

Lake Mendota Dr. Reconstruction - 2023

Public Information Meeting City of Madison Engineering Division 10-6-2022

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



Meeting Technical Housekeeping

- This meeting will be <u>recorded</u> and posted to the project page.
- All attendees should be <u>muted</u> to keep background noise to a minimum.
- Use the <u>"chat"</u> button for technical issues with meeting to troubleshoot with staff to assist.
- Use the <u>"Q and A"</u> button to type questions about presentation. Questions will be answered live after the presentation.
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For comments or ask additional questions.





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







We will answer after the presentation

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Presentation Outline

- Limits and scope for this phase
- Existing conditions and proposed work
- Stormwater treatment opportunities
- ➢ Review proposed plan
- ➤Assessment policy
- ➤Construction
- Project schedule and meetings
- Discussion and Q&A





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Scope of Work

Replace City sanitary sewer where feasible

➢ Replace & install new storm sewer

>Includes some treatment opportunities

Reconstruct street per approved geometrics

≻Install curb & gutter

➤Install sidewalk

>Existing water mains lined in advance of this project



Existing Conditions - Surface

- Pavement Rating 4 (seal coat pavement)
- ➤Curb Rating 0 (no existing curb)
- ≻No sidewalk
- Street Width Varies 28'-32' +/-
- On-Street Parking Mostly allowed on both sides
- ➢R.O.W. Width 66' (narrows to 55' on east end)

| Pavment Surface and Curb Evaluation Ratings | | | | |
|--|--------|--|--|--|
| Quality | Rating | | | |
| Excellent | 9-10 | | | |
| Good | 7-8 | | | |
| Fair | 5-6 | | | |
| Poor | 3-4 | | | |
| Failed | 1-2 | | | |



Proposed Street Work

Replace the pavement & gravel base; install curb & gutter (village type) and sidewalk

- Layout of new street per geometrics approved by Council in April, 2022
 - ➤Narrowed street width
 - Sidewalk along north side & on south side from Spring Harbor Dr. to Spring Ct.
 - Remove excess pavement around Spring Ct. & Merrill Crest intersections
 - ➢ Tighten radii at other intersections, and improve ped crossing at Spring Harbor Dr.
 - ➢Bumpouts for traffic calming & for grades
 - Speed humps
 - ➢ Parking allowed in widened areas



Lower profile, rolled curb head, instead of City-standard, more vertical curb



Tree Protection

- Priority to protect trees, especially large canopy trees
- Reviewed project with City Forestry
 Identify sensitive trees
 Forestry will prune ahead of construction
- >Include any special protective measures
 - Protection fencing around some trees during construction
 - ➤Hand-form curb and/or sidewalk
- Adjust curb & sidewalk design
 - ➢ Bumpouts, radius cuts in sidewalk, etc.





Tree Protection

- Tree canopy important characteristic of street & neighborhood
- Priority to protect trees, especially large canopy trees
- Review project with City Forestry
 - Identify sensitive trees
 - Forestry will prune ahead of construction
- Include any special protective measures
 - Protection fencing during construction
 - Hand-form curb locations
 - Occasionally will do root investigations to help plan construction methods





General Water Quality Approach on Street Projects

- Water Quality improvement is a consideration with all projects
- Streets without curb or defined ditches can be problematic
 - Stormwater drains along street edge that is not stabilized, resulting in erosion
 - Runoff from this areas carries sediment & pollutants
- Install physical improvements with projects to limit erosion and collect sediment





Water Quality

Curb and gutter & new pavement
 Provides stable surface for stormwater
 Limits erosion by keeping vehicles and equipment on street
 Allows for more effective sweeping

➤Install Catchbasins

- Underground storm sewer structures
- ≻1 per every 4 acres on average
- Clean twice a year with a Vactor Truck as part routine structure cleaning
- Effective at trapping larger particles (sand) ~ 10% TSS removal
- Potentially upstream of bioretention





Green Infrastructure Opportunities

➢4 stormwater treatment locations created

- Installed w/ project, maintained by n'hood
 Goal: Filter road pollutants, infiltrate stormwater, provide habitat for pollinators
- Met w/ SHNA Ad-hoc committee to discuss locations & proposed designs

Extra Right-of-way space near school
 Install portion with 2023 project, complete with 2024 project

- ➢Along Spring Harbor Park open space
- "Turtle Park" (Spring Ct. intersection)
- Merrill Springs intersection
 - ➤Less certain due to challenging grades



Dudgeon Park Bioretention: Neghborhood/City/School Collaboration July 2022 photo







Terrace Rain Gardens: Dean Ave 2022 photo

Terrace Rain Gardens

- Collects runoff from road
- 1 foot deep measured from top of curb
- Planted with native vegetation
- Designed, constructed and planted by City
- Maintained by residents
- ≽\$100 assessment and waiver signed by homeowner
- Terrace Constraints limit locations





Terrace Rain Gardens

- Lake Mendota Drive Terrace Rain Garden Evaluation
 - Limited potential due to terrace width and adjacent slopes.
 - South side of the street may have some Opportunities

If interested email Phil Gaebler: pgaebler@cityofmadison.com

Will also review past requests submitted with previous surveys



Private Property Rain Gardens

Receives roof water instead of street water

- Fewer pollutants in supply water
- ➢ Reduces maintenance
- Improves quality of groundwater recharge
- ➢Less competition for space
- ➢Native plants provide habitat
- ➤Can work with existing landscaping
- Construction can not be completed by City, but we can assist with design and educational resources.
- ➤Great resources here:
 - https://www.ripple-effects.com/Rain-Gardens



Rain garden in front of Phil's house



Rain Gardens



- ➢ 2' special soil: 30% compost & 70% sand
- Planted in Natives
- No piped over flow, overflows to street, excess water bypasses system
- ➢ 6" ponding depth
- Filtering & infiltration capacity controlled by native soil
- Lower cost, does not need storm sewer near by

Bioretention



- ➢ 2' special soil: 30% compost & 70% sand
- Planted in Natives
- Underdrain & Overflow pipe
- ➢ 6-12" ponding depth
- Filtering controlled by special soil, and the infiltration controlled by native soil
- Need outlet for underdrain (storm sewer)

➢ For larger, neighborhood features, try to install bioretention due to additional filtering benefits, but may not be possible in all locations

VS.



Storm Sewer

Existing storm sewer is primarily 12"-18" concrete pipe, and a 2'x2' box near Spring Ct. – Spring Harbor

Mostly installed in 1955, with some from 1980's & early 2000's

Evaluate storm sewer throughout project to provide adequate drainage, and review with flood mitigation goals

>At a minimum, with need to adjust system to fit new street

>Upsize pipes & extend new pipes, as necessary

≻Likely upsize box new Spring Harbor to 42" pipe



Sanitary Sewer

 Most properties currently served off backyard mains & lift station; some served off main in street
 Existing mostly from 1940's-50's

Replace main in street, and adjust depth to hopefully allow some properties to pull off of backyard main(s) & lift station

Near Spring Harbor Dr. – replace sewer laterals off of MMSD to main to adjust elevations for properties to more easily connect





Current Assessment Policy

| Item | Property Owner Share | City Share |
|----------------------------------|----------------------|------------|
| Curb and Gutter & 4' of Pavement | 100% | 0% |
| Remaining 12'-14' of Pavement | 0% | 100% |
| Install new sidewalk** | 100% | 0% |
| Replace existing curb and gutter | 50% | 50% |
| Replace existing sidewalk | 50% | 50% |
| Replace driveway apron | 50% | 50% |
| Replace terrace or front walk | 50% | 50% |
| Storm sewer | 0% | 100% |
| Private storm connects, if any | 100% | 0% |
| Terrace rain garden | \$100 | Remainder |
| Sanitary sewer main | 0% | 100% |
| Sanitary sewer laterals | 25% | 75% |
| Water main lining | 0% | 100% |

**Note: Safe routes grant would cover 50% of costs to install new sidewalks



Assessment Policy & Costs

- ➢A resolution will be introduced to the Common Council on 10/11 to update the street assessment policy, with a potential approval date of 10/25
 - New policy would change to assessing more of the pavement (10'), but would effectively eliminate the assessment for curb & sidewalk
- Preliminary, estimated assessments will be mailed to property owners prior to the project
- ➢Under both current and proposed policies, the assessments are based on property frontage and specific dimensions of sewer laterals and driveway aprons, or other items that specifically serve adjacent property

≻50% of frontage for 1-2 family residential properties on corners

- Final assessments calculated following construction and final billing sent in summer after construction (sent in 2024)
- ➢Assessments are payable in lump sum or in up to 8 installments at current interest rate (2% in 2022, will be 4% in 2023)



Construction & Impacts

Construction will likely take about 3-4 months to complete
Fair amount of underground utility work, with limited access points

- >Written notice of actual start will be sent a minimum of 2 weeks prior
- ► Allowed work hours are 7am-7pm Mon-Sat & 10am-7pm Sun

>Typically, work from 7am-5pm, with limited work on weekends

- Street will be closed to thru traffic within the project limits
 - Local access will remain, but access may only be from one end of the project
 Access will primarily be just on gravel roads/paths
- ➤ Residential driveways may be closed up to 20 days
 - Longest closure is typically near the end of the project, for concrete work, will be notified in advance
 - Some short duration closures to complete utility work through driveways
- ➢No on-street parking allowed during work hours



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Construction & Impacts

>Contractor will be required to maintain access for services

Emergency vehicle access

➤Garbage/recycling collection – please mark your address on your carts

City crews will try to collect leaves/brush, if possible

Contact project engineer and/or streets division if you anticipate needing a collection to help review feasibility of equipment access

➤Mail delivery

Contractor will install temporary mailboxes at project boundaries

> Would be unlikely that mail carrier could get to every house, each day

Permanent mailboxes will be re-installed at the end of the project

If you anticipate any significant deliveries or work to take place at your home, please contact the engineer in advance to coordinate schedule and access



Construction & Impacts

- The areas within a few feet of the existing street will likely be disturbed during construction
 - Any items near the street that you wish to save, should be removed prior to the start of construction
 - > Landscaping plants, planter borders, etc.
 - Pavers or decorative stone; paver driveways will be removed & salvaged by City contractor, but not re-installed
- > Fences in the right-of-way will need to be removed
- ➢Private parking areas in the right-of-way will be removed
- Driveway aprons will be replaced, but only if they serve a garage or legal parking areas on private property
 - Parking areas that are not in accordance with zoning ordinances will not be served with new driveway aprons
- Some items may be allowed to remain
 - Retaining walls that are necessary due to significant grade changes
- > Feel free to contact project engineer if questions about specific items
- ➢Full design will be necessary to know full extent of impacts



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2023 Anticipated Project Schedule

- 10/21/22: Mail Estimated Assessments, Public Hearing Notice
 - 11/11/22 alternate
- 11/2/22: BPW Public Hearing
 - 11/23/22 alternated
- 11/22/22: Common Council Hearing
 - 12/6/22 alternate
- 2/9/23: Advertise for Bids
- 5/8/23: Begin Construction (may be revised to avoid impacts on school)
- 8/15/23: End Construction (may be revised in accordance with start date)



Contact Information & Resources

- Engineering
 - Jim Wolfe, Project Manager, 266-4099, jwolfe@cityofmadison.com
 - Daniel Olivares, City Engineering Sewers, 261-9285 or <u>daolivares@cityofmadison.com</u>
 - Renee Callaway, Ped & Bike Administrator, 266-6225, <u>recallaway@cityofmadison.com</u>
 - Tom Mohr, Traffic Engineering, 267-8725, <u>tmohr@cityofmadison.com</u>
 - Adam Wiederhoeft, Water Utility, 266-9121, awiederhoeft@madisonwater.org
 - Phil Gaebler, Terrace Rain Gardens, (608) 266-4059, pgaebler@cityofmadison.com

> Project Website: www.cityofmadison.com/engineering/projects/lake-mendota-drive

- 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
- Facebook City of Madison Engineering
- Twitter @MadisonEngr
- Engineering Podcast: Everyday Engineering on iTunes, GooglePlay

