

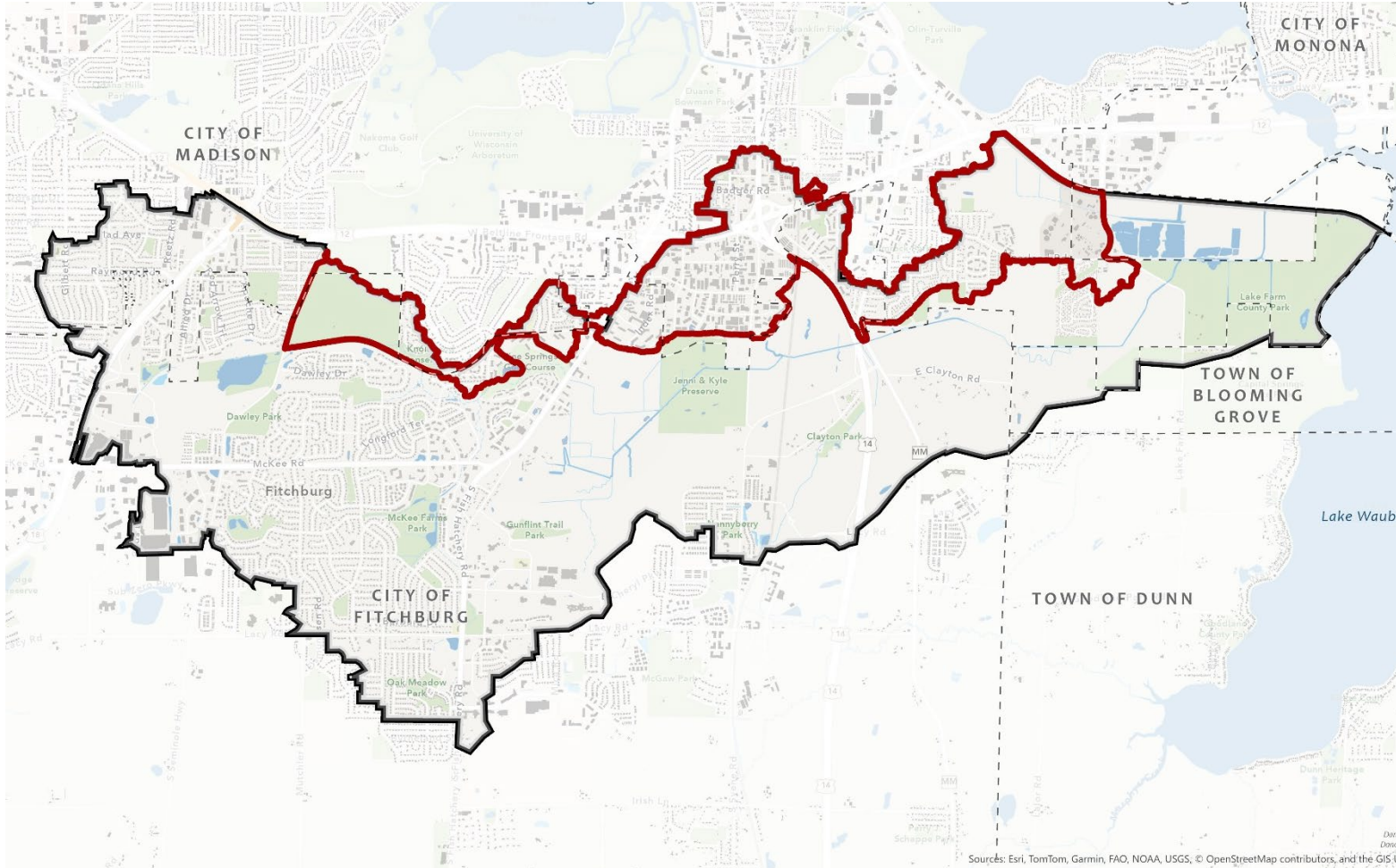


Nine Springs Watershed Study Recommendations Informational Presentation

City of Madison Engineering Division
Board of Parks Commissioners Meeting
May 13, 2026



Project Location



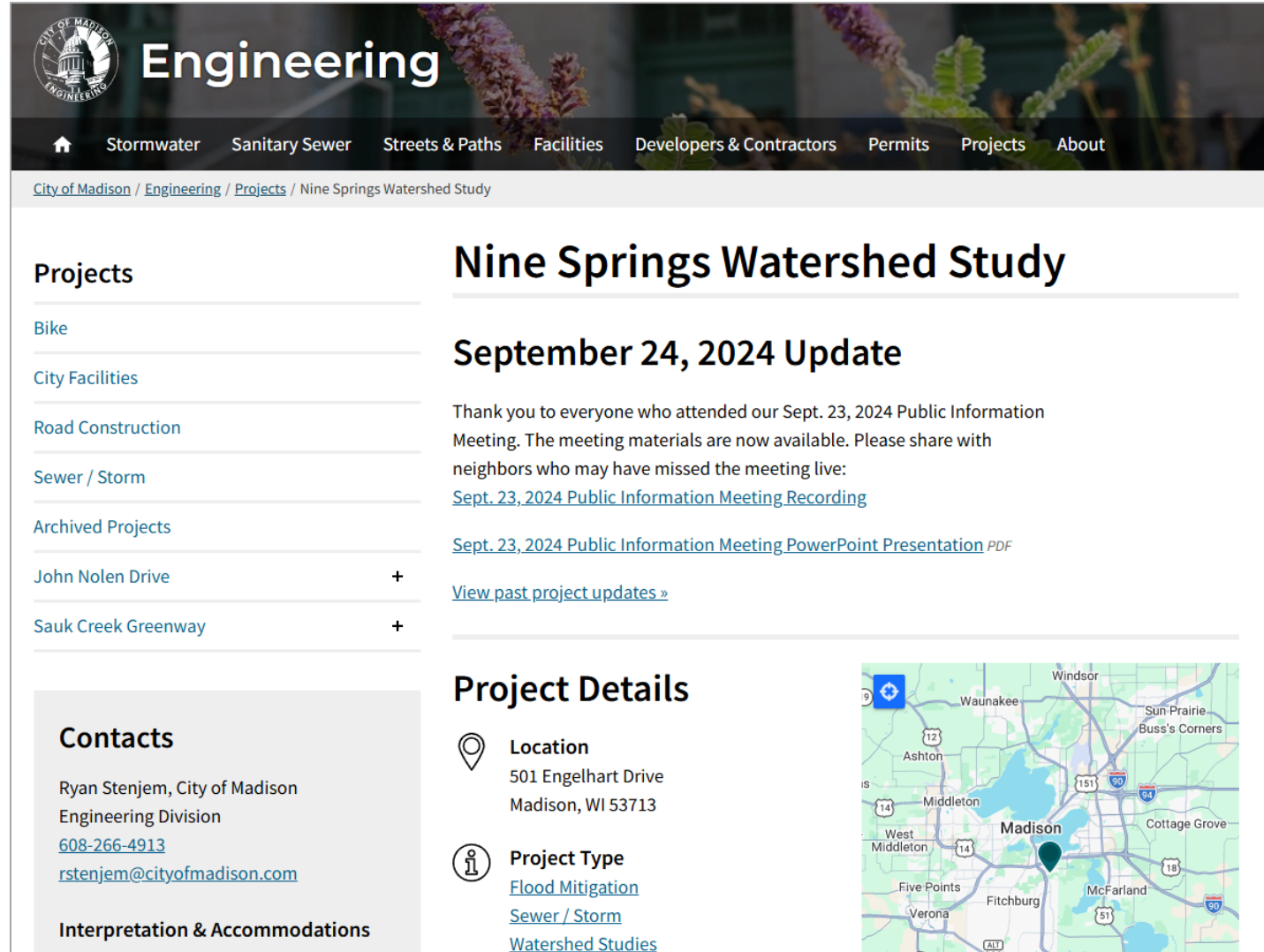
The black outline delineates the entire Nine Springs Watershed which extends south of the Beltline into Fitchburg, draining into Lake Waubesa

The **red outline** delineates the portion modeled for this study (only modeled Madison and areas draining into City)

Progress to Date

- Project Start
 - August 2024
- Public Input Meeting #1
 - September 23, 2024
- Data Collection Complete
 - Fall 2024
- Existing Conditions Model Built
 - July 2025
- Model Calibrated
 - October 2025
- Mitigation Targets Assessed
 - Winter 2025
- Solutions Evaluated/Public Information Meeting #2
 - Spring 2026

<https://www.cityofmadison.com/engineering/projects/nine-springs-watershed-study>



The screenshot shows the City of Madison Engineering website. The header includes the City of Madison Engineering logo and the word "Engineering". The navigation menu contains: Home, Stormwater, Sanitary Sewer, Streets & Paths, Facilities, Developers & Contractors, Permits, Projects, and About. The breadcrumb trail is: City of Madison / Engineering / Projects / Nine Springs Watershed Study.

Projects

- [Bike](#)
- [City Facilities](#)
- [Road Construction](#)
- [Sewer / Storm](#)
- [Archived Projects](#)

John Nolen Drive	+
Sauk Creek Greenway	+

Contacts

Ryan Stenjem, City of Madison
Engineering Division
[608-266-4913](tel:608-266-4913)
rstenjem@cityofmadison.com

Interpretation & Accommodations

Nine Springs Watershed Study

September 24, 2024 Update

Thank you to everyone who attended our Sept. 23, 2024 Public Information Meeting. The meeting materials are now available. Please share with neighbors who may have missed the meeting live:

[Sept. 23, 2024 Public Information Meeting Recording](#)


[Sept. 23, 2024 Public Information Meeting PowerPoint Presentation PDF](#)

[View past project updates »](#)

Project Details

Location
501 Engelhart Drive
Madison, WI 53713

Project Type
[Flood Mitigation](#)
[Sewer / Storm](#)
[Watershed Studies](#)



CITY OF MADISON



Flood Mitigation Targets

10% Chance Event (10-yr storm)

- No surcharging of storm sewer onto roadway (storm sewer pipes are sized to carry storm)

4% Chance Event (25-yr storm)

- 0.2' at Centerline of Road (roads passable for emergency vehicles)

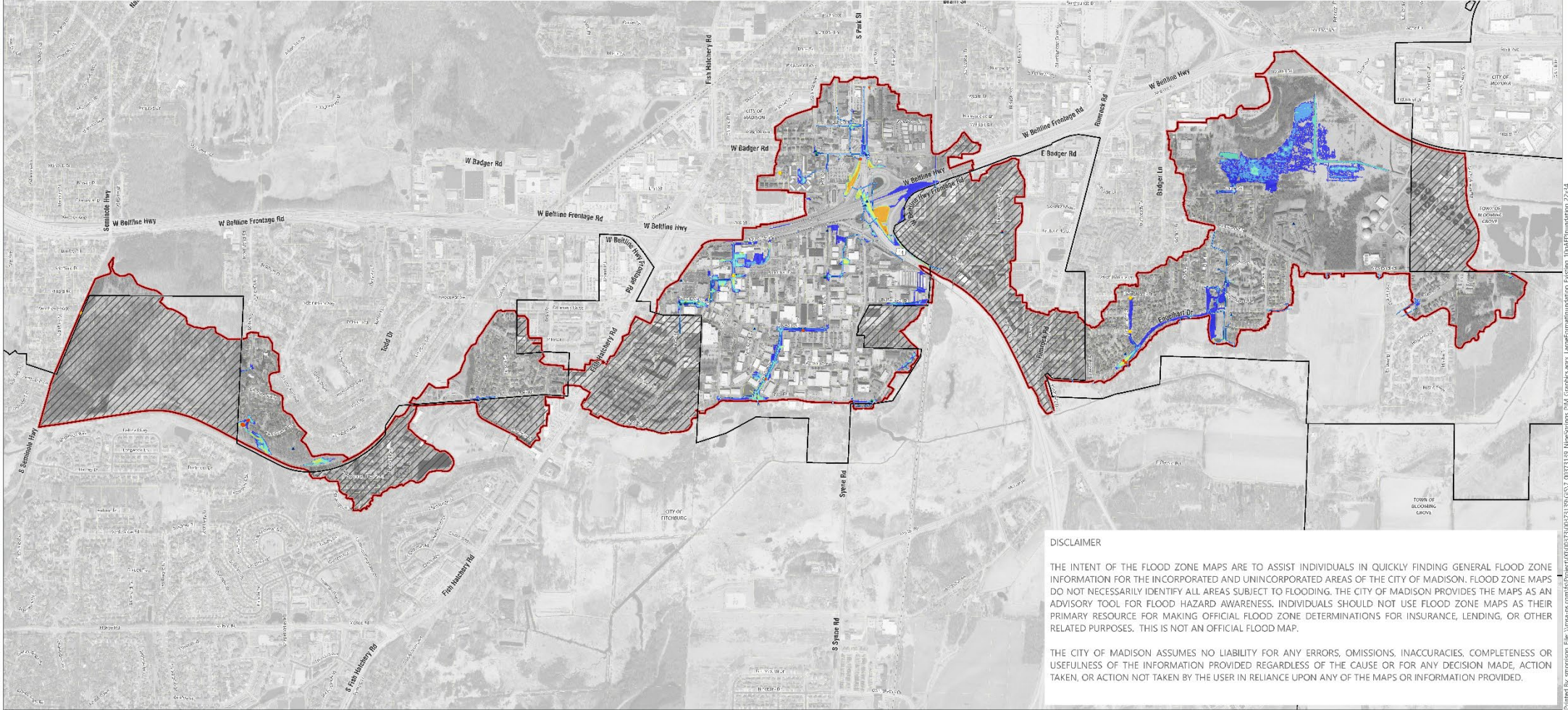
1% Chance Event (100-yr storm)

- 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 (500-yr storm)

- Safe conveyance of overflow

10% Chance (10-year) Existing Inundation Mapping



DISCLAIMER

THE INTENT OF THE FLOOD ZONE MAPS ARE TO ASSIST INDIVIDUALS IN QUICKLY FINDING GENERAL FLOOD ZONE INFORMATION FOR THE INCORPORATED AND UNINCORPORATED AREAS OF THE CITY OF MADISON. FLOOD ZONE 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 FLOOD ZONE MAPS AS THEIR PRIMARY RESOURCE FOR MAKING OFFICIAL FLOOD ZONE DETERMINATIONS FOR INSURANCE, LENDING, OR OTHER RELATED PURPOSES. THIS IS NOT AN OFFICIAL FLOOD MAP.

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Data Sources:
 Watershed Boundaries: MSA
 Stormwater System: City of Madison
 Dane County GIS (2025)



- Model Area
- Municipal Boundary
- Model Area Outside Madison
- Reported Flooding
- Historic/Observed Flood Points
- Priority Inlets
- Operations Flooding Points
- City of Madison Structure
- Structure Owned by Other Entity
- Modeled City Owned Pipe
- Modeled Non-City Owned Pipe
- Flood Event Inundation Depth**
- 0.1 - 0.3
- 0.3 - 0.5
- 0.6 - 1
- 1.1 - 3
- 3.1 - 6
- 6.1+

10% AEP Inundation - Existing Conditions

Nine Springs Watershed Study

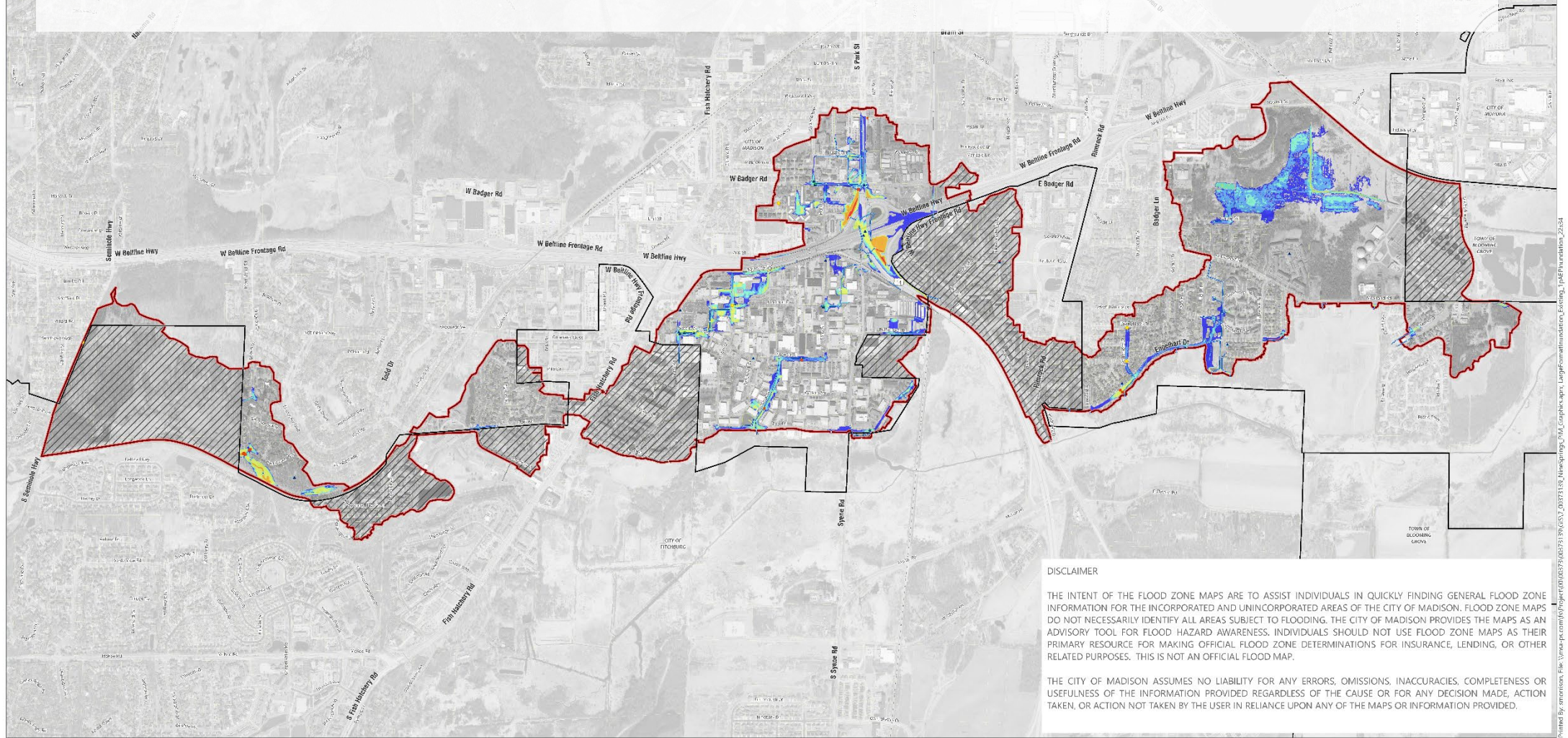
City of Madison
 Dane County, WI



Plotted By: amorrison; File: Wmsr-pc.com\6\Project\001\0257\3\W0257_0057\10%_Line\mgs_10%_Graphics.aprx; Large\mmsm\mmsm\mmsm\Existing_10%AEP\mmsm\mmsm_22414

Print Date: 3/29/2024

1% Chance (100-year) Existing Inundation Mapping



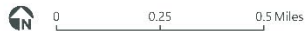
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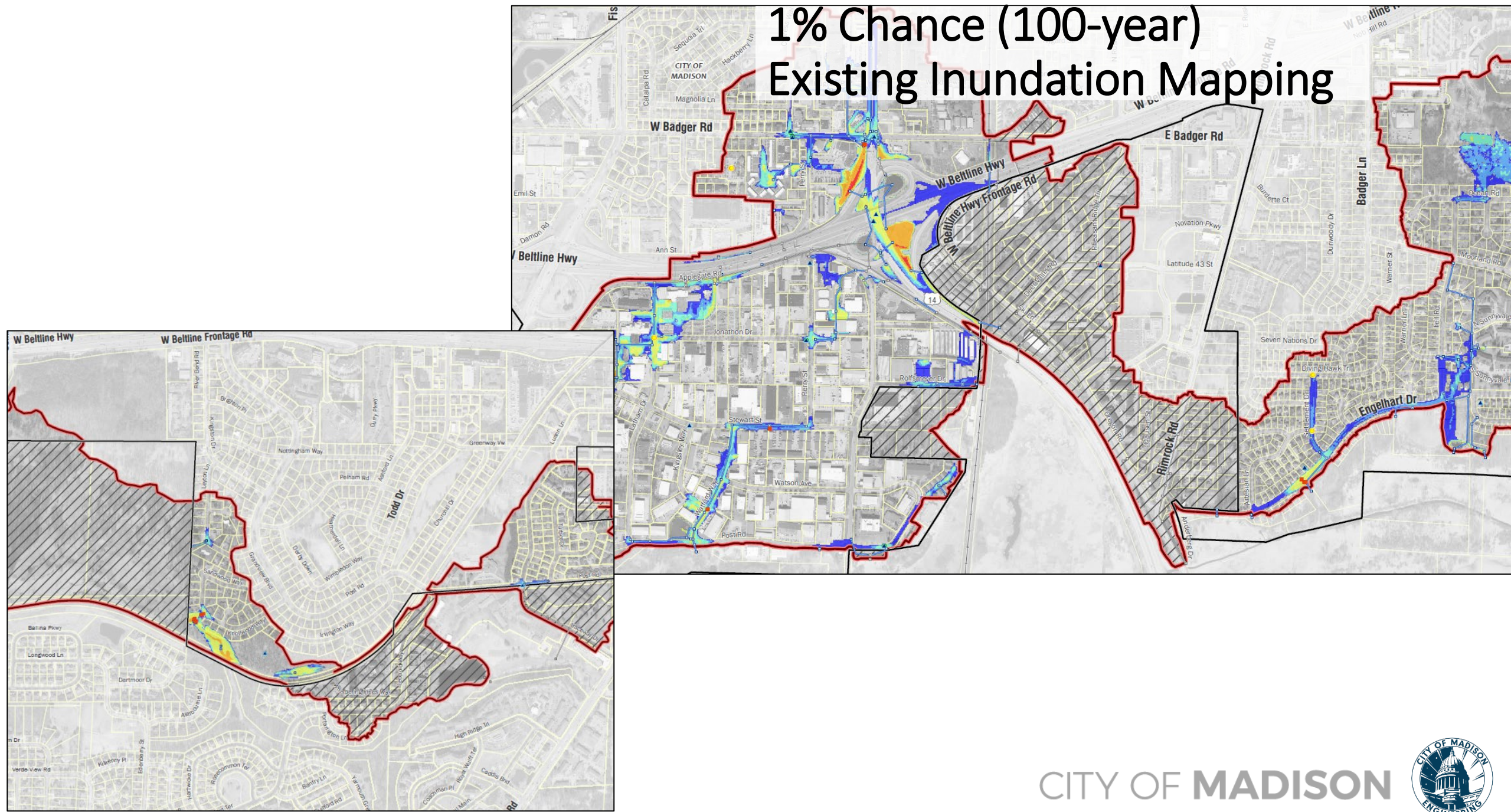
1% AEP Inundation - Existing Conditions

Nine Springs Watershed Study

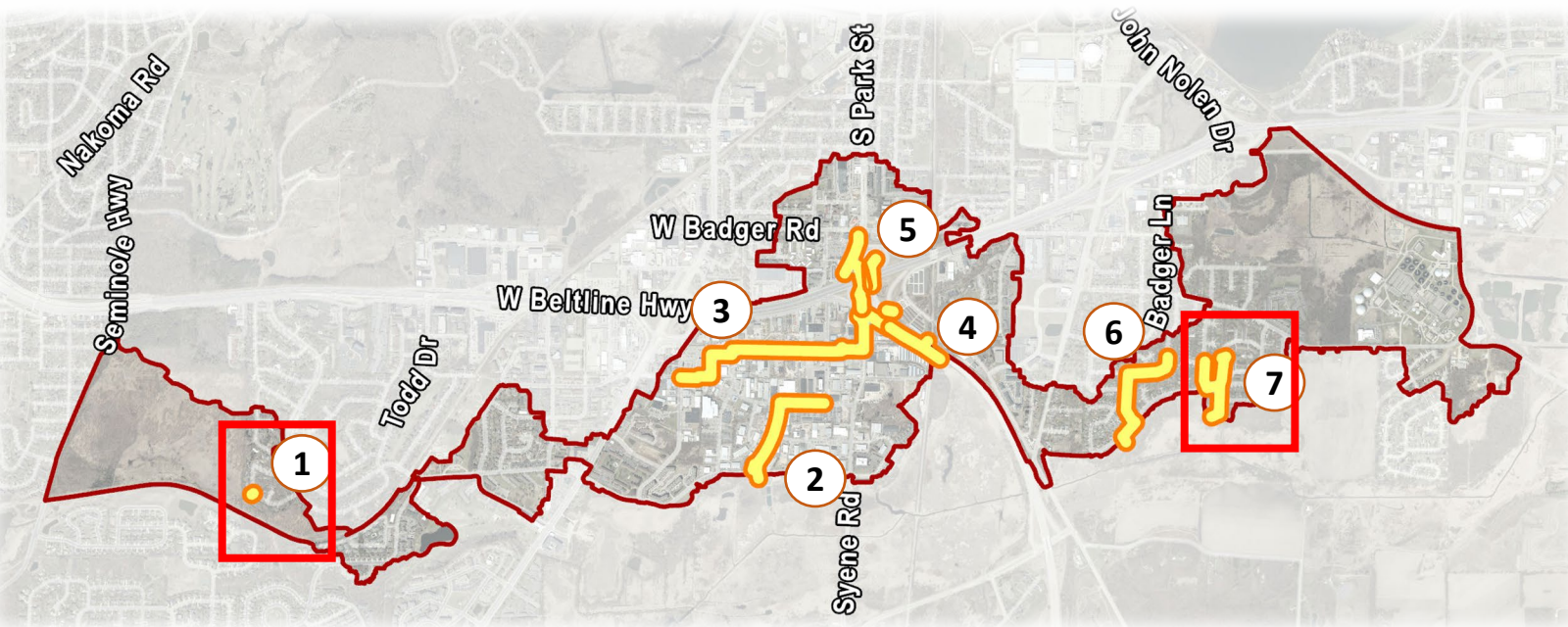
City of Madison
 Dane County, WI



1% Chance (100-year) Existing Inundation Mapping



Recommended Storm Sewer Improvements

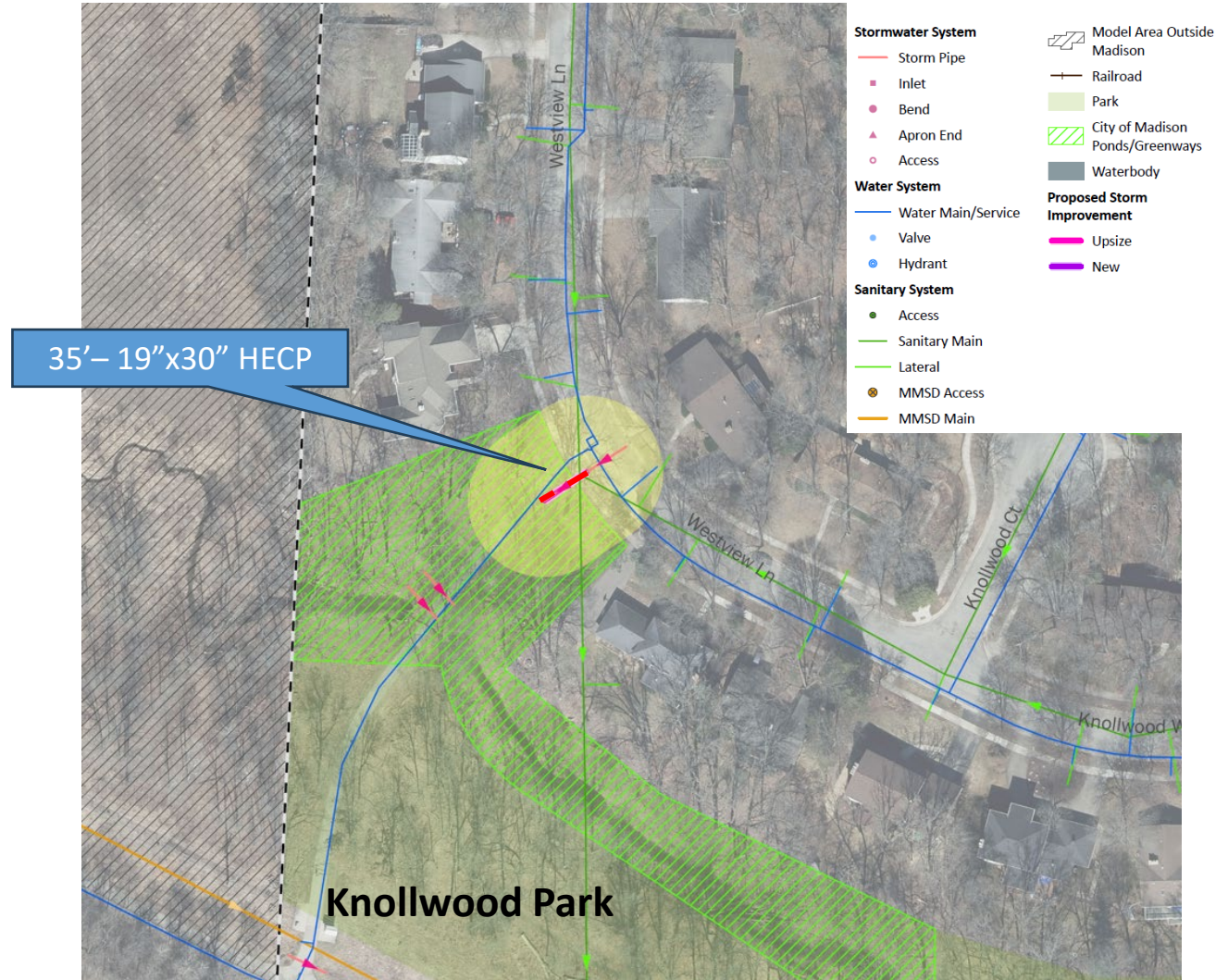


1. *Westview Ln
2. Post Rd
3. Applegate- New Bypass
4. Applegate Outfall and HWY 14
5. DOT Ponds and Park/Beltline On-ramp enclosure
6. Engelhart and Settlement Dr
7. *Fell Rd

*Projects with potential temporary impacts to Parks' land

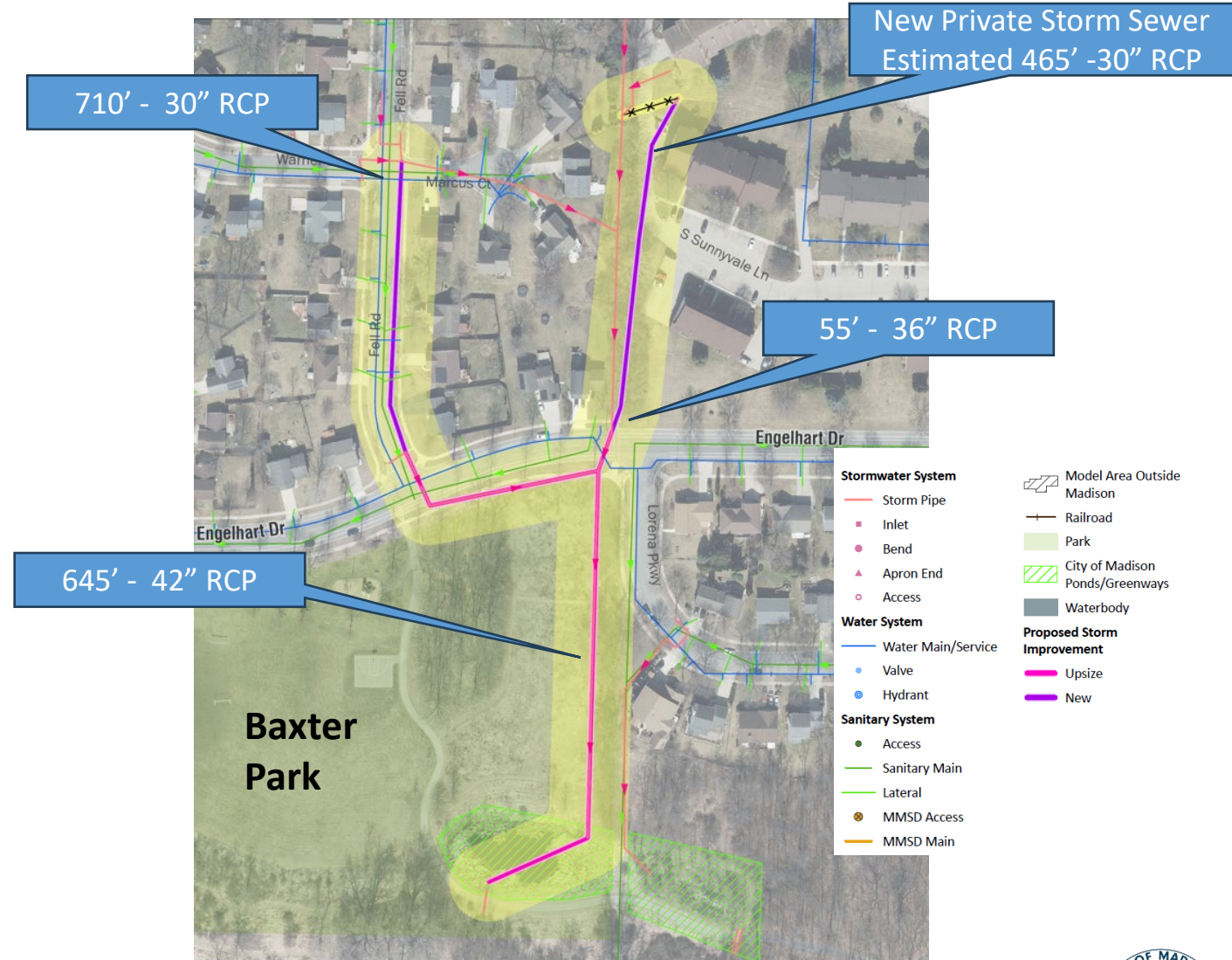
Westview Lane

- ▶ Reduce localized flooding for 25-yr event
- ▶ Increase storm sewer size from 18" RCP to 19"x30" HECP
- ▶ Est. Cost - \$30K



Fell Road

- ▶ Reduce street flooding for 25-yr event
- ▶ Reduce flooding into private backyards
- ▶ Crosses Baxter Park (replace existing storm sewer with larger pipe into existing pond).
- ▶ Through area of managed meadow
 - Will note in report that this area is meadow and to coordinate with Parks to minimize impacts from construction
- ▶ Est. Cost - \$0.6M



Questions?

