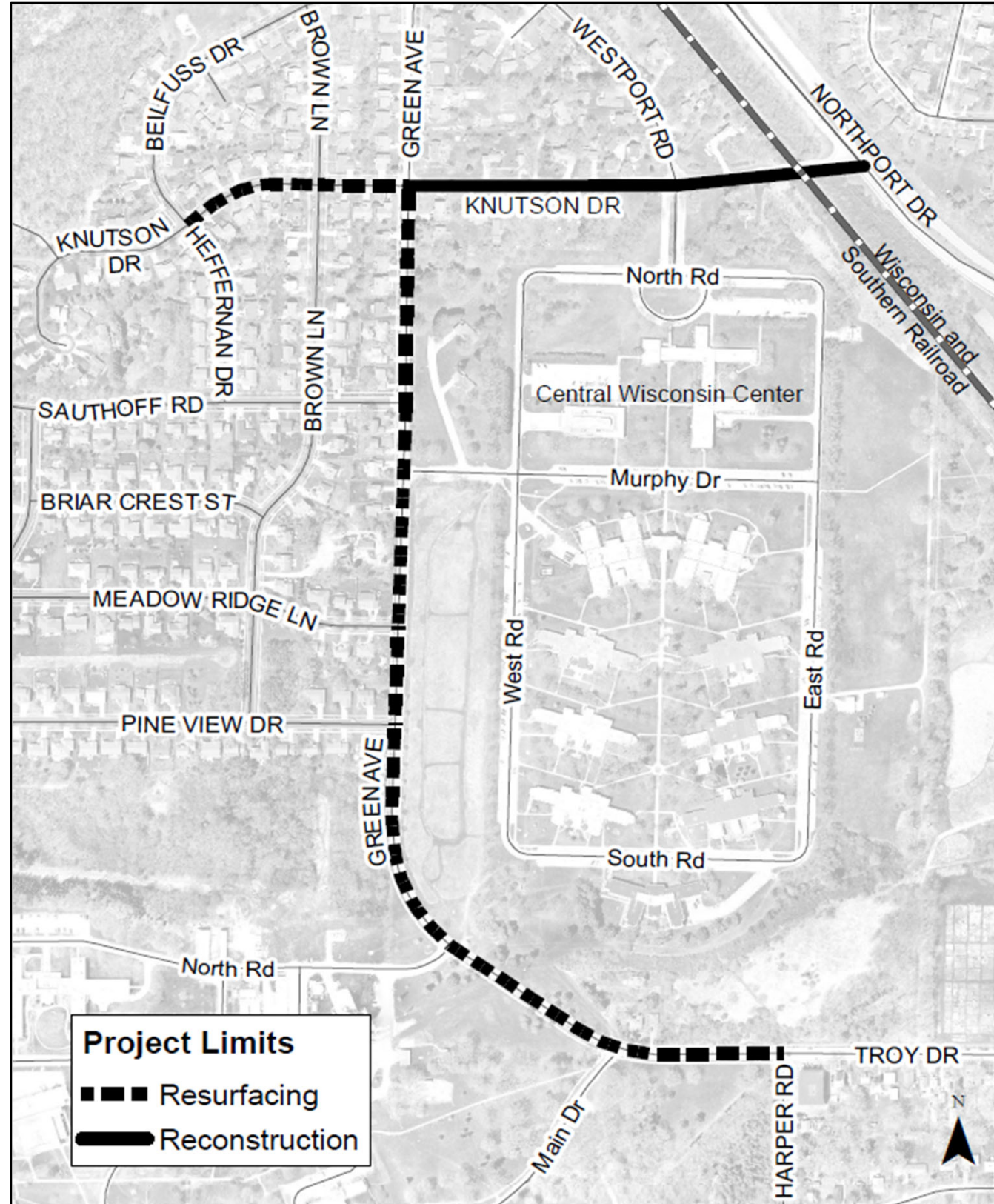


Presentation Overview

- ▶ **Project Location**
- ▶ Meeting Purpose
- ▶ Project Scope
- ▶ Vision Zero
- ▶ Complete Green Streets
- ▶ Stormwater Requirements
- ▶ Questionnaire Results
- ▶ Existing Conditions
- ▶ Forestry
- ▶ Speed Study
- ▶ Parking Study
- ▶ Construction & Access
- ▶ Next Steps
- ▶ Contact Information, Resources, Q&A



Project Location



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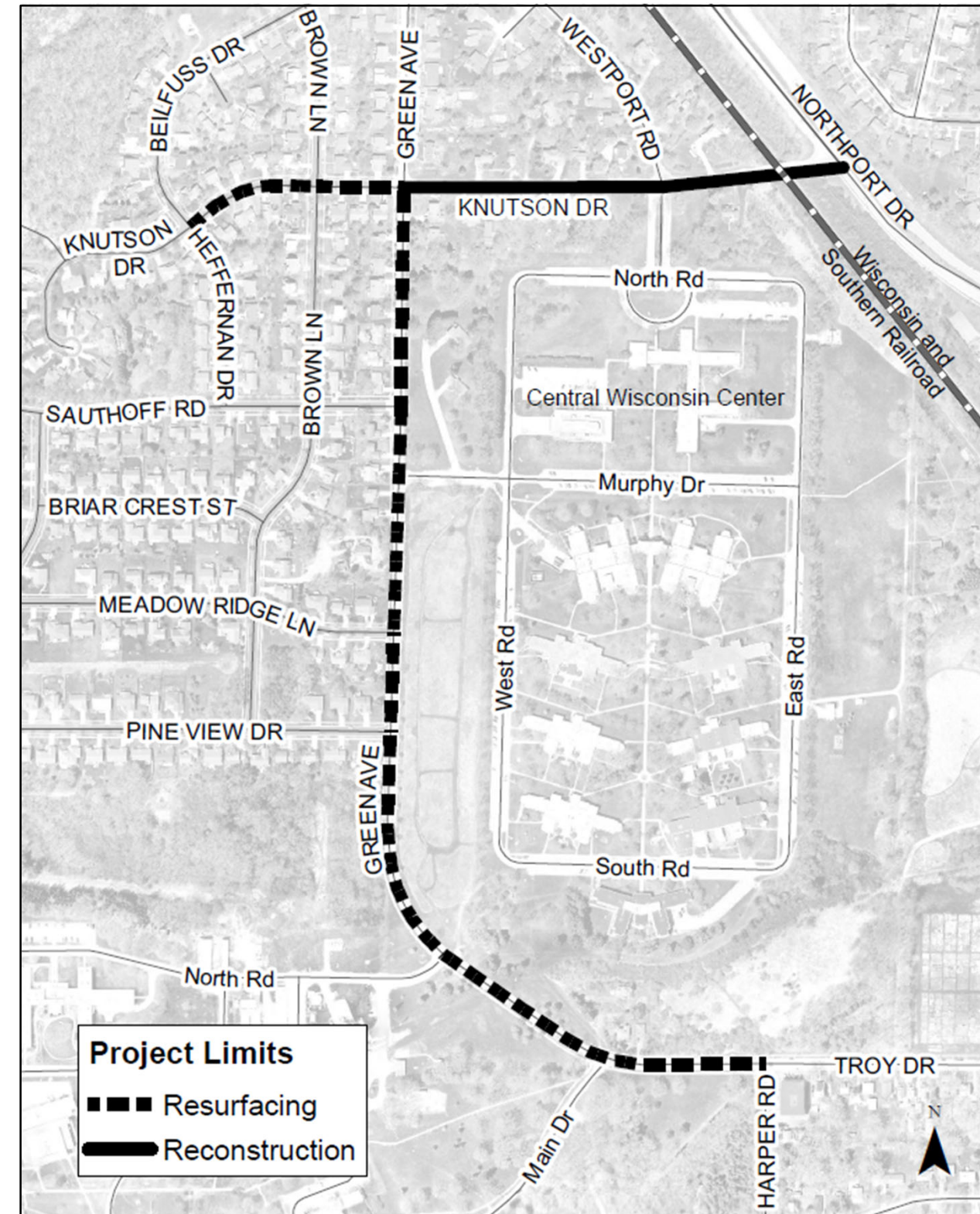
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Meeting Purpose

- ▶ To gain public feedback regarding the upcoming construction project
- ▶ Learn about public concerns involving transportation
- ▶ Learn about how the public moves about the neighborhood
- ▶ Help the design team formulate street use options for a second public meeting
- ▶ Remind the public to fill-out the online questionnaire



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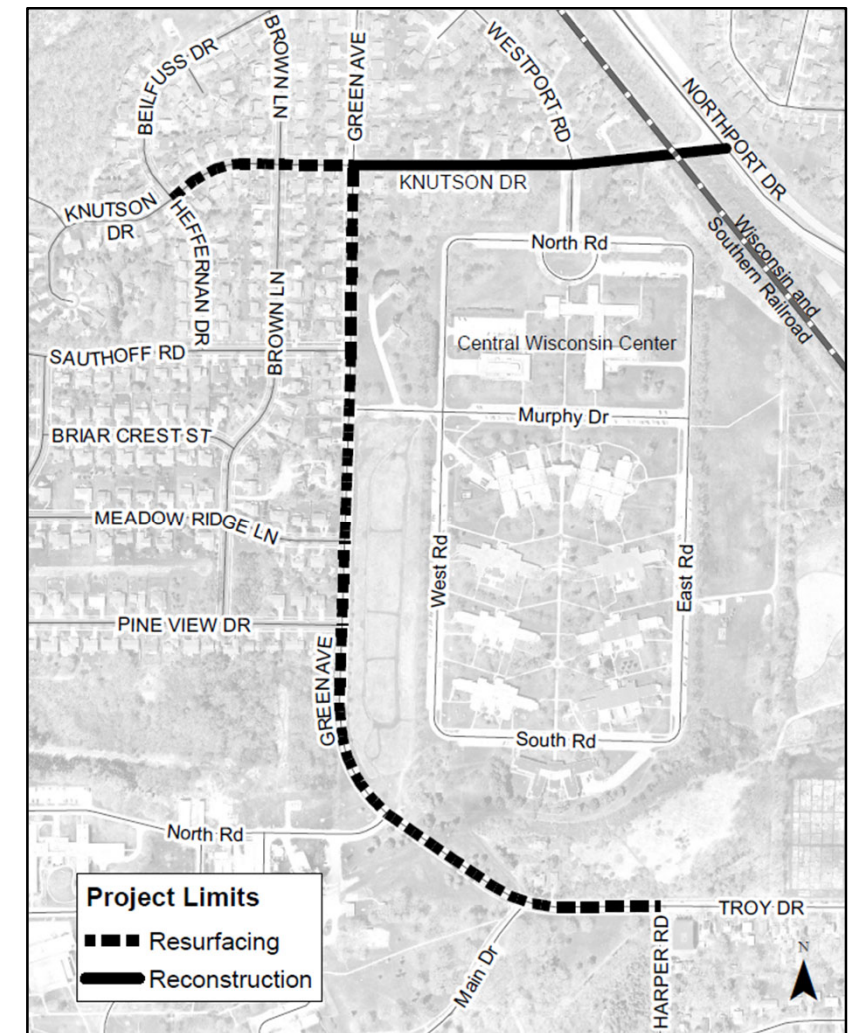
Project Scope

▶ Street reconstruction

- Knutson Drive (Green Avenue to Northport Drive)
- Street design will include: curb & gutter, sidewalk, and drive aprons
- Sanitary sewer and water will remain
- Storm sewer and stormwater features will be added
- Replacement of asphalt pavement and gravel base
- Existing street lighting to remain

▶ Street resurfacing

- Knutson Drive (Heffernan Drive/Beilfuss Drive to Green Avenue)
 - Installation of storm sewer
 - Full replacement of asphalt pavement only
 - Gravel base to remain
 - Existing curb and gutter and sidewalk to remain
- Green Avenue (Knutson Drive to Harper Road)
 - Partial replacement of asphalt pavement only
 - Remove/replace 2-inches



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VISION ZERO MADISON

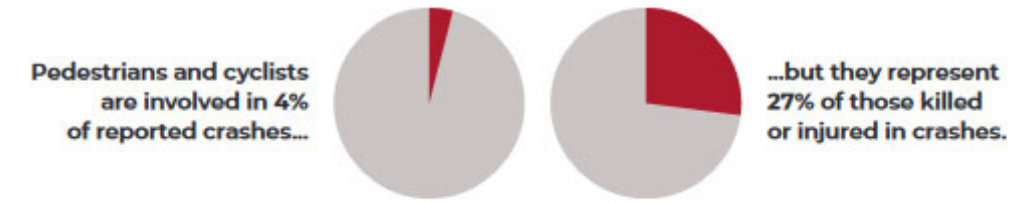


ACTION PLAN
2020 - 2035

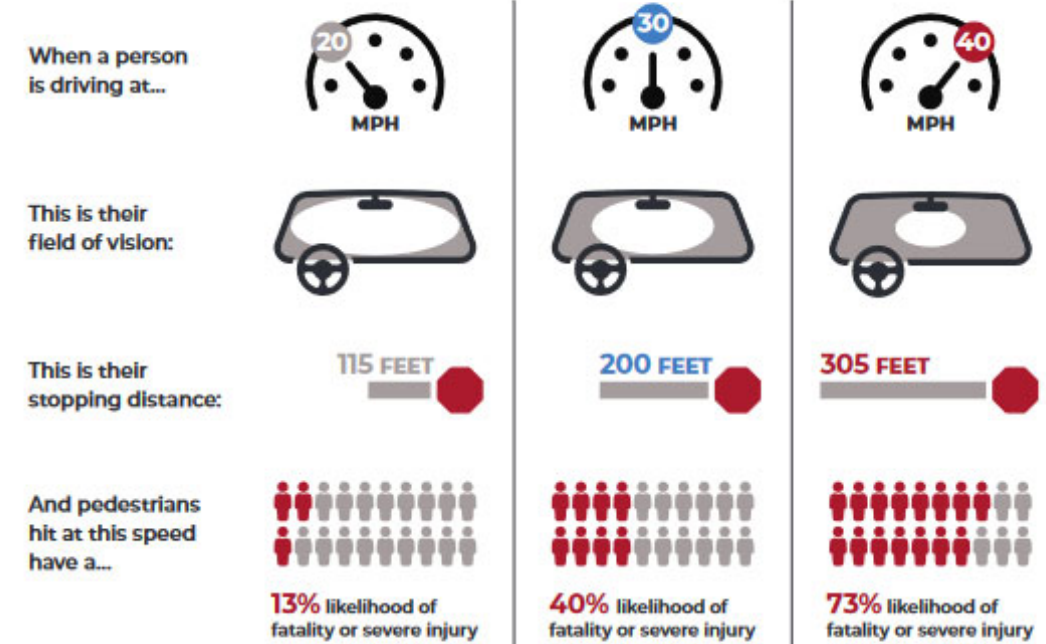
Why Vision Zero?

Vision Zero is a strategy to eliminate all traffic fatalities and severe injuries, while increasing safe, healthy, equitable mobility for all. First implemented in Sweden in the 1990s, Vision Zero has proven successful across Europe and now it's gaining momentum in major American cities.

Pedestrians and Cyclists are Disproportionately Represented in Injuries and Fatalities



Controlling Speed is a Key Factor in Vision Zero



Concept and data: **TOOLE**
Toole Design Group, LLC **DESIGN**



Vision Zero

- ▶ Intends to eliminate traffic deaths and severe injuries on City streets by 2035
- ▶ Increase safe, healthy, equitable mobility for all ages and abilities
- ▶ Knutson Drive is not on a High Injury Network
- ▶ Knutson Drive - no walking or bike facilities
- ▶ Metro Transit local route
 - Marion Road (Central Wisconsin Center) to Northport Drive
 - Route will be revised after project
 - Green Avenue to Knutson Drive to Northport Drive
- ▶ Future Bus Rapid Transit (BRT) route
 - High-quality, fast, and cost effective bus route
 - Green Avenue Northport Drive
 - Metro local route will be removed
- ▶ Project Goal
 - Add curb, sidewalk, and pedestrian crossings



Vision Zero

▶ Green Avenue

- Bike network for local roadway/ connecting through route
- Pedestrian network on one side of the street until Troy Drive and Harper Road segment
- Transit priority network with 15 minutes bus headway going through Murphy Drive
- Not in the High Injury Network

▶ Knutson Drive

- Pedestrian network with side walk on each side and crossroad with access to pedestrian and disable
- There is no bike and transit network
- Not in the High Injury Network



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City of Madison

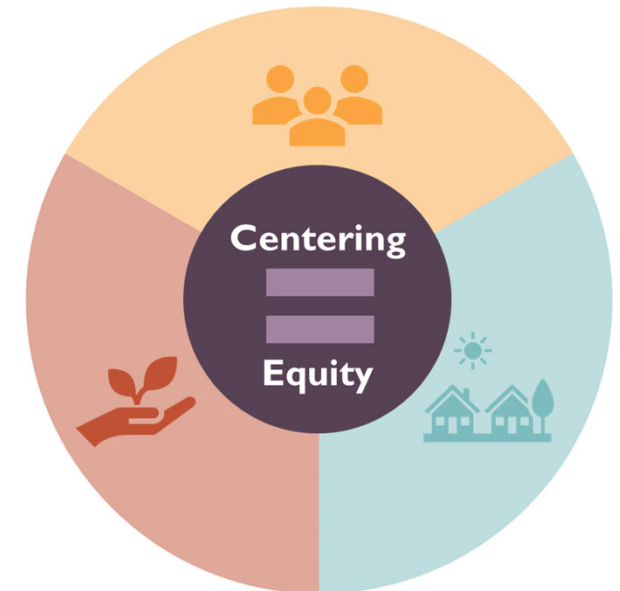
Complete Green Streets Guide

Approved January 6, 2023



STREET VALUES

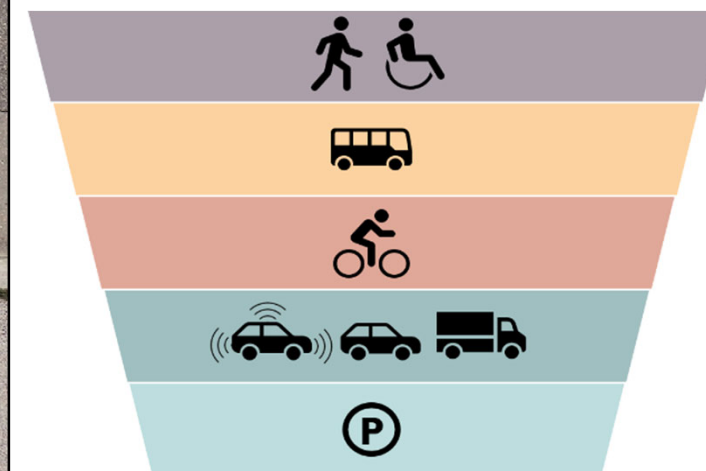
Putting People First



Fostering Sustainability

Supporting Community

MODAL HIERARCHY



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Principles of Complete Green Streets

- Streets are for everyone, no matter who they are or how they travel.
- There is no one design but instead each design considers the specific context of the neighborhood and street.
- Streets are designed and operated to prioritize safety, comfort and access for all users.
- Green infrastructure integrates sustainability in the right of way to help our City be more resilient and helps provide a welcoming public place.

CITYOFMADISON.COM/TRANSPORTATION/INITIATIVES/COMPLETE-GREEN-STREETS

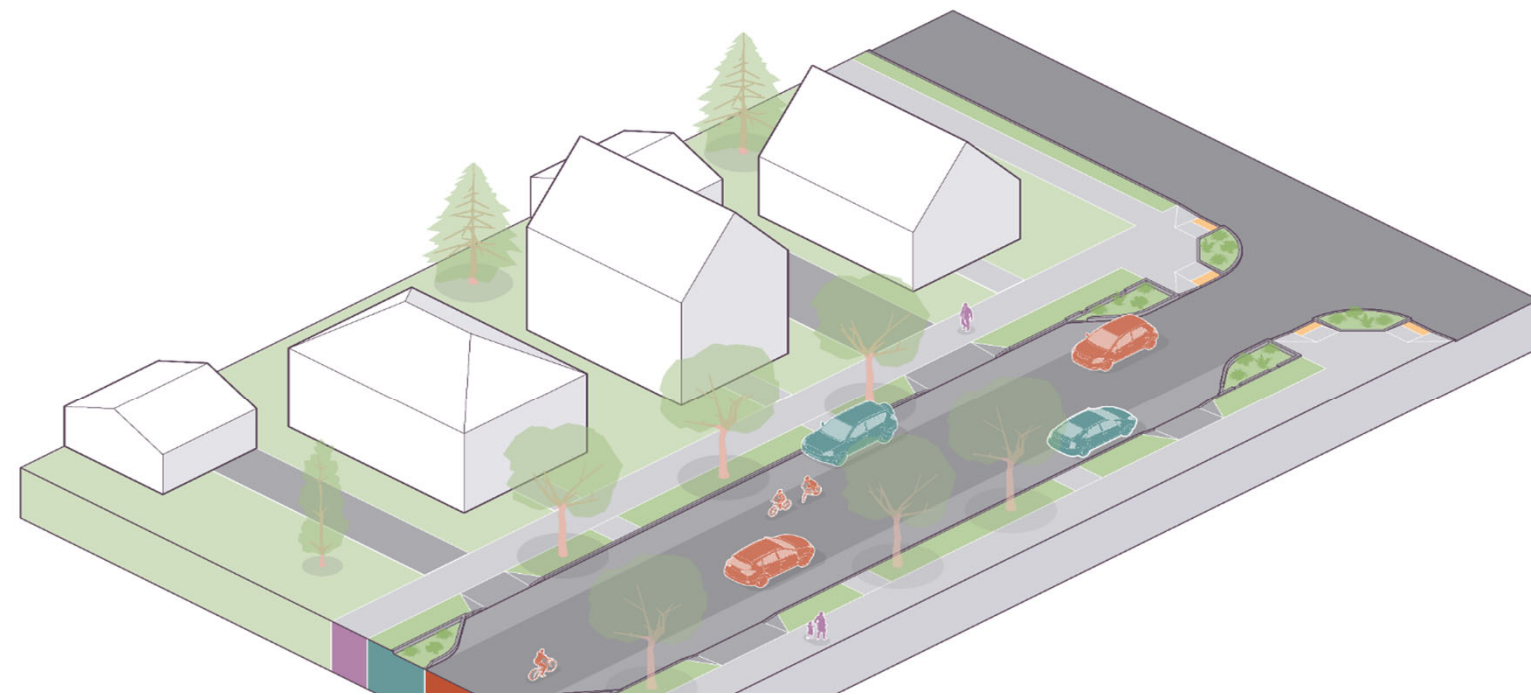
COMPLETE GREEN STREETS – STREET TYPE

Neighborhood Street

Context: Residential neighborhood

Description: Wider neighborhood streets. Includes some higher-traffic streets and transit routes that should be designed to prioritize neighborhood quality of life. Allows two drivers to pass each other without stopping.

Target Speed: 20 mph or less



Zone Priorities and Preferred Elements for Each Zone

Walkway High Priority	Flex Zone Medium Priority	Travelway Low Priority ¹	Additional Considerations
Standard sidewalks, with landscaping between the sidewalk and homes or buildings. May shift closer to or farther from the street to avoid impacting canopy trees.	Landscaped terrace with street trees. May straddle the walkway when the walkway is close to the street to avoid impacting existing canopy trees. On-street parking on one or both sides common.	Two-way travel without lane markings. No dedicated bikeway unless traffic volumes are above 3,000 ADT.	Speed management, parking demand to determine type and amount of on-street parking.



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Stormwater Requirements

- ▶ What is Stormwater?
 - Rain and melting snow that flows off street, house rooftops, driveways, and lawns
- ▶ Treating stormwater is a requirement for the reconstruction project
 - WDNR requires treatment for rural to urban street changes
 - Possible installation of terrace bioretention basins
 - Maintained by City
 - Underdrain installed
 - Connected to storm sewer
 - Capture sediment and pollutants coming from the street
 - WDNR goal for the project is 40% reduction in sediment
 - Possible installation of terrace rain gardens
 - Maintained by property owner
 - No underdrain installed



Stormwater Requirements – Terrace Rain Gardens



terrace rain garden

- ▶ Collect the stormwater runoff from the road
- ▶ 1 foot deep (from top of the curb)
- ▶ Constructed and planted by the city
 - Use native vegetation
- ▶ Maintenance is done by the residents
 - Guides are available
- ▶ \$100 cost to residents
 - City pays \$3,000 for construction and planting

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Learn more at: www.cityofmadison.com/TerraceRainGardens



Stormwater Requirements – Terrace Rain Gardens

▶ Stormwater management:

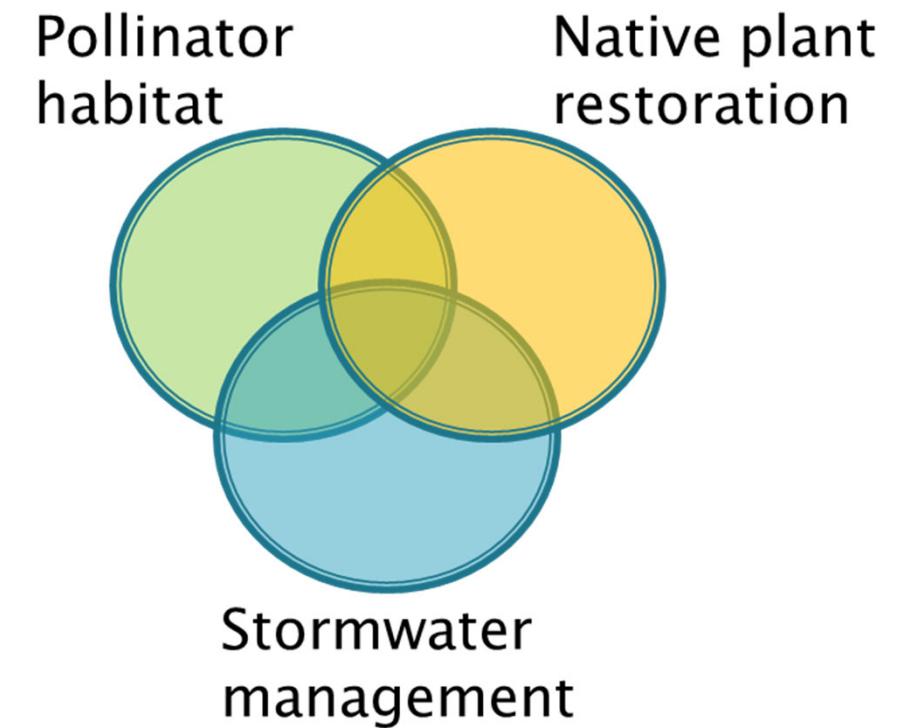
- Helps infiltrate stormwater into the ground instead of going to the sewers, and then the lake
- Helps minimized flooding
- Best option for ground water recharge

▶ Pollinator habitat:

- The natives plants can provide food and nesting space
- Flowers throughout the summer

▶ Native plant restoration:

- Showcase the native plants of Wisconsin
- A fraction of original prairie remains in Wisconsin



Gardens can be interesting and a place for art. These fish start a lot of conversations.

Stormwater Requirements – Terrace Rain Gardens

▶ Criteria

- Terrace (area between curb & sidewalk) must be at least 10 feet wide
- At least be 15 feet long
- Trees to be at least 10 feet from edge of the rain garden
- Driveways and sidewalk ramps need to be at least 3 feet from edge of rain garden
- Needs to overflow back into the curb, away from the sidewalk/house
- Terraces cannot be too steep (in any direction)

Terrace Rain Garden

- ▶ Interested?
- ▶ City will determine whether or not your terrace is suitable
- ▶ If you didn't indicate interest on the survey please contact Phil Gaebler directly
 - Email: PGaebler@cityofmadison.com
 - Phone: 608-266-4059



terrace rain garden

- ▶ You can learn more at: www.cityofmadison.com/TerraceRainGardens

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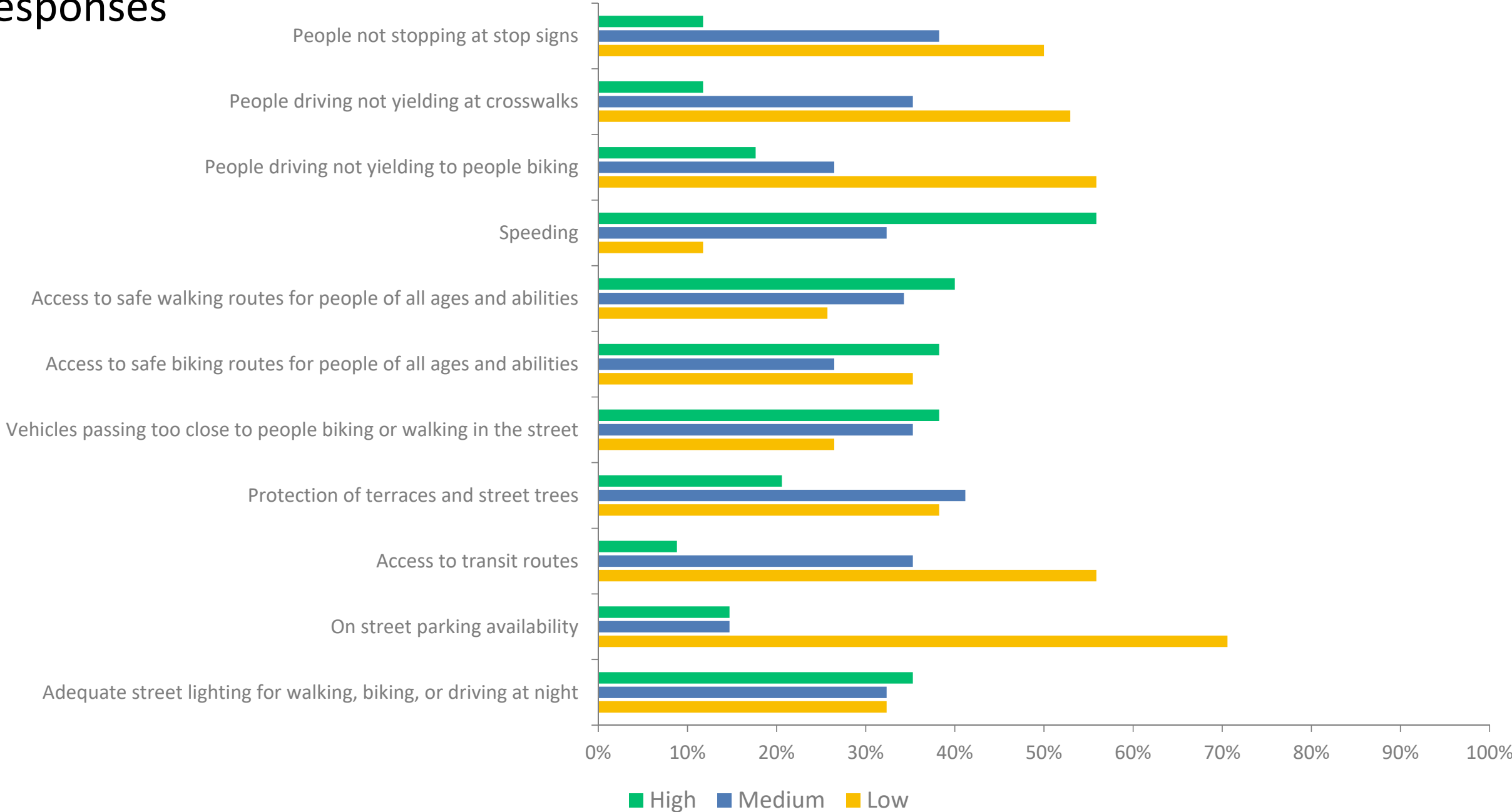
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Questionnaire Results

- ▶ Transportation concerns - low, moderate or high

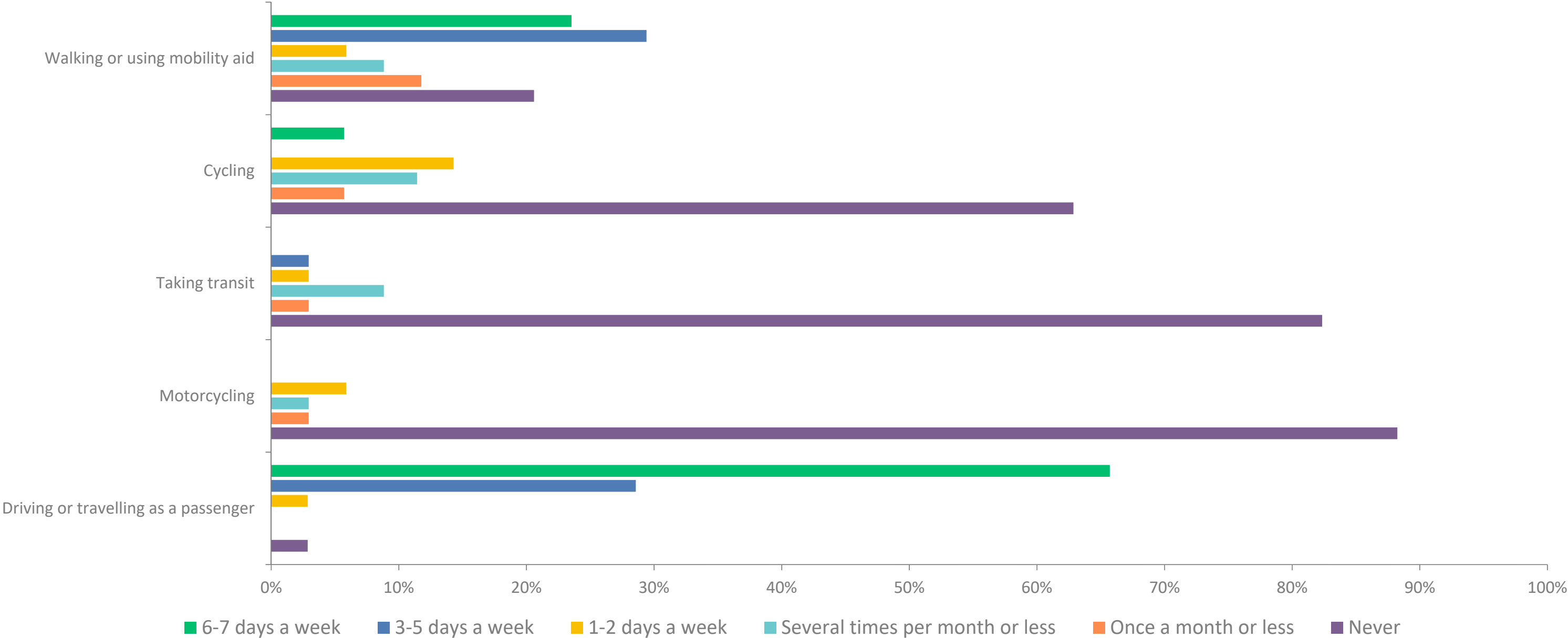
 - 35 responses



Questionnaire Results

▶ Transportation modes

○ 35 responses



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Existing Conditions – Knutson Drive

Item	Existing Condition (Green Ave - Westport Rd)
Last Surfaced	1961
Pavement Surface Evaluation & Rating	4/10 – structural improvement required, over 50% of pavement is cracked & deteriorated
Curb Rating	None
Width	20'
Surface	Asphalt
Sidewalk	None
Sanitary	8" PVC 1985 – located in terrace
Water	10" Cast Iron 1961 – located in terrace
Storm	None (existing ditches)



Existing Conditions– Knutson Drive



Knutson at Green



Knutson looking west
toward Green



Knutson looking east toward Green

Existing Conditions – Knutson Drive

Item	Existing Conditions (Westport Rd - Northport Dr)
Last Surfaced	1960
Pavement Surface Evaluation & Rating	5/10 – structural improvement required, over 50% of pavement is cracked & deteriorated
Curb Rating	Partial between bridge & Northport Dr
Width	22'
Surface	Asphalt
Sidewalk	Partial along bridge & Northport Dr
Sanitary	8" PVC 1985 – located in terrace
Water	10" Cast Iron 1961 & CIPP lined steel 2015 – located in terrace & attached to bridge
Storm	None (existing ditches)



Existing Conditions – Knutson Drive



Knutson looking east toward Northport



Knutson at Northport



Knutson looking east toward Northport

Pedestrian Network



Pedestrian Network

Transition Point Accessibility

- Curb Cut, Accessible
- No Curb Cut, Accessible
- Driveway Apron, Accessible
- ⊗ Inaccessible

Sidewalk

- Sidewalk
- - Crosswalk
- Pedestrian Path
- Municipal Lot
- Hiking



Bicycle Network



Bicycle Network

Roads w/ Paved Shoulders

Roads w/o Shoulders

Local Roadway / Connecting Through Route

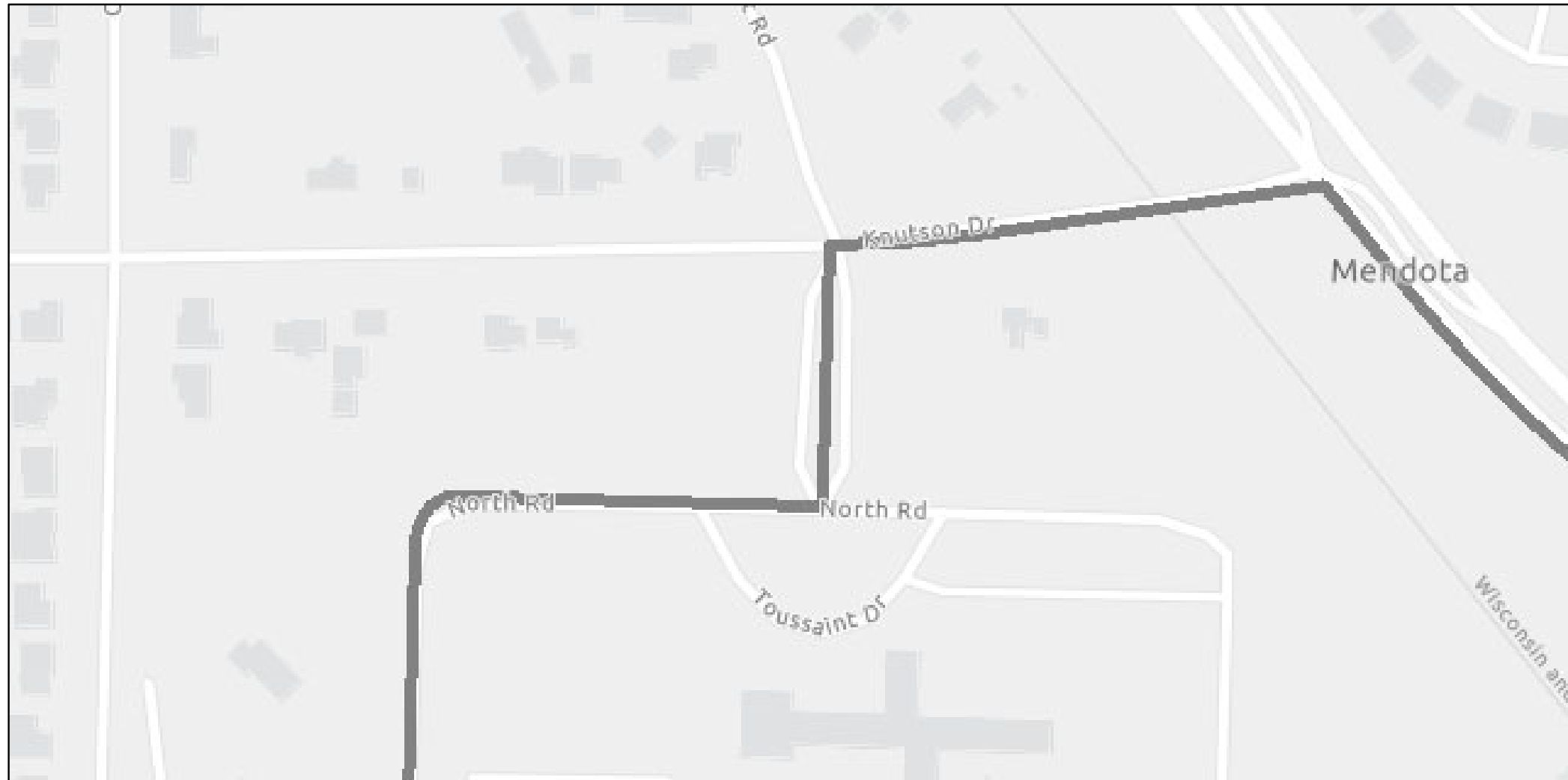
— Roadways Least Suitable

— Roadways May be Suitable

—



Transit Network



Transit Network

Metro Transit Routes

— Service Limited / Weekends Only

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Existing Conditions – Knutson Drive

Item	Existing Conditions (Heffernan Dr - Green Ave)
Last Surfaced	1990
Pavement Surface Evaluation & Rating	7/10
Curb Rating	8/10
Width	32'
Surface	70-Hot Mix Asphalt
Sidewalk	Both sides with access to pedestrian and disable
Sanitary	8" PVC 1990
Water	10" Ductile Iron 1990
Storm	HDPE 2018 & RCP 1990



Existing Conditions – Green Avenue

Item	Existing Conditions (Knutson Dr – Harper Rd)
Last Surfaced	1995-2003
Pavement Surface Evaluation & Rating	3-8/10
Curb Rating	7-8/10
Width	32,36,40
Surface	70-Hot Mix Asphalt
Sidewalk	One side until Troy Dr; after are both sides
Sanitary	8" PVC 1985/1989, 6" DI 1985, 10" CI 1934
Water	10" Cast Iron 1966 & Ductile Iron 1972/1995
Storm	RCP 1996



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- ▶ Speed Study
- ▶ Parking Study
- ▶ Construction & Access
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Forestry Information

- ▶ City Engineering has reviewed the project with City Forestry & a Forestry representative will work with the City design team, City Construction Inspector, and Contractor during construction
- ▶ Trees within right-of-way:
 - Norway Maple – 3
 - Hackberry – 1
 - Elm – 1
 - Horsechestnut – 1
- ▶ Tree priority score
 - 98 tree equity score, <https://www.treeequityscore.org/>
 - 46% canopy cover
 - Planting new trees
 - Low priority
 - Maintaining existing trees
 - High priority
- ▶ Shrubs within Right-of-Way potentially removed



Forestry Information



Knutson looking west toward Green



Knutson looking east
Westport



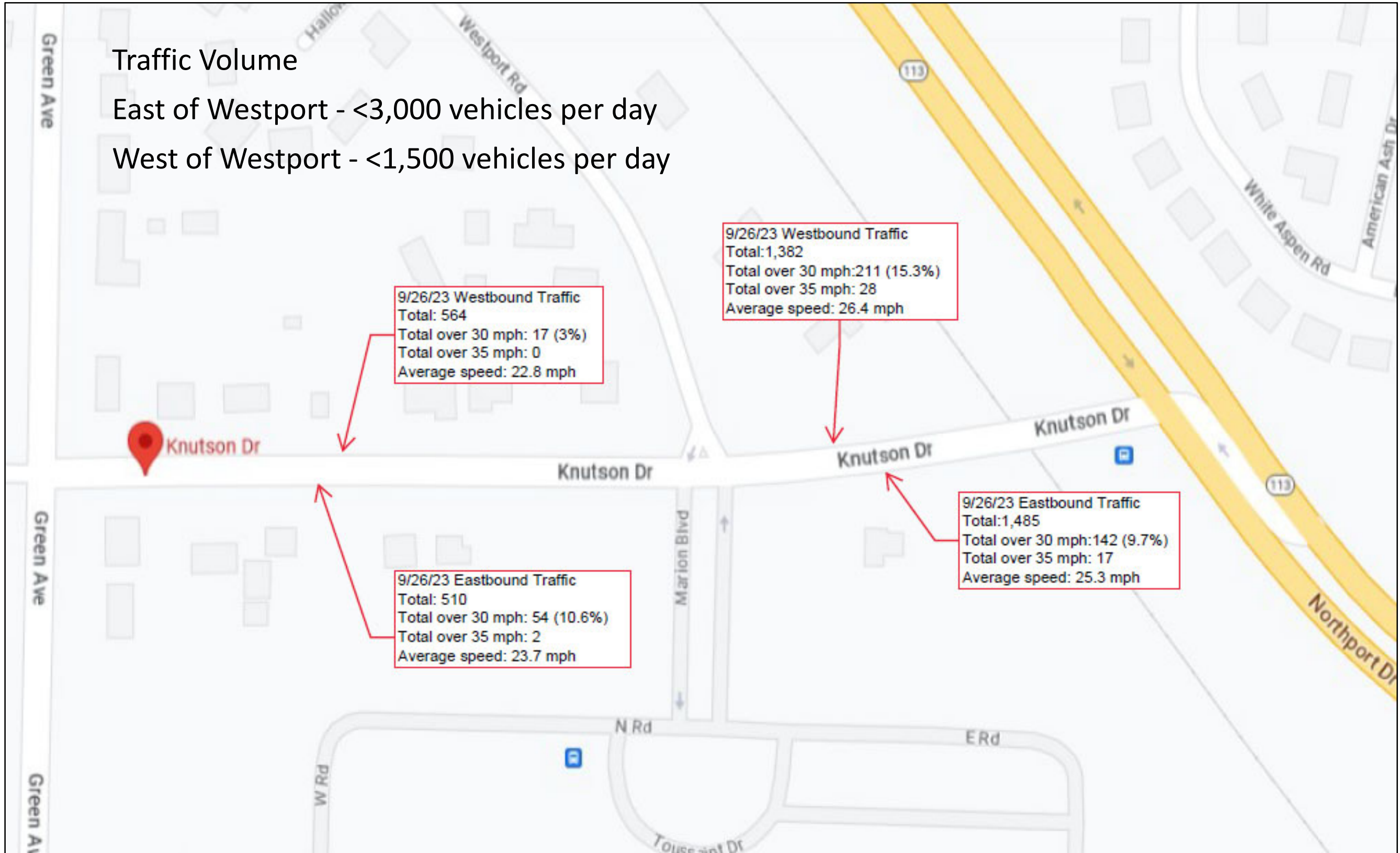
Knutson looking east
Westport

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Speed Study



Speed Study

- ▶ Traffic calming options for a bus route:
 - Curb bumpouts
 - Median islands
 - Narrow lane widths



bumpouts



median island

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Parking Study

- ▶ Data collected in July 2023 – Green Ave to Northport Dr
 - Weekday daytime
 - Weekday overnight
 - Weekend
- ▶ There is no designated parking lane

	North Side	South Side
9 am – 3 pm	0	0
6 pm – 6 am	0	0
Weekend	0	0



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Construction & Access

- ▶ Street open to local traffic (residents), closed to through traffic
- ▶ Driveways access will maintained as much as possible during construction
 - Not accessible when contractor is working directly in front
 - Closed when curb, sidewalk, and driveway apron installed
- ▶ Approximately 4-5 months to complete work
- ▶ Construction: Spring/Summer – Fall 2024
- ▶ Knutson Drive closed during project, local traffic only



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Next Steps

- ▶ Up coming opportunities for public involvement
 - Fill out the questionnaire #1
 - Sign-up for project email updates on the website
 - Public meeting #2 – later this fall
 - Setup questionnaire #2
 - Street usage alternatives
 - Assessments
 - Approval schedule
 - Transportation Commission meeting
 - Board of Public Works meeting
 - Common Council meeting
- ▶ Public notified via website updates and/or mailing
- ▶ www.cityofmadison.com/engineering/projects/knutson-drive-reconstruction



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Contact Information & Resources

Thank You for Attending!

▶ Questions

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- To ask a question verbally, click the **“raise hand”** option at the bottom of your screen and the host will unmute you.

▶ Engineering

- Project Engineer, Nashaly Gutierrez Vazquez, 266-4414, Ngutierrez@cityofmadison.com
- Project Manager, Andrew Zwiig P.E., 266-9219, azwiig@cityofmadison.com
- Rain Garden Contact, Phil Gaebler, 266-4059, PGaebler@cityofmadison.com
- Public Information Officer, Hannah Mohelnitzky, 669-3560, hmoelnitzky@cityofmadison.com

▶ Traffic Engineering

- Traffic Engineer, Alexandra Heinritz, 267-1102, aheinritz@cityofmadison.com
- Pedestrian Bicycle Administrator, Renee Callaway, 266-6225, ReCallaway@cityofmadison.com

▶ Project Website: www.cityofmadison.com/engineering/projects/knutson-drive-reconstruction

- **Questionnaire will remain open until 10/04/2023**
- Sign-up for project email updates on the website
- Updates on closures & work progress will be posted to the project website
- Recording for this meeting will be posted on project webpage

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