Welcome!
We will begin shortly…

Virtual Meeting Schedule	
6:00 – 6:10	Welcome
6:10 – 6:45	Presentation
6:45 – 7:00	Presentation Q & A (General)
7:00 – 7:45	Focus Group Discussions/Zoom Breakout Rooms
7:45 – 8:00	Come Back Together/Wrap-Up

CITY OF MADISON

Stricker's/Mendota Watershed Study Public Information Meeting No. 3

by City of Madison Engineering Division

May 20, 2021

Please Note: 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.

- ✓ This meeting will be **recorded** and posted to the City's project page.
- ✓ All attendees should stay be **muted** to keep background noise to a minimum.
- ✓ You may use the **"raise hand"** option at the bottom if you have something that required immediate clarification.
- ✓ Use **"chat"** option if you are having technical issues and a staff person can try to assist.
- ✓ Please use the **"Q&A"** option at the bottom of the screen to type your question. Questions will be answered at the end of the presentation. Inappropriate questions may be dismissed.
- ✓ If you cannot ask via typing your question, use the "raise hand" option and you will be unmuted when it is your turn.

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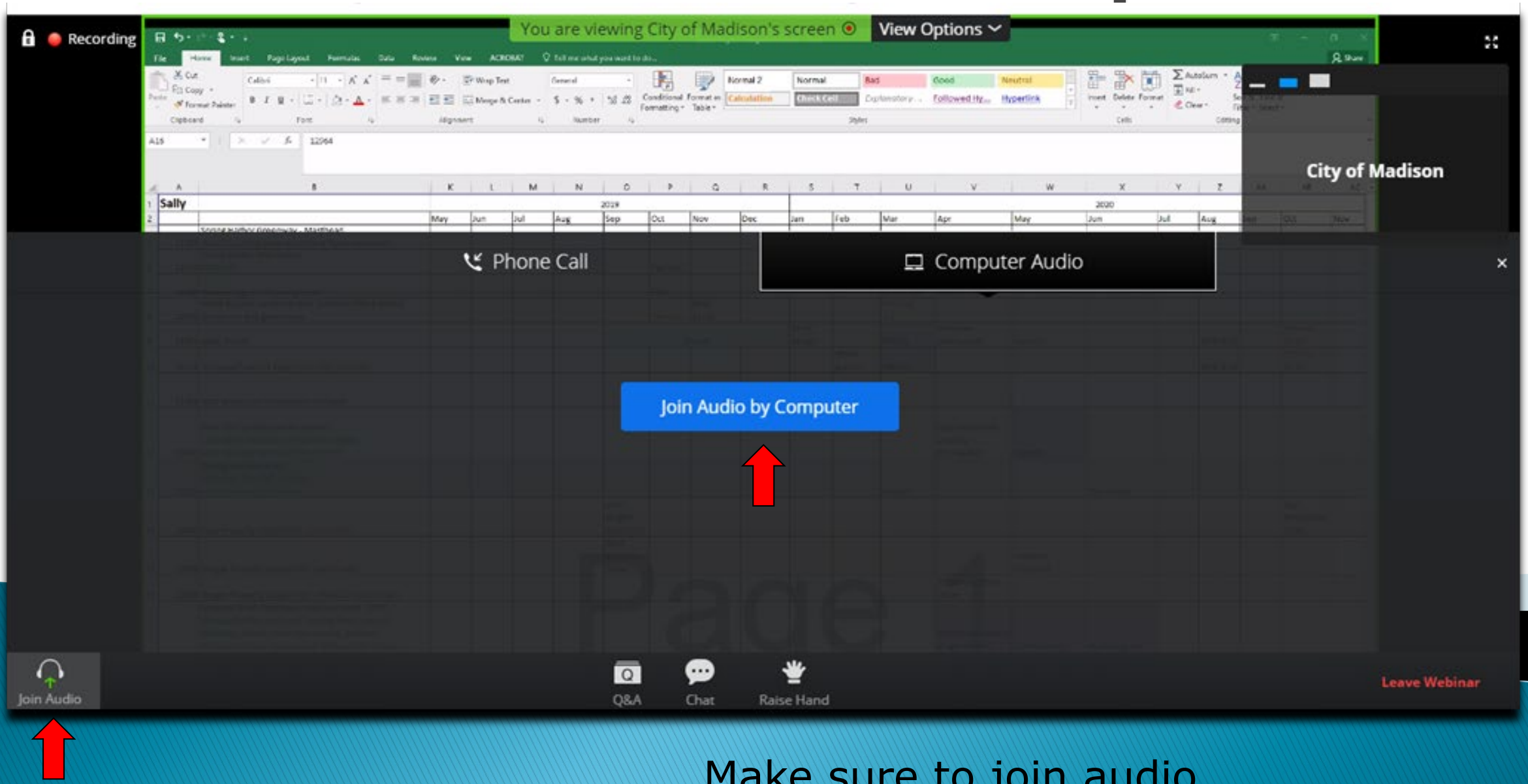
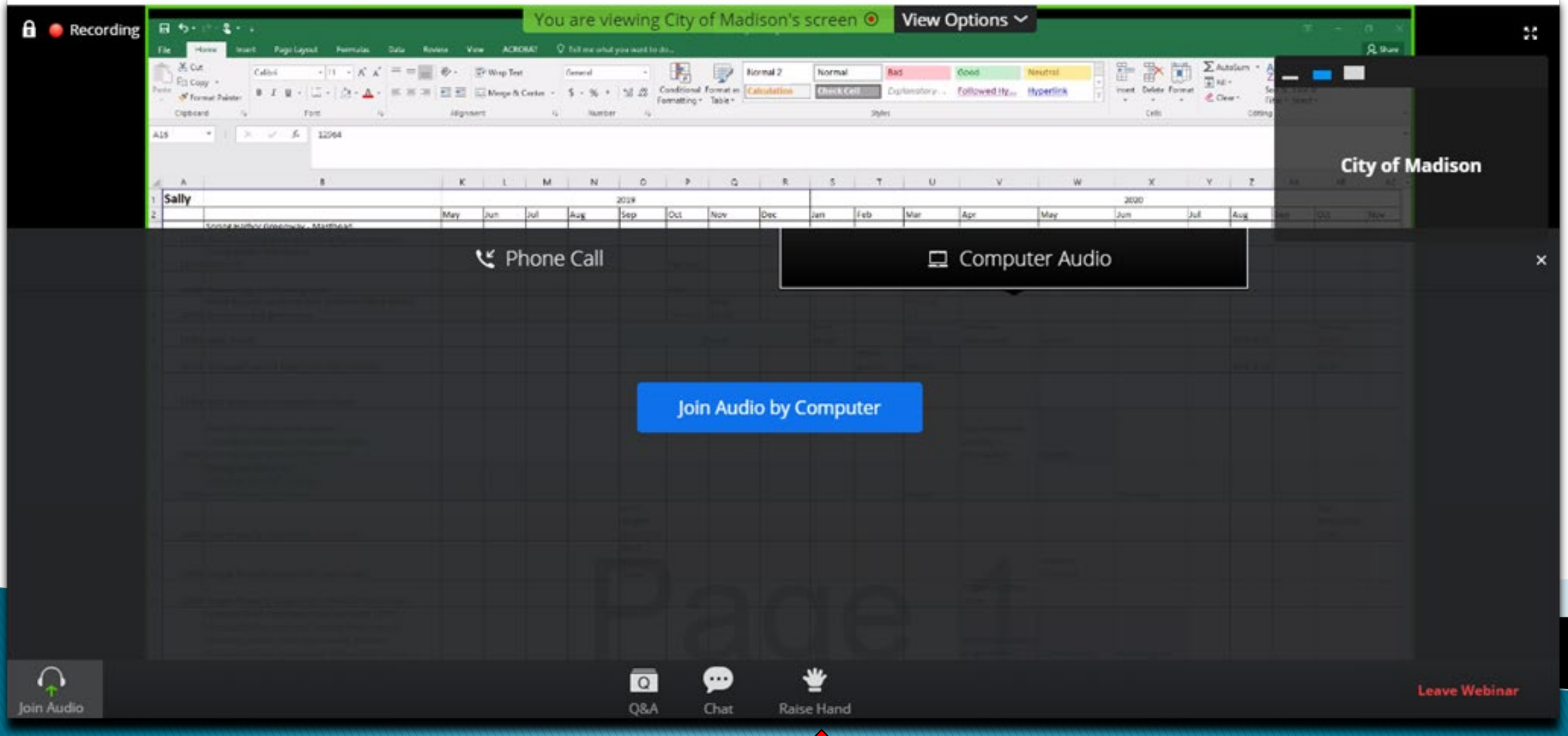
How to Participate



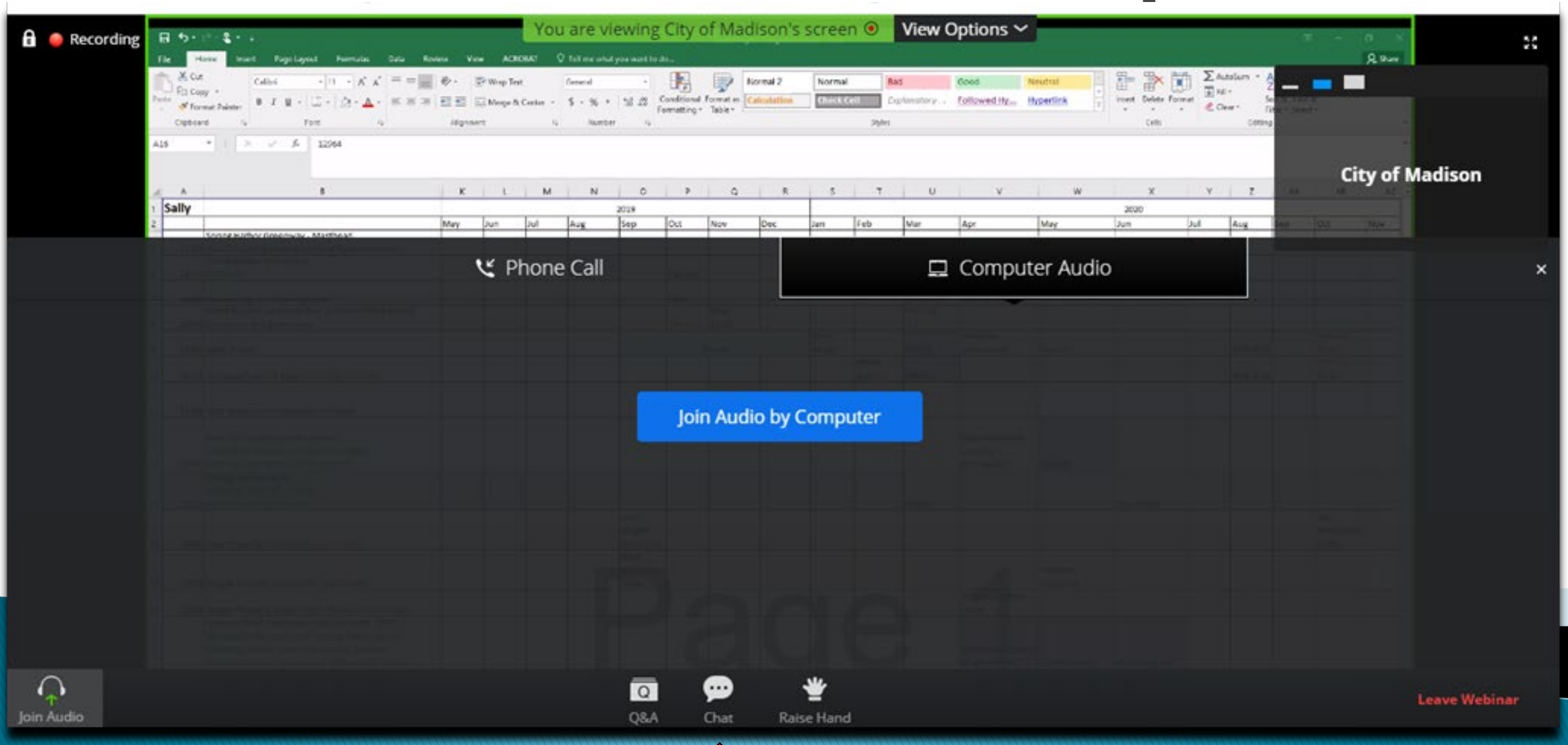
Make sure to join audio

How to Participate



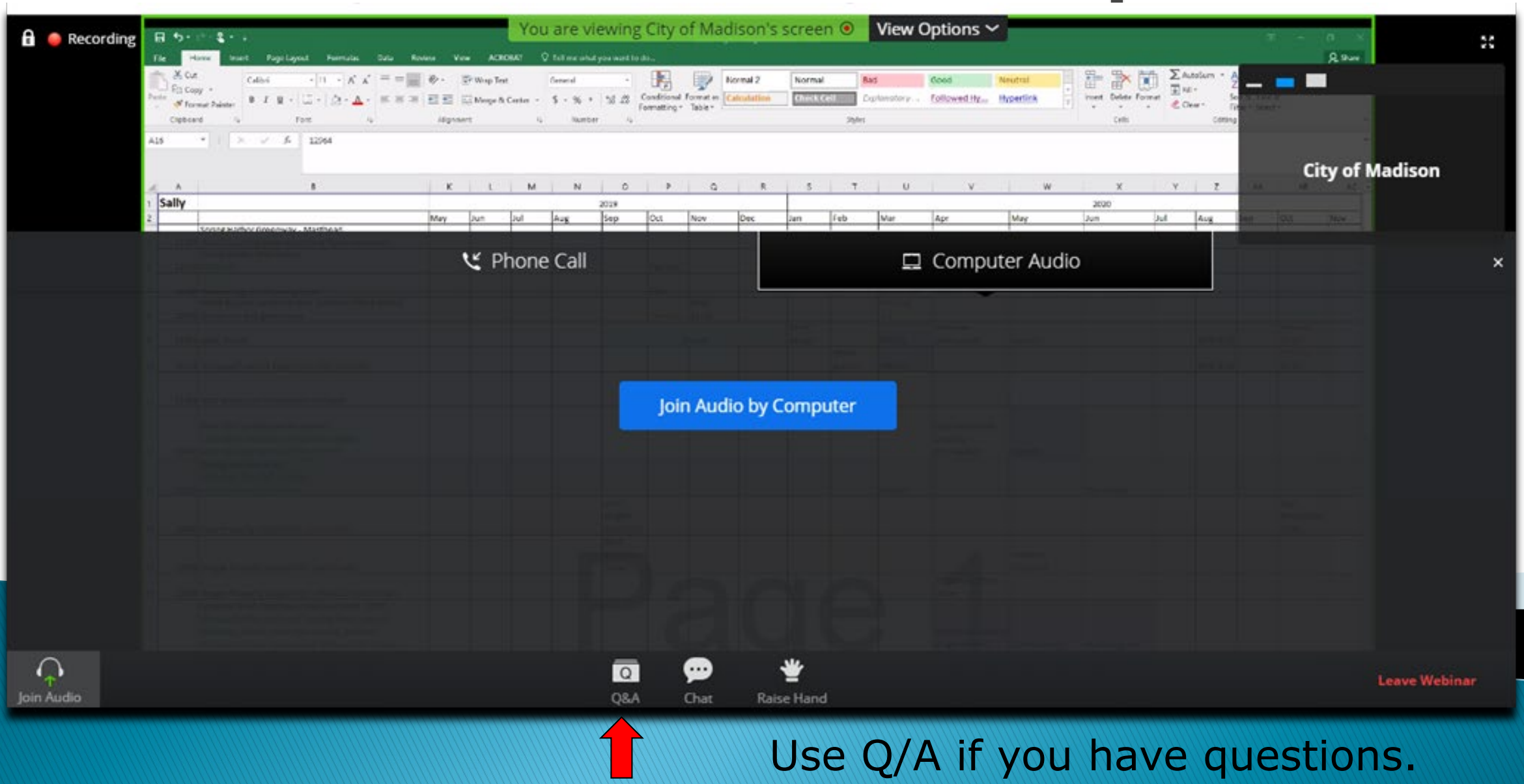
Raise your hand to be unmuted
For comments or ask additional questions.

How to Participate



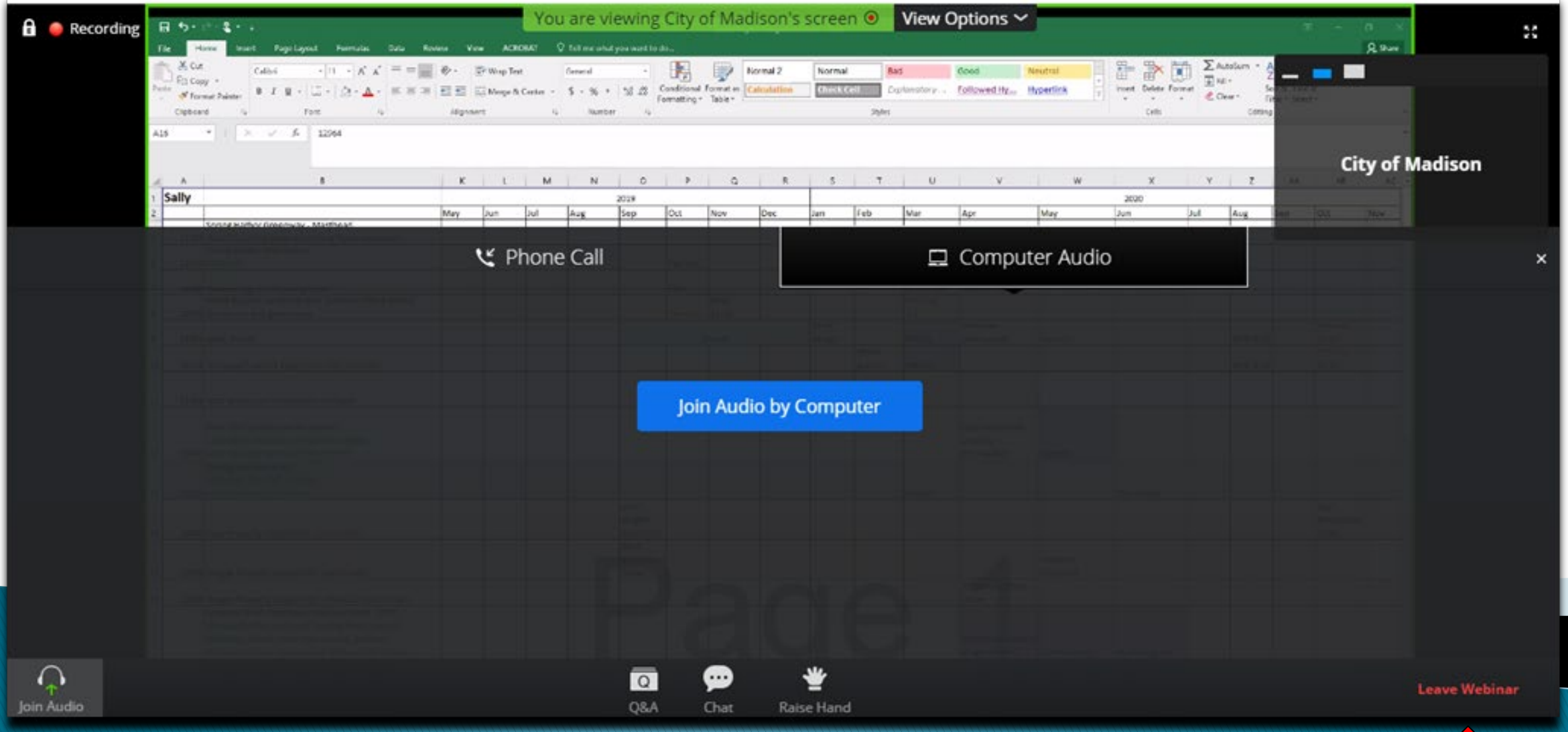
Use chat if you have technical issues or a question for the panelists

How to Participate



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

How to Participate



To leave the meeting click here

Evening Overview

- Welcome (Hannah Mohelnitzky, City of Madison)
- Presentation (Brown and Caldwell, City of Madison)
- Q&A (facilitated by Hannah Mohelnitzky, City of Madison)
  - Submit questions through Zoom Q&A
    - *To find the Zoom Q&A Box, hover over the edge of your screen. A toolbar will appear and you can click on "Q&A"*
  - Questions answered at the end of the Presentation
- Wrap Up (Hannah Mohelnitzky, City of Madison)
- Breakout to Focus Groups (City of Madison staff)
  - A link for the Focus Groups will be posted in the Zoom Group Chat box.

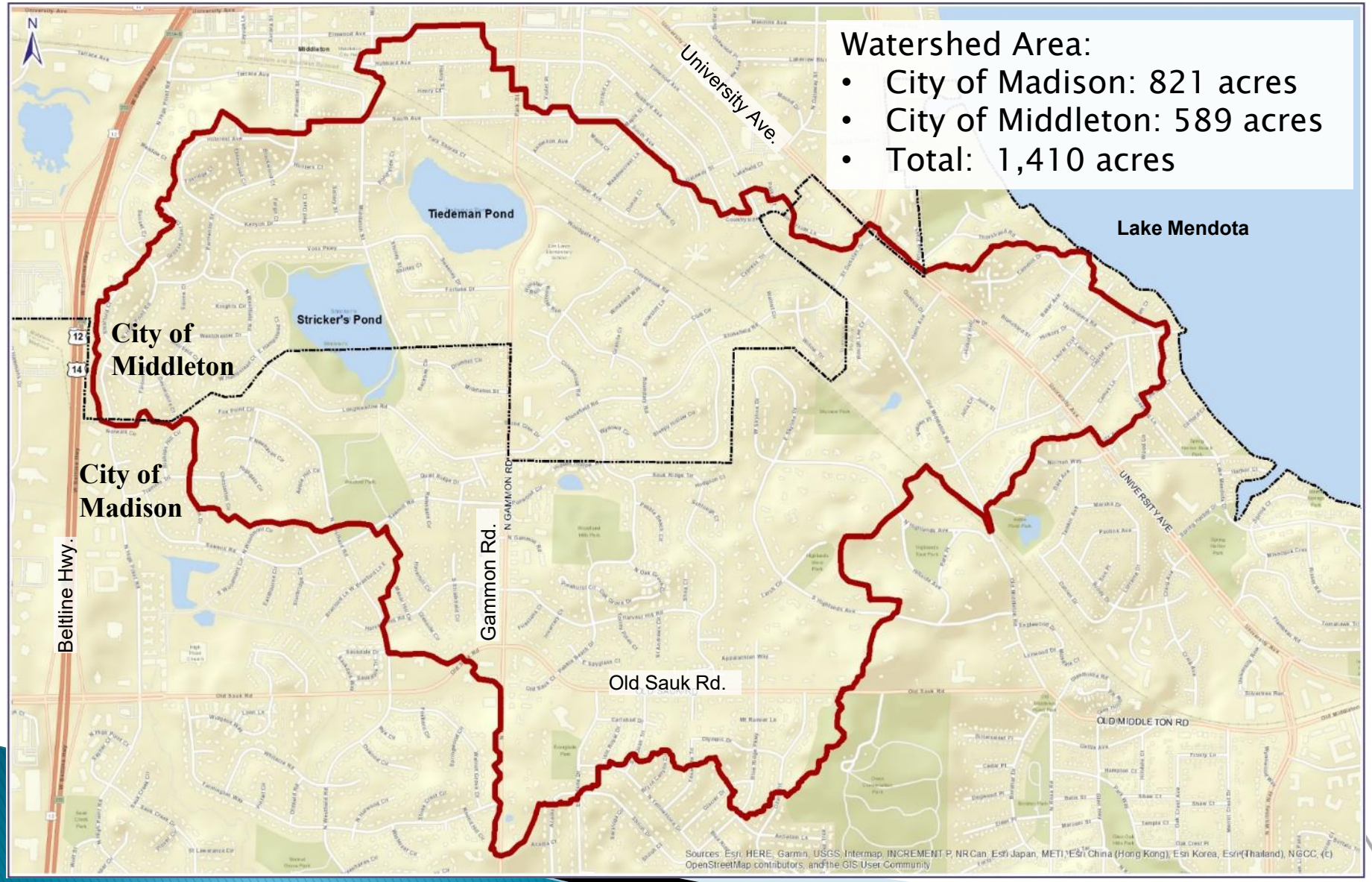
Presentation Overview

- Definitions of commonly used terms
- Project location
- Watershed study schedule
- Flood mitigation goals
- Inundation mapping
- Proposed solutions development process
- Proposed solutions
  - Local storm sewer
  - Standalone projects
  - Private property
- Implementation and cost
- Why aren't all flood targets met?
- Next steps

Definitions of commonly used terms

- **Stormwater**: rainwater produced from a rain event
- **Stormwater runoff**: the portion of the rainwater that does not soak into the ground
- **Stormwater inlets**: grates in the ground that take in stormwater runoff; connected to the stormwater conveyance system
- **Detention ponds**: ponds designed to hold stormwater runoff to improve water quality and/or help prevent flooding
- **Model**: computer software that is used to evaluate the stormwater conveyance system
- **Local Sewer Projects**: storm sewer that is reconstructed with another already-scheduled project – typically street reconstruction
- **Stand-alone Projects**: Flood mitigation projects that will be constructed on their own – not tied to another already-scheduled project

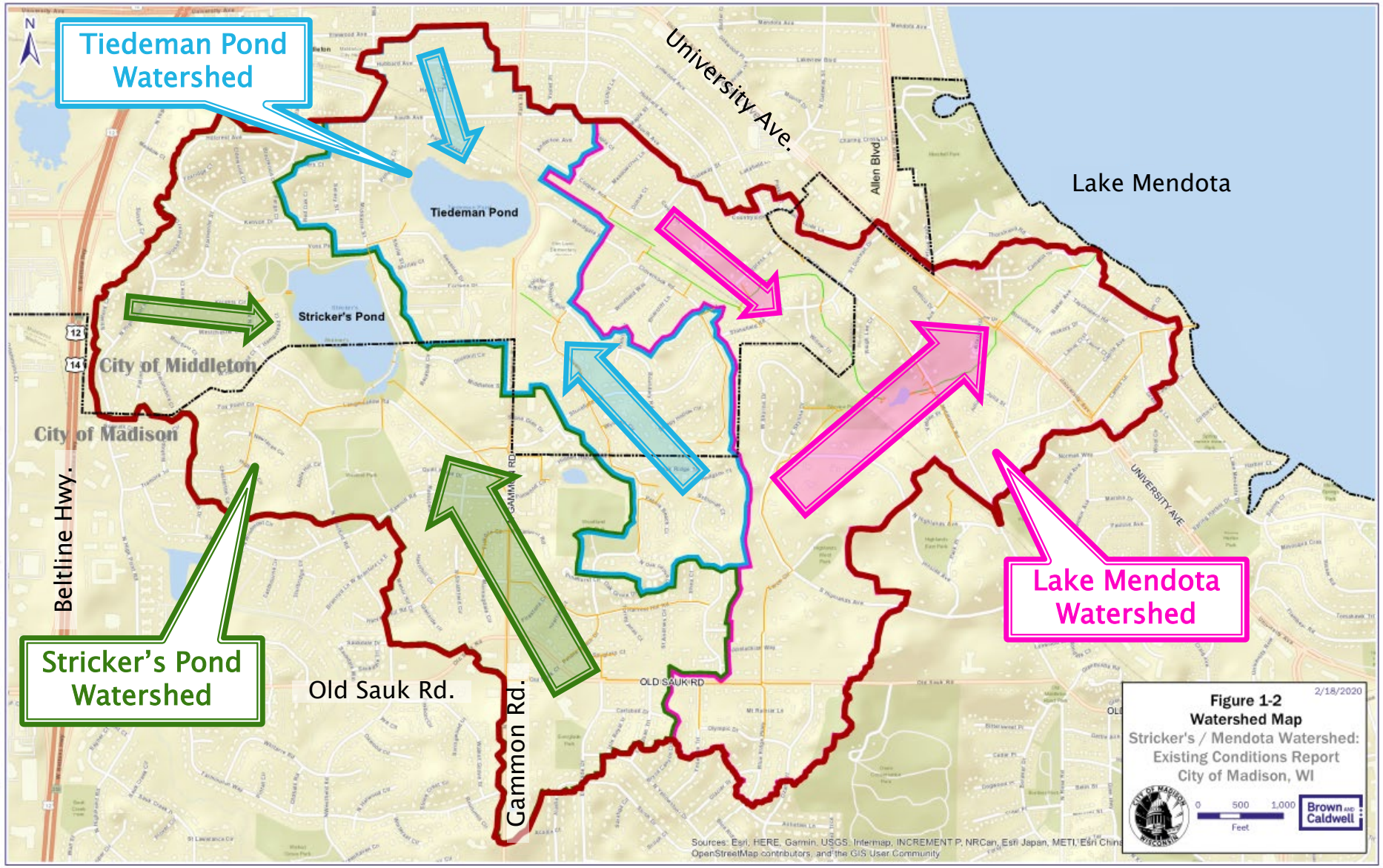
Project Location



A watershed is an area of land that drains to a single location.

This is the Stricker's / Mendota Watershed in the City of Madison.

Project Location



The Stricker's / Mendota Watershed actual drains to two areas

- Stricker's and Tiedeman Ponds
- Lake Mendota

Areas were combined due to proximity and potential overland flow connections.

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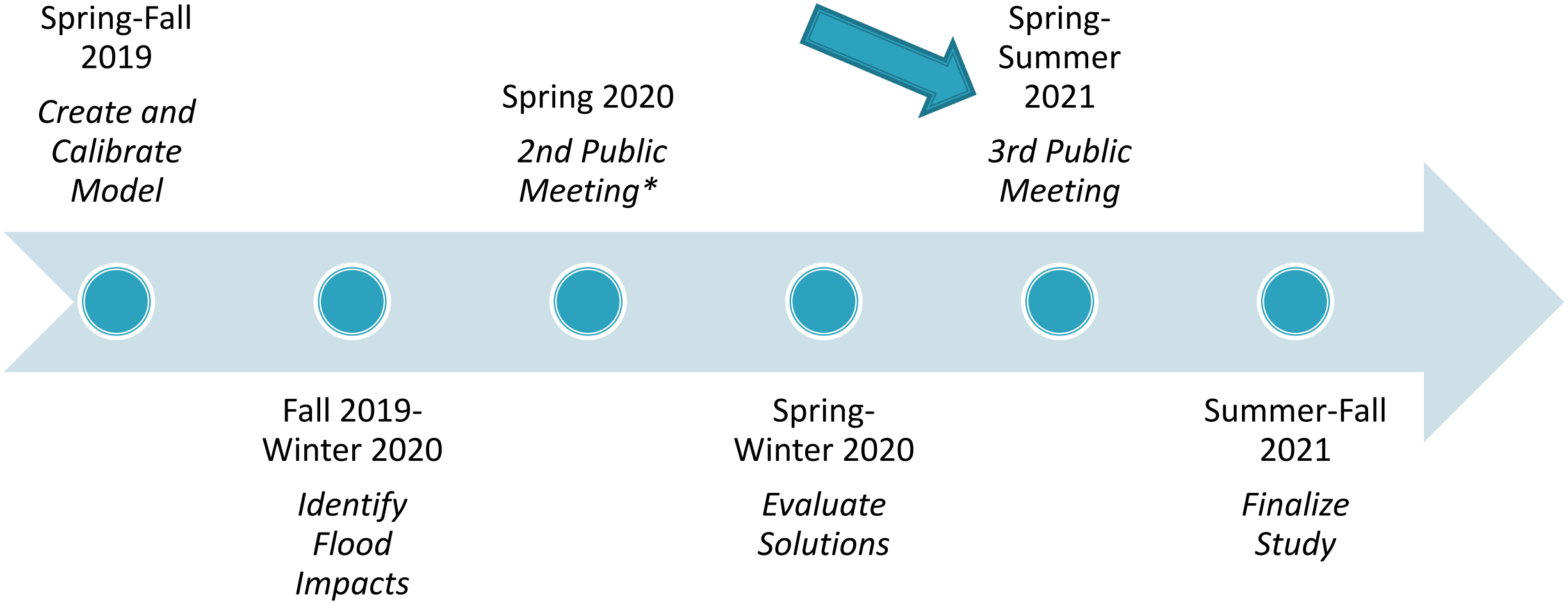
Schedule



*Presentations from PIM1 and PIM 2 can be found on the Watershed Study Website

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Flood Mitigation Goals for First Watershed Studies

- 10% Chance Event (4.09” rain/24 hours)
  - No surcharging of storm sewer onto roadway (storm sewer pipes are sized to carry storm)
- 4% Chance Event (5.01” rain/24 hours)
  - 0.2’ at Centerline of Road (roads passable for emergency vehicles)
- 1% Chance Event (6.66” rain/24 hours)
  - No structure (home/building) flooding
  - No greenway crossing overflow (stormwater does not come out of greenway and flow over the road)
- 0.2% Chance Event (8.81” rain/24 hours)
  - Safe conveyance of overflow

Flood Mitigation Goals for First Watershed Studies

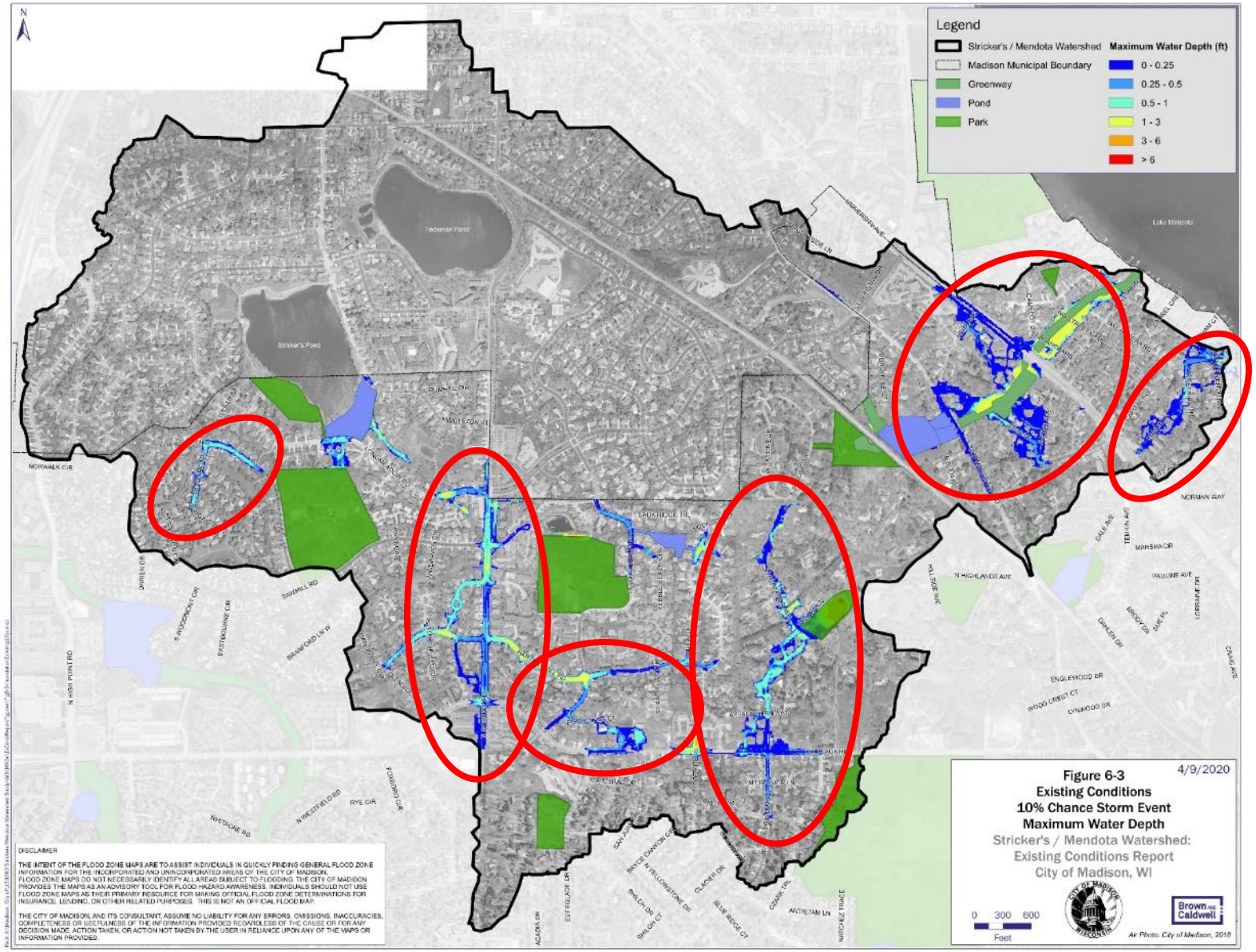
- Not all goals may be met for all areas of the watershed
  - Problems are complex – mitigating factors discussed later in the presentation
  - For the Strickers/Mendota watershed, goals were met by proposed solutions in majority of watershed

INUNDATION MAPPING DISCLAIMER

THE INTENT OF THE INUNDATION MAPS ARE TO ASSIST INDIVIDUALS IN QUICKLY FINDING GENERAL FLOOD RISK INFORMATION FOR THE INCORPORATED AND UNINCORPORATED AREAS OF THE CITY OF MADISON. INUNDATION MAPS DO NOT NECESSARILY IDENTIFY ALL AREAS SUBJECT TO FLOODING. THE CITY OF MADISON PROVIDES THE MAPS AS AN ADVISORY TOOL FOR FLOOD HAZARD AWARENESS. INDIVIDUALS SHOULD NOT USE INUNDATION MAPS AS THEIR PRIMARY RESOURCE FOR MAKING OFFICIAL FLOOD RISK DETERMINATIONS FOR INSURANCE, LENDING, OR OTHER RELATED PURPOSES. THIS IS NOT AN OFFICIAL FLOOD MAP.

THE CITY OF MADISON ASSUMES NO LIABILITY FOR ANY ERRORS, OMISSIONS, INACCURACIES, COMPLETENESS OR USEFULNESS OF THE INFORMATION PROVIDED REGARDLESS OF THE CAUSE OR FOR ANY DECISION MADE, ACTION TAKEN, OR ACTION NOT TAKEN BY THE USER IN RELIANCE UPON ANY OF THE MAPS OR INFORMATION PROVIDED.

10% Chance (10-year) Existing Inundation Mapping



- 5.6 miles of street do not meet 10% goal
- Locations where 10% chance goals are not met

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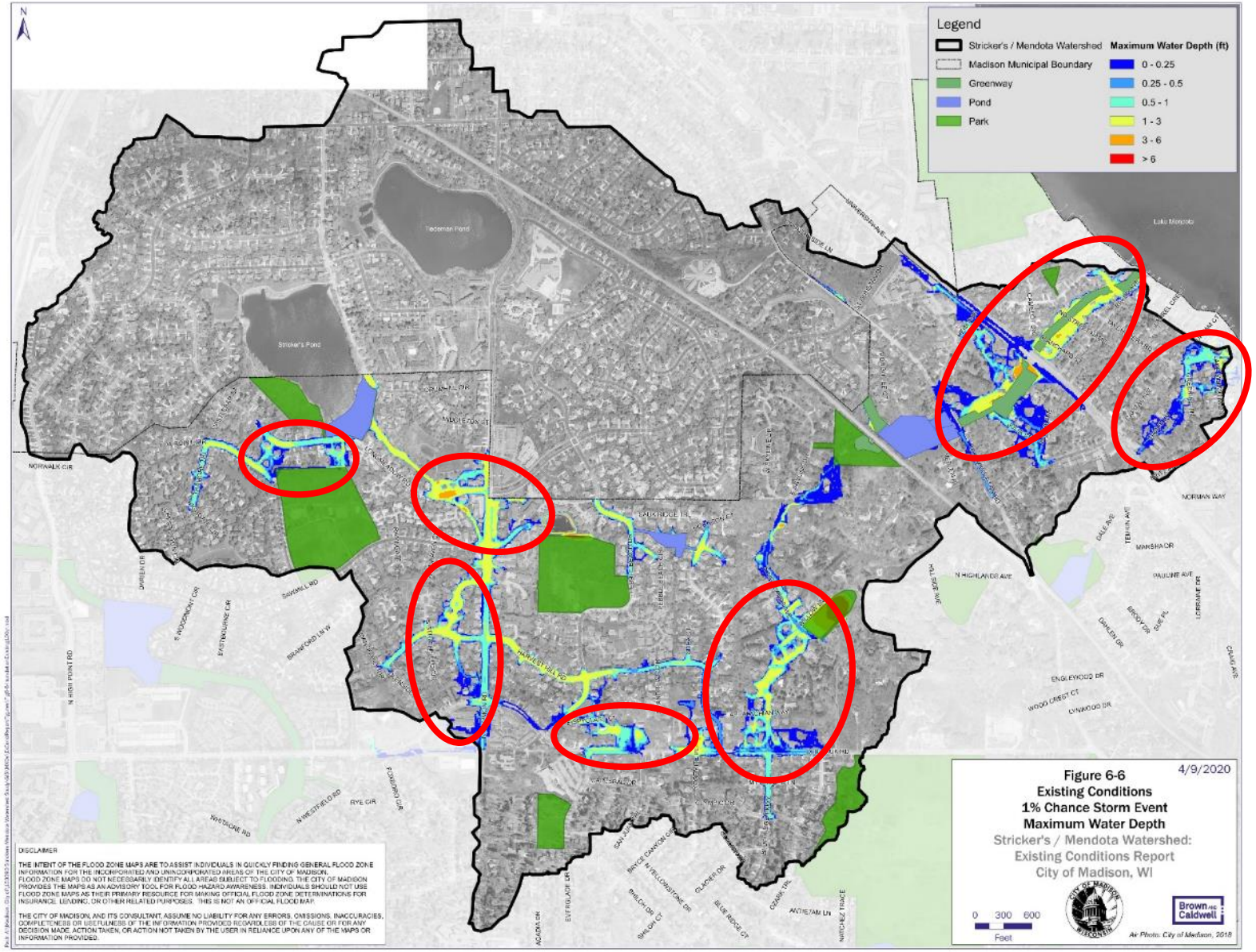
1% Chance (100-year) Existing Inundation Mapping



- 91 structures flooded in existing conditions
- Locations where 1% chance goals are not met

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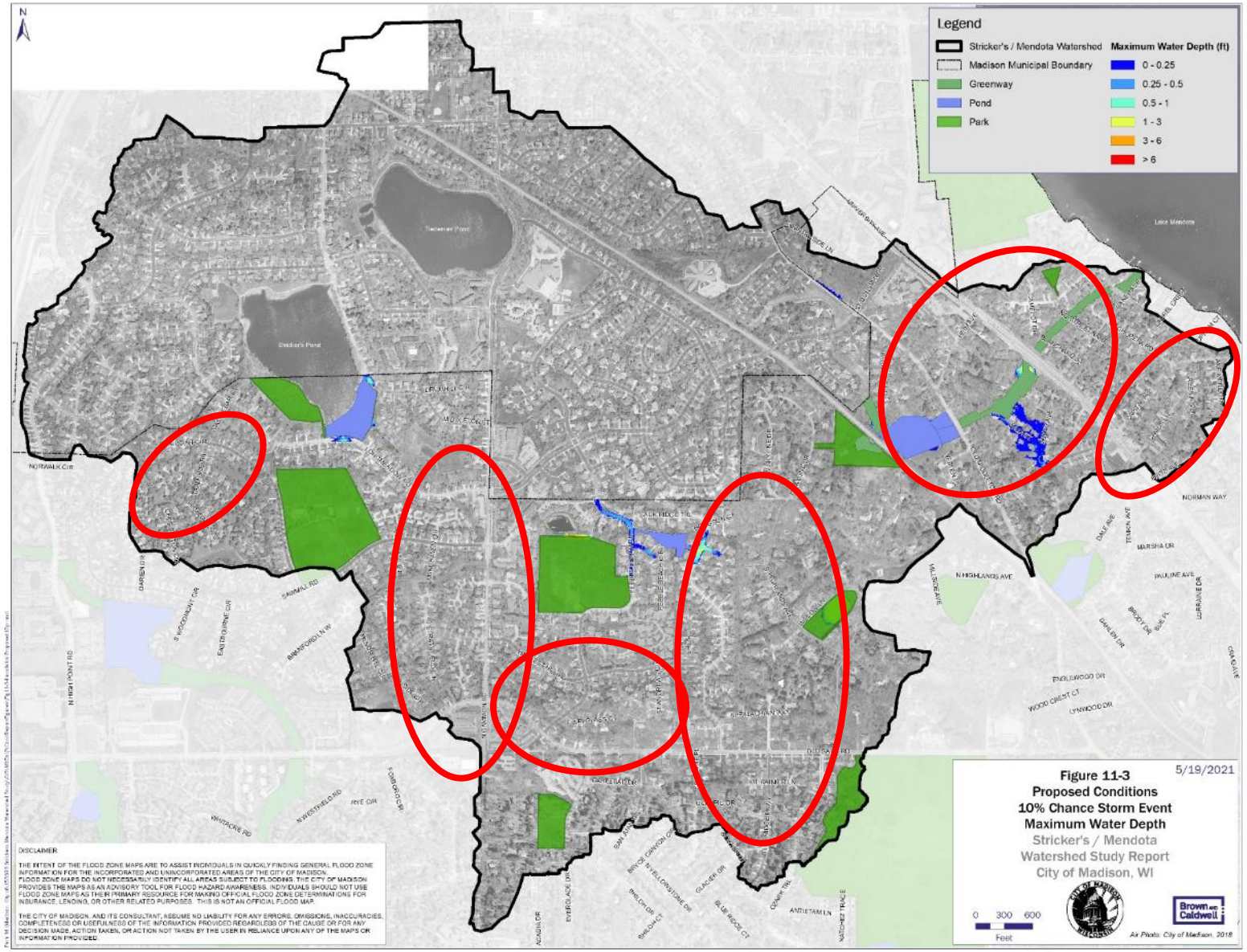
Proposed Solutions Process

- Iterative process
  - Brainstormed solutions
  - Consultant analyzed ideas and provided results
  - Some solutions not found to be viable for various reasons
  - Several meetings to develop the “suite of solutions”
- Met with City Agencies for feedback on
  - Impacts to Agency’s infrastructure/property
  - Additional solutions
  - Places for cooperation/win-win solution
- Revised solutions based on agency feedback
- Met with the Alders for each district
- Meeting with you tonight

10% Chance (10-year) Proposed Inundation Mapping



- 4.9 miles of additional streets now meet 10% goal
- Locations where 10% chance goals were not met in existing conditions

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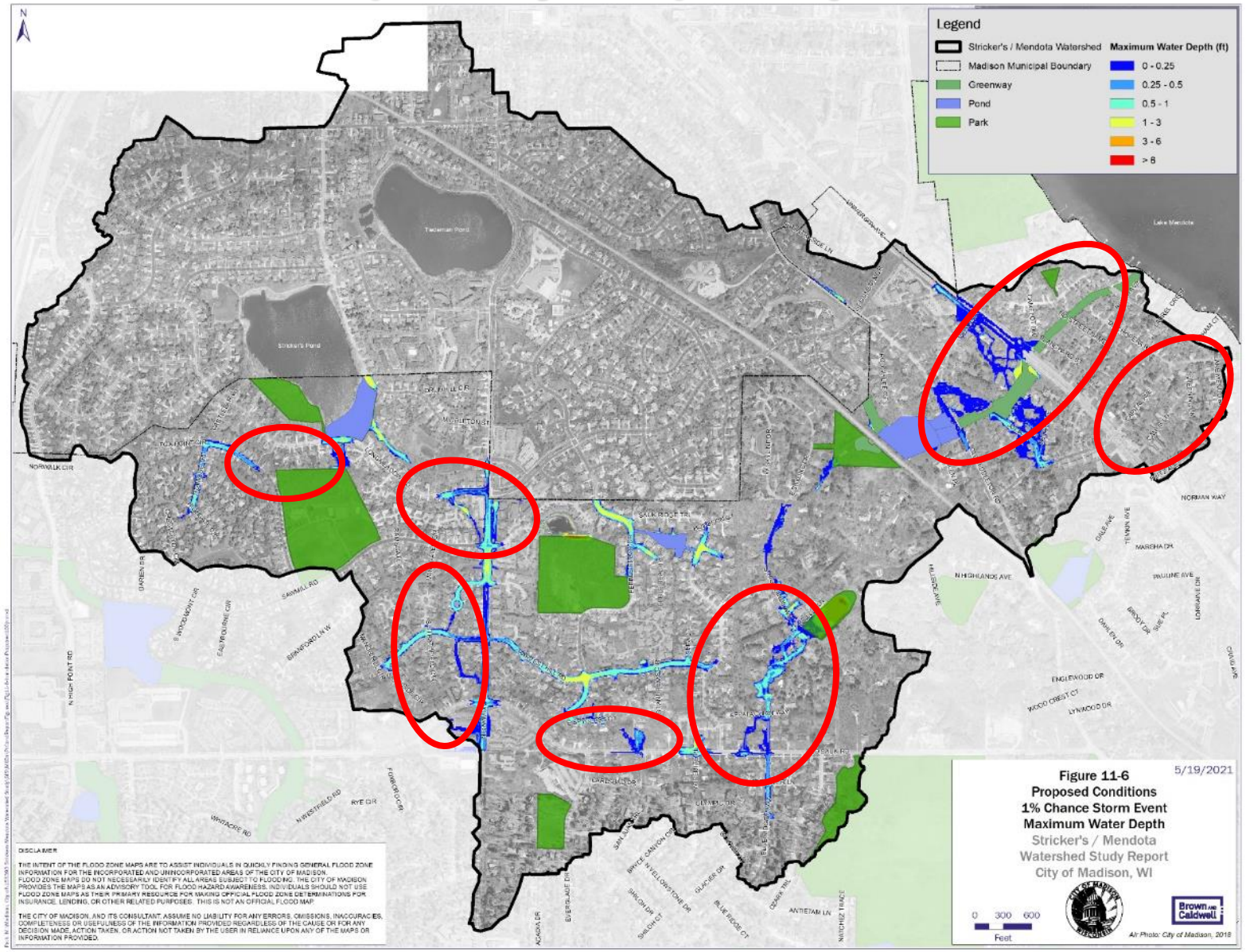
1% Chance (100-year) Proposed Inundation Mapping



- 76 structures now meet 1% chance storm goal (no flood impacts)
- Locations where 1% chance goals were not met in existing conditions

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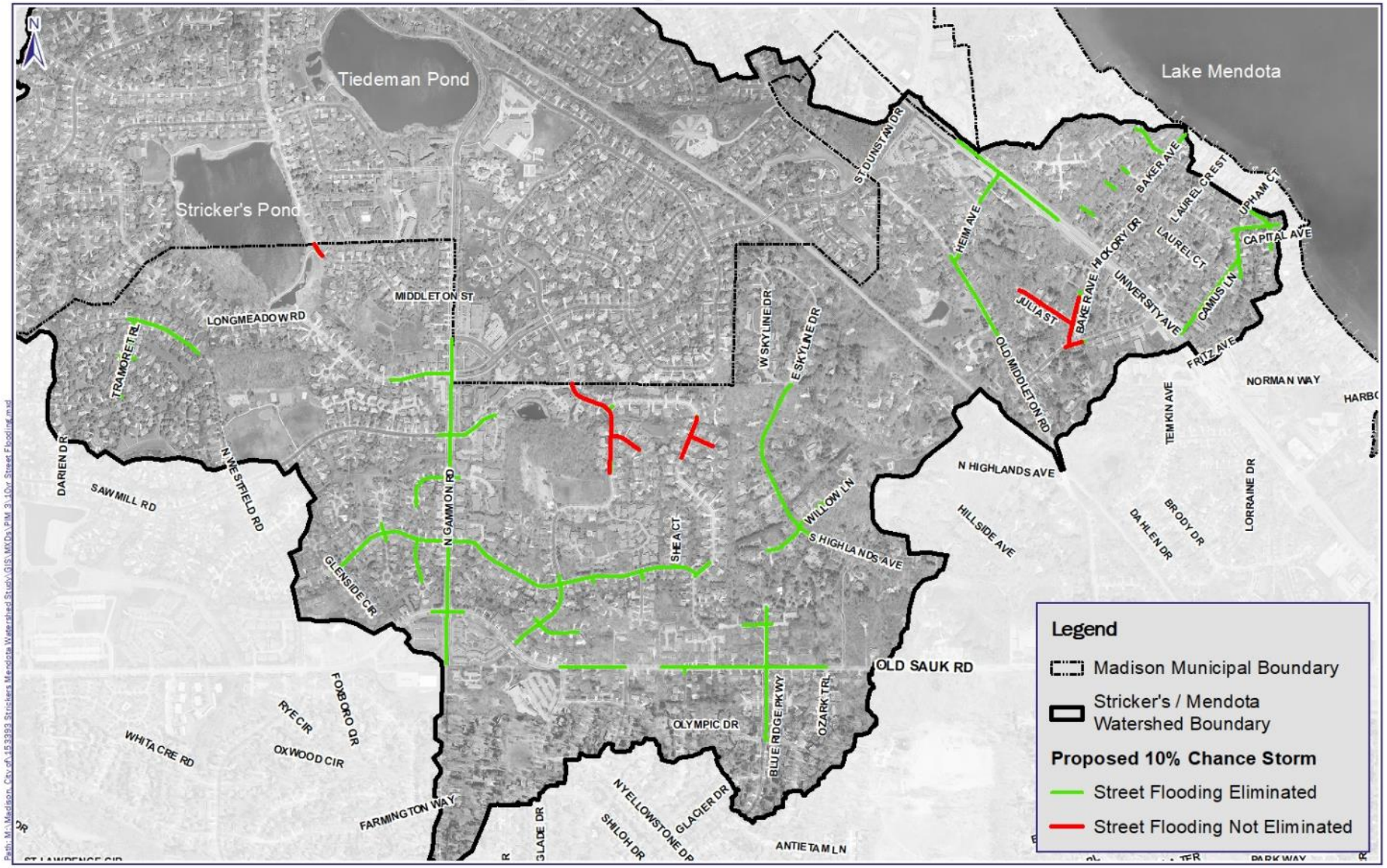
Street Flooding Improvement Locations



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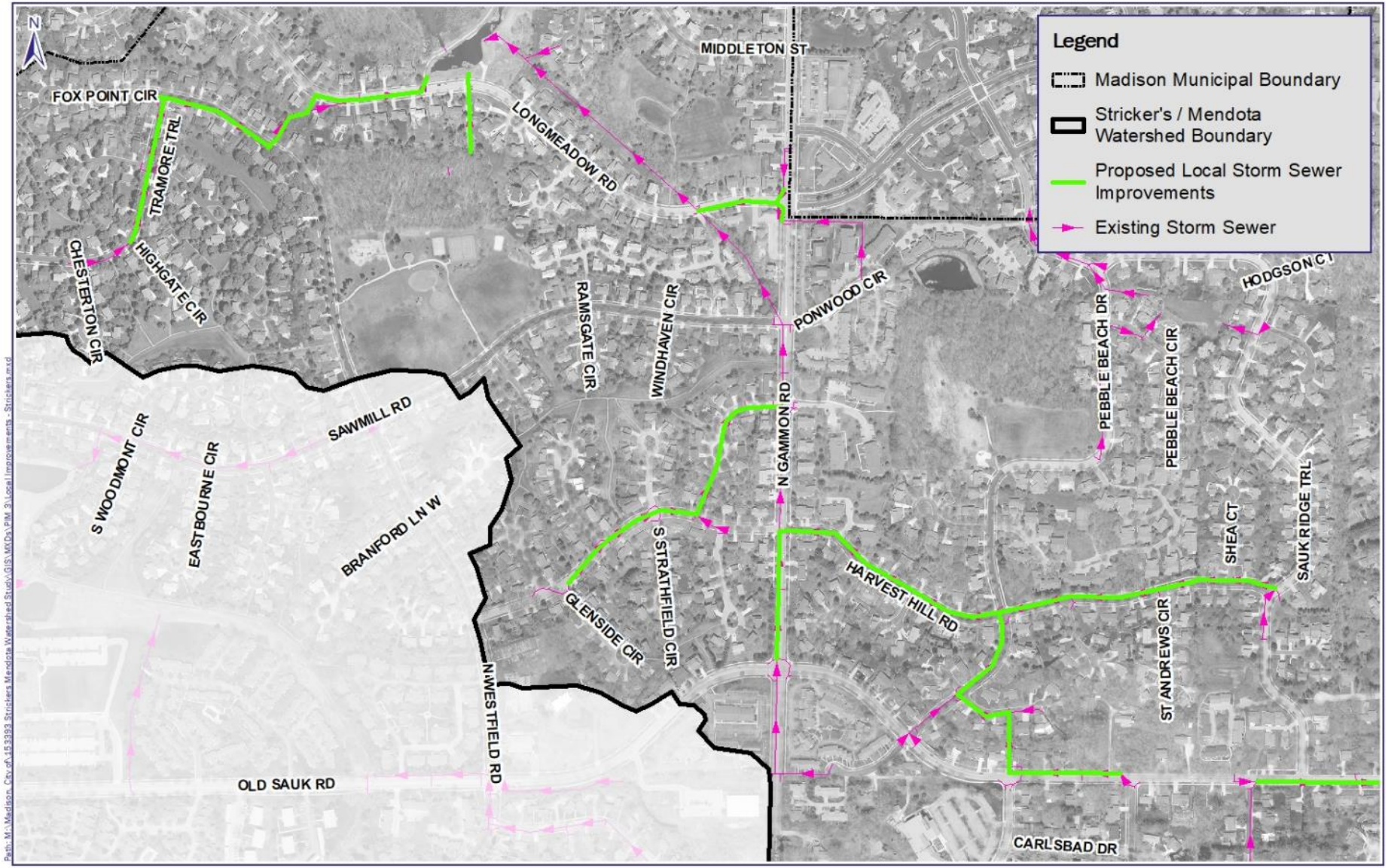
Proposed Solutions

- Local storm sewer improvements
- Longmeadow Relief Sewer
- Mendota-Grassman Greenway Improvements
  - Greenway Modifications
  - University Avenue Culvert
  - Camelot Drive Culvert

Local Storm Sewer Improvements (Stricker's Pond)



- Implemented in conjunction with street reconstruction projects
- Long-term process
  - Resurfaced about every 30 years
  - Reconstructed about every 75 years

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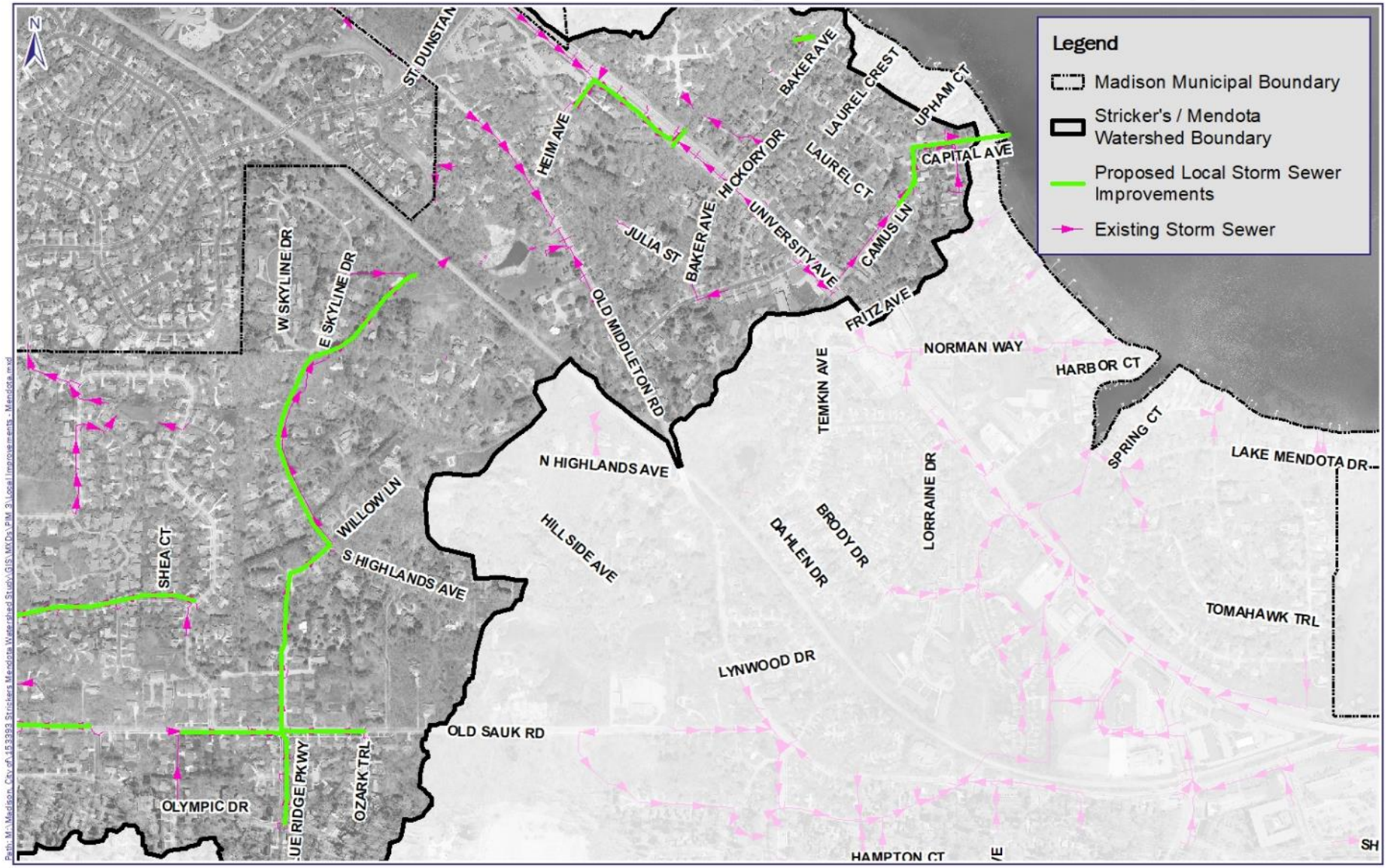
Local Storm Sewer Improvements (Lake Mendota)



- Implemented in conjunction with street reconstruction projects
- Long-term process
  - Resurfaced about every 30 years
  - Reconstructed about every 75 years

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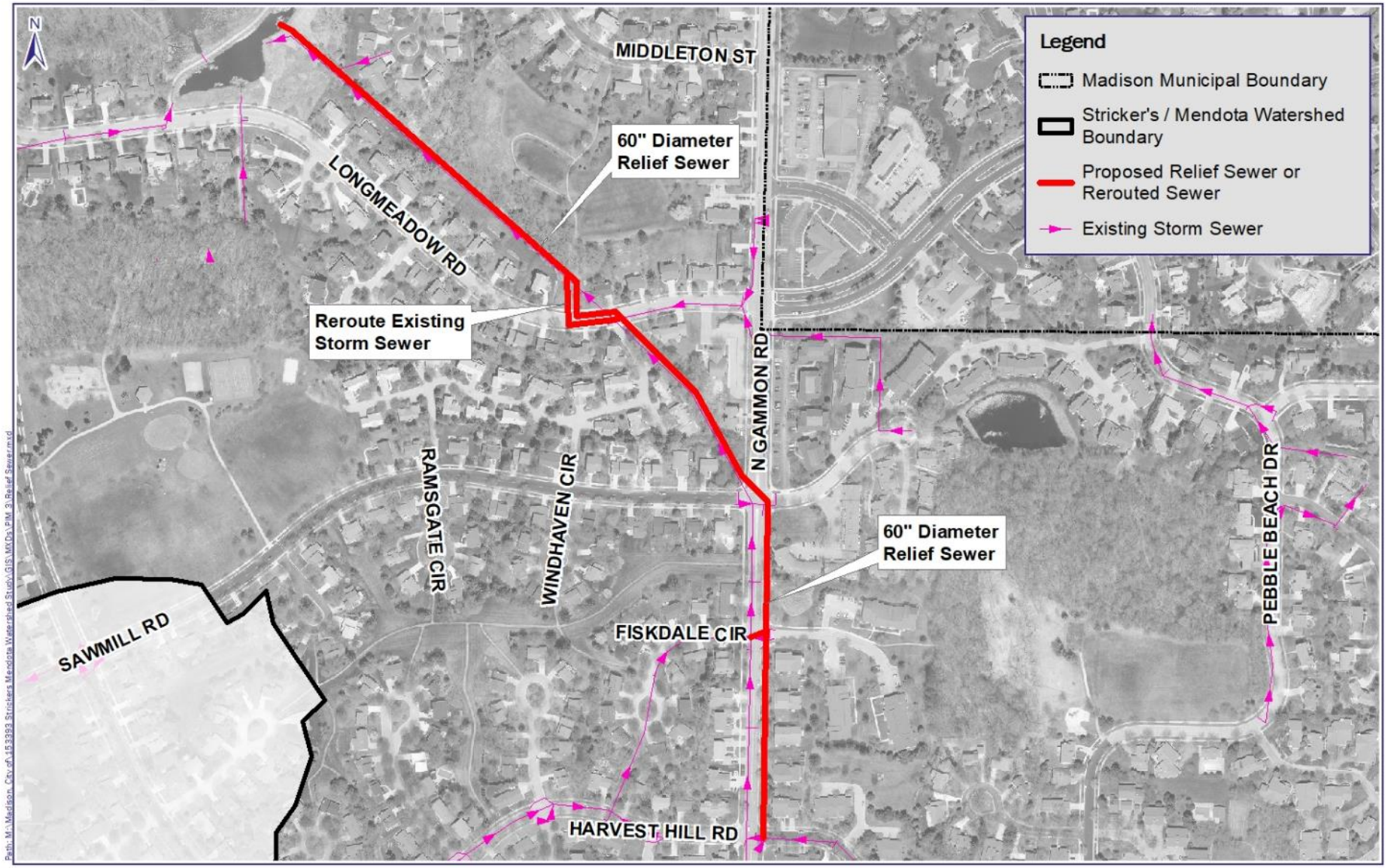
Longmeadow Relief Sewer



- The City of Madison will coordinate with the City of Middleton on the discharge of the relief sewer into Stricker's Pond

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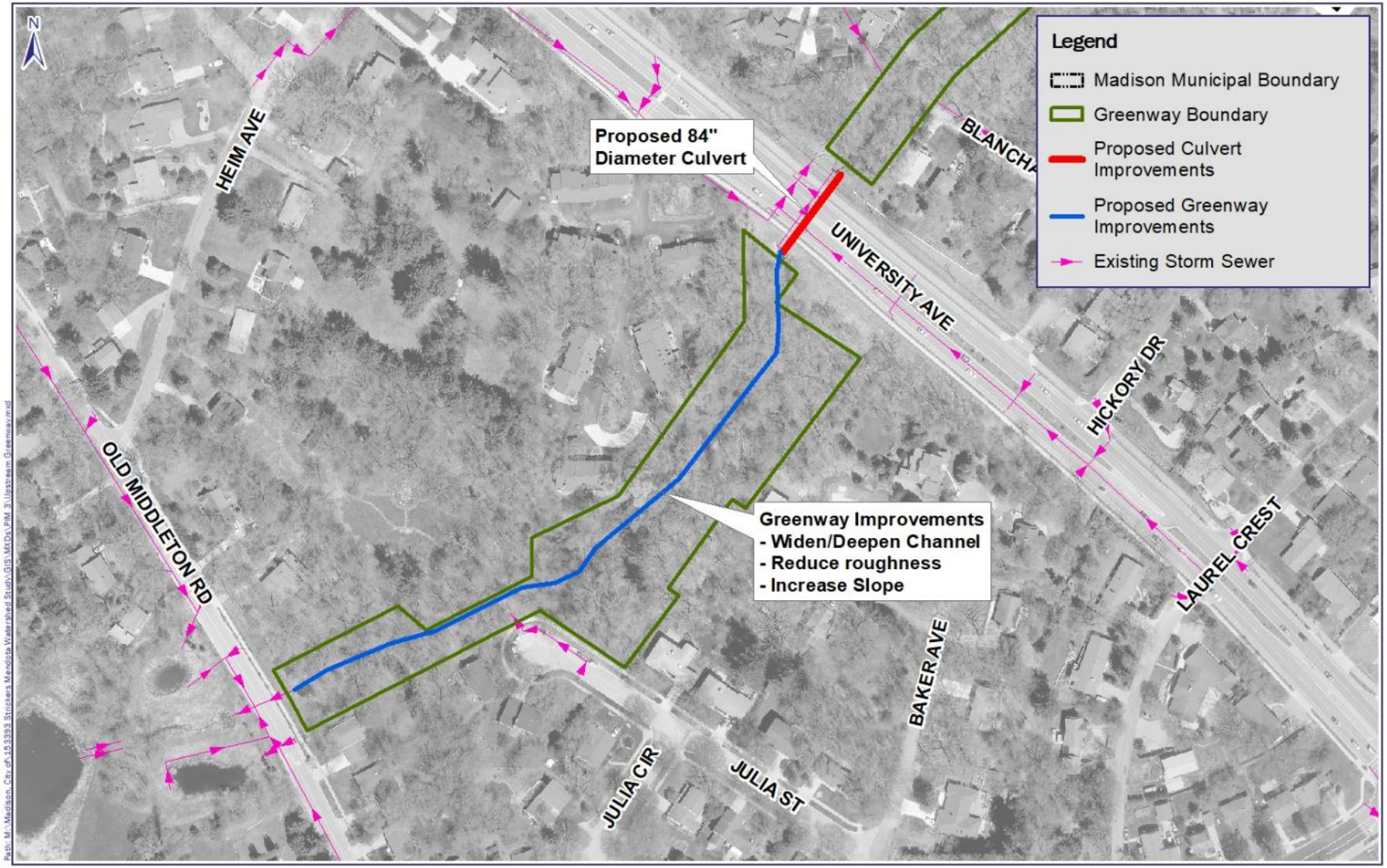
Mendota-Grassman Greenway (Upstream)



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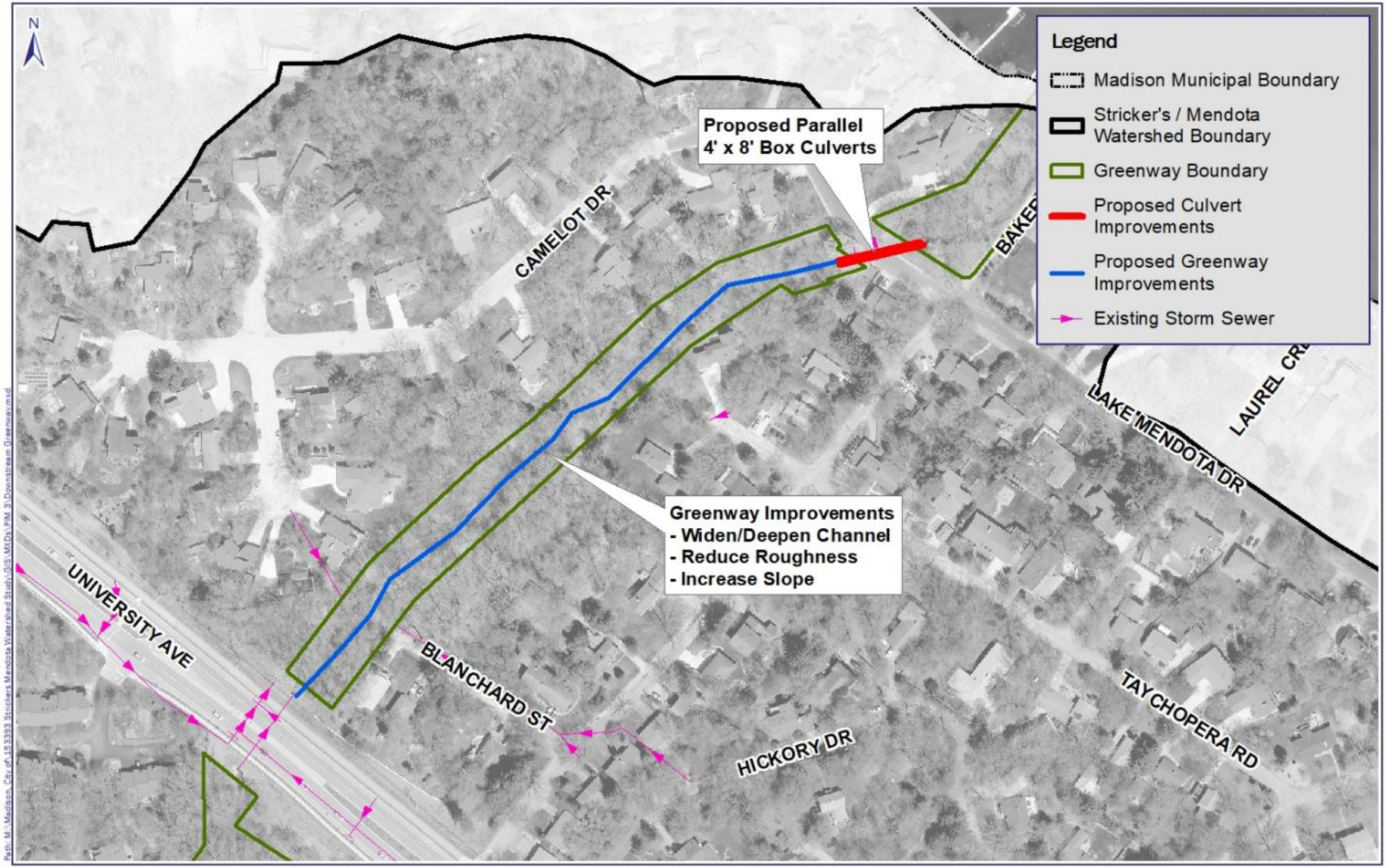
Mendota-Grassman Greenway (Downstream)



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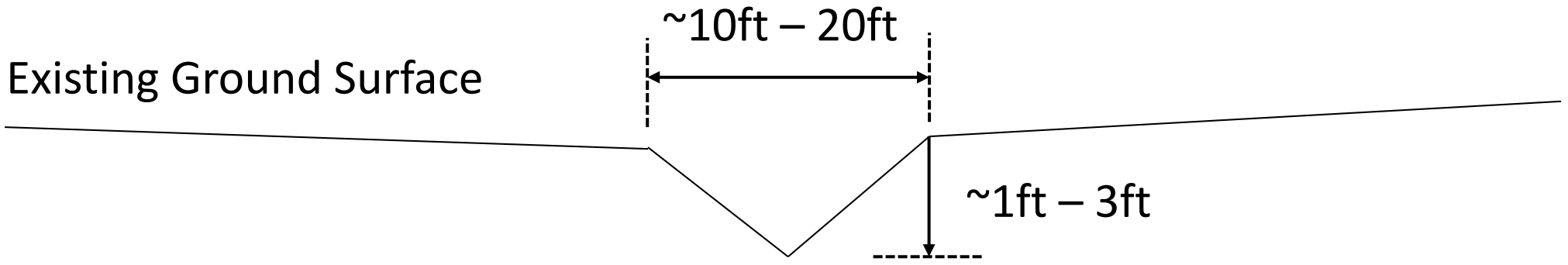
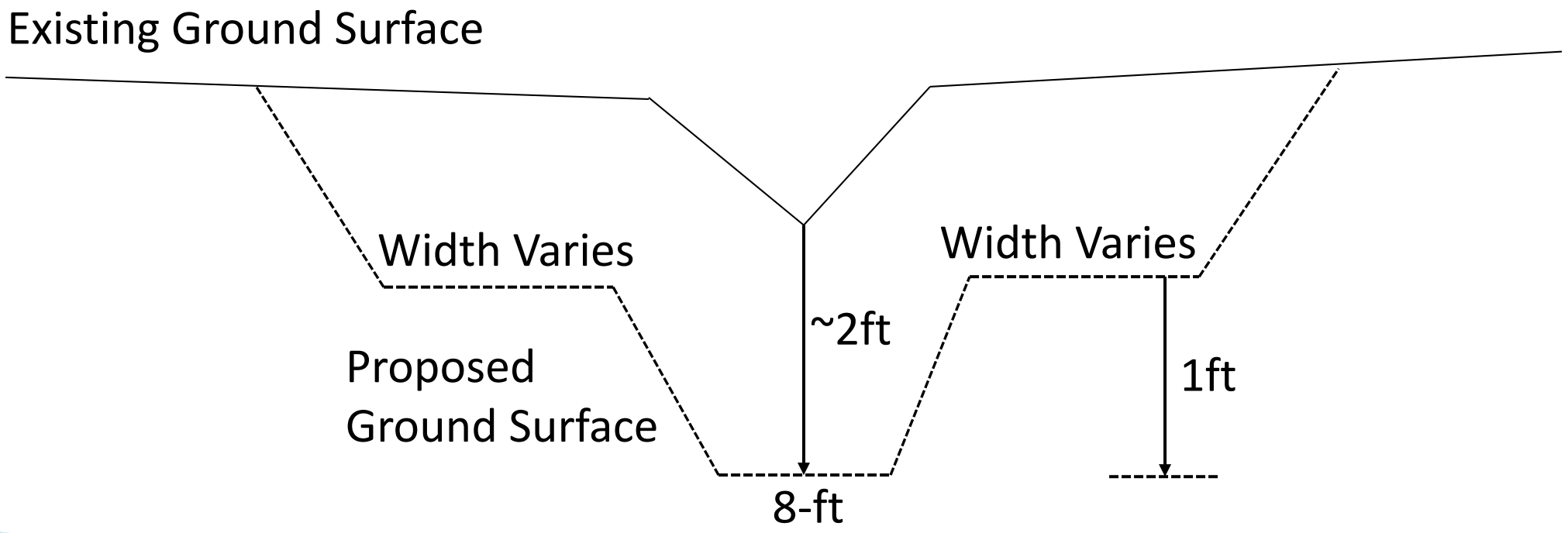
Mendota-Grassman Greenway (Existing)



Mendota-Grassman Greenway (Proposed)

- Conceptual; Not to Scale
- Proposed design alternatives to be presented at May 25 PIM (Mendota-Grassman Greenway Improvements)



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Estimated Costs for Proposed Improvements

Solution	Cost
Mendota-Grassman Greenway & Culverts	$3.2 million
Longmeadow Relief Sewer	$2.4 million
Local Storm Sewer Improvements	To be determined with street improvement projects

Citywide Prioritization Tool

- City creating prioritization tool to help guide scheduling and budgeting of proposed solutions
  - Will include all flood mitigation solutions in the City (23 watersheds)
- Solutions prioritized based on:
  - Flood reduction abilities
  - Racial Equity and Social Justice
  - Ability to improve emergency service access
  - Cost/available funding sources
  - Water quality benefits
  - Co-benefits to other City facilities (streets, etc.)
- See survey to provide input on how solutions are prioritized

Why Aren't all Targets Met for the Watershed?

- Space constraints
- Conflict with other major utilities (drinking water wells, large gas mains, etc)
- Property ownership
- Cost impacts
- Adverse downstream impacts
- Neighborhood resistance

Next Steps

- Finalize Report
- Finalize Prioritization Process
- Budget for Projects

Budgeting Considerations

- Not all projects are yet identified throughout the City
  - Currently identified approximately 44 projects in 4 watersheds (23 watersheds will be studied citywide)
  - Must choose projects carefully
- Stormwater Utility fees fund projects
  - Double digit rate increases – not sustainable
  - Without additional funding sources, only 1-2 medium to large projects can be completed in a year
- Must identify additional funding mechanisms
  - Grants, appropriations, earmark funds
- Most projects take 1.5 – 2 years to design / permit before they can be constructed

Contact Information & Resources

- Project Manager: Lauren Striegl, lstriegl@cityofmadison.com
- Public Information Officer: Hannah Mohelnitzky, hmohelnitzky@cityofmadison.com

- Project Webpage: www.cityofmadison.com/StrickersMendotaWatershed
  - Sign-up for project email updates on the website
  - Report flooding, past or current on the Report Flooding form
  - Learn ways to protect your property from flooding with on-site fixes
- New Flooding Website: www.cityofmadison.com/flooding
- Everyday Engineering Podcast
- Facebook – City of Madison Engineering
- Twitter – @MadisonEngr
- Provide your feedback! https://www.cityofmadison.com/news/survey-open-city-engineering-works-to-prioritize-flood-projects

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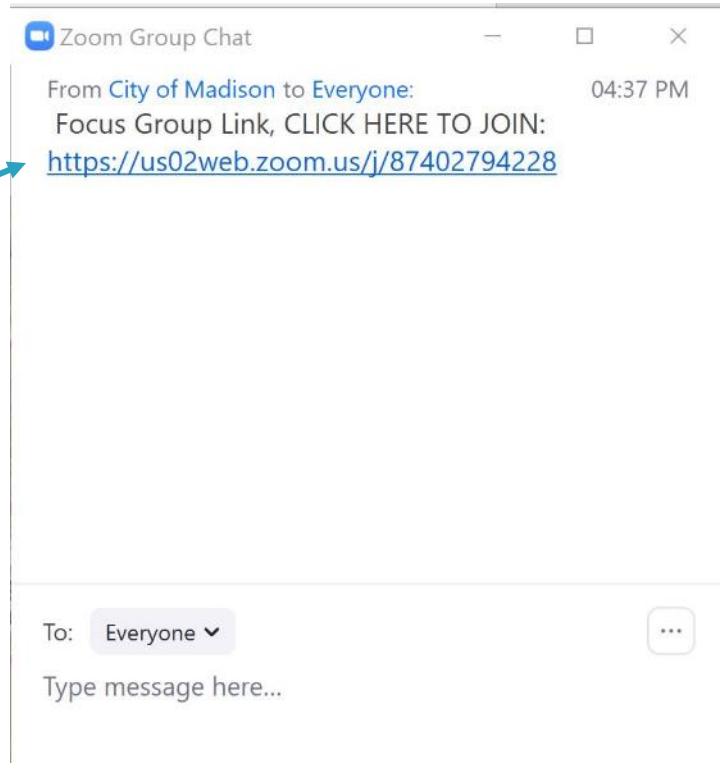
Focus Groups – Zoom Breakout Rooms

- Join the Zoom Breakout Room Session
  - Open the Zoom Chat box (if not already open)
  - Click on Link provided in the Zoom Group Chat box
  - A message will pop-up that says “Do you want to leave this meeting?”
  - Click “Yes”
  - Join Meeting
  - City staff will meet you in the new virtual meeting room



Focus Groups

1. Longmeadow Relief Sewer
2. Mendota-Grassman Greenway
3. Other Watershed Areas