



# 2025-2030 Transportation Improvement Program

Transportation Commission  
City of Madison Engineering Division & Department of Transportation  
Feb 28, 2024

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# Outline

- TIP Scoring Tool
- Programs
  - Reconstructions
  - Pavement Management
  - Sidewalk
  - Bikeways
  - Bridge Repair
- Stand Alone Major Projects
  - Surface Transportation Block Grant (STBG)
  - Transportation Alternatives Program (TAP)
  - Others
- State of Streets



# TIP

## RECONSTRUCTS

Pavements & Utilities with  
Critical Needs

### Eligible Segment Screening

- Pavements  $\leq 4$
- Water med. or high risk
- Sanitary  $\leq 3$
- Proposed Storm
- Platted Roads
- HIN segments
- City-maintained Roads

GIS

### Assign Raw Score

- Pavement (0-30)
- Sanitary (0-10)
- Water (0-10)
- Storm (0-10)
- Ped (0-8)
- Bike (0-6)
- Transit (0-6)
- Unique Factors (0-20)

GIS

### Weight Segments

- + 5% raw score if on HIN
- + 15% raw score if in equity area

GIS

### Scope & Budget

- Assemble into logical groupings
- Eliminated non-reconstructs
- Prioritize Groupings
- Recommend for budget

Discretion

# SAFE STREETS

## NON-RECONSTRUCTS

Pavements without  
critical needs

### Identify Needs

- Candidate projects identified through community input, NRTs, staff observations

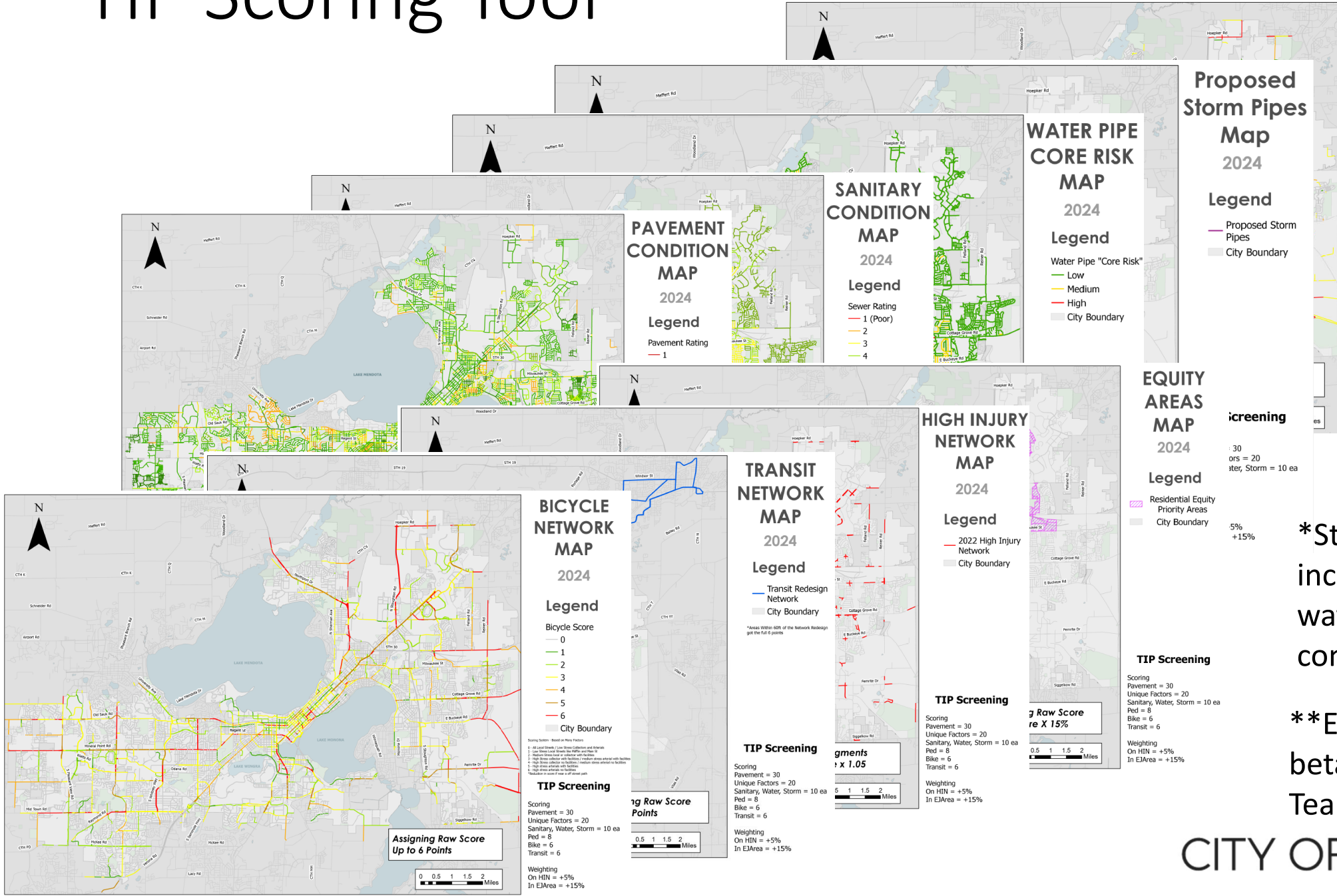
### Evaluate Projects

- Evaluate candidate projects using safety, equity, ability to fill gaps, cost as metrics
- Prioritize

### TC Approval

- Review evaluation
- Modify prioritization as appropriate
- Approve

# TIP Scoring Tool



**PEDESTRIAN NEEDS MAP 2024**

**Legend**

Pedestrian Score

- 0
- 3
- 5
- 7
- 8

City Boundary

Scoring System - Based on Street

- 0 - Sidewalks both sides
- 3 - Sidewalks one side
- 5 - No Sidewalk
- 7 - MPO priority sidewalk one side
- 8 - MPO priority sidewalk no sides

**TIP Screening**

Scoring

- Pavement = 30
- Unique Factors = 20
- Sanitary, Water, Storm = 10 ea
- Ped = 8
- Bike = 6
- Transit = 6

Weighting

- On HIN = +5%
- In EJArea = +15%

**Proposed Storm Pipes Map 2024**

**Legend**

- Proposed Storm Pipes
- City Boundary

**WATER PIPE CORE RISK MAP 2024**

**Legend**

Water Pipe "Core Risk"

- Low
- Medium
- High

City Boundary

**SANITARY CONDITION MAP 2024**

**Legend**

Sewer Rating

- 1 (Poor)
- 2
- 3
- 4

**PAVEMENT CONDITION MAP 2024**

**Legend**

Pavement Rating

- 1

**EQUITY AREAS MAP 2024**

**Legend**

- Residential Equity Priority Areas
- City Boundary

**HIGH INJURY NETWORK MAP 2024**

**Legend**

- 2022 High Injury Network
- City Boundary

**TRANSIT NETWORK MAP 2024**

**Legend**

- Transit Redesign Network
- City Boundary

\*Areas Within 60ft of the Network Redesign get the full 6 points

**BICYCLE NETWORK MAP 2024**

**Legend**

Bicycle Score

- 0
- 1
- 2
- 3
- 4
- 5
- 6

City Boundary

**TIP Screening**

Scoring

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- Bike = 6
- Transit = 6

Weighting

- On HIN = +5%
- In EJArea = +15%

**TIP Screening**

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**TIP Screening**

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- Pavement = 30
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**Assigning Raw Score Up to 6 Points**

\*Storm Pipes are still incomplete until all watershed studies are complete

\*\*Equity Areas are still in beta testing with City Data Team

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# 2024 Updates to Tool

- Input new pavement ratings (1/2 of streets rated each year)
- All new Sanitary Ratings updated based upon television data
- Storm Pipes updated as Watershed Studies are completed\*
  - Still incomplete
- Bicycle needs updated to reflect stress level, road classification, on-street facilities & adjacent side paths
- Pedestrian needs updated to added priority sidewalk gaps from MPO
- Transit network updated to reflect Metro Redesign
- City Data Team created new Equity Areas Map for all city use\*\*
  - Still in beta mode

# TIP Scoring Tool

2024

## Legend

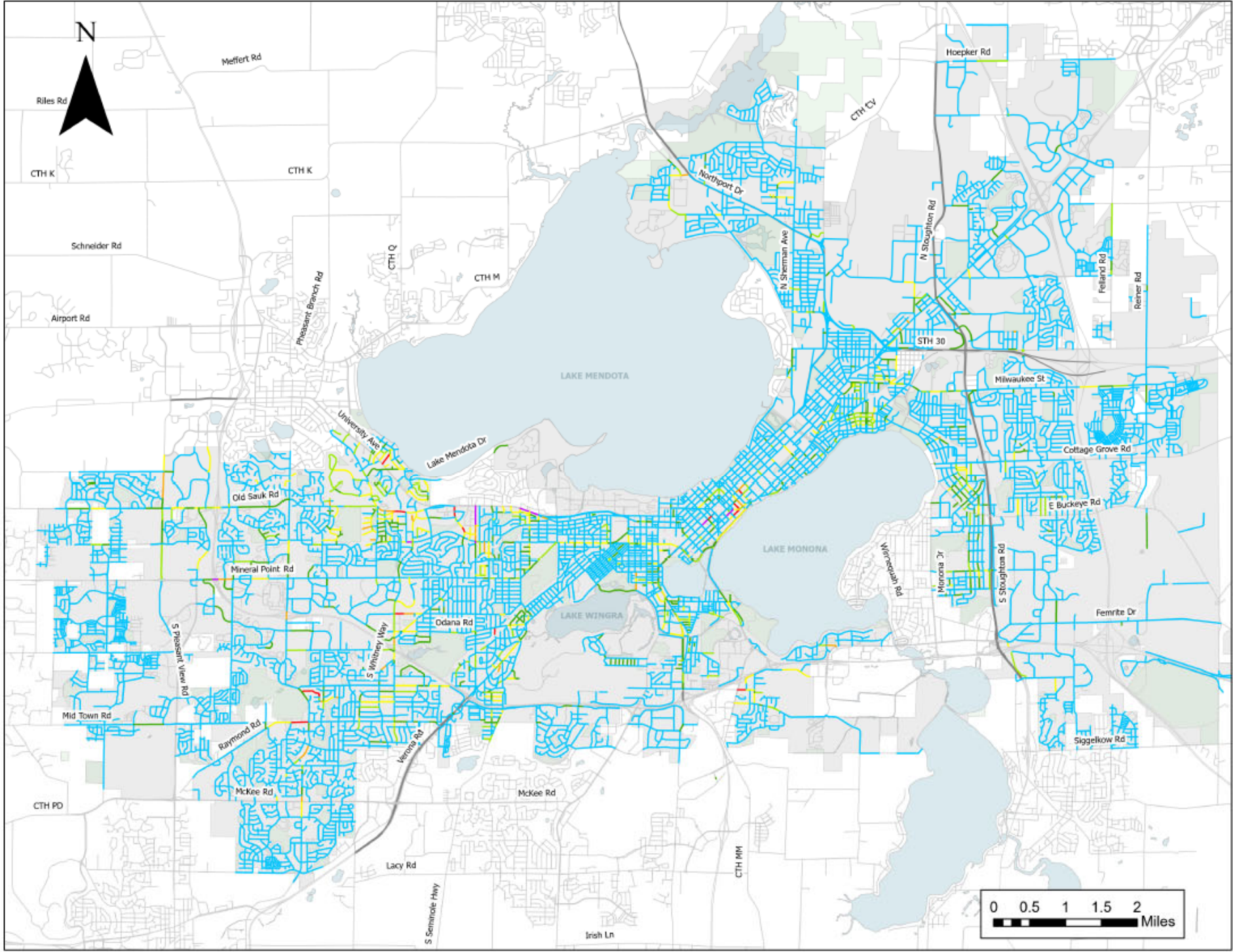
### Infrastructure Scoring

- 0 - 30 PTS
- 30 - 35 PTS
- 35 - 40 PTS
- 40 - 50 PTS
- 50 - 55 PTS
- 55 - 60 PTS
- 60+
- City Boundary

## TIP Screening

- Scoring
- Pavement = 30
- Unique Factors = 20
- Sanitary, Water, Storm = 10 ea
- Ped = 8
- Bike = 6
- Transit = 6

- Weighting
- On HIN = +5%
- In EArea = +15%



# Reconstruction Streets Program 2025

- Reconstruct 4.3 Miles
- Evergreen, Center, Willard, Ohio – 38
- Pontiac, Nokomis, Rosewood, Boston – 37
- Davidson, Park, Maher, Gary, Drexel, Monona– 36
- N Rusk – 48
- Birge – 47
- *MacArthur, Larson, Sycamore – 33*
- *Richard, Dawes, Lansing – 14 (MMSD pipe)*
- *Jefferson, Oakland, Grant – 37*
- Nakoma, Shawnee – 46
- State & Mifflin St Plaza - Redevelopment
- Euclid, Birch – 29 (infiltration study area)



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# Resurfacing Program 2025

- Chip Seal 50-70 mi
- Crack Seal 50-100 mi
- Patching
- Resurfacing 6.4 mi
- Franklin – 51
- Pflaum – 49
- Mineral Point – 39
- Gilbert – 40
- Buffalo, Barron, Green Lake – 40
- *Ozark, Antietam, Shenandoah, Jetty, Natchez – 42*
- Hancock, Main – 44
- Merrill Springs, Tomahawk, Flambeau – 36
- Camilla, Dolores, Loretta, Christine – 34
- *Olin - 45*
- *North Star – 23*
- *Rimrock – county rd*
- Pioneer & Meadow – town rd





# Bikeways Program

- Resurfacing paths rated at 5 or lower
  - Marlborough Park
  - Will inspect ½ of city in 2024 and add any new 5's.
- New paths
  - Bartillon Path (new path from Kinsman to Anderson along US51)
  - Pheasant Branch Creek Path
  - Odana Cycle Track



# Sidewalk Program

- Ordered Sidewalks
- 2024            District 11 – Bill Tishler  
                      District 19 – John Guequierre
- 2025\*           District 10 – Yannette Figueroa Cole  
                      District 20 – Barbara McKinney
- 2026\*           District 2 – Juliana Bennett  
                      District 6 – Marsha Rummel
- Citywide requests
- Metro Bus Pads for Redesign



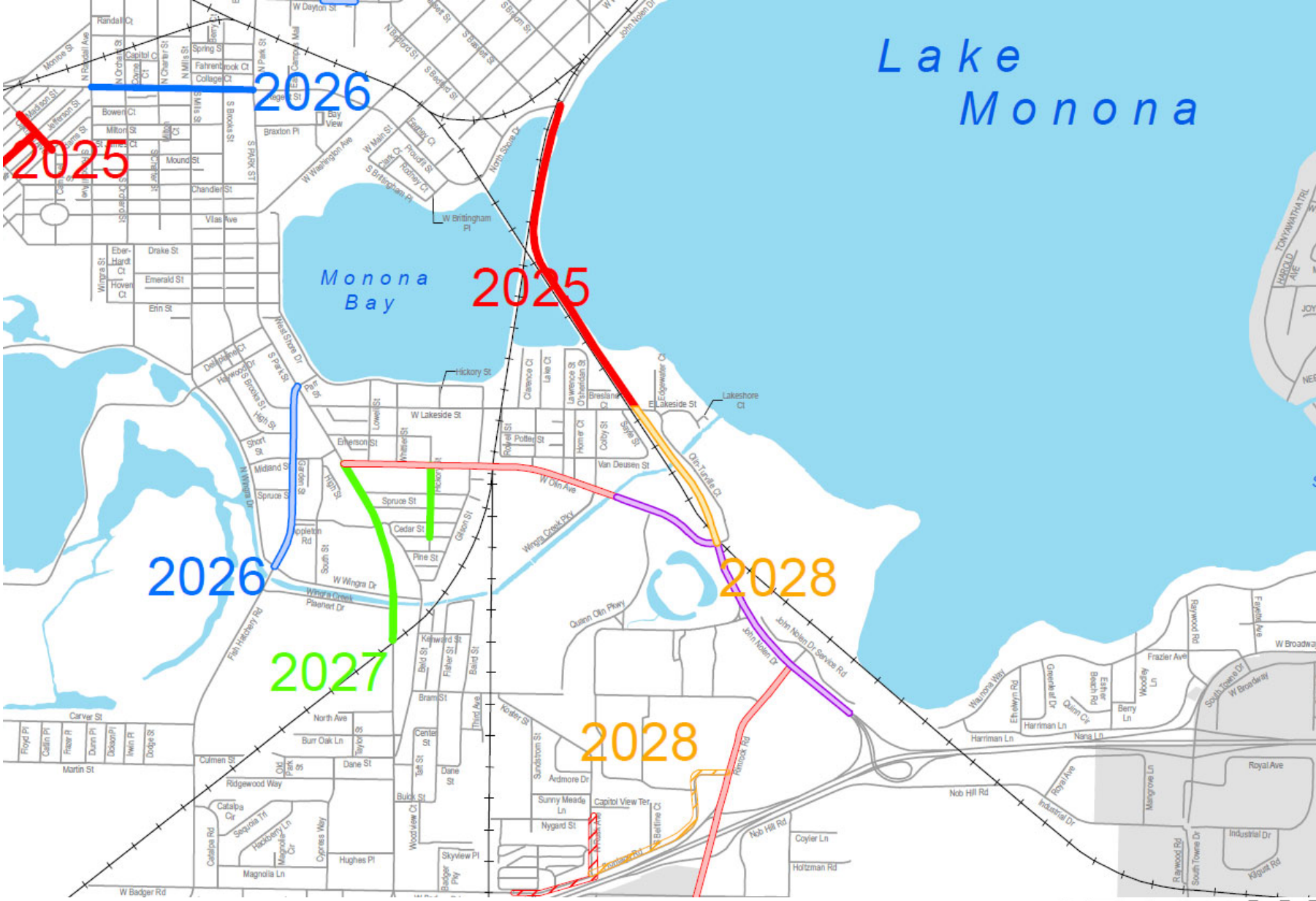
\* City Engineering is going to explore possibilities other than aldermanic district to schedule sidewalk repairs, might create regional sidewalk districts

# Bridge Repair Program

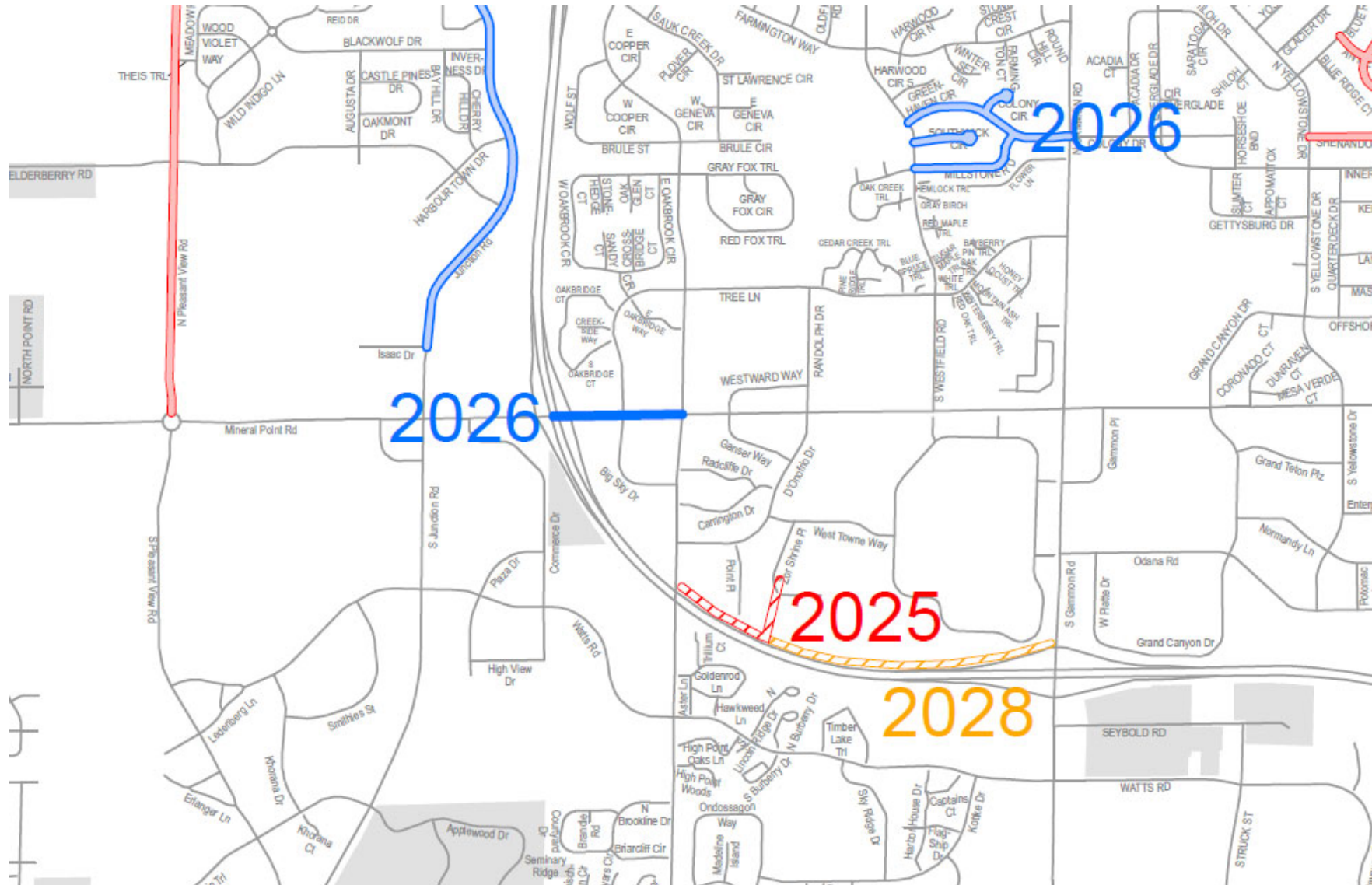
- 2024 – Knutson Bridge Painting
  - Pedestrian Bridge Repairs over Park St
  - Pedestrian Bridge Repairs over Stoughton Road
- 2025 – Epoxy Coating of Bridge Decks - Beld St, Milwaukee St



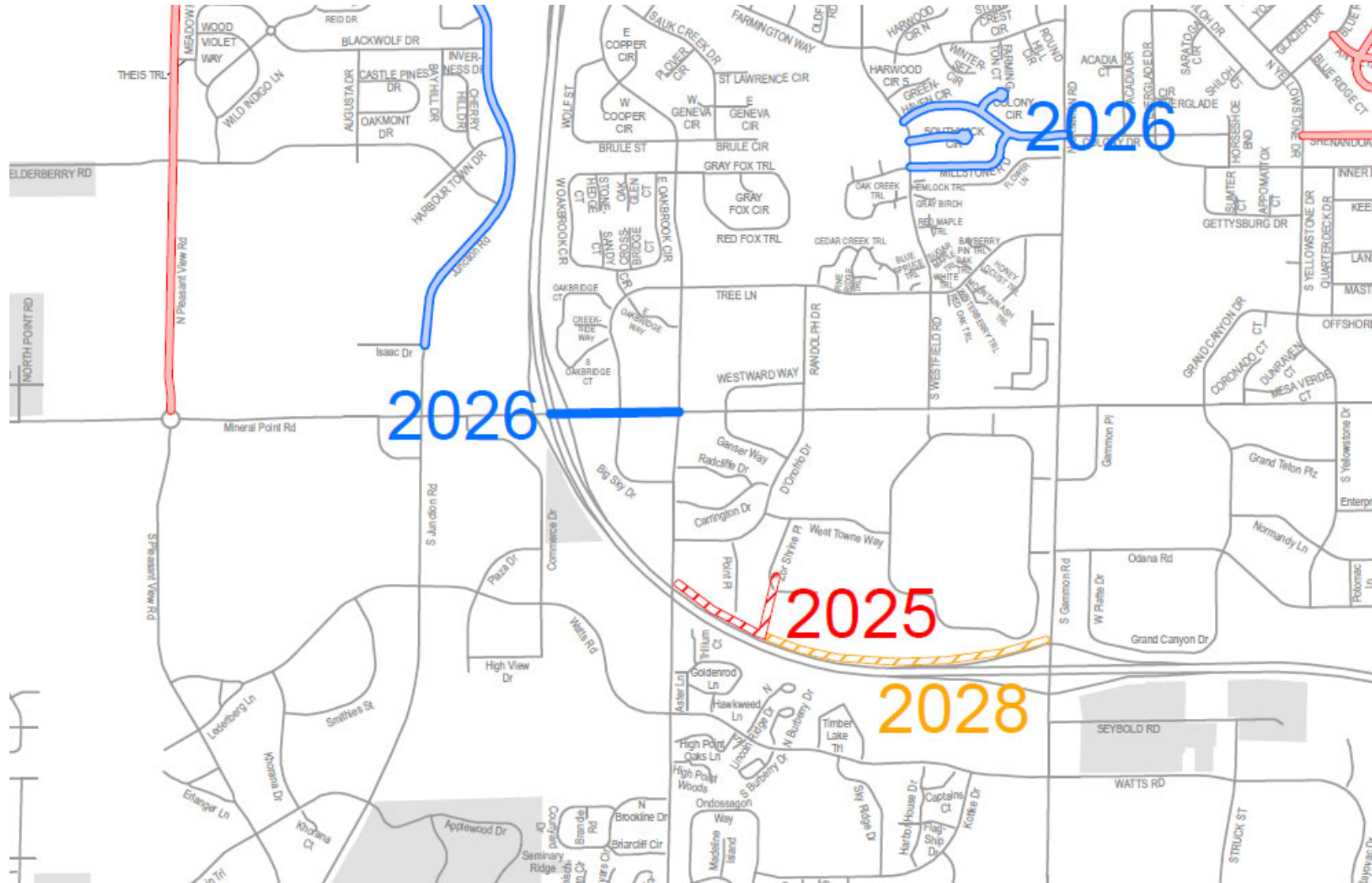
# John Nolen Dr - STBG



# Mineral Point Rd - STBG



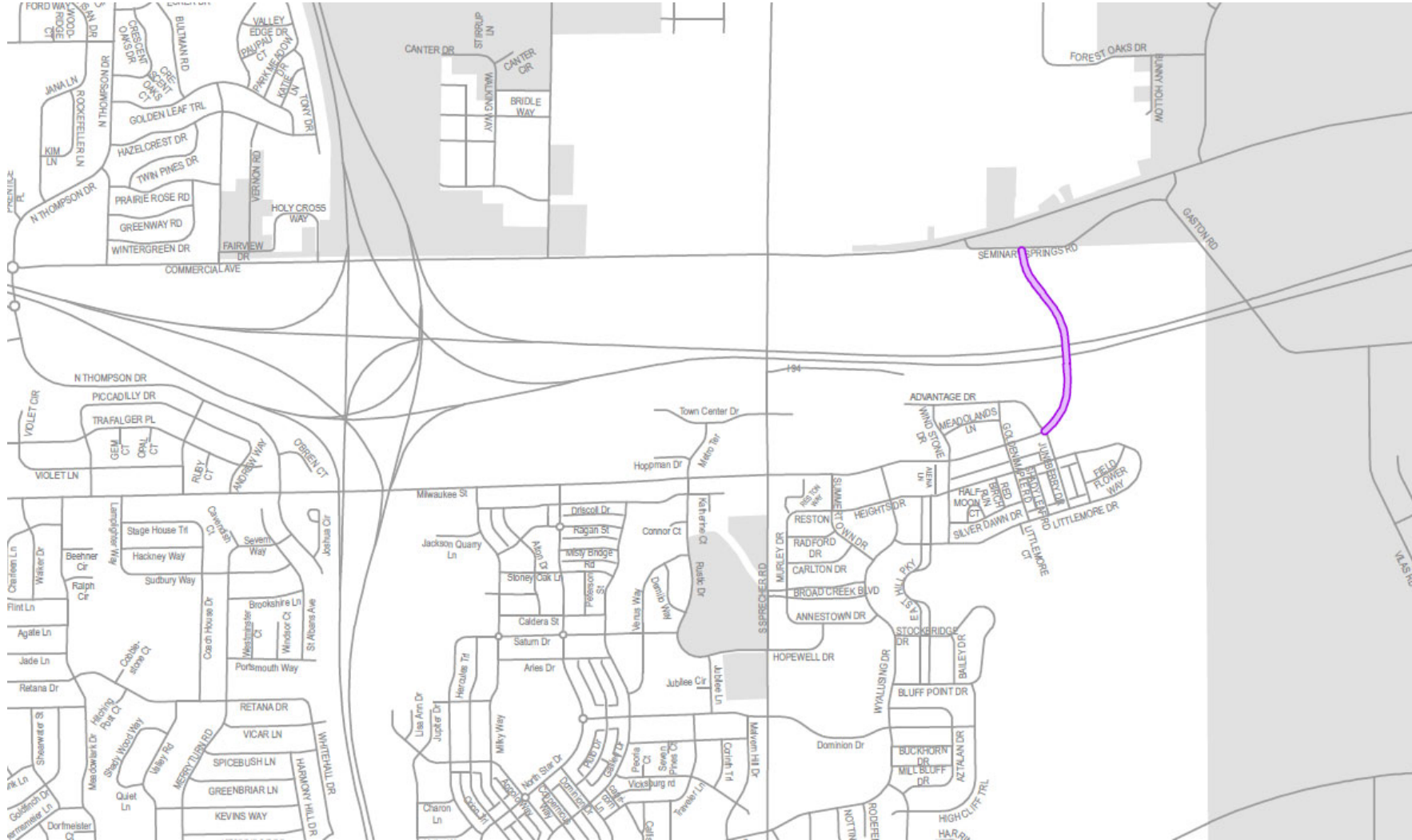
# West Towne Path Phase 2 - STBG



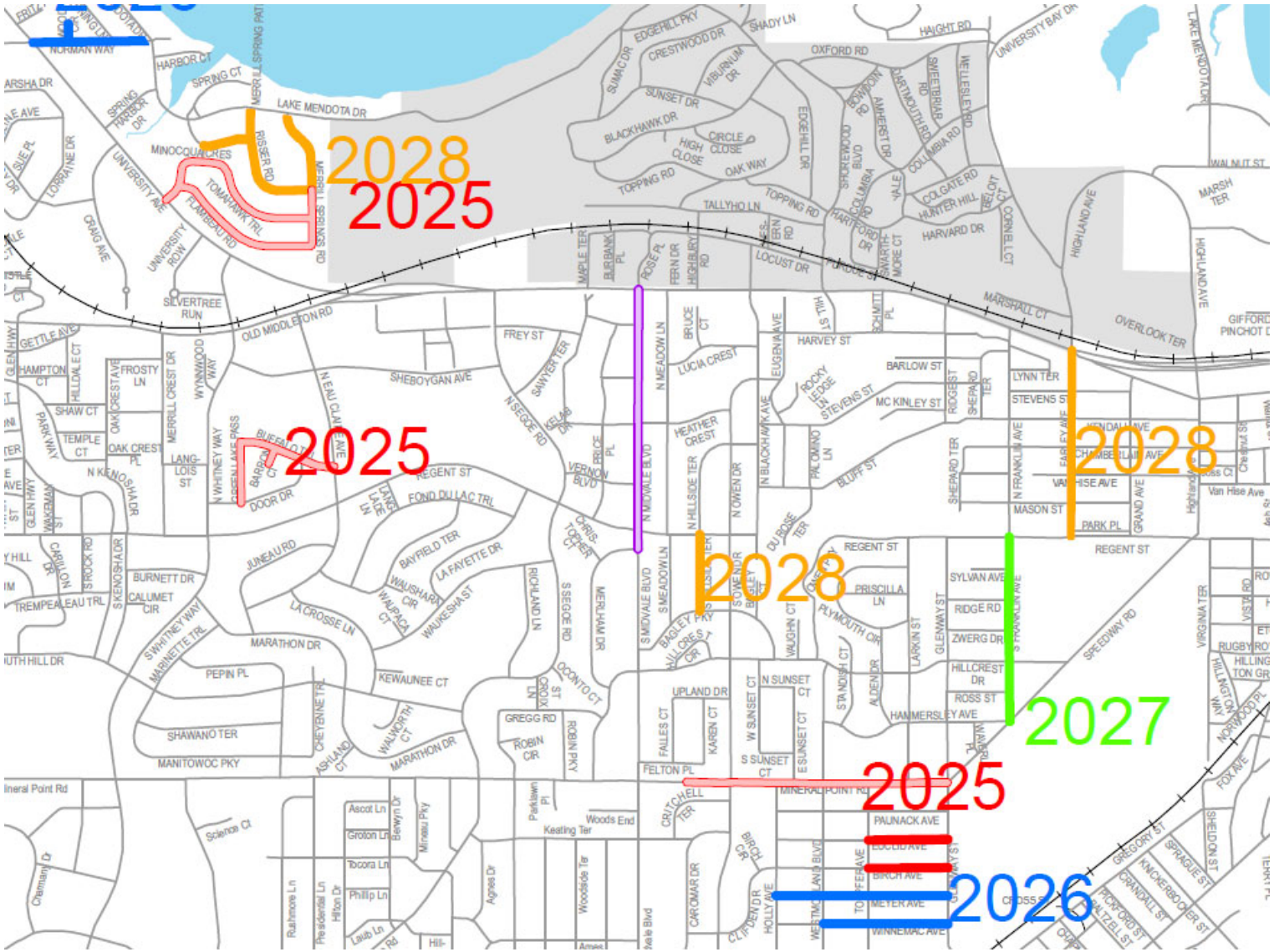
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# Milwaukee St – STBG (future application)

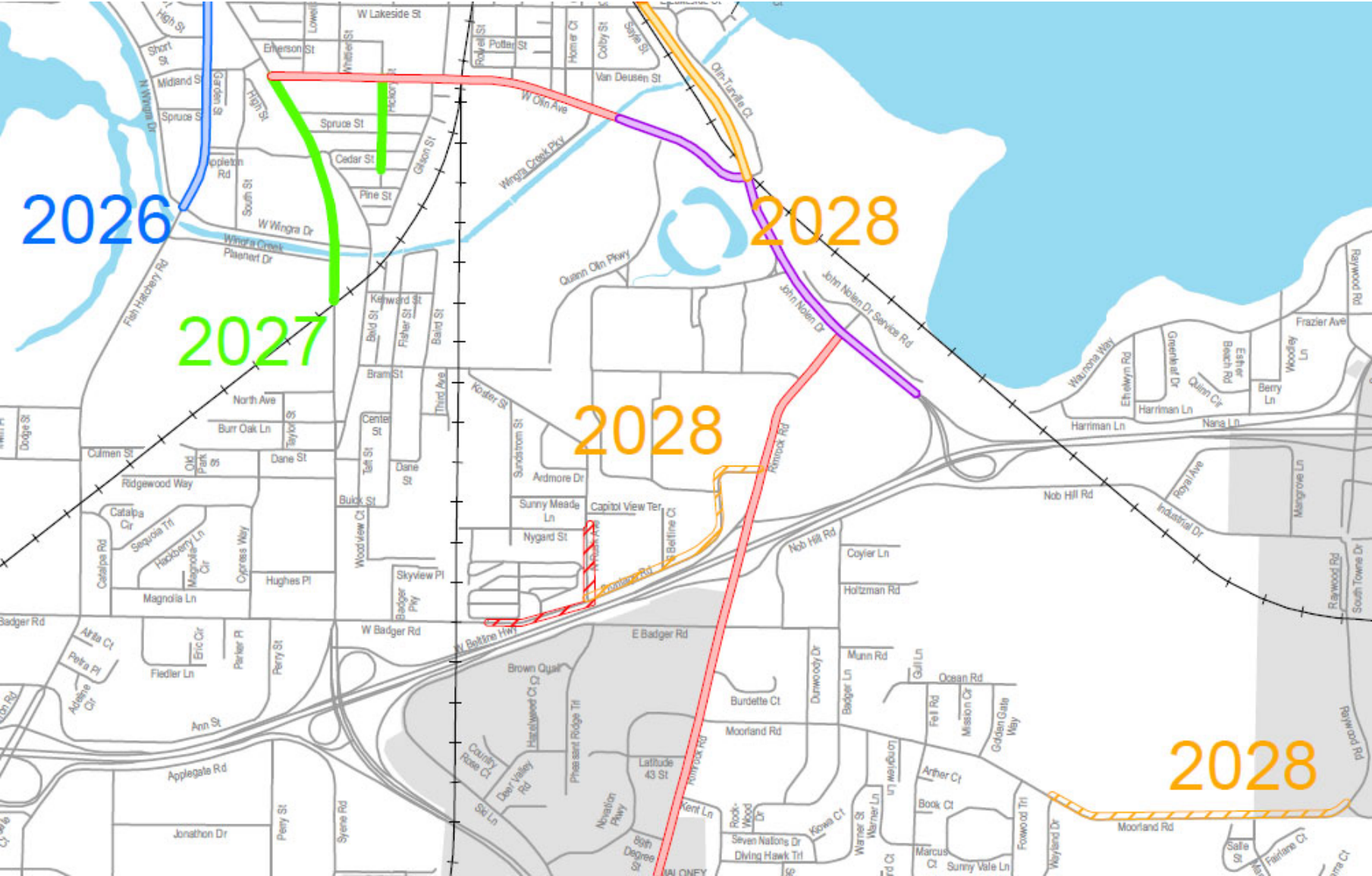


# Midvale Blvd – STBG (future application)

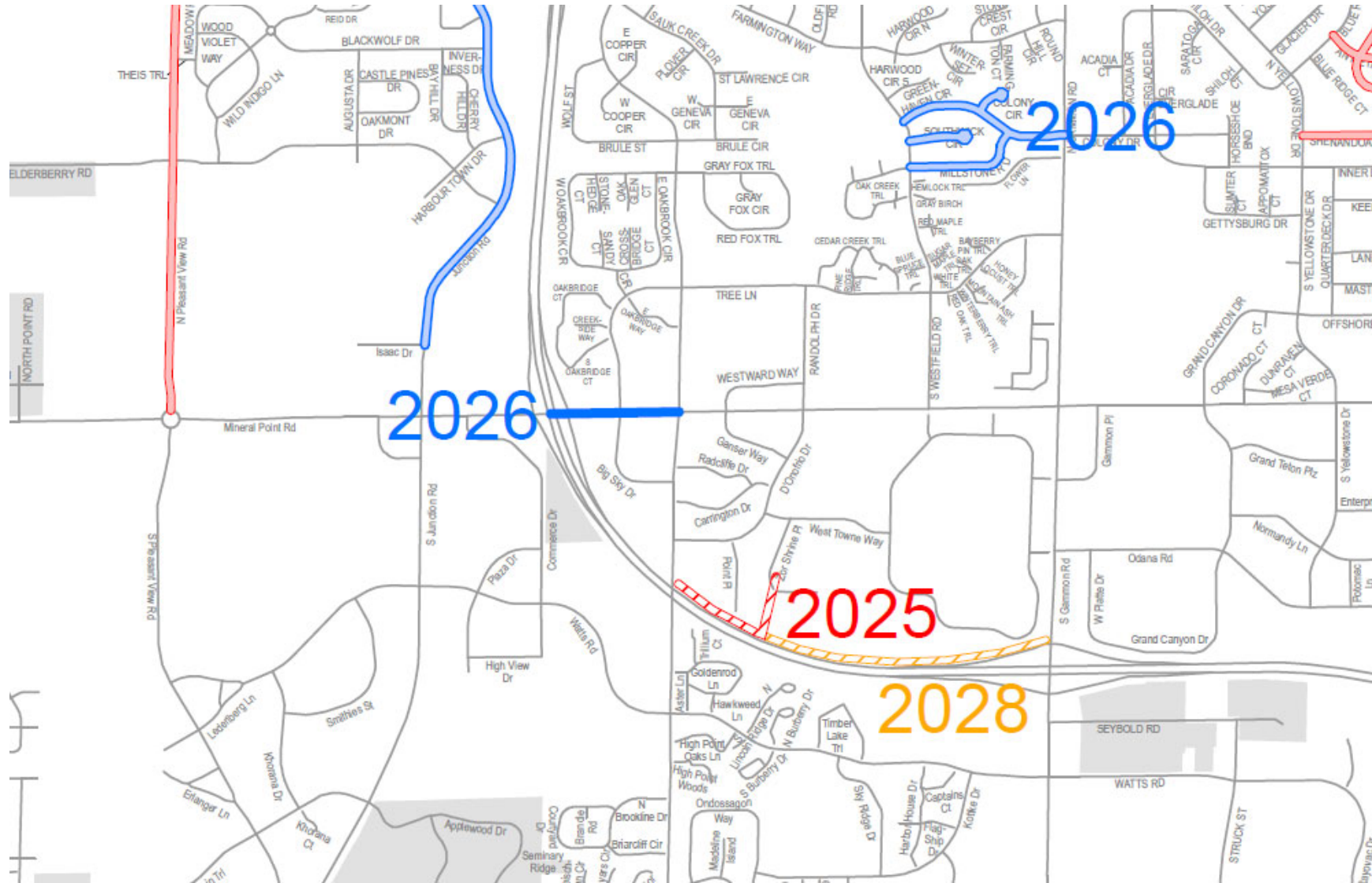




# Badger Rusk Path - TAP



# West Towne Path Phase 2 - TAP

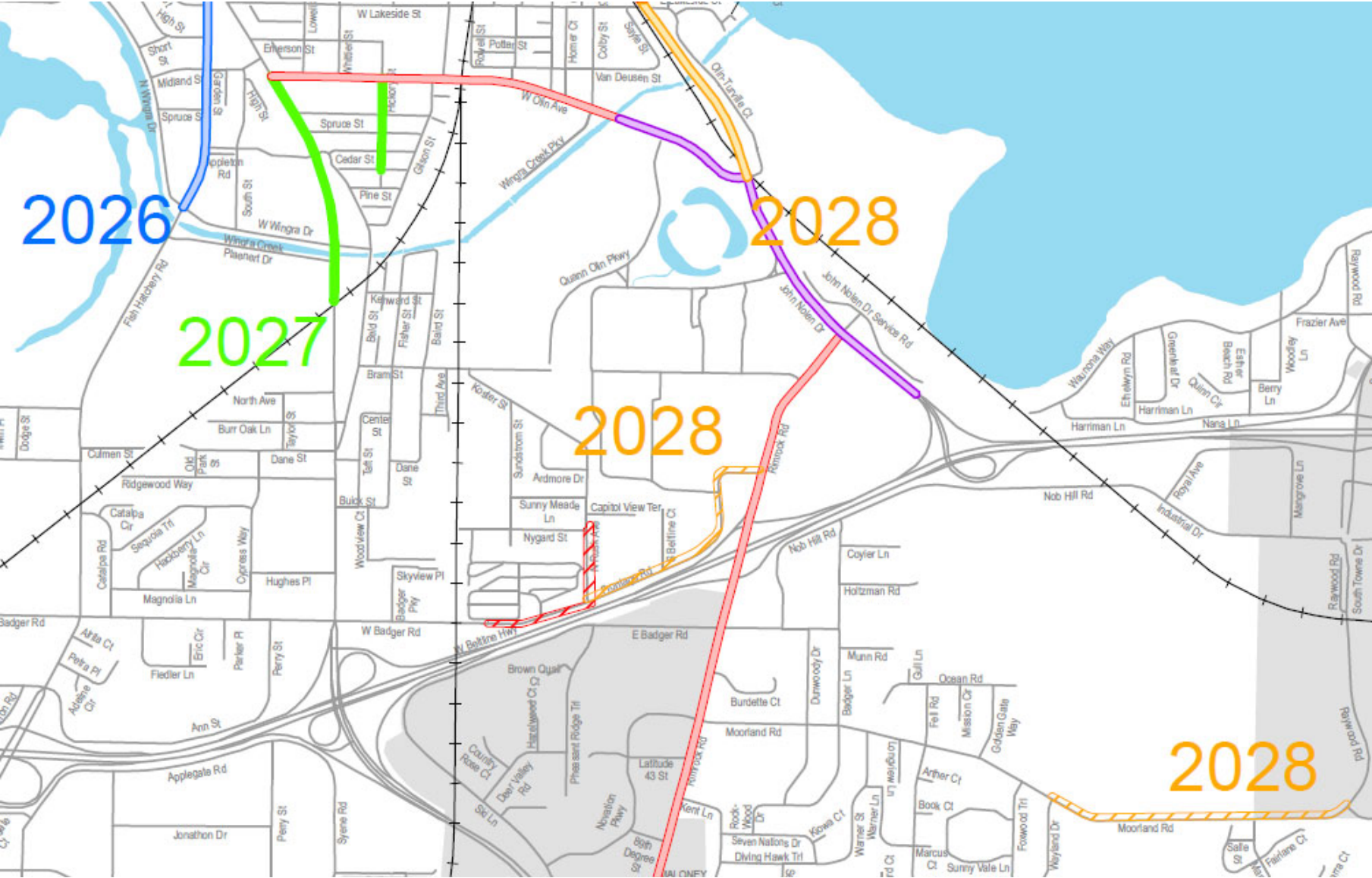


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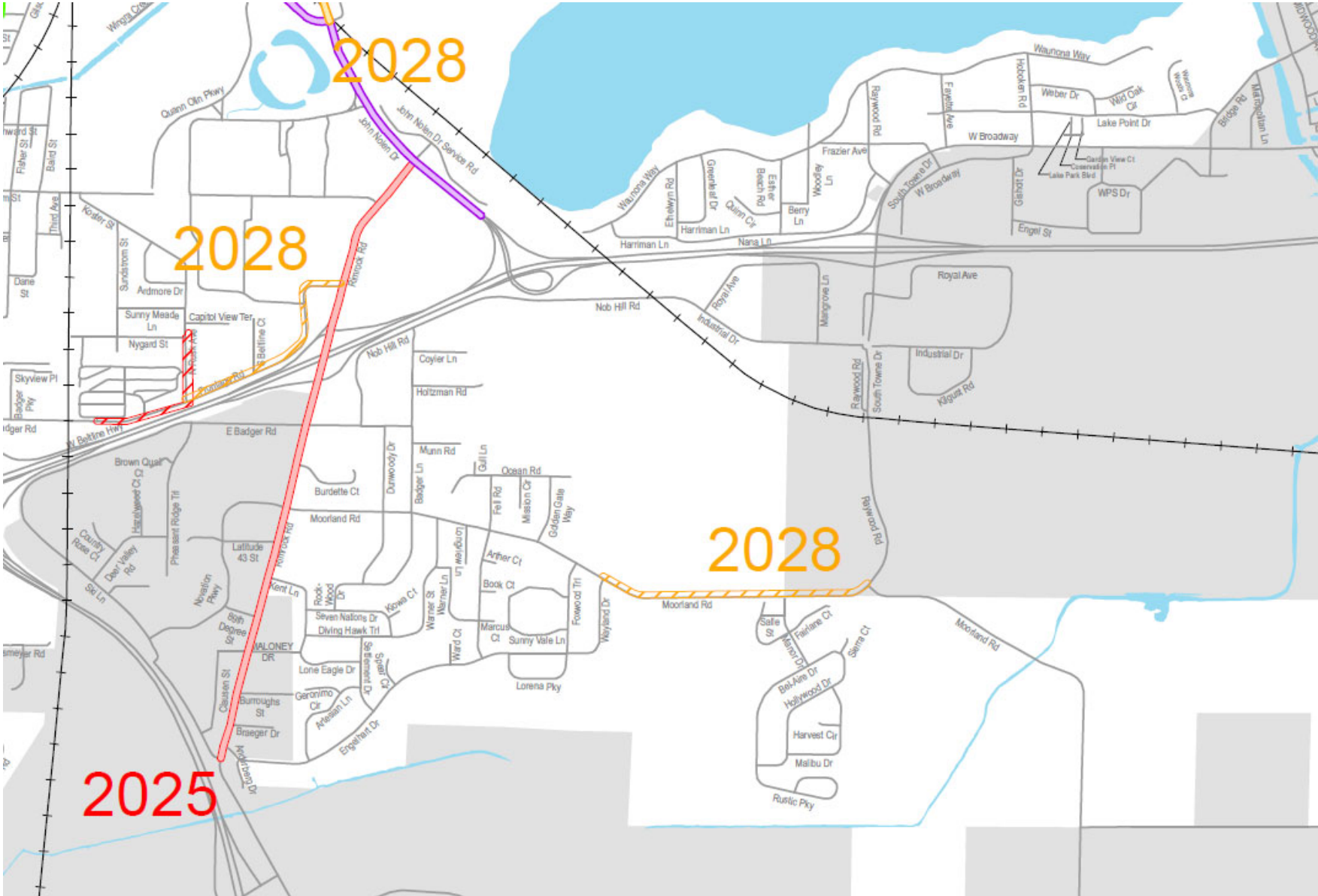




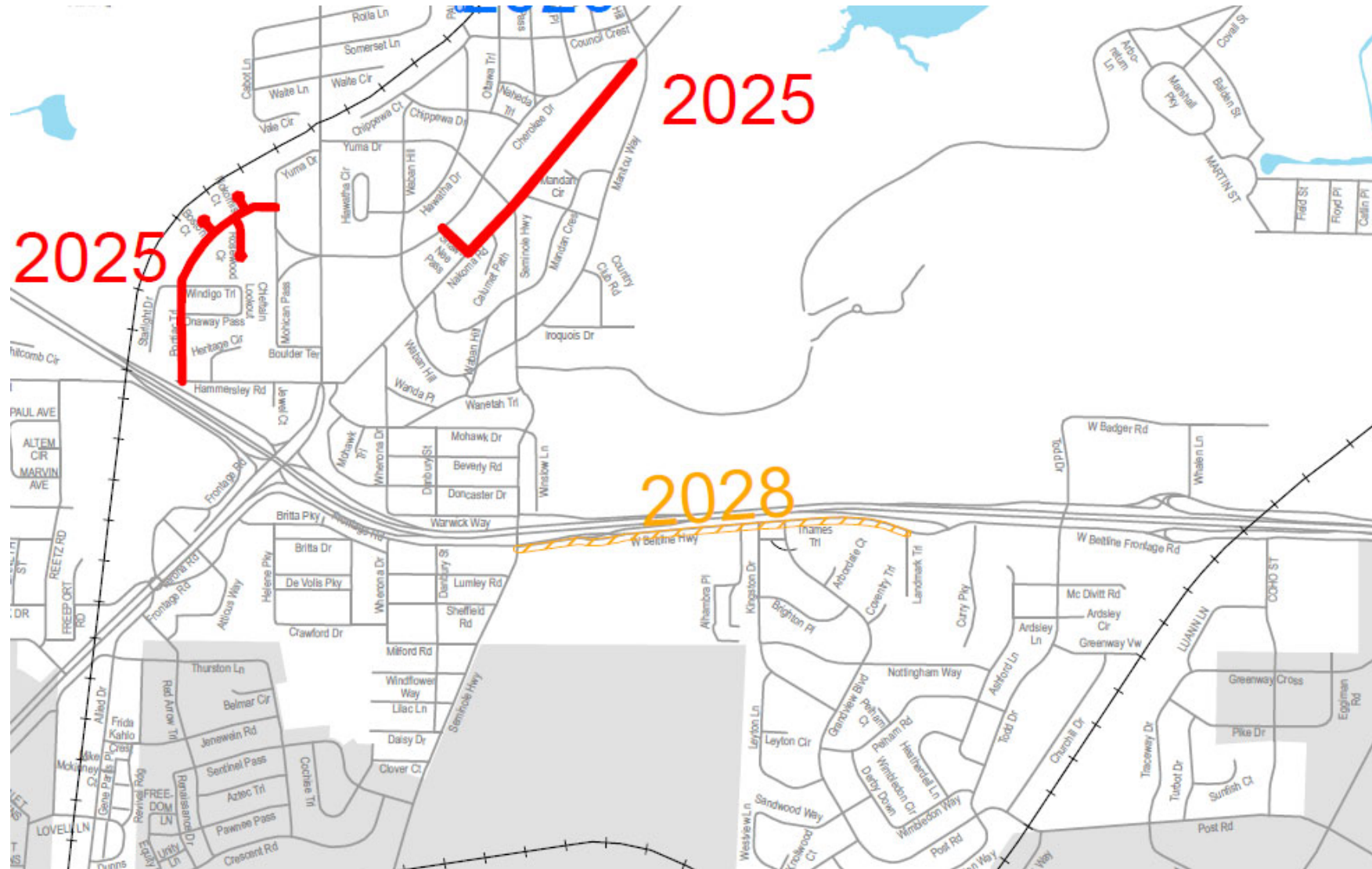
# East Rusk Path - TAP



# Moorland Path - TAP

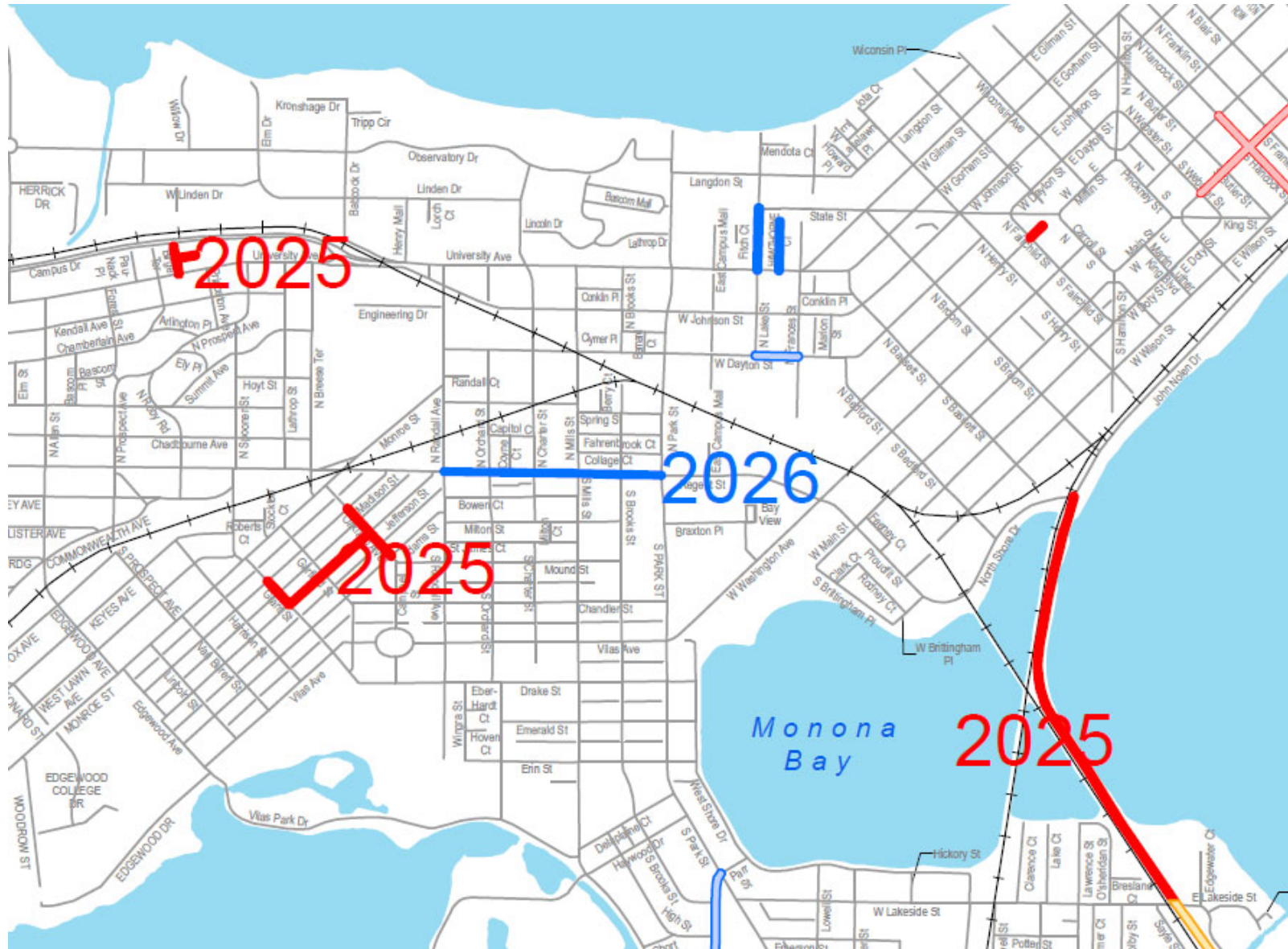


# West Beltline Path - TAP



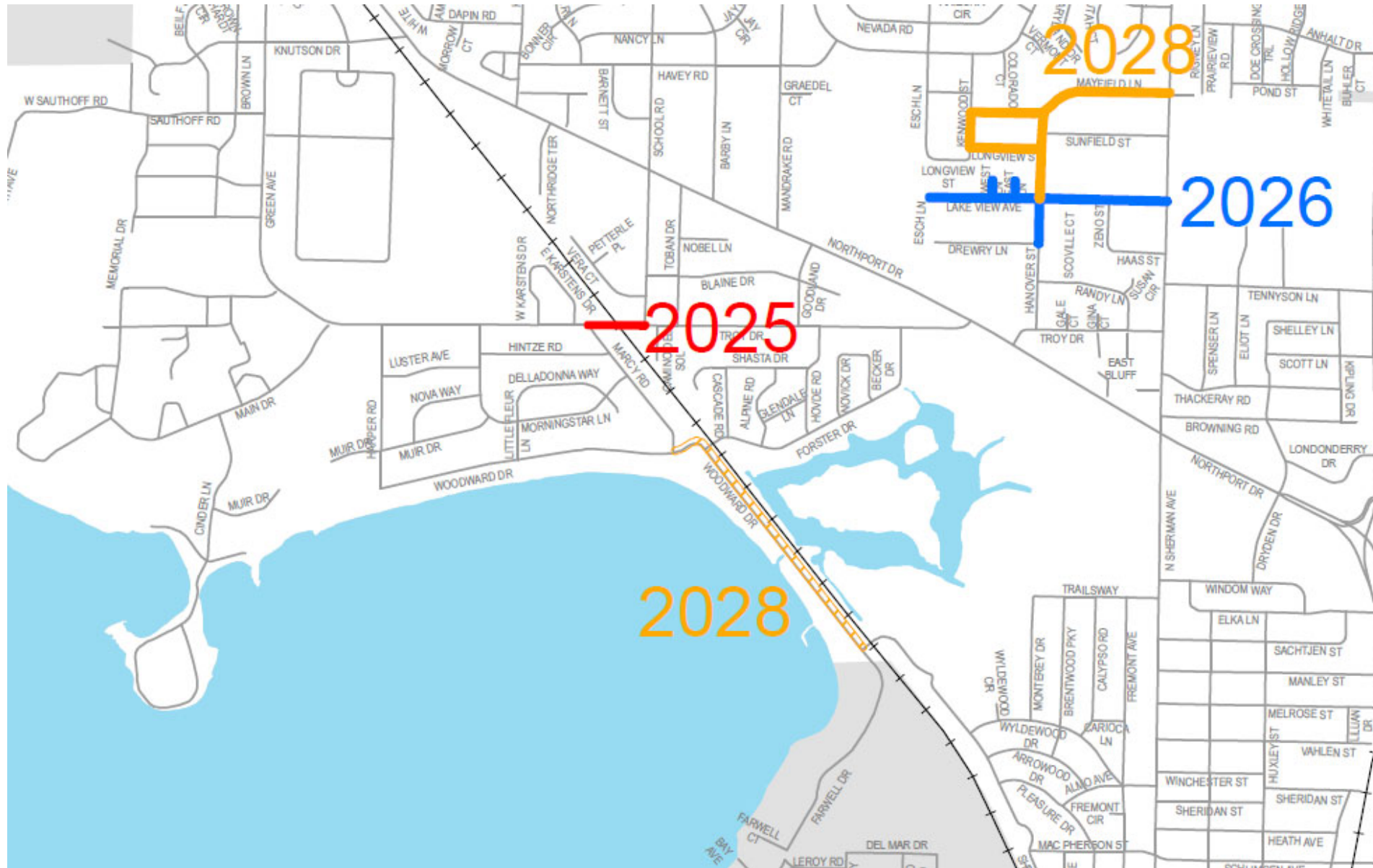


# Regent St

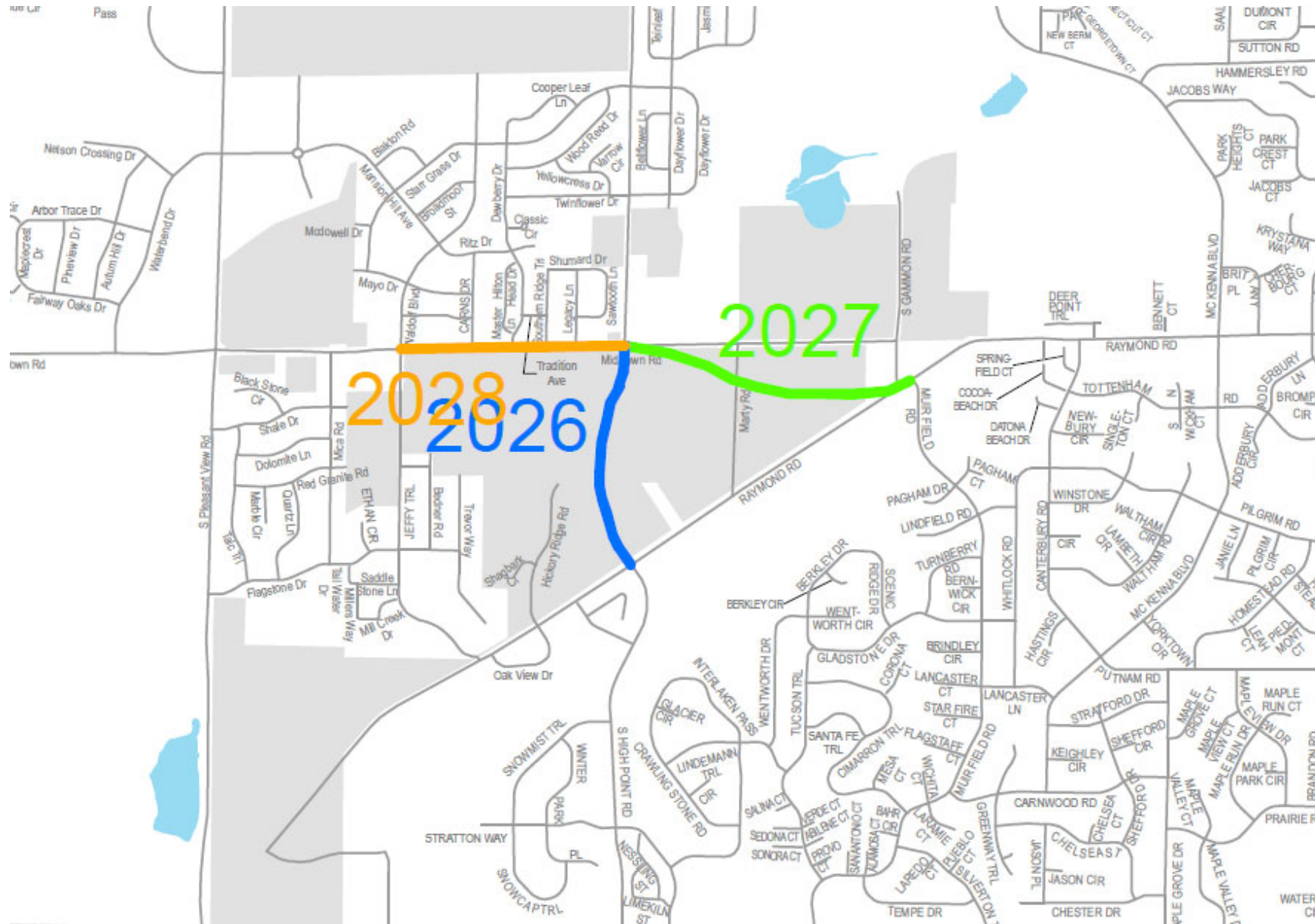




# Troy Drive Railroad Bridge



# High Point / Raymond / Mid Town



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# Other City Projects

- East/West BRT – 2023/24
- North/South BRT – 2027/28
- Safe Streets - Ongoing



# State of our Local Streets

	<b>Local</b>	<b>2001</b>	<b>2015</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>
	% Miles at or below Cond State 10	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% Miles at or below Cond State 9	93.9%	98.1%	96.6%	94.6%	96.1%	97.4%	95.7%	94.8%	96.2%
	% Miles at or below Cond State 8	88.3%	94.9%	94.3%	92.2%	92.9%	93.4%	91.8%	91.3%	91.5%
	% Miles at or below Cond State 7	68.2%	64.1%	61.8%	53.2%	78.5%	62.9%	46.3%	42.6%	40.3%
	% Miles at or below Cond State 6	61.8%	41.8%	45.9%	44.3%	44.3%	41.1%	35.0%	30.6%	29.0%
<b>Goal 30%</b>	% Miles at or below Cond State 5	34.9%	27.6%	27.8%	25.9%	25.7%	23.5%	19.6%	18.7%	17.4%
<b>Goal 15%</b>	% Miles at or below Cond State 4	11.6%	17.5%	18.2%	16.2%	15.4%	14.3%	11.8%	11.4%	11.0%
<b>Goal 0%</b>	% Miles at or below Cond State 3	2.4%	2.7%	3.5%	3.1%	2.9%	2.6%	2.2%	1.6%	2.0%
	% Miles at or below Cond State 2	0.9%	0.1%	0.2%	0.2%	0.1%	0.3%	0.3%	0.0%	0.4%
	% Miles at or below Cond State 1	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.3%
	% Miles at or below Cond State 0	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.3%

# State of our Collector Streets

	Collector	2001	2015	2017	2018	2019	2020	2021	2022	2023
	% Miles at or below Cond State 10	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% Miles at or below Cond State 9	94.2%	96.4%	96.7%	95.1%	96.1%	97.0%	96.5%	95.8%	95.6%
	% Miles at or below Cond State 8	86.1%	90.8%	93.0%	91.5%	92.8%	95.0%	94.5%	94.3%	94.3%
	% Miles at or below Cond State 7	58.3%	58.8%	61.5%	53.1%	78.0%	64.4%	47.9%	48.6%	43.7%
	% Miles at or below Cond State 6	48.6%	39.0%	44.3%	43.1%	46.5%	43.9%	37.0%	32.2%	32.6%
Goal 25%	% Miles at or below Cond State 5	27.8%	18.9%	23.1%	21.3%	25.0%	22.6%	20.7%	16.9%	15.2%
Goal 10%	% Miles at or below Cond State 4	6.0%	9.1%	10.2%	9.5%	8.4%	8.1%	8.0%	8.1%	6.6%
Goal 0%	% Miles at or below Cond State 3	0.3%	2.9%	3.2%	3.0%	1.8%	1.6%	1.8%	1.4%	1.3%
	% Miles at or below Cond State 2	0.0%	0.0%	0.0%	0.2%	0.2%	0.0%	0.3%	0.0%	0.4%
	% Miles at or below Cond State 1	0.0%	0.0%	0.0%	0.2%	0.2%	0.0%	0.3%	0.0%	0.4%
	% Miles at or below Cond State 0	0.0%	0.0%	0.0%	0.2%	0.2%	0.0%	0.3%	0.0%	0.4%



# State of our Arterial Streets

	Arterial	2001	2015	2017	2018	2019	2020	2021	2022	2023
	% Miles at or below Cond State 10	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
	% Miles at or below Cond State 9	98.3%	98.0%	97.8%	95.1%	95.1%	97.4%	93.8%	93.0%	93.5%
	% Miles at or below Cond State 8	87.0%	89.8%	93.6%	90.7%	92.9%	91.8%	88.2%	88.0%	89.8%
	% Miles at or below Cond State 7	58.4%	56.4%	53.8%	42.5%	78.9%	57.9%	45.2%	51.1%	46.8%
	% Miles at or below Cond State 6	46.3%	37.8%	37.8%	36.5%	40.6%	39.9%	33.9%	32.1%	32.0%
Goal 20%	% Miles at or below Cond State 5	23.3%	18.4%	26.3%	24.6%	25.6%	25.8%	21.2%	21.1%	17.6%
Goal 5%	% Miles at or below Cond State 4	2.0%	7.1%	8.8%	6.9%	8.6%	8.2%	6.0%	6.5%	4.7%
Goal 0%	% Miles at or below Cond State 3	0.5%	2.4%	2.5%	1.6%	1.1%	1.2%	0.6%	0.3%	0.1%
	% Miles at or below Cond State 2	0.5%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
	% Miles at or below Cond State 1	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	% Miles at or below Cond State 0	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



# Contact Information & Resources

- Engineering
  - City Engineer, Jim Wolfe, 608-266-4099, [jwolfe@cityofmadison.com](mailto:jwolfe@cityofmadison.com)
  - Assistant City Engineer, Chris Petykowski, 608-267-8678, [cpetykowski@cityofmadison.com](mailto:cpetykowski@cityofmadison.com)
- Project Website: [cityofmadison.com/engineering/projects/](http://cityofmadison.com/engineering/projects/)
  - Sign-up for project email updates on the website
  - Updates on closures & work progress will be posted to the project website
  - Recording of Public Information Meetings will be posted on the project website
- Facebook – City of Madison Engineering
- Twitter – @MadisonEngr
- Podcast: Search Everyday Engineering on Apple iTunes, GooglePlay or your podcast provider

