

Project 5992-10-03
Public Involvement Meeting 1 of 3

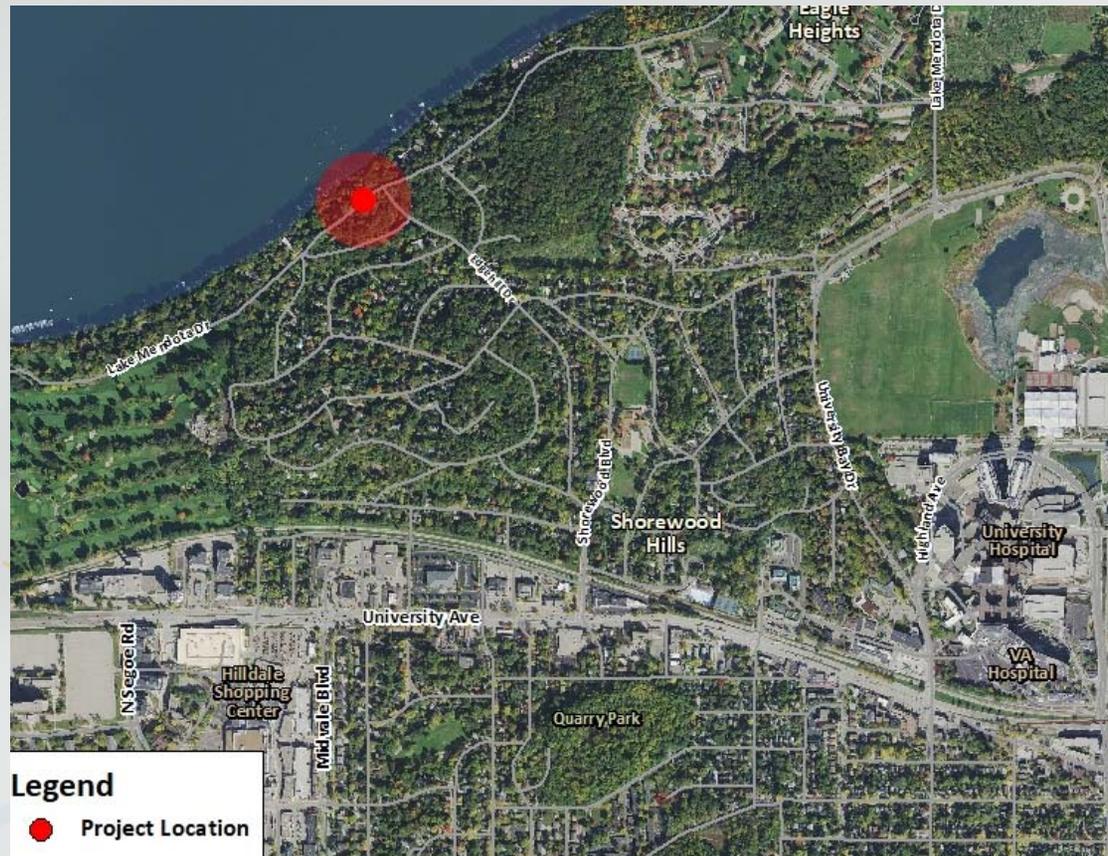
Village of Shorewood Hills
Lake Mendota Drive Bridge

October 8, 2020



the village of
SHOREWOOD HILLS
Wisconsin

Project Location



Why do we need this project?

Structure Service Life



Project History

- Bridge Inspection/Rating
 - Yearly inspections required based on condition of bridge
 - Recommended for replacement in 2016
- Applied for funding with 2017-2022 Local Bridge Program in August 2018
- Awarded funding in November 2018
 - Construction completion required by June 30, 2024
- Hired KL Engineering as consultant

Project Team

- Karl Frantz
 - Village Administrator
- Chad Halverson, PE
 - Consultant Project Manager
- Mark Westerveld, PE
 - Local Program Project Manager



Project Funding

- Estimated construction cost \$900,000
- Funding
 - State (80%) = \$720,000
 - Village (20%) = \$180,000



Requirements for Funding

- Replace the existing facility
- Meet minimum bridge design standards
- Funding application details
 - 28 foot clear width
 - 4 foot sidewalk
 - 95 foot long bridge
 - 100 feet of approach work
- 100% Village Funding for items beyond normal bridge construction
 - Aesthetic treatments

Project schedule

- Design Phase 2020 – 2022
- Public Involvement Meeting #1 October 2020
- Public Involvement Meeting #2 Winter 2020/2021
- Public Involvement Meeting #3 November 2021
- Construction (3 months) 2023

Project Stakeholders

- Public
- Parks
- Forestry
- Public Works Committee
- Boathouse

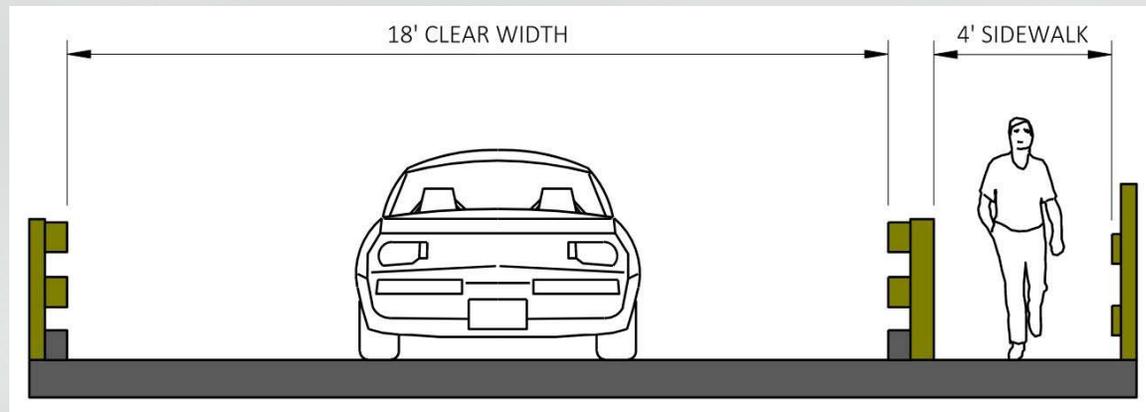


Priorities and objectives

- Prioritize pedestrian and bicycle use
- Naturally calm traffic
- Improve access under bridge
- Maintain natural landscape
- Protect plants and trees
- Minimize property impacts



Current Bridge

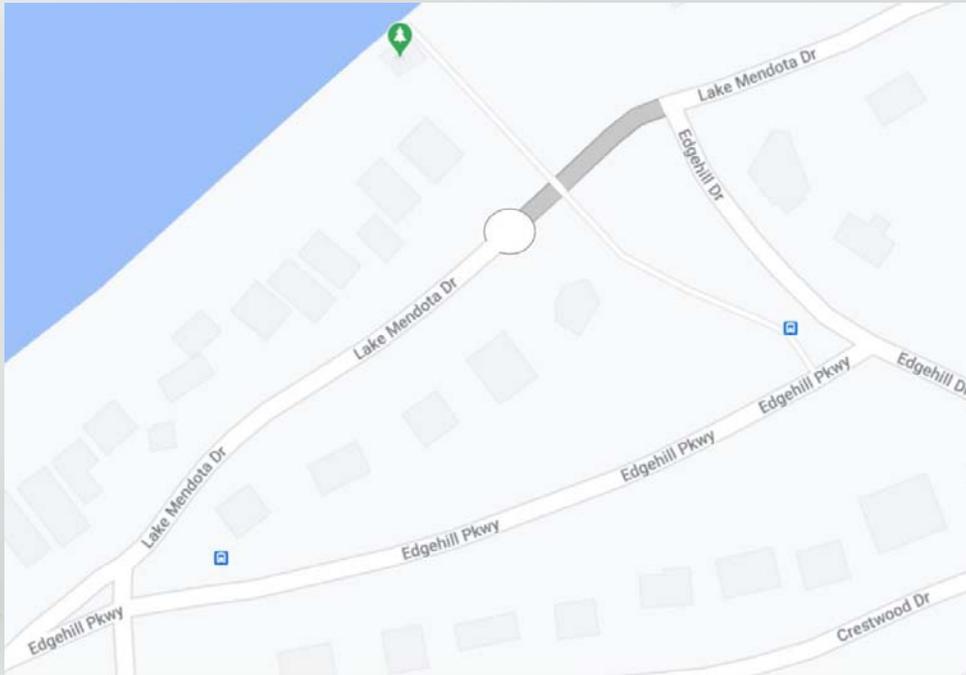


- Key Features

- Narrow width as traffic calming
- Rustic look & feel

- Narrow under clearance
- Sidewalk on one side

Option 1: No bridge



- Key Issues

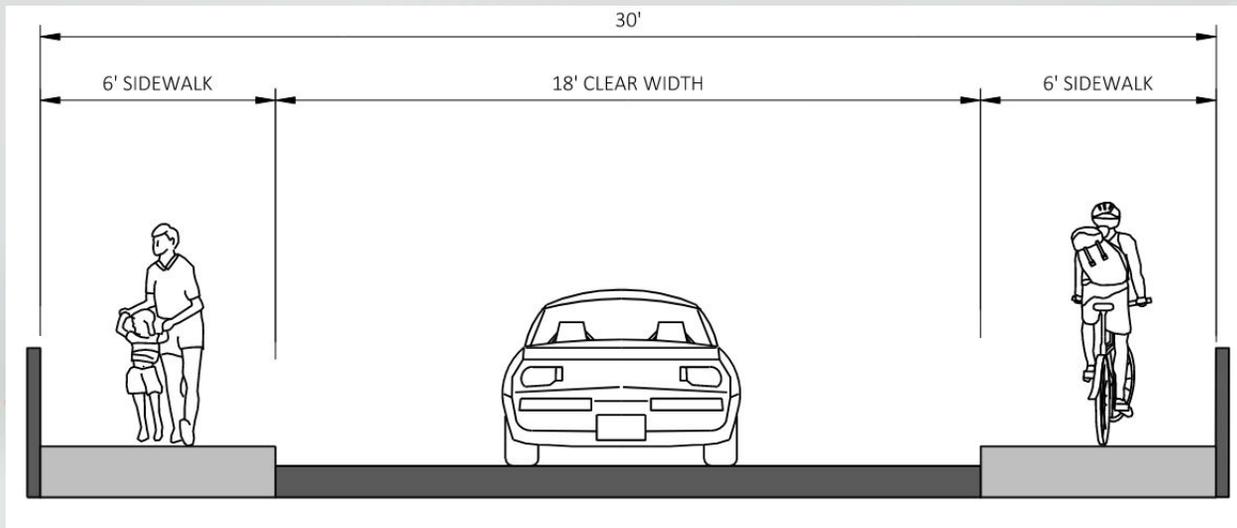
- Lowest cost
- Improved path clearance
- Easy alternate route on Edgehill Pkwy
- Increased traffic on Edgehill Pkwy
- Would need to reapply for funding
- Long dead end
- Sentimental loss

Option 2: Replace bridge

- Bridge width
 - Clear width
 - Number of sidewalks
 - Railings
- Bridge types
 - Prestressed girder, concrete slab, timber
 - Path clearance
- Aesthetic elements to be discussed as part of PIM #2

Bridge Width Alternative

Sidewalk on both sides

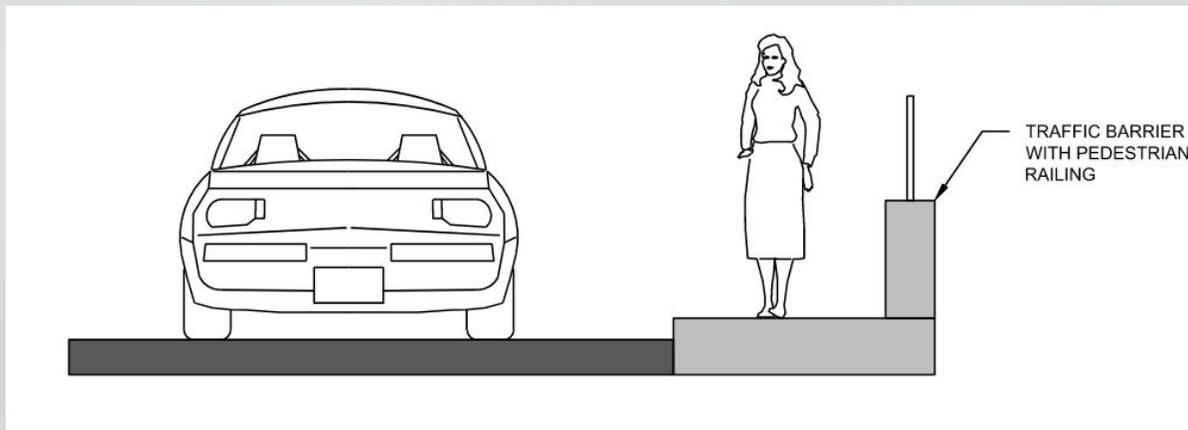


• Key Issues

- Improved pedestrian access
- Increased impacts
- Increased cost
- Public Works Committee preferred alternative

Sidewalk Alternative 1

No barrier between roadway and sidewalk

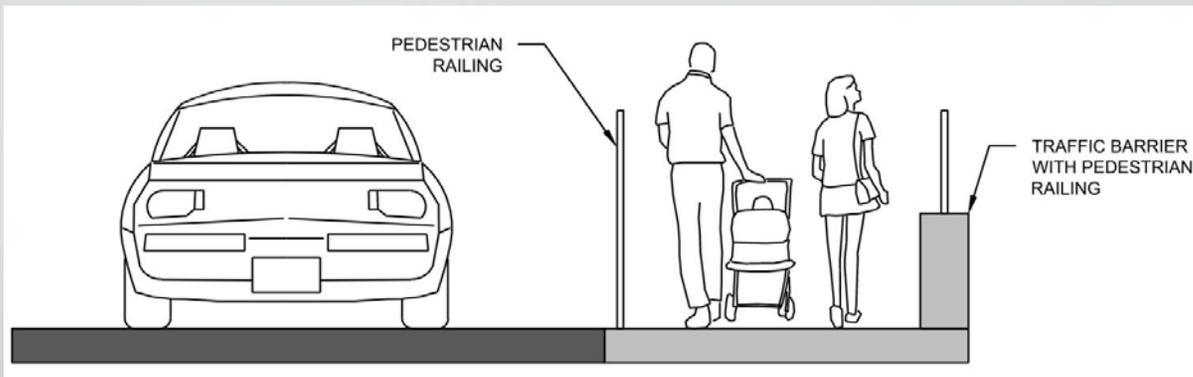


• Key Issues

- Minimum bridge width
- No protective rail between pedestrians and traffic

Sidewalk Alternative 2

Decorative railing between roadway and sidewalk

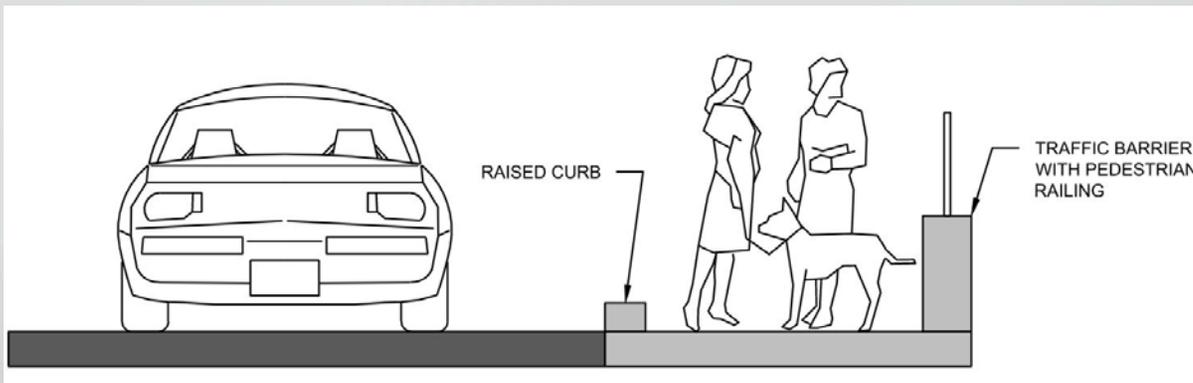


• Key Issues

- Railing between pedestrians and traffic
- Rail could be easily damaged by vehicles or maintenance equipment

Sidewalk Alternative 3

Raised curb between roadway and sidewalk

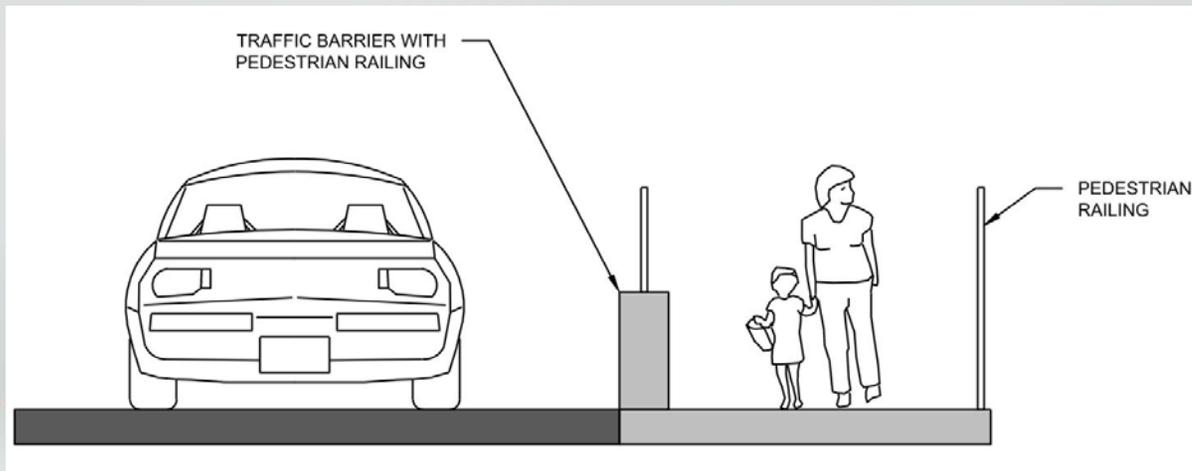


• Key Issues

- Increased separation between pedestrians and traffic
- Increased bridge width
- No rail between pedestrians and traffic

Sidewalk Alternative 4

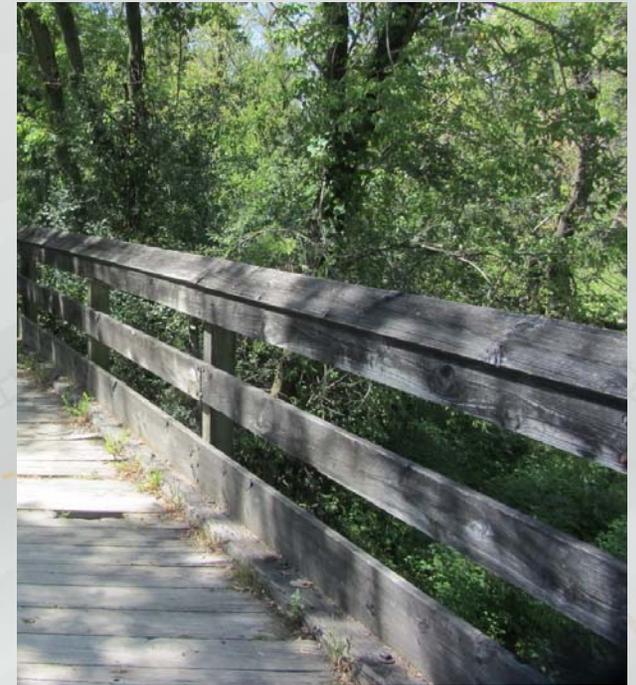
Barrier between roadway and sidewalk



• Key Issues

- Barrier between pedestrians and traffic
- Increased bridge width
- Protection of blunt ends of barrier may be required

Examples of pedestrian railings



Examples of traffic barriers



Bridge Type Alternative 1

Single Span Prestressed Girder Bridge



- Key Issues
 - Widest path clearance
 - Least impacts to utilities
 - Preferred by PW Committee
 - Access route for girders
- Estimated Cost
 - \$450,000 - \$620,000
 - Aesthetic items not included, 100% Village cost

Bridge Type Alternative 2

3-Span Concrete Slab Bridge



- Key Issues
 - Improved path clearance
 - Drainage issues
 - Large area for graffiti
- Estimated Cost
 - \$466,000 - \$660,000
 - Aesthetic items not included, 100% Village cost

Bridge Type Alternative 3

3-Span Timber Bridge



- Key Issues
 - Improved path clearance
 - Rustic structure
 - Increased maintenance costs
 - Potential for increased Village cost sharing
- Estimated Cost
 - \$500,000 to \$680,000

How you can get involved

- Attend Public Involvement Meetings
- Complete Survey
 - <https://forms.gle/ZMXmS7moK64yEoQC7>
- Project Website:
 - <https://www.shorewood-hills.org/bridge>
- Reach out to Design Team or Public Works Committee
- Responses returned by October 29, 2020

Project Contact Information

- Chad Halverson Design Project Manager
 - chalverson@klengineering.com 608-663-1218
 - 5400 King James Way, Suite 200, Madison, WI 53719
- Karl Frantz Village of Shorewood Hills Administrator
 - kfrantz@shorewood-hills.org 608-267-2680
 - 810 Shorewood Blvd, Madison, WI 53719
- Mark Westerveld WisDOT Local Program Manager
 - Mark.Westerveld@dot.wi.gov 608-246-5355
 - 2101 Wright St, Madison, WI 53704

Thank you for your time

If you have any comments, questions, or concerns please send us an email, give us a call, or send us mail.

