

29 September 2020

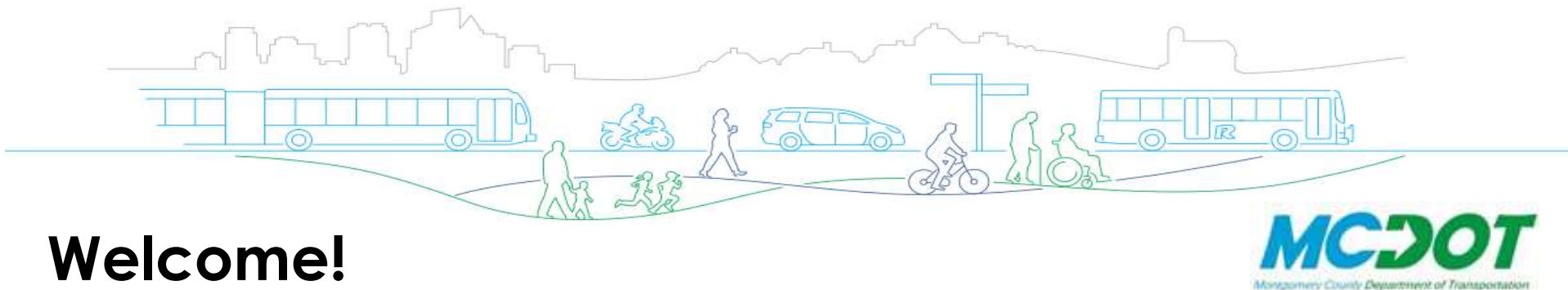
Presentation will
begin shortly



GROVE STREET NEIGHBORHOOD GREENWAY PILOT PROJECT



Matt Johnson, AICP



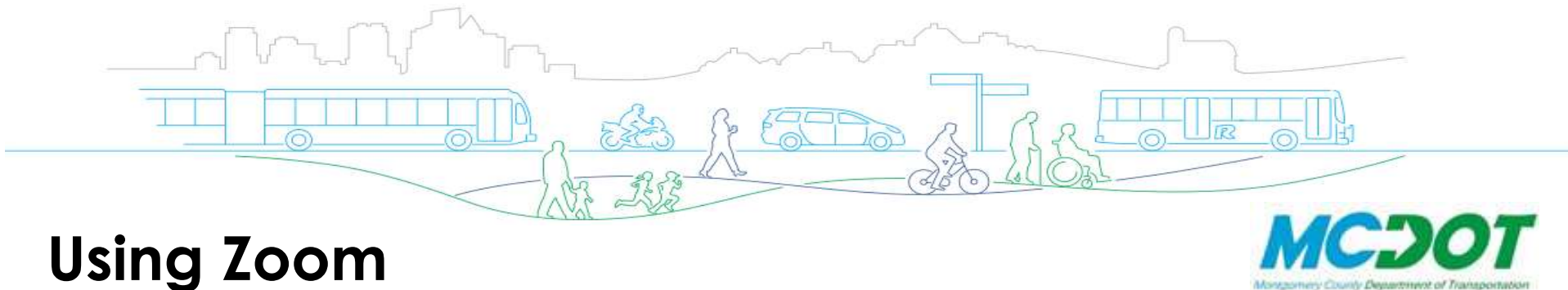
Welcome!

MC DOT
Montgomery County Department of Transportation

2

Welcome to the virtual community meeting!

- We're all learning how to conduct virtual community meetings, so please bear with us.
- We're going to go over some basic controls to help you use the Zoom meeting format before we start the presentation.
- Please note **this meeting is being recorded**.
 - It is being recorded on video and audio and will be posted on our website.
 - If you do not wish to have your voice or likeness recorded, please turn your video camera off, and refrain from asking questions using the audio option. Instead, you can send your questions via the chat.



Using Zoom

3

Welcome to the virtual community meeting!

Let's get you oriented to the Zoom meeting.

- Muting
 - Everyone is on mute. You cannot unmute yourself. We can unmute you during the Q&A and comment period.
 - To request to speak, you'll need to use the **raise hand** feature (instructions in just a minute). Once we unmute you, you may still need to click a pop up menu to unmute yourself.
 - If you have called in by telephone, you can unmute yourself by dialing *6 once we unmute you.



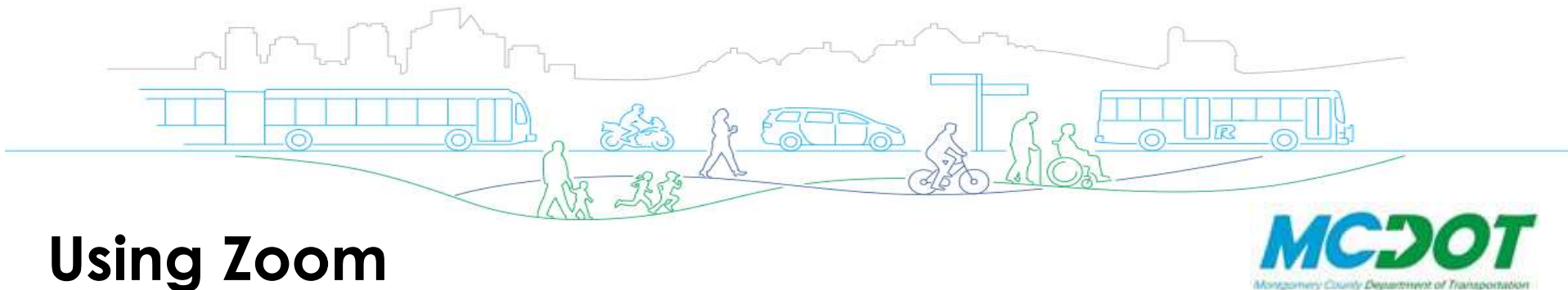
Using Zoom

4

Welcome to the virtual community meeting!

Let's get you oriented to the Zoom meeting.

- Video
 - Your video camera is off by default. To reduce the bandwidth of the meeting, we request that you please do not turn your camera on.



Using Zoom

5

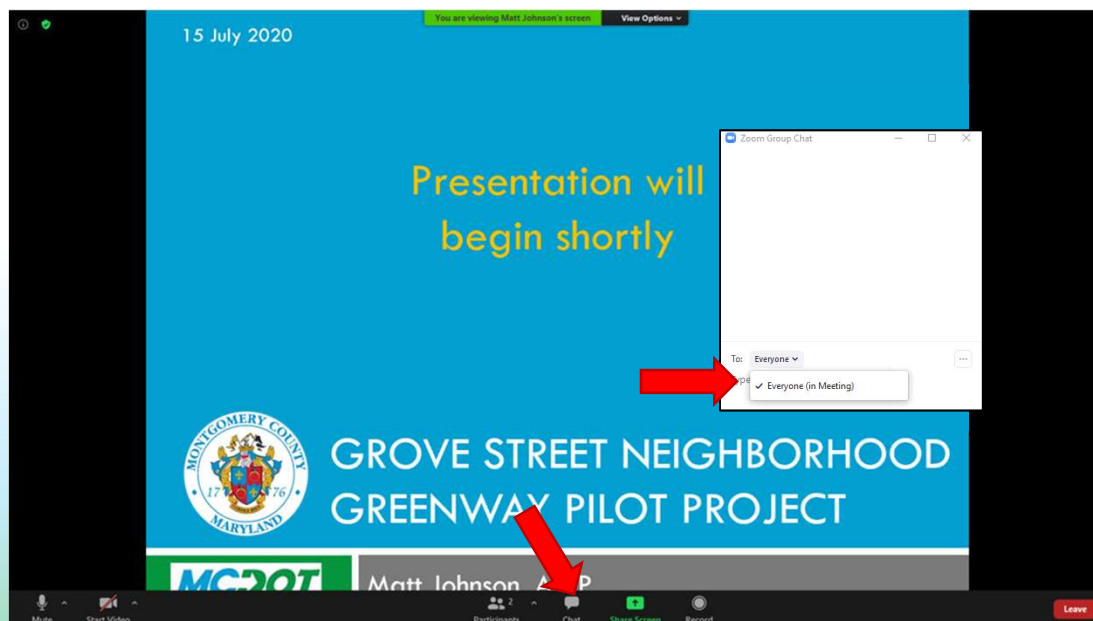
Welcome to the virtual community meeting!

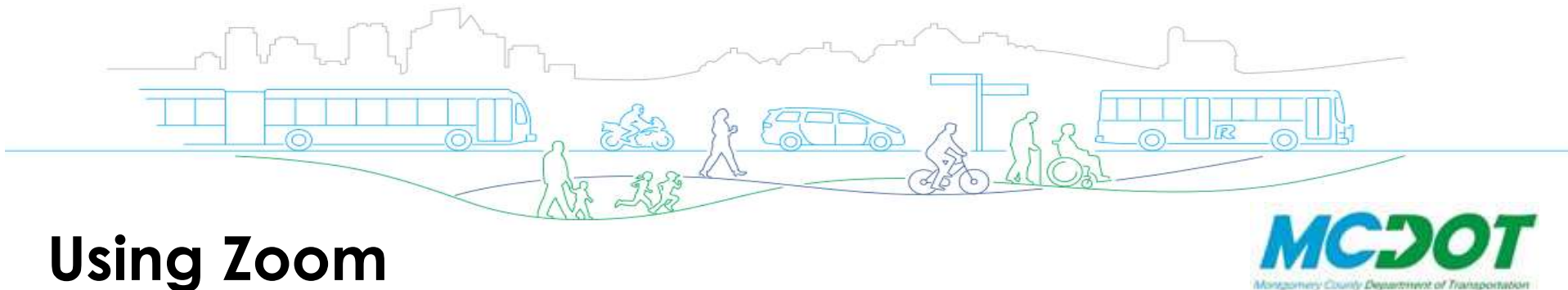
Let's get you oriented to the Zoom meeting.

- Ask a question (Text)
 - If you have a question during the presentation, send it via **chat**.

To send a chat:

- Click "chat" in the bottom menu
- A new window will appear. In the "to" field, change the drop down to "Kyle Lukacs"
- Type your question and send it.





Using Zoom

6

Welcome to the virtual community meeting!

Let's get you oriented to the Zoom meeting.

- Raise your hand
 - If you'd like to speak to ask a question or make a comment, please **raise your hand**

To raise your hand

- Click "participants" in the bottom menu
- A new window will appear. Click the blue "raise hand button".
- If you've dialed in by phone, dial *9.





Using Zoom

7

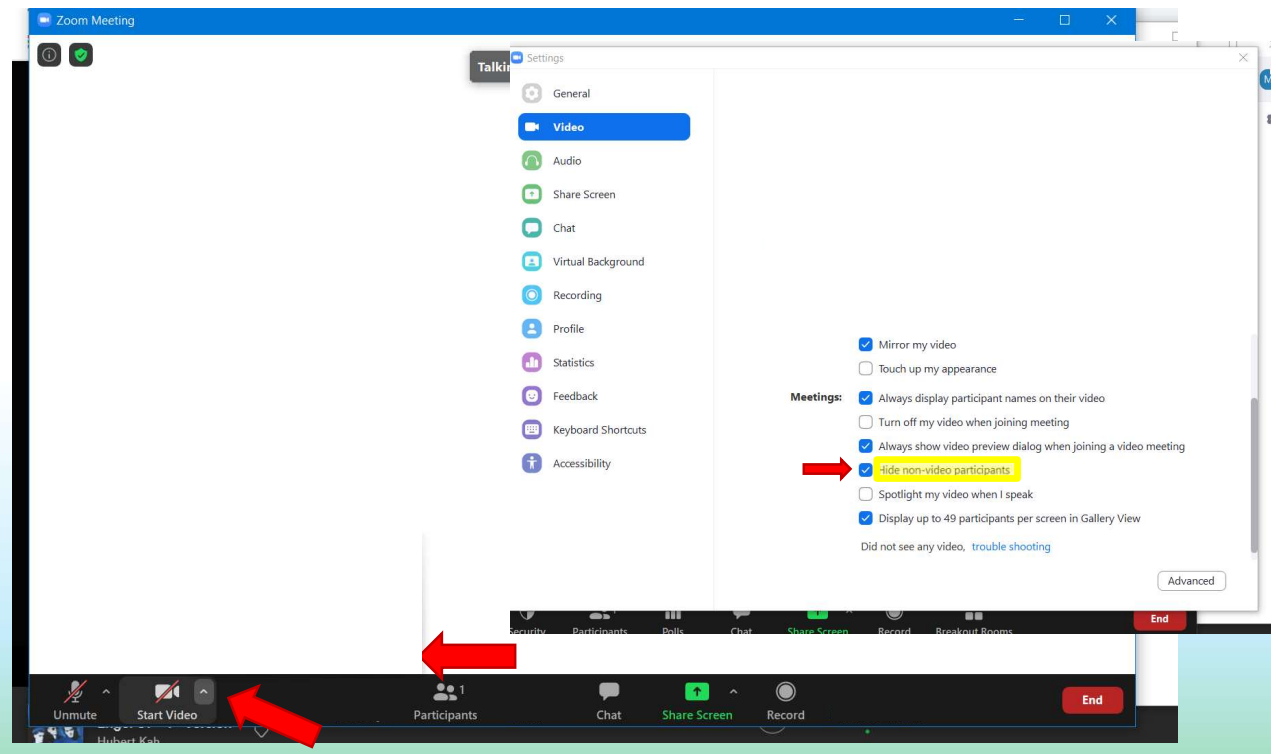
Welcome to the virtual community meeting!

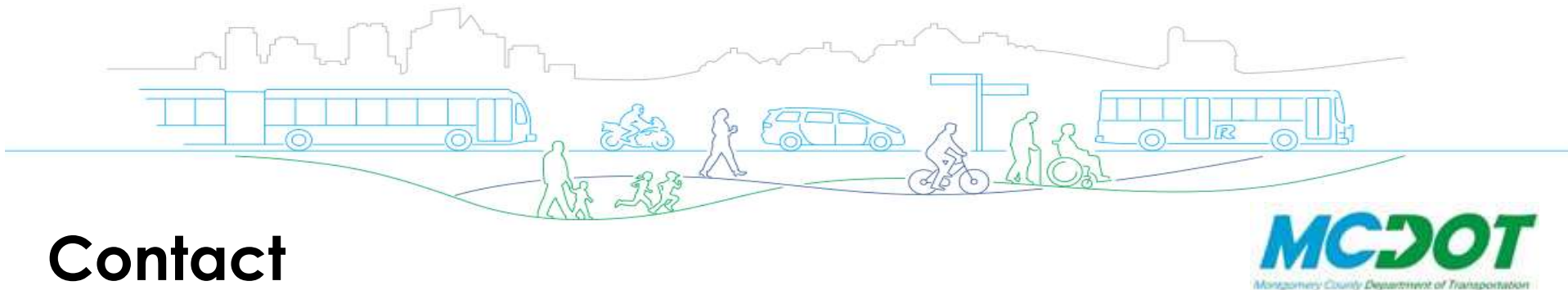
Let's get you oriented to the Zoom meeting.

- View

To change your view so that you only see people with cameras on:

- Click the up arrow next to "start video".
- Select "Video settings".
- Make sure "Hide non-video participants" is checked.





Contact

8

Matt Johnson
Project Manager

240.777.7237

Matt.Johnson@MontgomeryCountyMD.Gov

Note: Due to Covid-19, most of our staff is working from home. Email is much preferred for communication, rather than our desk phones.

Agenda

9

- 7:00: Overview of Zoom features
- **7:10: Introductions**
- 7:15: Meeting presentation
- 7:45: Public comment
- 9:00: Adjourn





Introductions

10

- We have staff here from MCDOT, our engineering consulting firm Stantec, and other agencies.

Agenda

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- 7:10: Introductions
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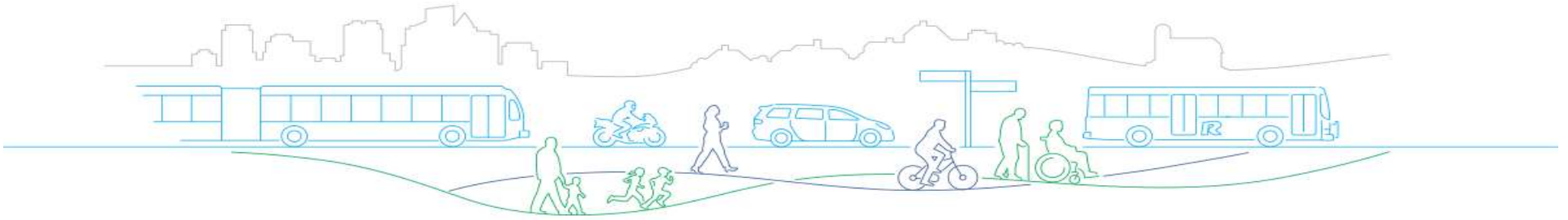




Meeting Goals

12

- This meeting is intended to present the **proposed implementation plan** for Stage 1 of the pilot.
- We also want to get **your feedback** about the proposed treatments. We can still tweak the design before implementation.



Presentation Outline

13

- Section 1: Project Background
- Section 2: the Survey and the Shared Street data
- Section 3: the Stage 1 Plans

Section 1: Project Background

14





Project Area

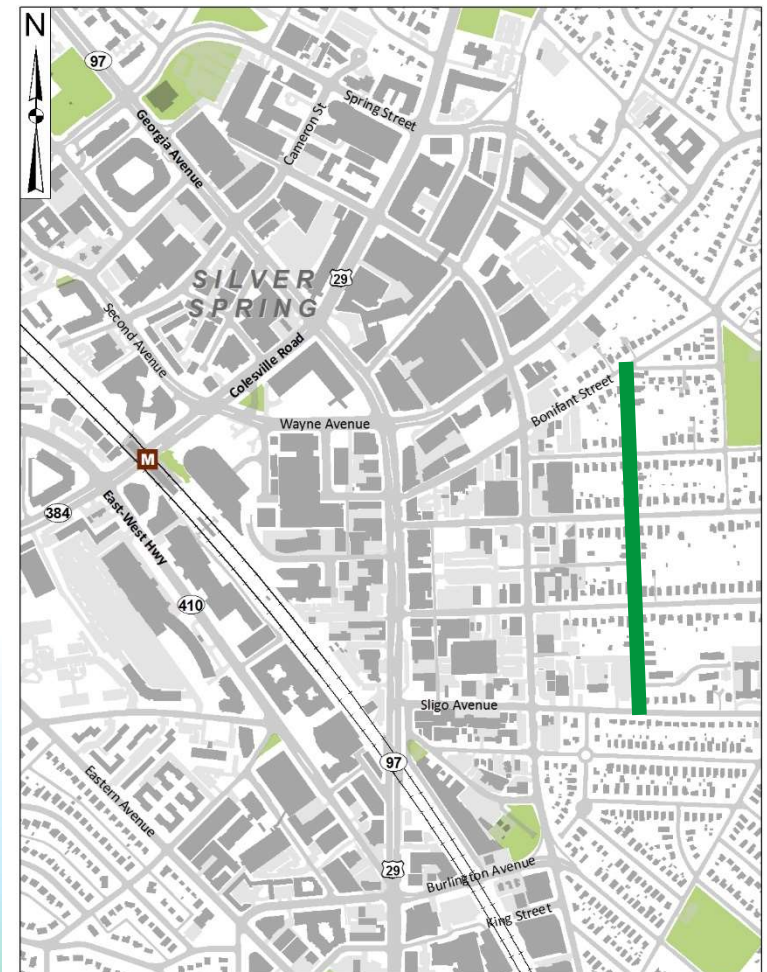
15



Grove Street looking North at Thayer Avenue (May 2020)



Grove Street looking South at Easley Street (May 2020)

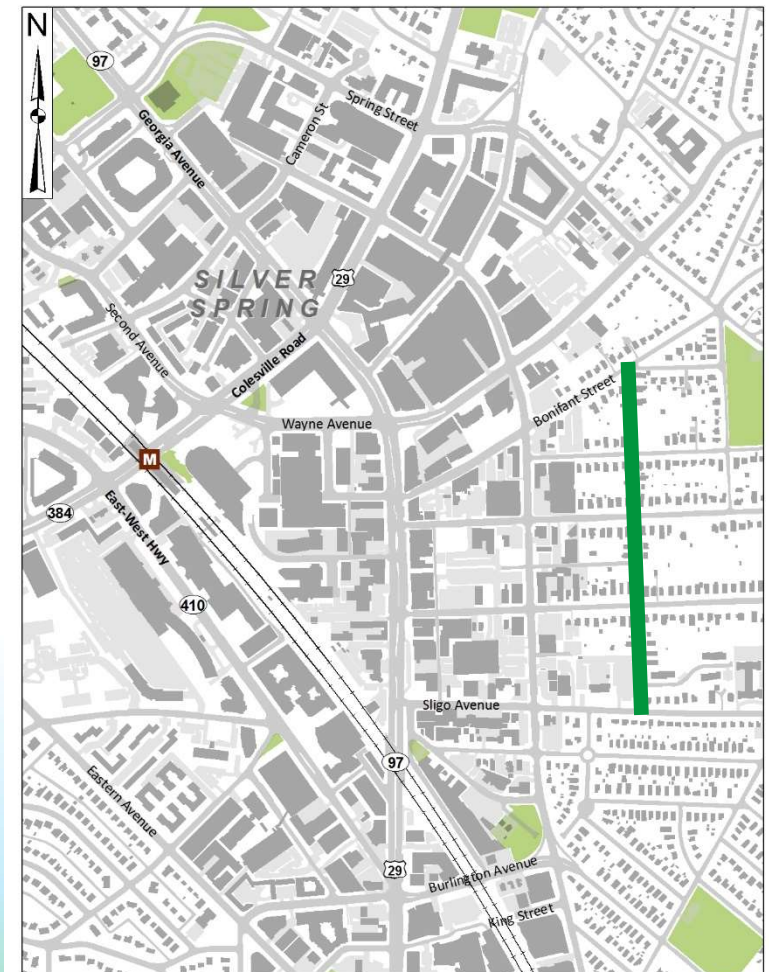




Scope

16

- Grove Street is designated as a **neighborhood greenway**
- This project will be a **pilot** to test out treatments in the corridor





What is a Neighborhood Greenway?

17

- A **neighborhood greenway** is a street designed to give **walking** and **biking** *priority* and to reduce vehicle **speed** and **volume**.
- Tools to create a neighborhood greenway include signs, pavement markings, speed countermeasures, and volume management measures to discourage **cut-through trips** by vehicles and to create safe, convenient crossings of arterial streets for bicyclists and pedestrians.





What is a Neighborhood Greenway?

18

Speed treatments



Diversionary treatments





What is a Pilot Project?

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- MCDOT is **not** proposing to make permanent changes to Grove Street. Instead, a **pilot project** will allow MCDOT to try different treatments in consultation with the community, observe the results, and make changes to improve the effectiveness of the greenway.
- We will propose **semi-permanent** treatments that can be easily removed, modified, or relocated.
- During the pilot, we will collect **speed** and **volume** data to see how effective the treatments are.
- We will look at data from Grove and adjacent streets.

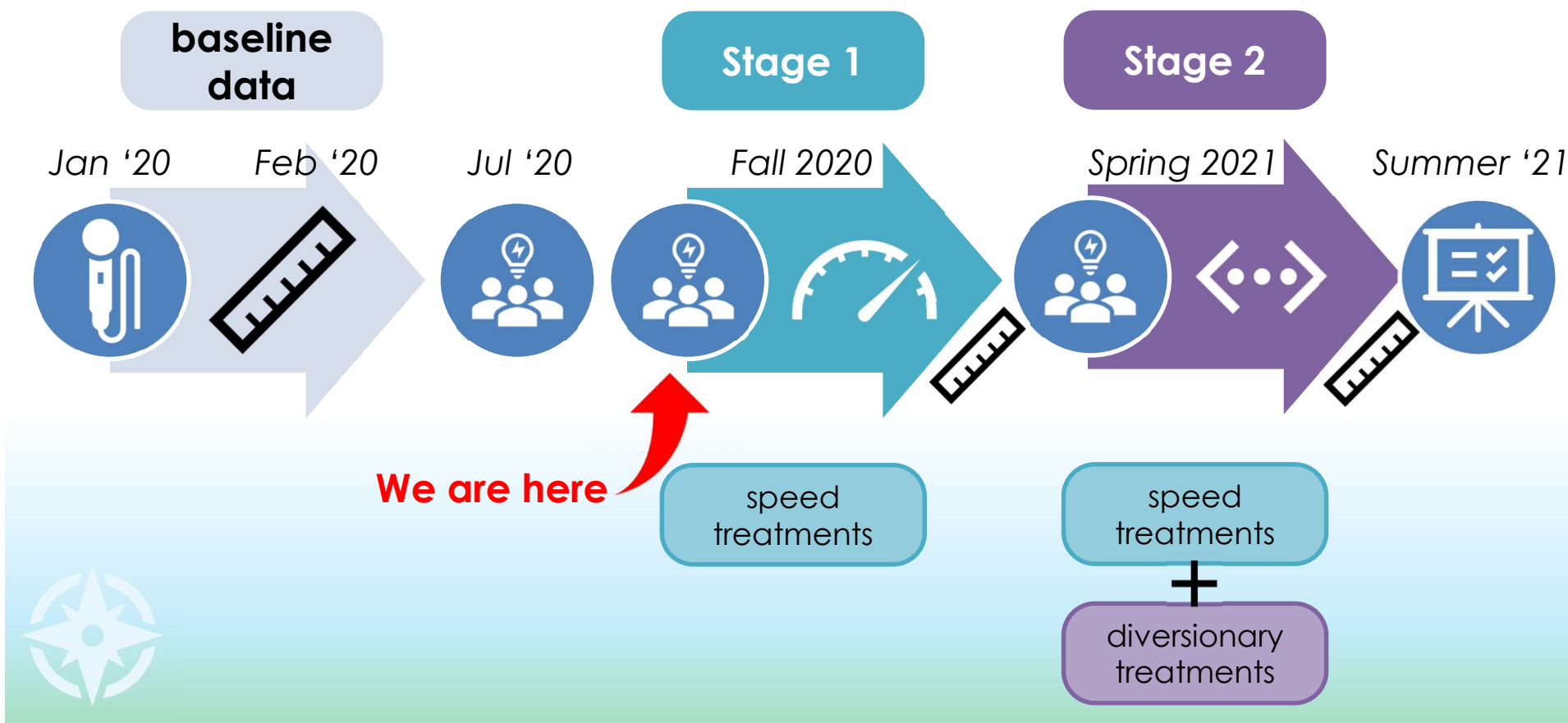




Schedule

20

- The pilot is anticipated to take a two-stage format.





Schedule Update – Other Projects

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- We know the Pepco project on Fenton Street has been disruptive. As of Friday 9/25, Pepco anticipates that the trenching work will be complete by the end of October. Resurfacing will start in October and be completed in November.
- ArtSpace work is ongoing. They are required to resurface Grove from Sligo to the alley north of Silver Spring Ave. That work may happen in late-October/early November. We're working on coordinating with ArtSpace.





Pilot Project Questions?

22

- We have time for 1 or 2 quick clarifying questions on the pilot project now.
- **Questions only**, please. The comment period will be later.



Section 2: Survey Results & Shared Street Data

23





What we heard from you

24

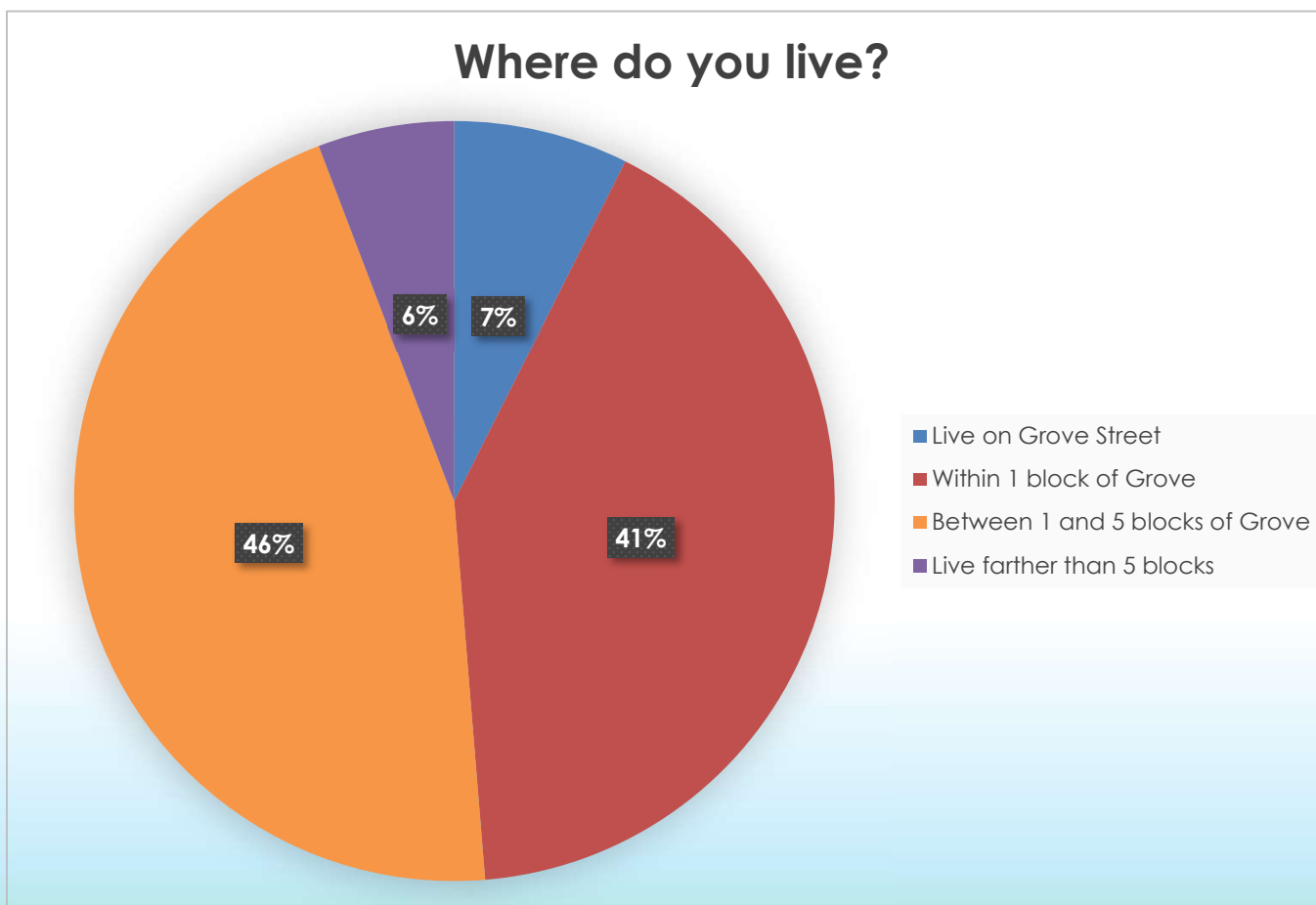
- In preparation for our July meeting and afterward, we conducted an online survey to gauge your preferences.
- Here's what we heard from you.
- We received 310 responses to the survey.





Survey Results – Where do you live?

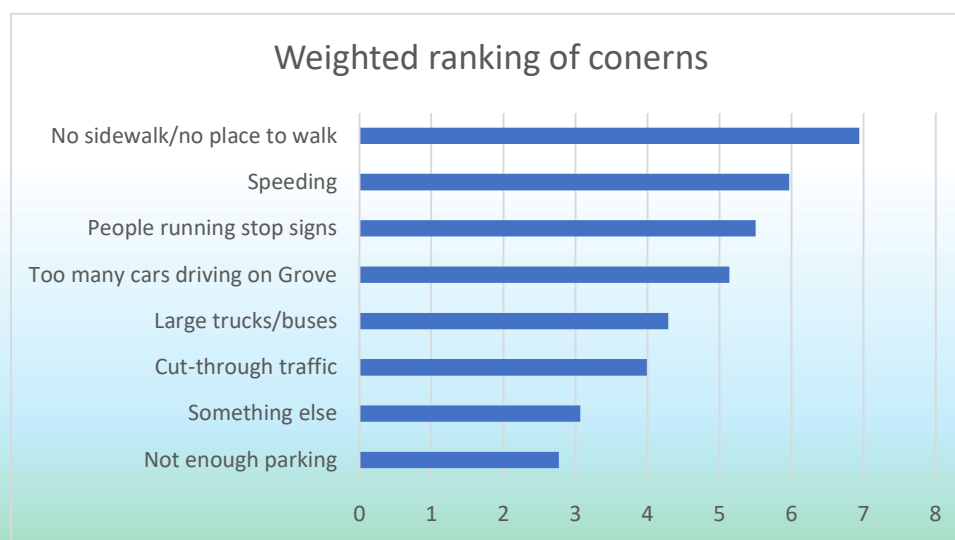
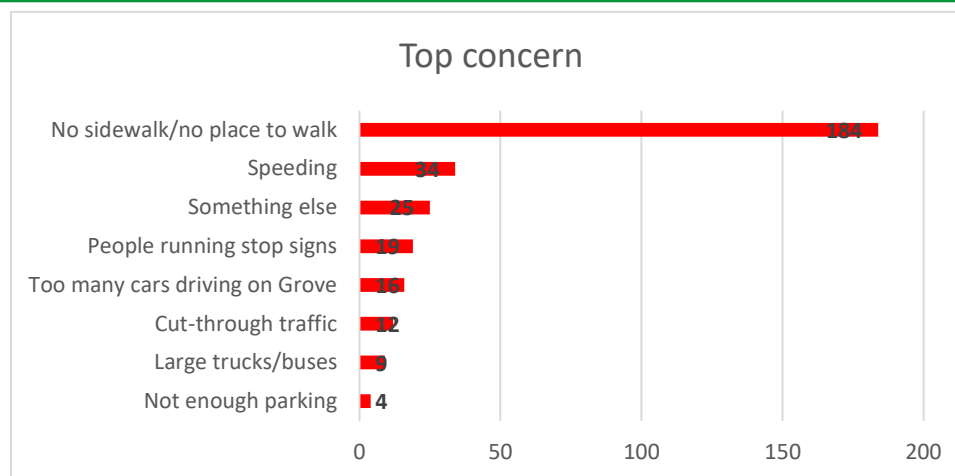
25





Survey Results – What concerns you?

26

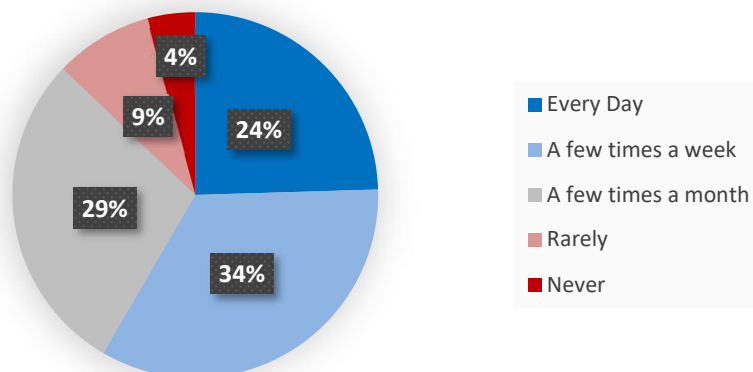




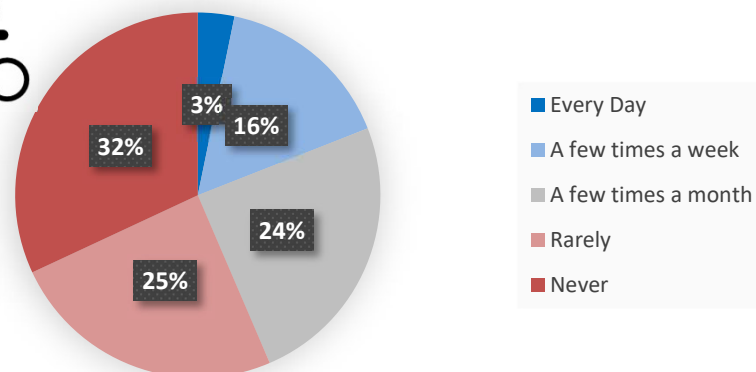
Survey Results – How do you use Grove Street?

27

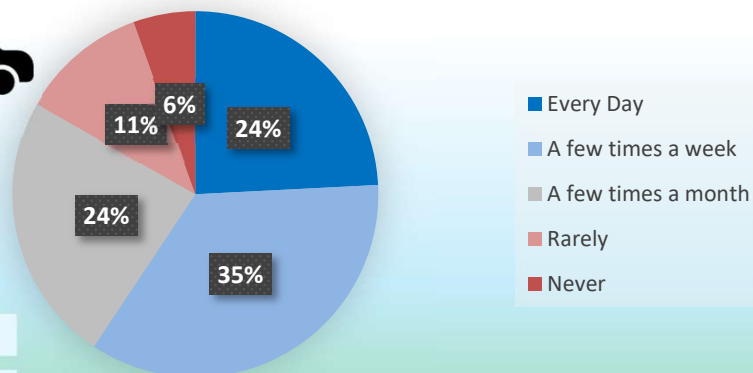
How often do you walk on Grove Street?



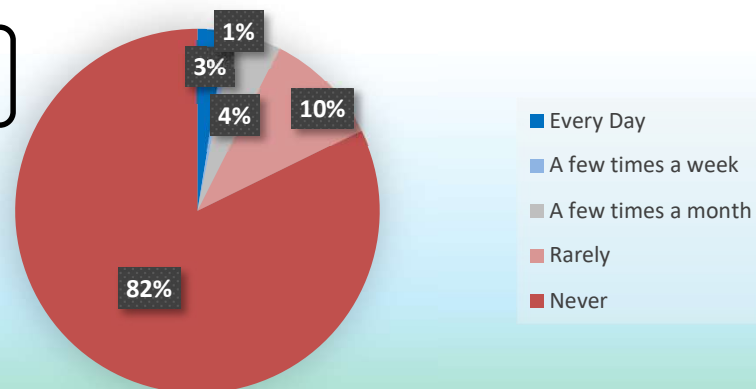
How often do you bike on Grove Street?



How often do you drive on Grove Street?



How often do you park on Grove Street?

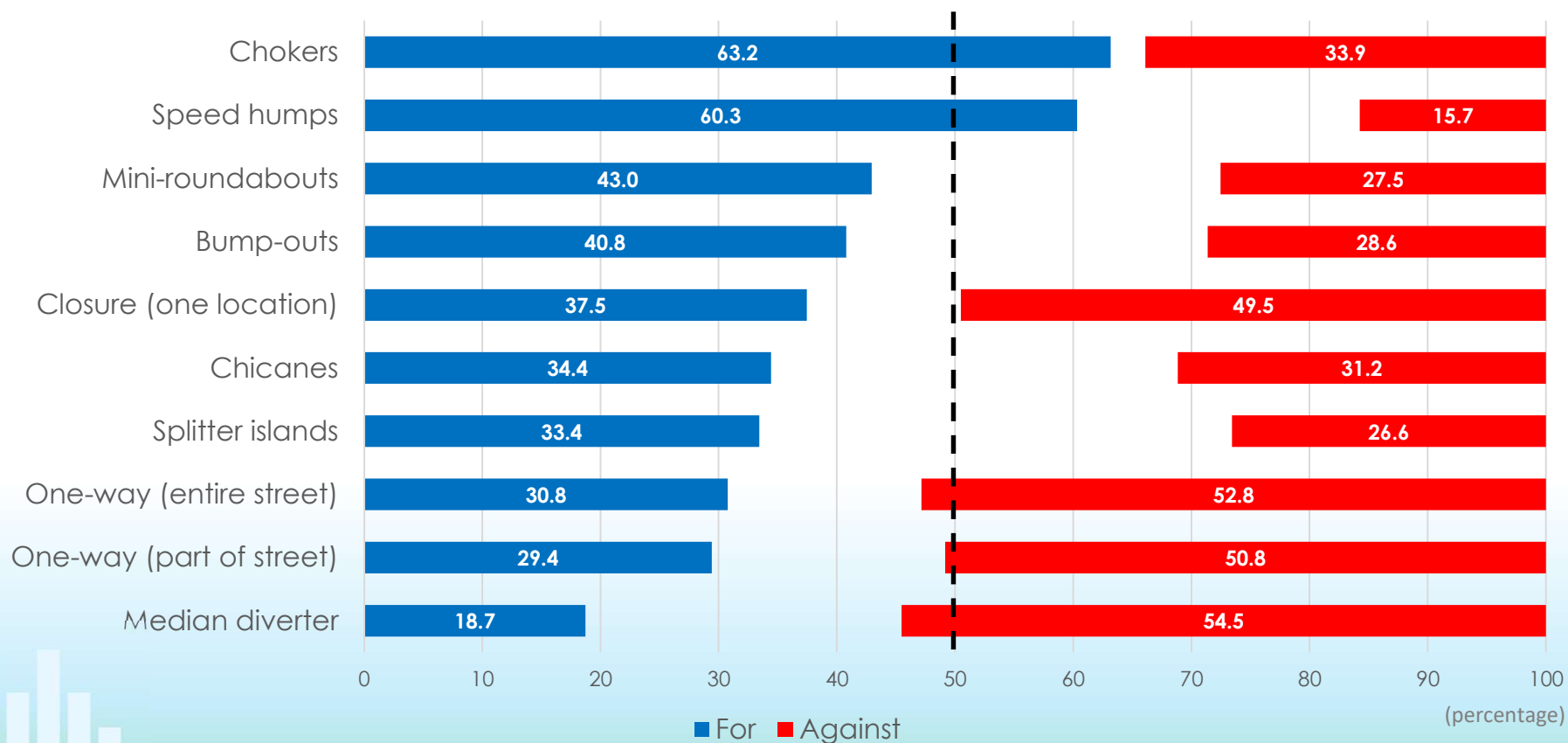




Survey Results – Traffic Calming Preferences

28

Traffic Calming Treatment Preferences

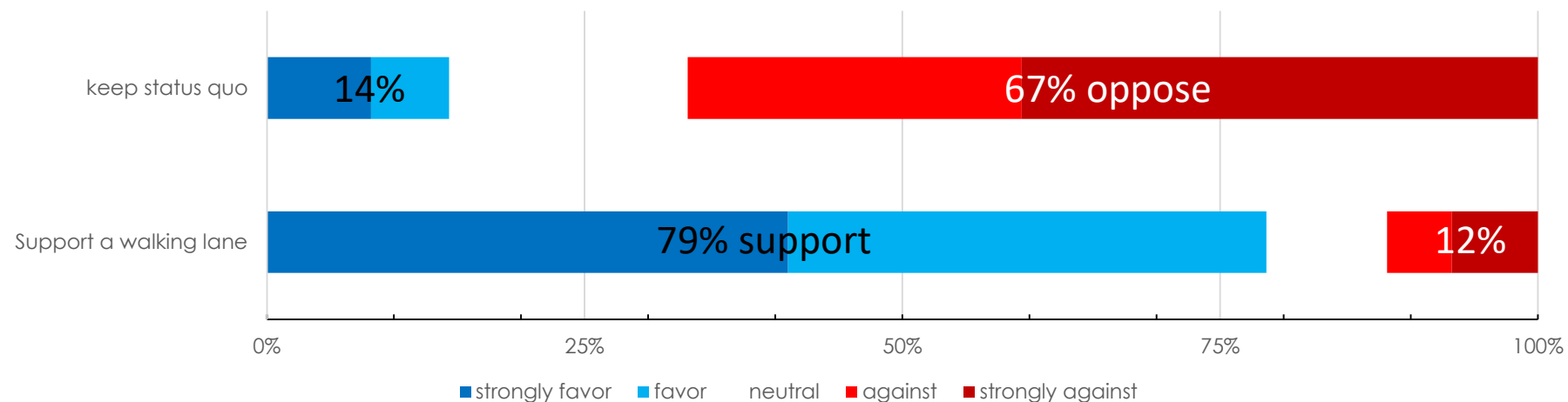




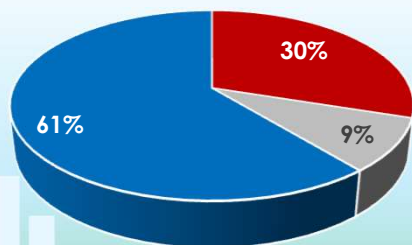
Survey Results – Need for dedicated pedestrian space

29

Need for a dedicated pedestrian space on Grove

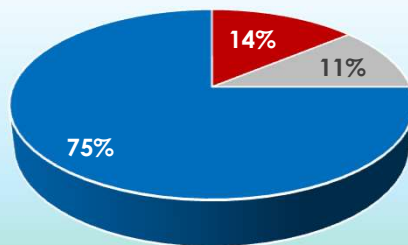


support a walking lane
people living on Grove



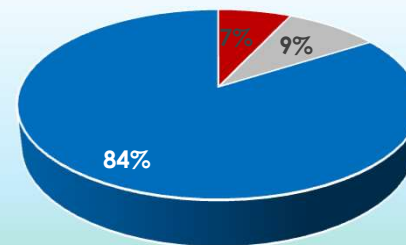
% of respondents: 7%

support a walking lane
people living within 1 block



41%

support a walking lane
people living 1 to 5 blocks



46%



Temporary shared street

30

- The temporary “shared street” will be removed when the Stage 1 improvements are installed later this fall.
- What can we learn from the shared street?

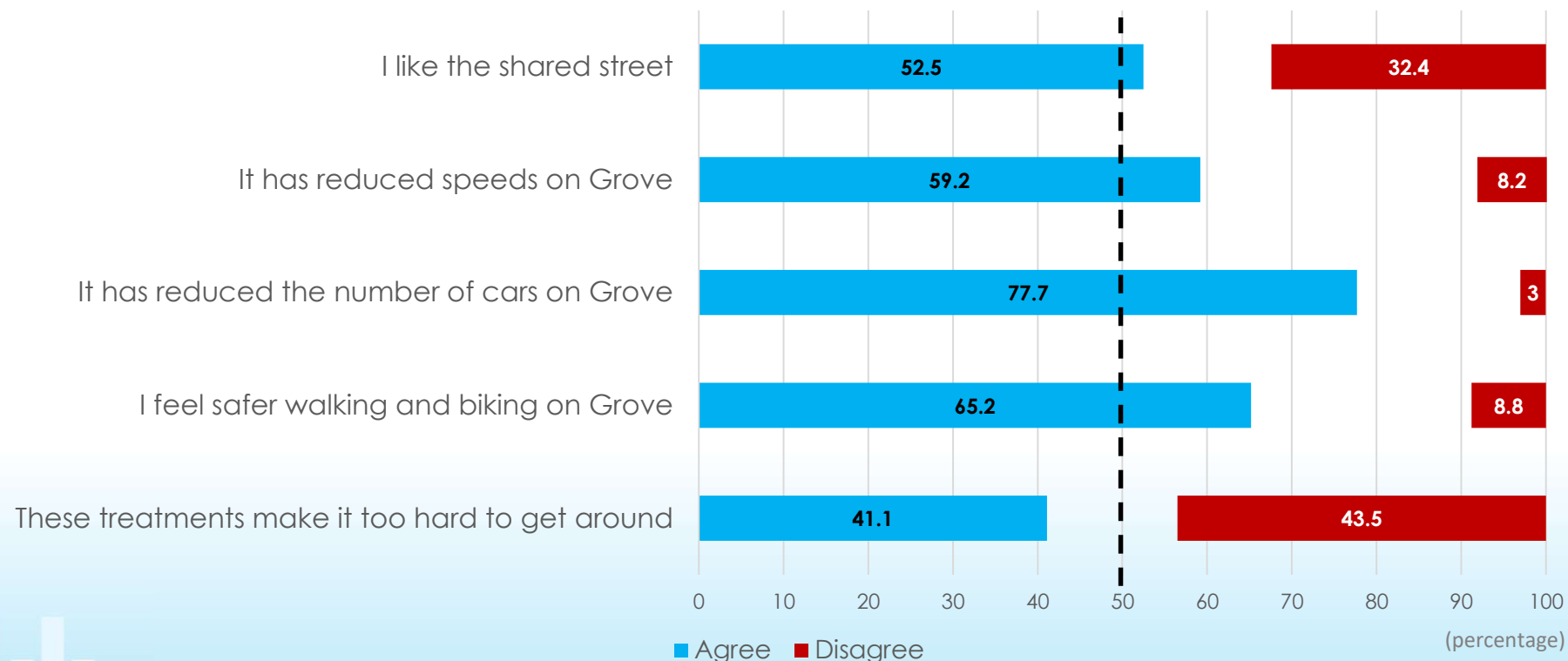




Survey Results – How do you feel about the shared street?

31

How do you feel about the temporary shared street?





Survey Results – How do you feel about the shared street?

32





Grove Street Speeds

33

- We collected speed and volume data in February 2020 to establish a baseline for traffic on Grove Street.
 - 85th percentile speed
 - Top speed
 - Average Annual Daily Traffic
- Additional speed and volume data is being collected at each step in the pilot process.





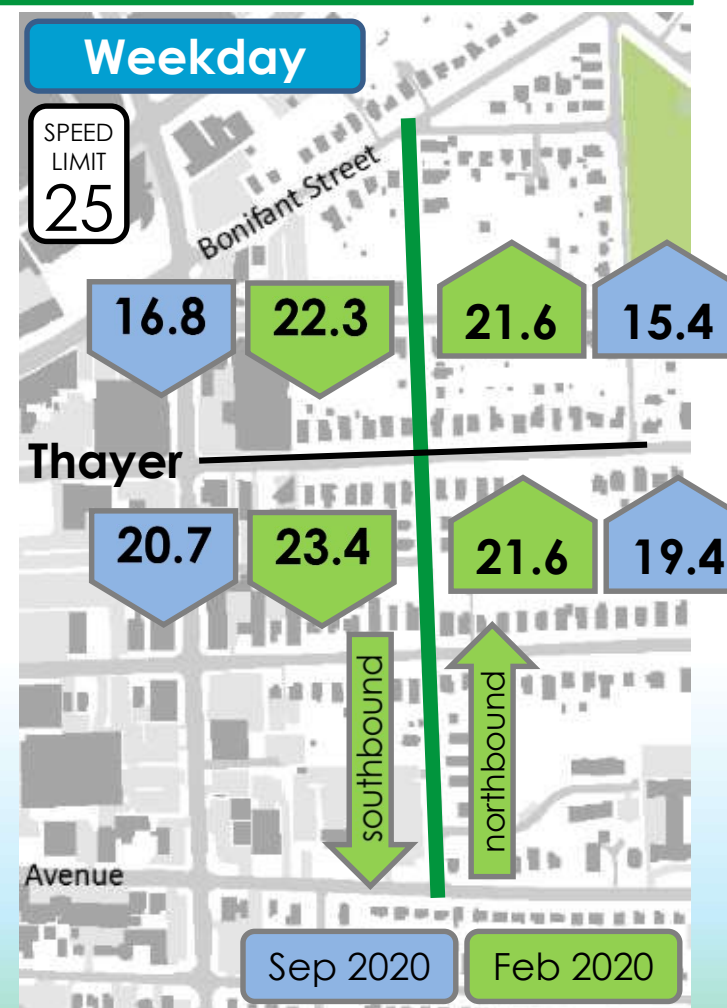
Grove Street 85th Percentile Speeds

34

- **Baseline** data (Feb. 2020)
- **Shared street** data (Sep 2020)
 - Weekdays, 85th percentile speeds dropped by 19%

Map shows 85th Percentile Speed

85th percentile speed is the speed at which 85% of cars are travelling at or below. 15% of cars are traveling faster than that speed.





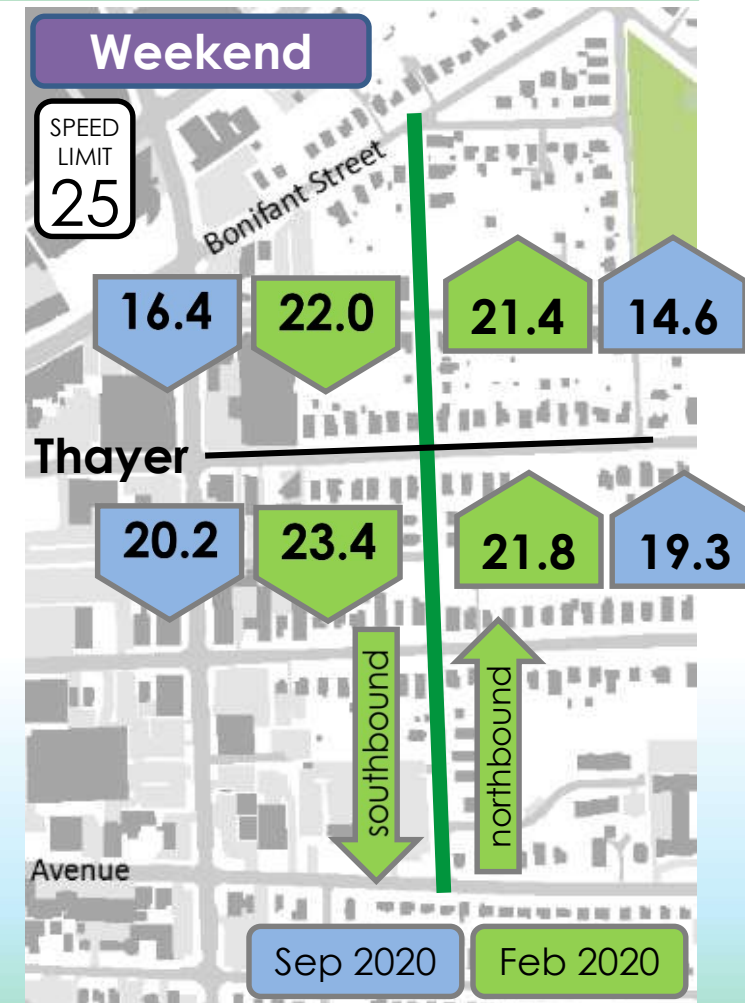
Grove Street 85th Percentile Speeds

35

- **Baseline** data (Feb. 2020)
- **Shared street** data (Sep 2020)
 - Weekends, 85th percentile speeds dropped by 21%

Map shows 85th Percentile Speed

85th percentile speed is the speed at which 85% of cars are travelling at or below. 15% of cars are traveling faster than that speed.

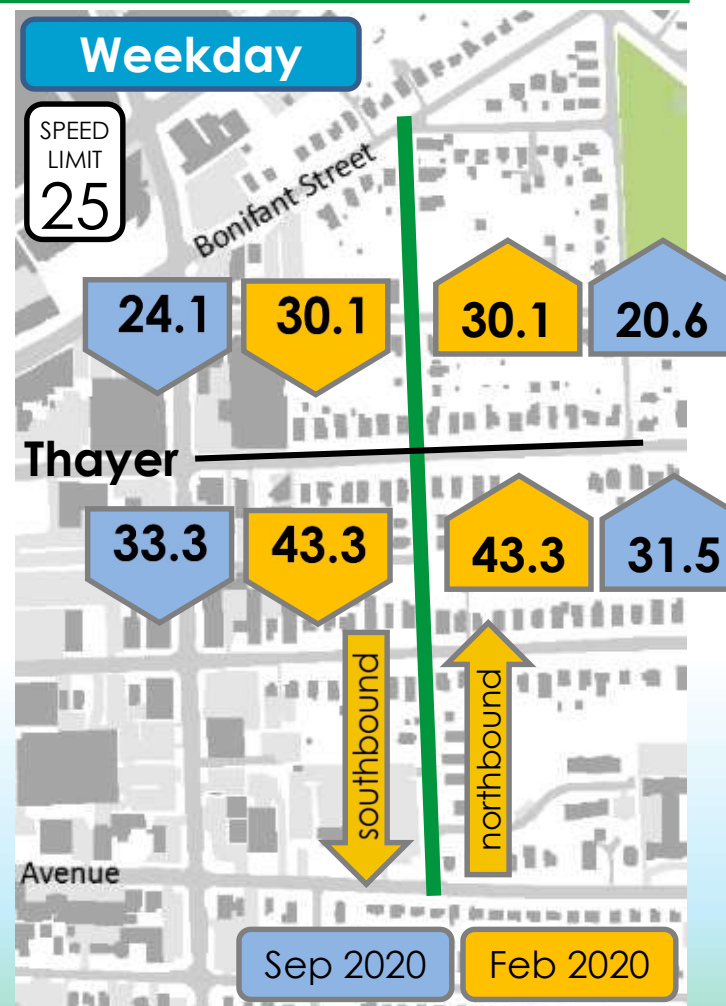




Grove Street Top Speeds

36

- **Baseline** data (Feb. 2020)
- **Shared street** data (Sep. 2020)
 - Weekday top speeds dropped by 25%



Map shows top speed

This is the highest recorded speed of any vehicle during the indicated period.



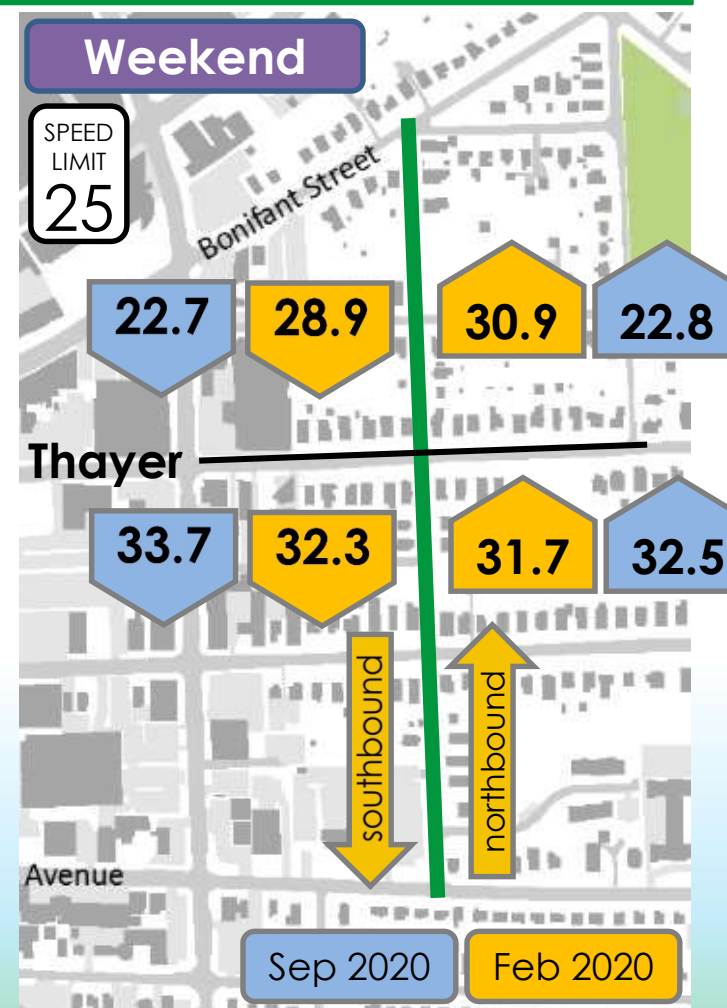
Grove Street Top Speeds

37

- **Baseline** data (Feb. 2020)
- **Shared street** data (Sep. 2020)
 - Weekend top speeds dropped by 10%
 - Top speed increased by 2.5 to 4.3% on Grove south of Thayer.

Map shows top speed

This is the highest recorded speed of any vehicle during the indicated period.





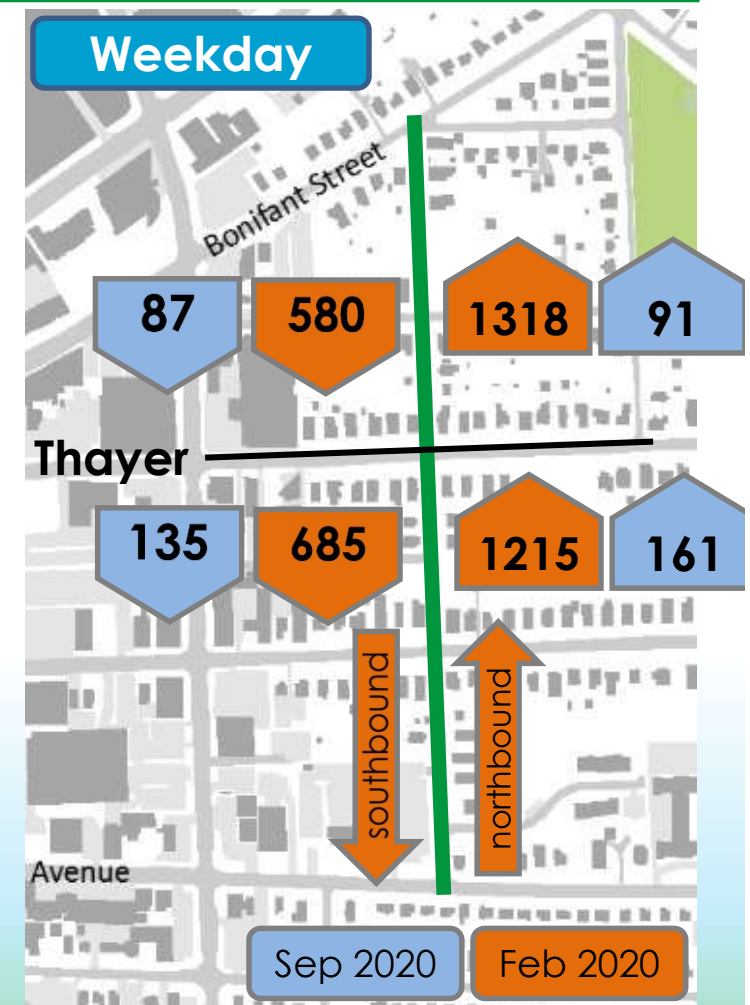
Grove Street Volumes

38

- What did **baseline** traffic volumes look like on Grove?
- With the **shared street**, volumes decreased:
 - Weekdays, down by 86%

Map shows Average Daily Traffic (ADT)

This is the average count of traffic on each segment over a 24-hour period.

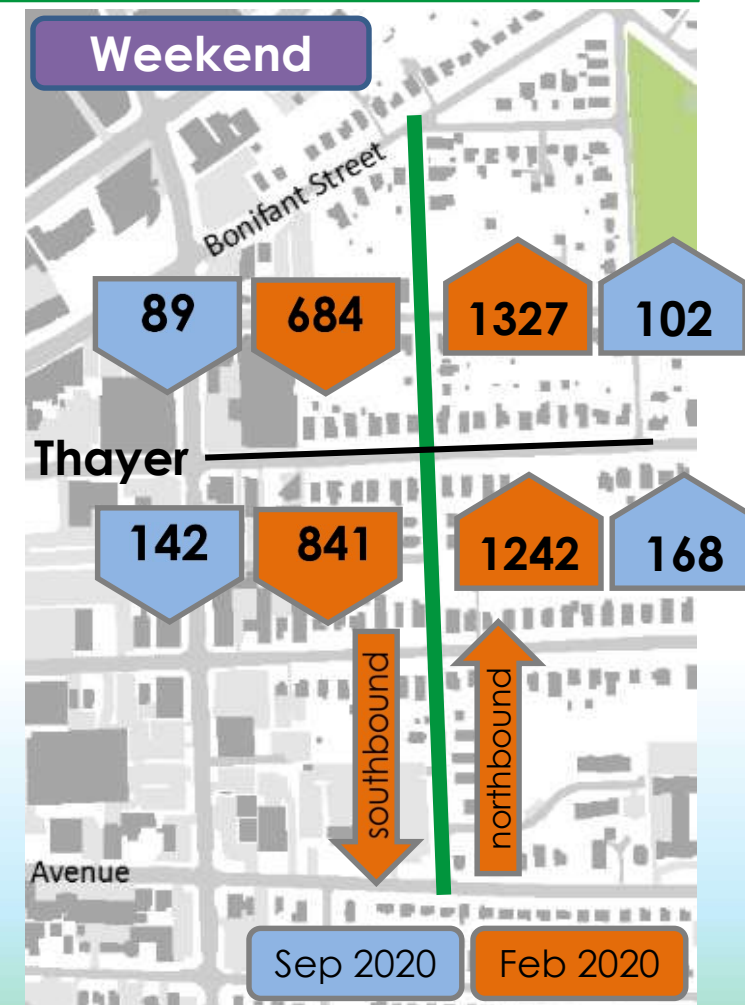




Grove Street Volumes

39

- What did **baseline** traffic volumes look like on Grove?
- With the **shared street**, volumes decreased:
 - Weekends, down by 87%



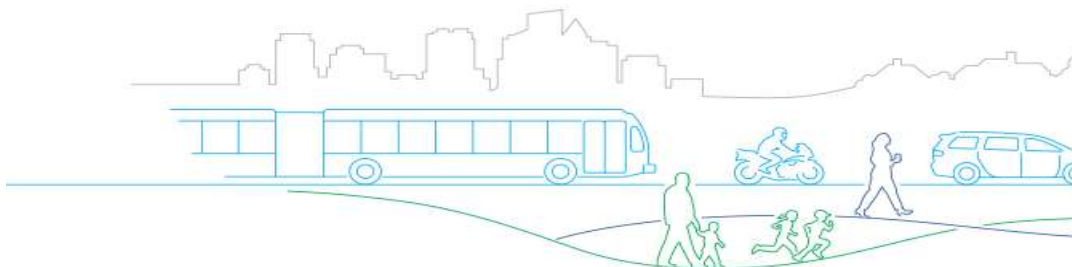


What about other streets?

40

- So, we've seen how the shared street has impacted Grove Street. How has it impacted other streets in the neighborhood?





Changes on other streets

41

- How did speeds change on Grove & adjacent streets?
- How to read this map:
 - Arrow points in direction of traffic
 - + and red background indicate an increase in traffic
 - and green background indicate a decrease in traffic
 - The percentage is the difference between February 2020 and September 2020

Example 1:

Northbound count location, with a 5% decrease in traffic speed.



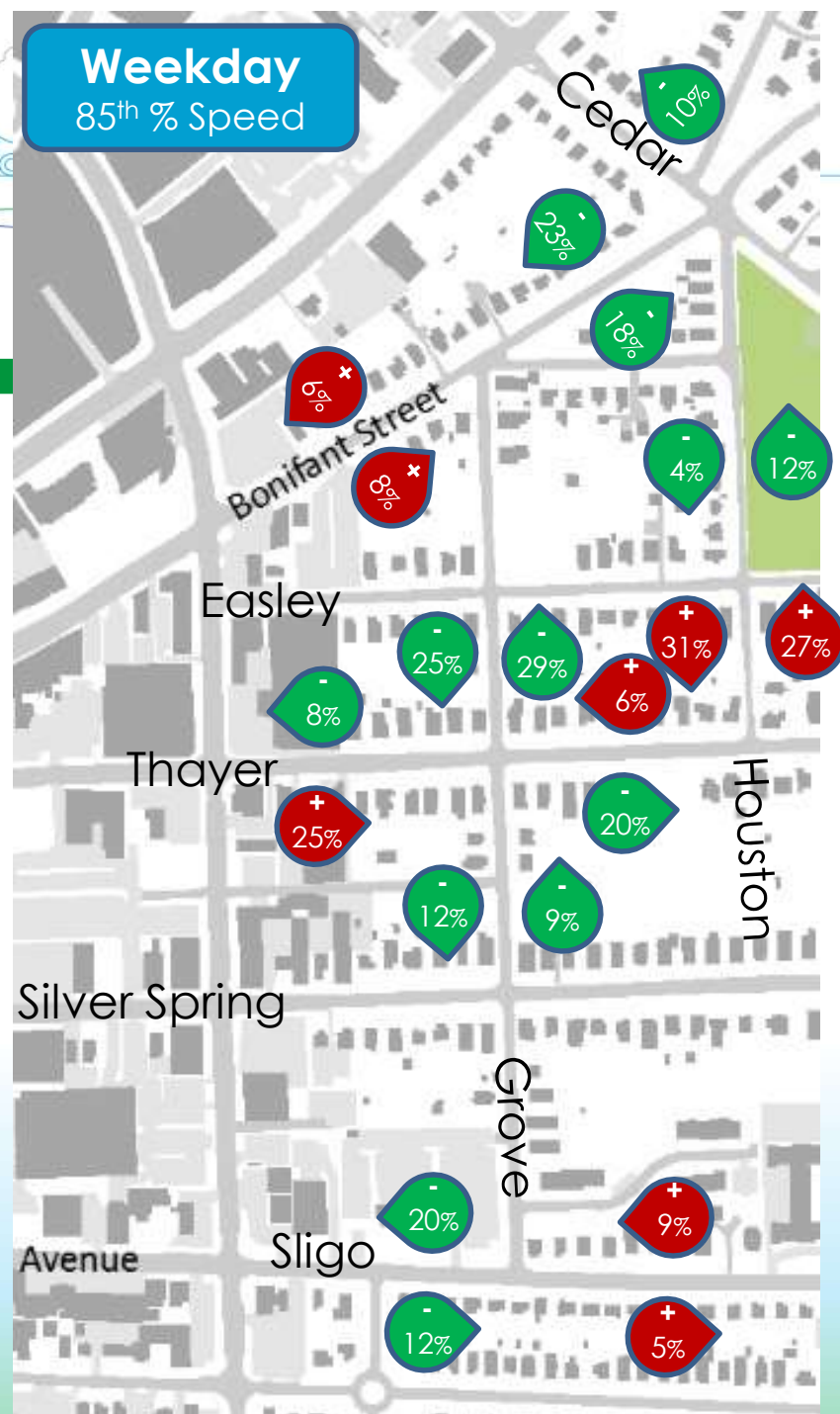
Example 2:

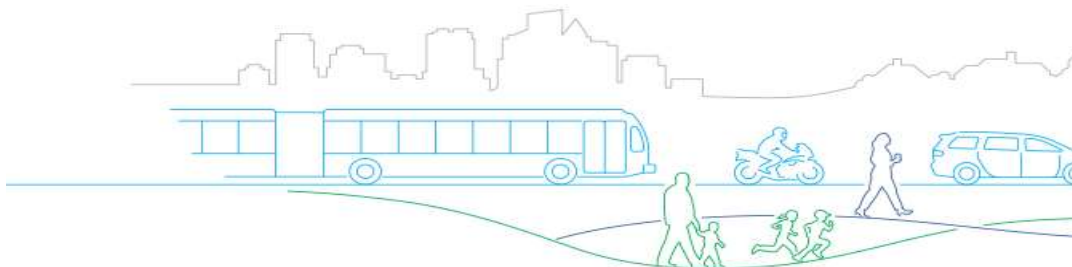
Southbound count location, with a 2% increase in traffic speed.



Map shows change in 85th percentile speed

This shows the percentage change in 85th percentile speed from February 2020 to September 2020





Changes on other streets

42

- How did speeds change on Grove & adjacent streets?
- How to read this map:
 - Arrow points in direction of traffic
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Example 1:

Northbound count location, with a 5% decrease in traffic speed.



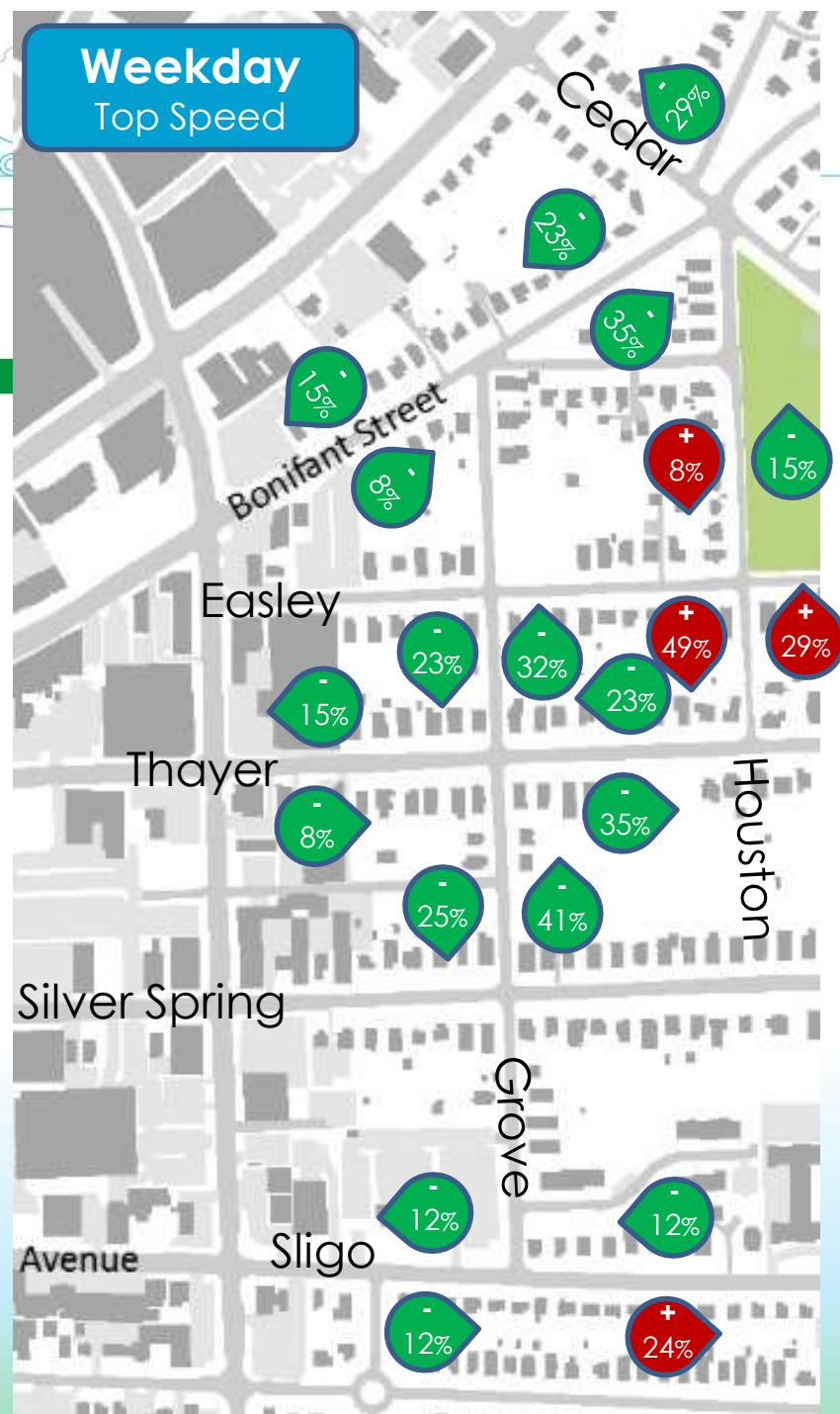
Example 2:

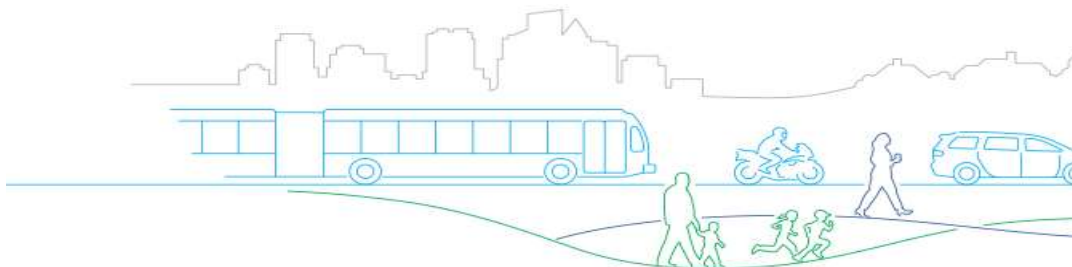
Southbound count location, with a 2% increase in traffic speed.



Map shows change in highest recorded speed

This shows the percentage change in highest recorded speed from February 2020 to September 2020





Changes on other streets

43

- How did volumes change on Grove & adjacent streets?
- How to read this map:
 - Arrow points in direction of traffic
 - + and red background indicate an increase in traffic
 - and green background indicate a decrease in traffic
 - The percentage is the difference between February 2020 and September 2020

Example 1:

Northbound count location, with a 95% decrease in traffic volume.



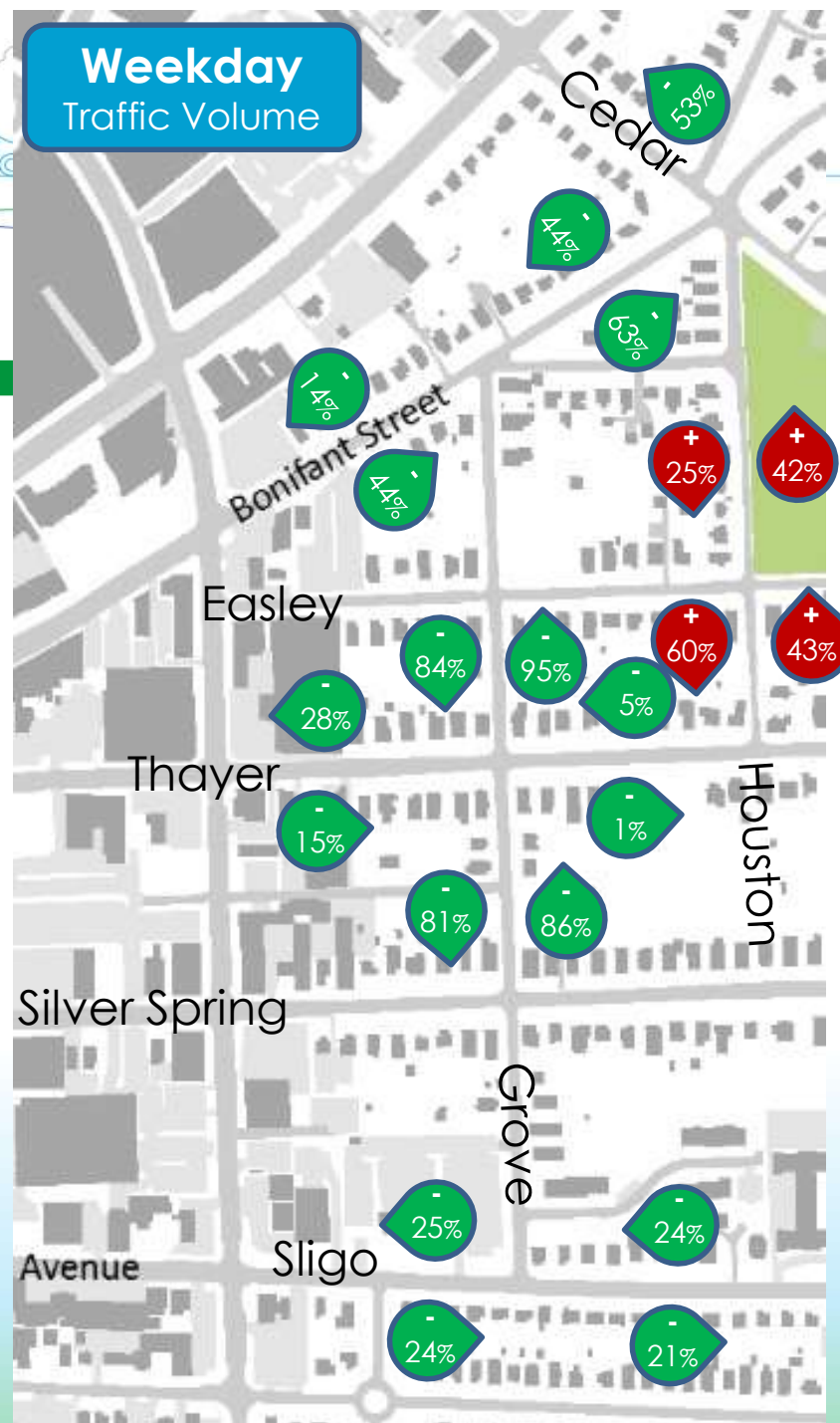
Example 2:

Southbound count location, with a 42% increase in traffic volume.



Map shows change in Average Daily Traffic (ADT)

This shows the percentage change in traffic volume from February 2020 to September 2020



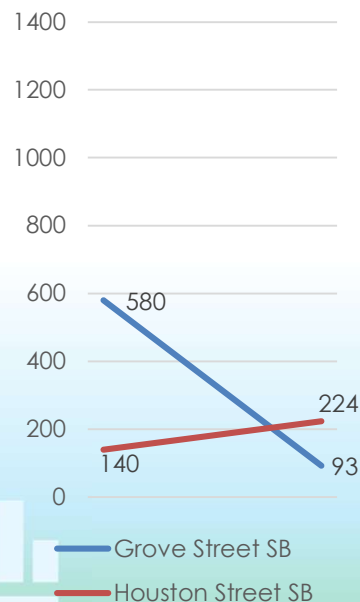


Grove & Houston Counts

44

- A closer look at volumes on Grove & Houston
 - While traffic volumes dropped on Grove and increased on Houston, it wasn't even.

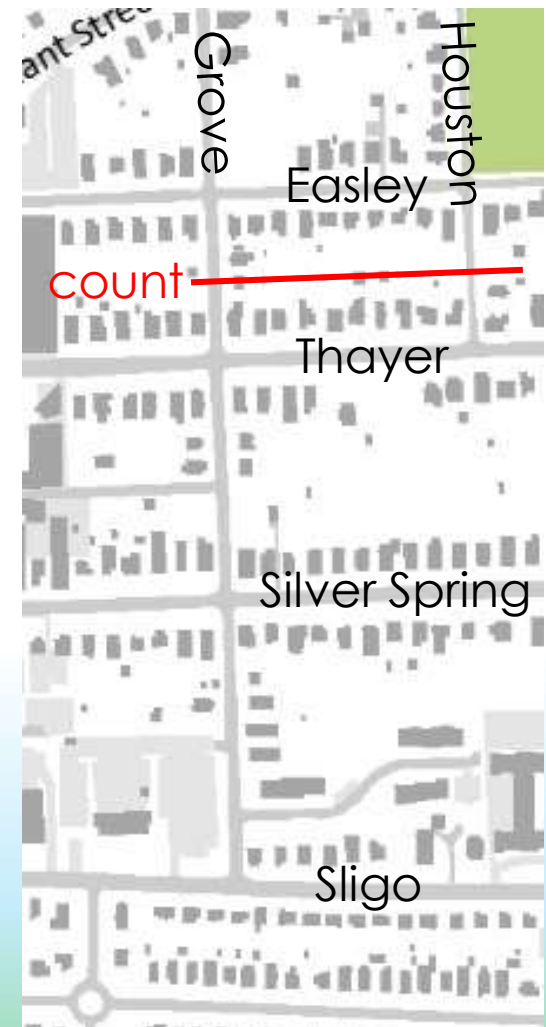
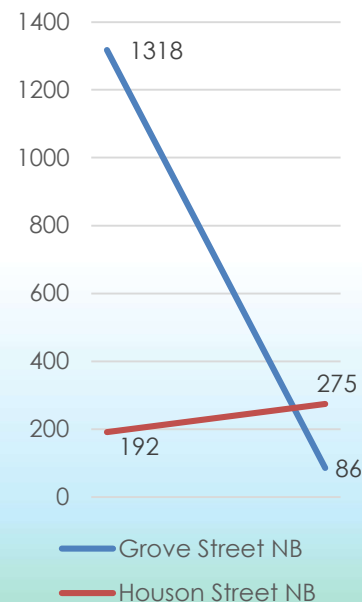
Southbound
weekday ADT
2/'20 – 9/'20



Southbound Grove traffic dropped by 487 cars/day, but Houston increased by only 84.

Northbound Grove traffic dropped by 1,232 cars/day, but Houston increased by only 83.

Northbound
weekday ADT
2/'20 – 9/'20





Survey or Shared Street Questions?

45

- We have time for 1 or 2 quick clarifying questions on the survey or the shared street now.
- **Questions only**, please. The comment period will be later.



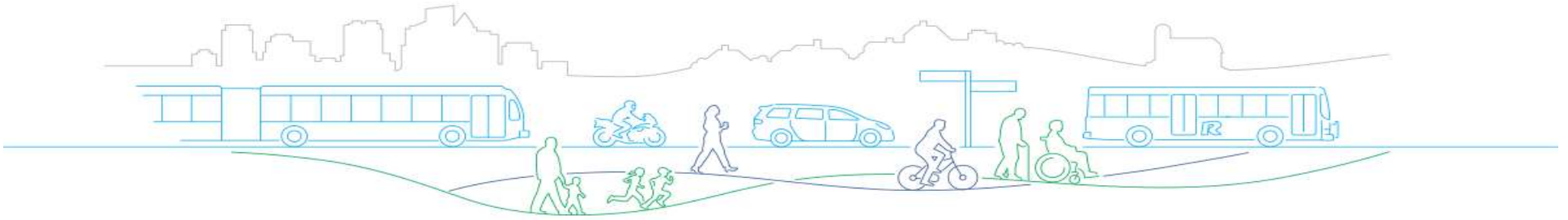
Section 3: Stage 1 Plans

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3





Stage 1 – Speed treatments

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- Stage 1 of the pilot will focus on speed treatments.
- Speed treatments are designed to slow down drivers through a combination of tools.
- Let's go over what speed treatments we're proposing.





Vertical and Horizontal deflection

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Temporary Speed Hump



Temporary Speed Hump (City of Buffalo)

Temporary Mini-Roundabout



Temporary Mini-Roundabout (Rockford, IL)





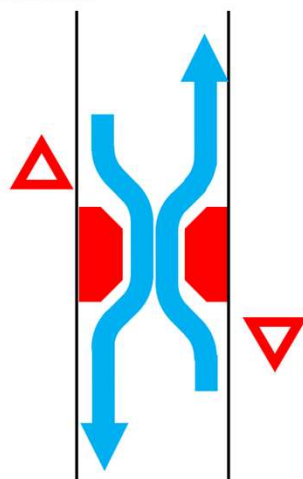
Narrowing

49

Temporary Choker (Neck-Down)



Temporary Choker (Richard Drdul)



choker

Temporary Bump-Out



Temporary Bump-Out (Jonathan Rogers)





Walking Space

50

- One of the most frequent comments we received after our January and July meetings was about the need for walking space.
- MCDOT will install a walking lane as part of Stage 1 on the west side of Grove Street.

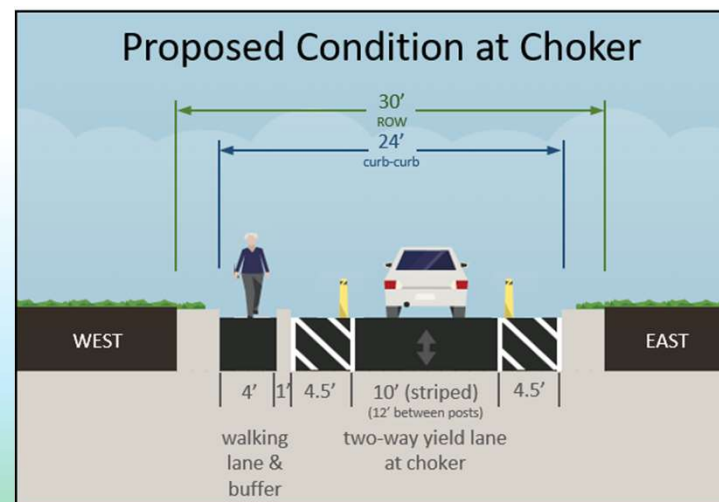
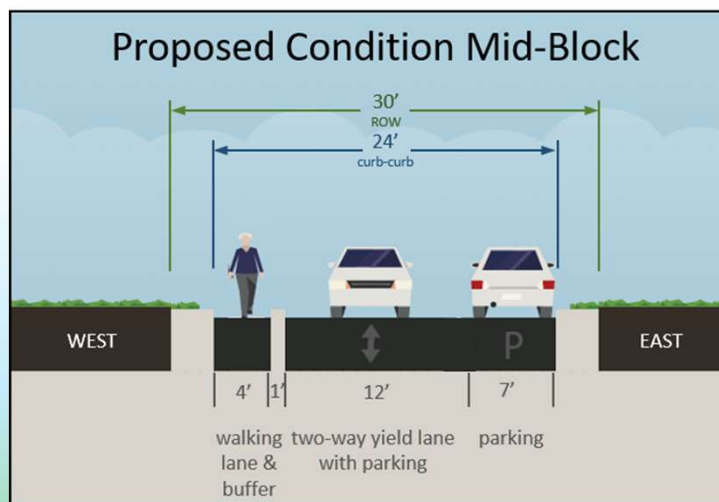
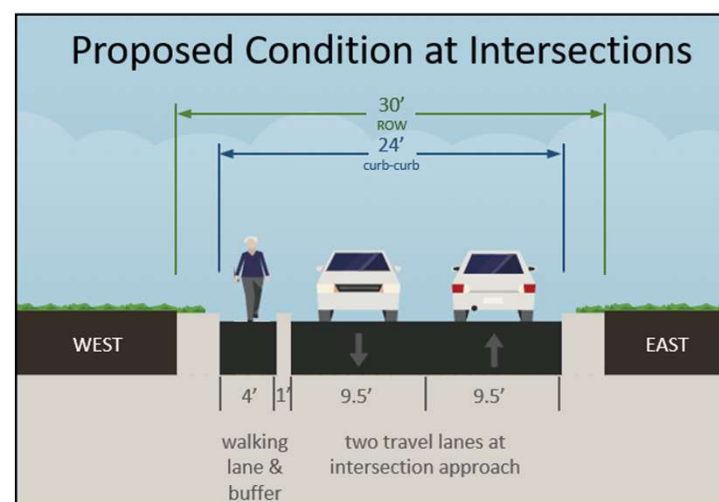
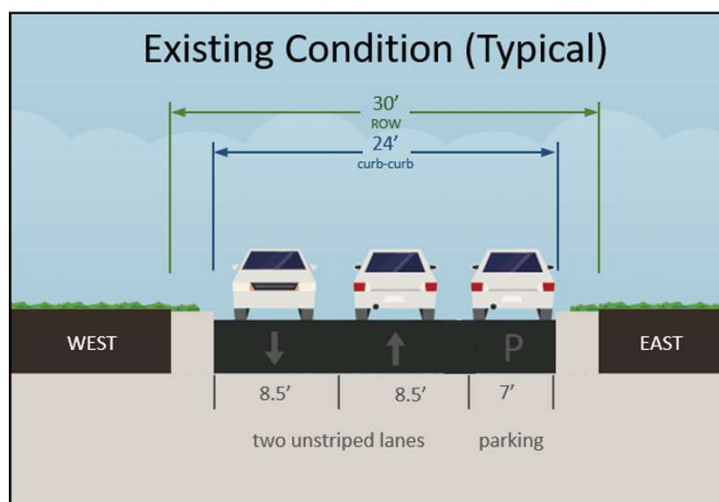


walking lane examples



Proposed implementation plan

51





Proposed implementation plan – Sligo to Silver Spring

52

- Parking changes
- Walking lane
- Speed humps
- Bump-outs on Silver Spring





Proposed implementation plan – Silver Spring to Thayer

53

- Walking lane
- Speed humps
- Bump-outs on Silver Spring, Thayer





Proposed implementation plan – Thayer to Easley

54

- Walking lane
- Bump-outs on Thayer

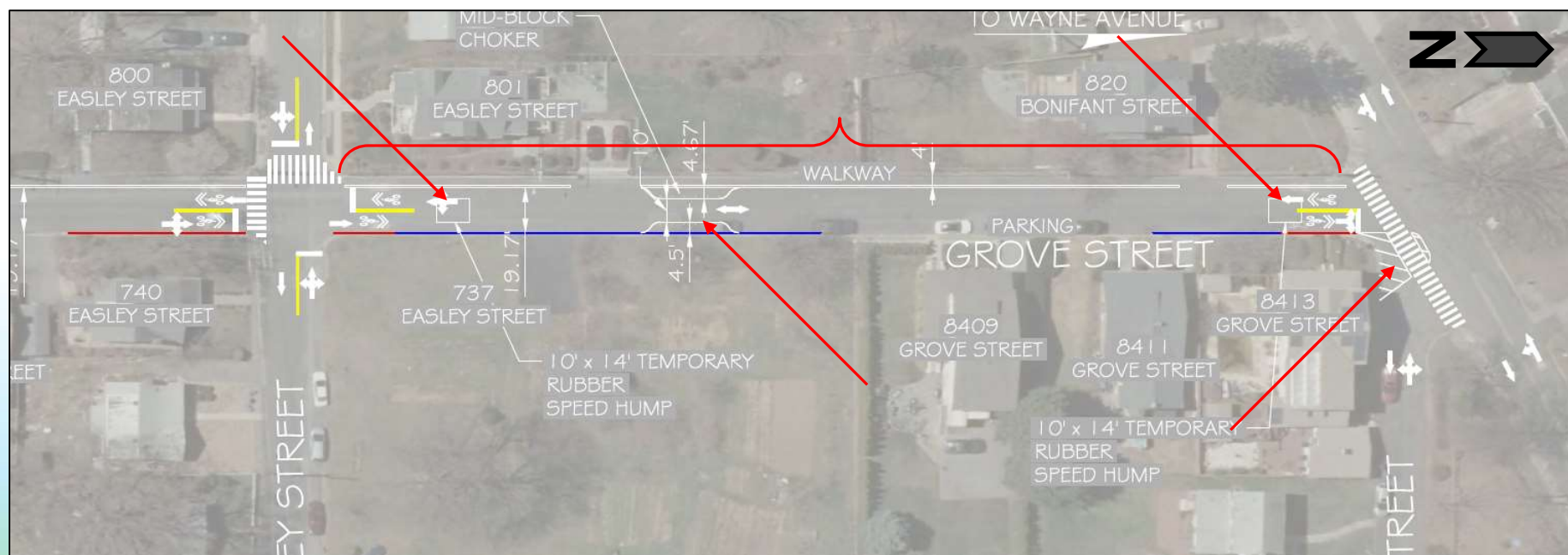




Proposed implementation plan – Easley to Bonifant

55

- Walking lane
- Speed humps
- Bump-out at Hankin/Bonifant
- Choker

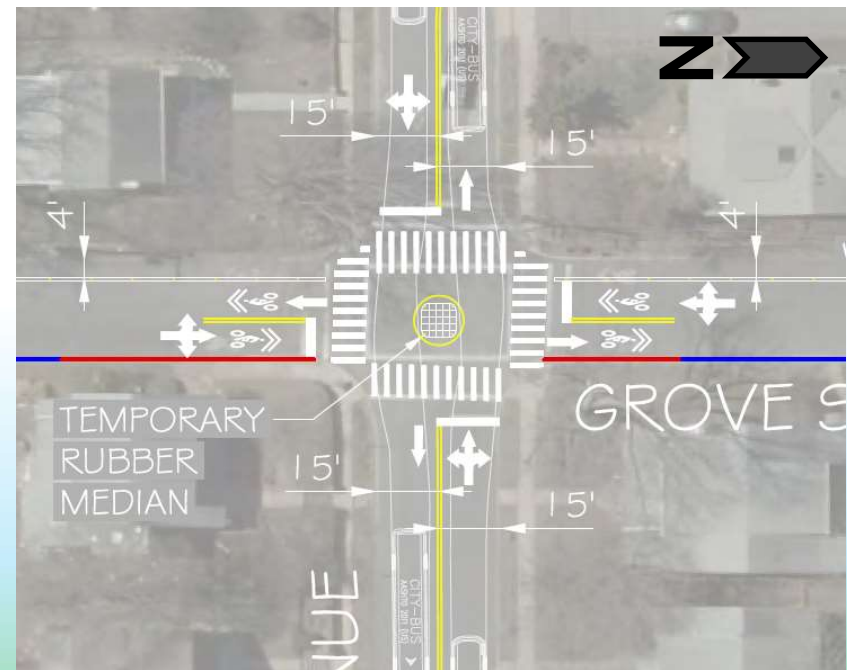
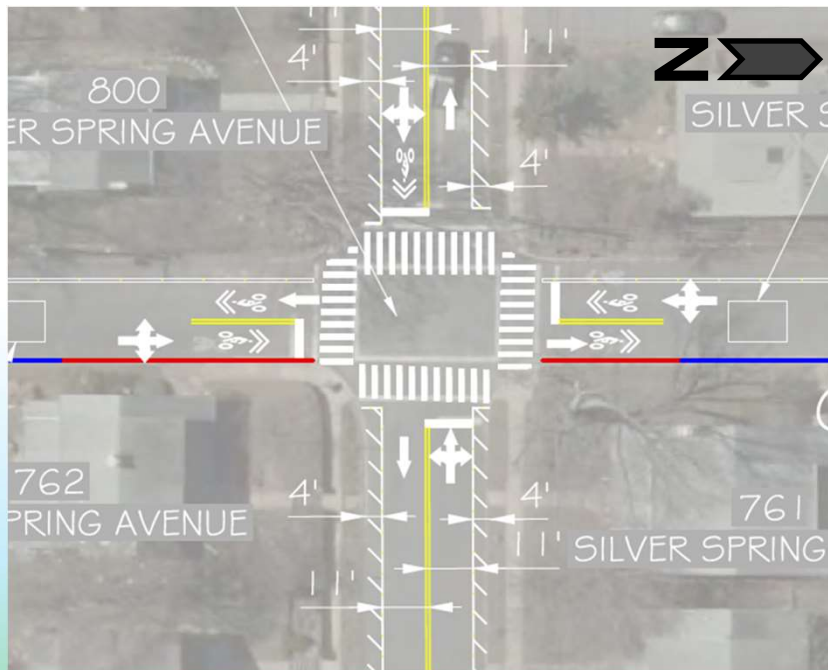




Proposed implementation plan – Mini-Roundabout

56

- We're considering a mini-roundabout at one intersection (Silver Spring Ave shown below), but the geometry is difficult.
- The roundabout graphic shows a turning template for a bus. This does not indicate a planned bus service but is used to show that larger vehicles can navigate the circle.





Next steps

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- In Fall 2020, MCDOT will install the first round of treatments.
- The treatments will be in place for at least 3 months.
- MCDOT will monitor how the treatments are working and will make modifications if necessary.
- In early 2021, we will come back to the community to gather feedback about how Stage 1 is working and to discuss the possible treatments for Stage 2.





Stage 1 Questions?

58

- We have time for 1 or 2 quick clarifying questions on the proposed Stage 1 plans now.
- **Questions only**, please. The comment period will be coming up shortly.



Agenda

59

- 7:00: Overview of Zoom features
- 7:10: Introductions
- 7:15: Meeting presentation
- **7:45: Public comment**
- 9:00: Adjourn





Public Comment

60

- Please be respectful of the other attendees and give others a chance to speak by keeping your comments concise.
- You will need to request to unmute yourself by raising your hand.
- Remember, if you're dialing in by phone, you can raise your hand by dialing *9 and can unmute yourself by dialing *6 once we allow you to unmute.
- If you don't feel comfortable asking a question or making a comment out loud, please use the chat feature to chat to **Kyle Lukacs**.



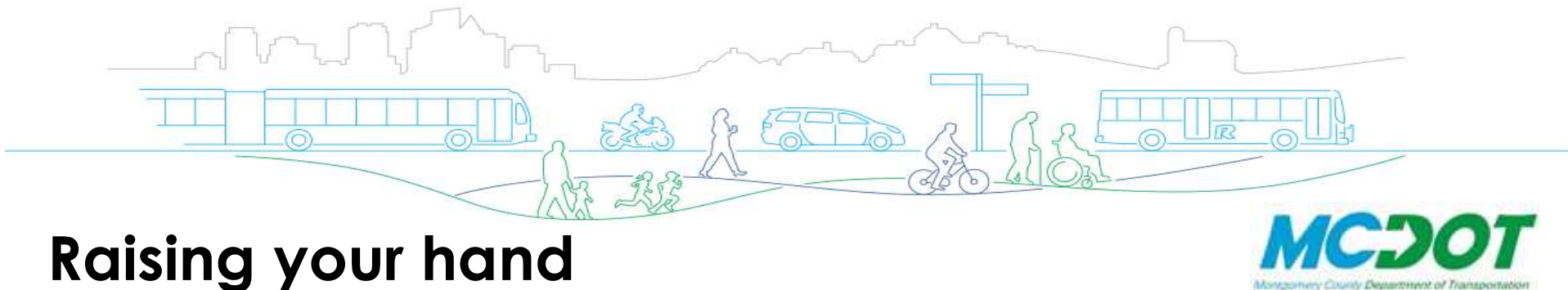


Public Comment

61

- Any comments or questions you have regarding the Grove Street project are welcomed.
- It would be helpful for us to hear your concerns or thoughts on **specific elements** of the Stage 1 plans.
 - Are there particular **blocks** or **intersections** where you have concerns?
 - Are there **treatments** proposed that you don't like or do not think are appropriate?
 - What is missing from these plans?
 - Do you have any **other concerns** about the project?
 - What else do you think we **need to know**?





Raising your hand

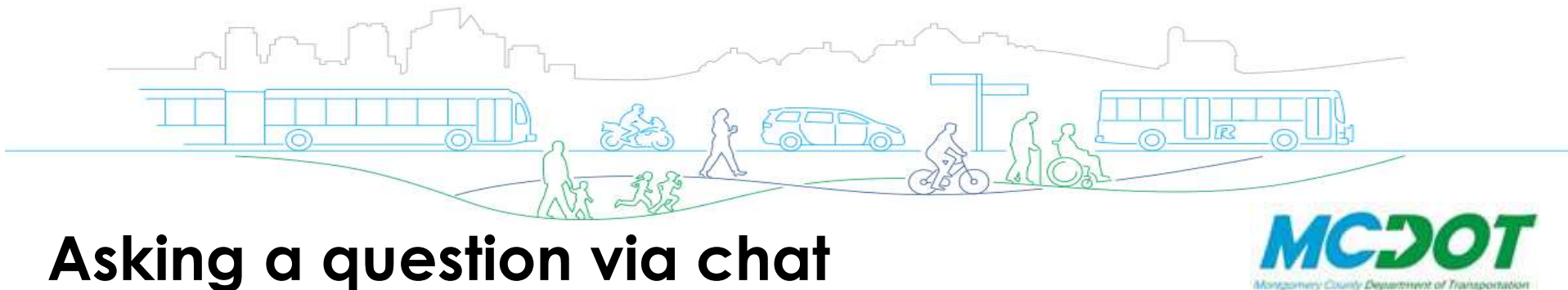
62

- Raise your hand
 - If you'd like to speak to ask a question or make a comment, please **raise your hand**

To raise your hand

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- A new window will appear. Click the blue "raise hand button".
- If you've dialed in by phone, dial *9.





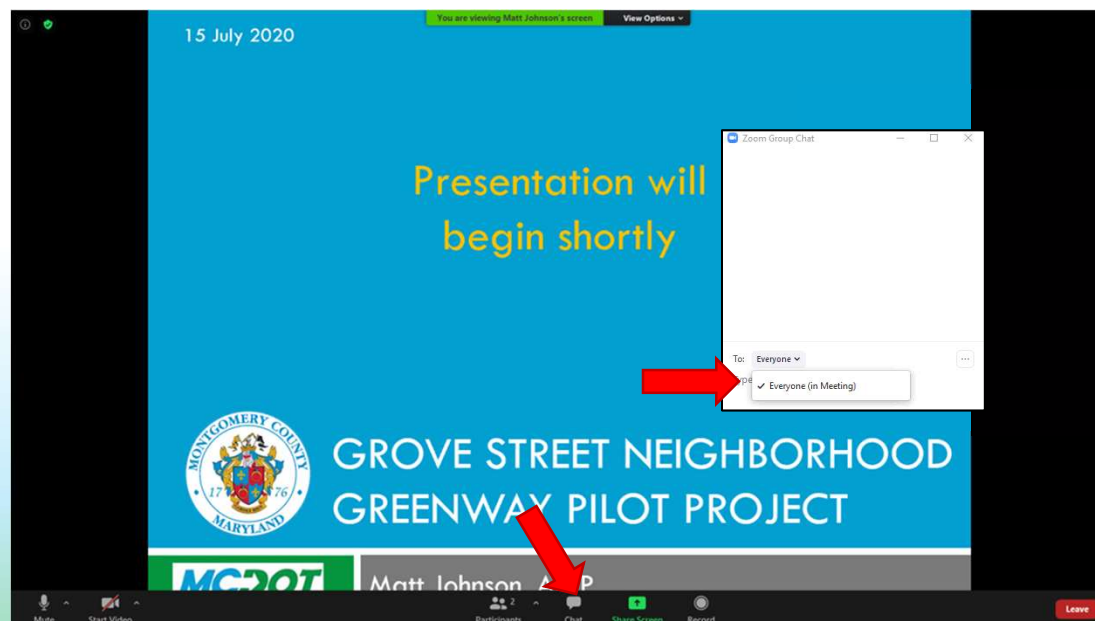
Asking a question via chat

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- Ask a question (Text)
 - If you have a question you'd prefer to ask through the chat feature (without speaking) or if your microphone isn't working follow these steps.

To send a chat:

- Click "chat" in the bottom menu
- A new window will appear. In the "to" field, change the drop down to "Kyle Lukacs"
- Type your question and send it.



Public Comment

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Thank you for providing your input.

Please submit comments in writing
by **Friday, October 9, 2020.**

Email is preferred:

Matt.Johnson@MontgomeryCountyMD.gov

By mail:

MCDOT Transportation Engineering
100 Edison park Drive
4th Floor SE
Gaithersburg, MD 20878

