



Outdoor Learning is our Point

Joint Campus Area Committee: Informational Presentation February 22, 2024



Lakeshore Nature Preserve Master Plan

Lakeshore Nature Preserve Master Plan

Overview

- *The space: 300 acres, 4 miles of shoreline, 12 miles of trails, 6 fire circles*
- *Annual research permits: 75+ representing 25 departments*
- *Volunteers: 530 - 78% students - 2,424 hours of applied learning*
- *Archeological and Ho-Chunk Burial Sites: 4 mound groups and additional sites*
- *Visitors: 149,000 to the tip of Picnic Point alone*
- *Climate impacts: carbon sequestration, stormwater absorption, heat island reduction*
- *Mental health impacts: well-being, attention restoration, recreation*
- *Years of habitation: 12,000, ancestral homelands of the Ho-Chunk*



Canid Research Photo: Bryn Scriver



Archeology Lab Photo: Mark Kenoyer

Mission: The Lakeshore Nature Preserve shelters natural environments and cultural resources through active learning, research, and outreach in a place of respite and well-being.

Vision: To foster biodiversity on campus and cultivate lifelong environmental engagement.

Lakeshore Nature Preserve Master Plan

Plan Goals

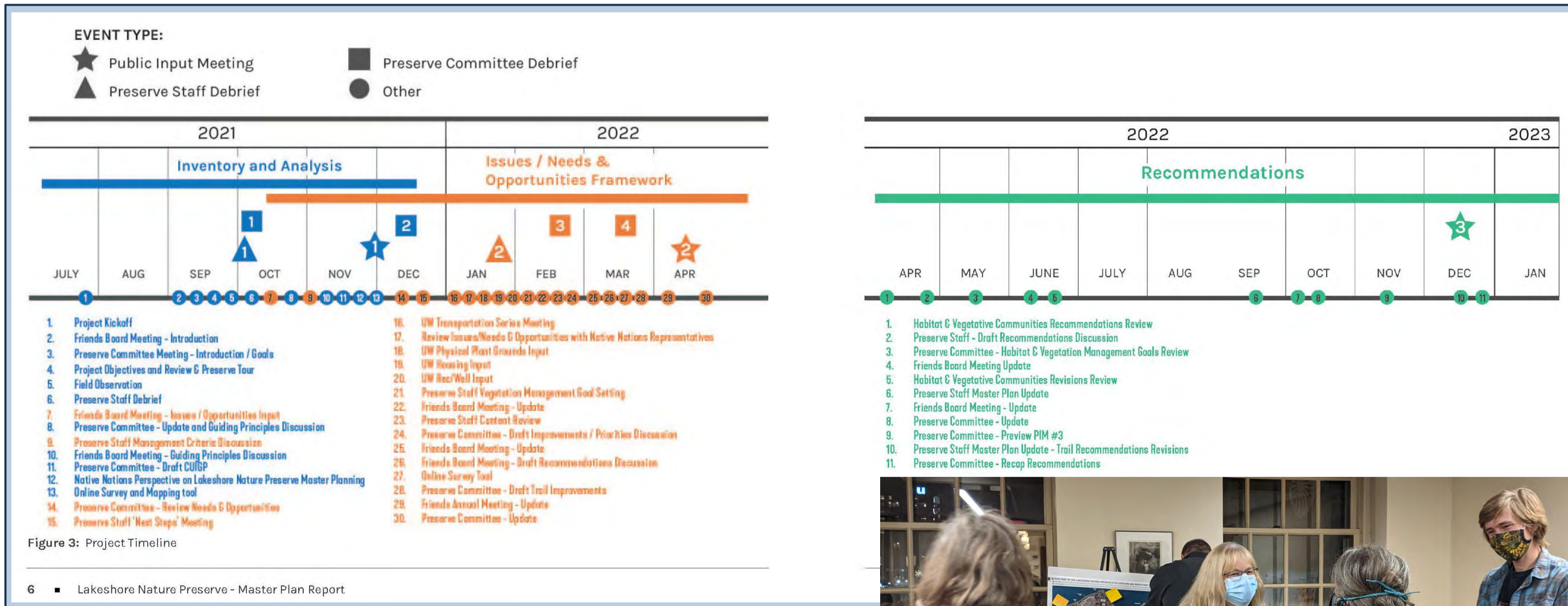
- Document existing conditions of facilities and use with a focus on safety
- Identify clear vegetation community management targets to increase biodiversity
- Recommend site infrastructure and facilities that support teaching, research, and outreach
- Identify additional planning and studies needed



Lakeshore Nature Preserve Master Plan

Planning Process

Planning Process: | Inventory & Analysis | Issues & Opportunities | Recommendations |

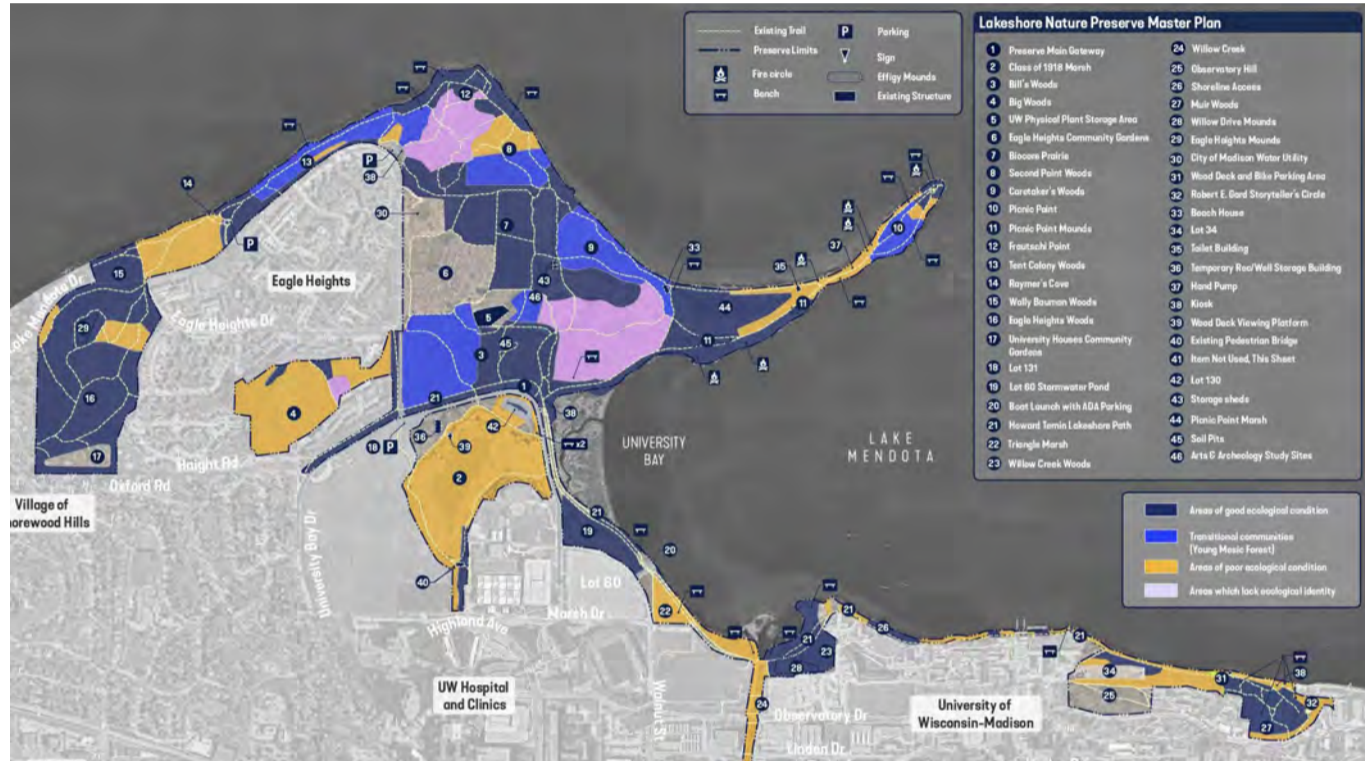


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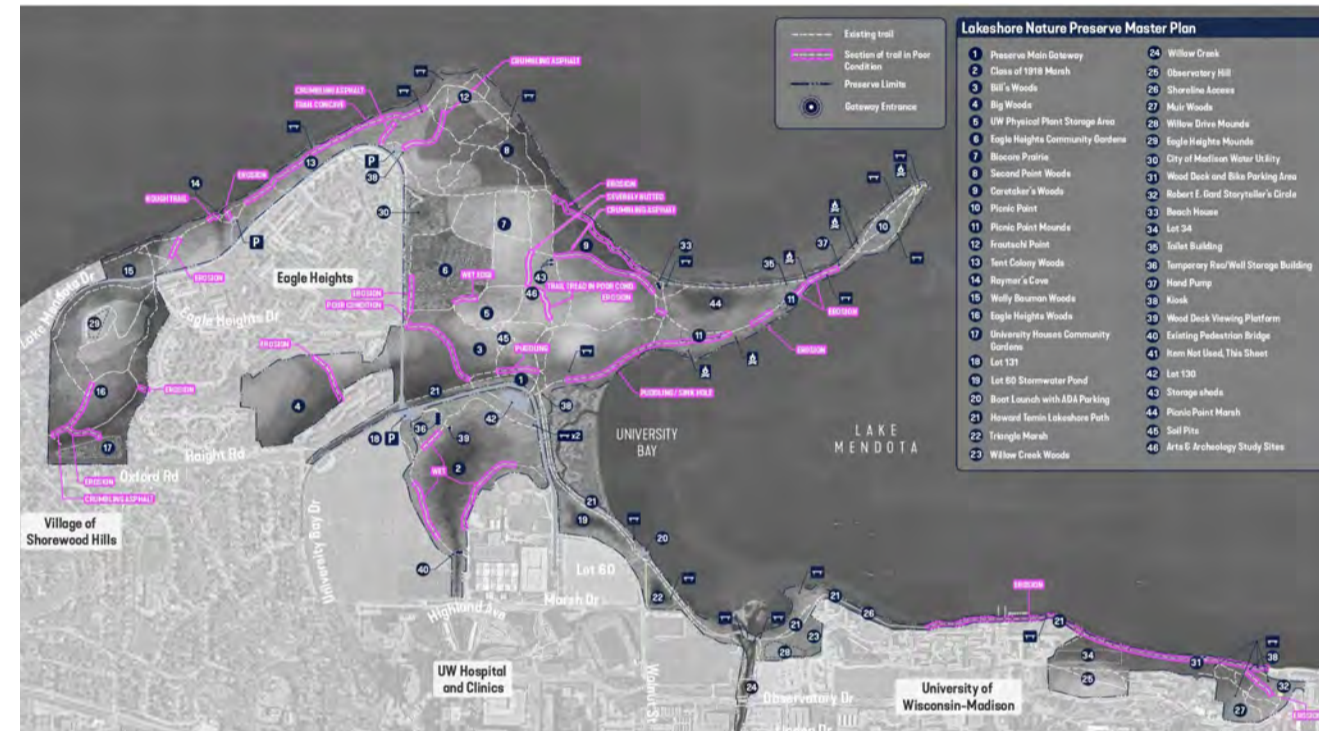
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Planning Process: Inventory & Analysis

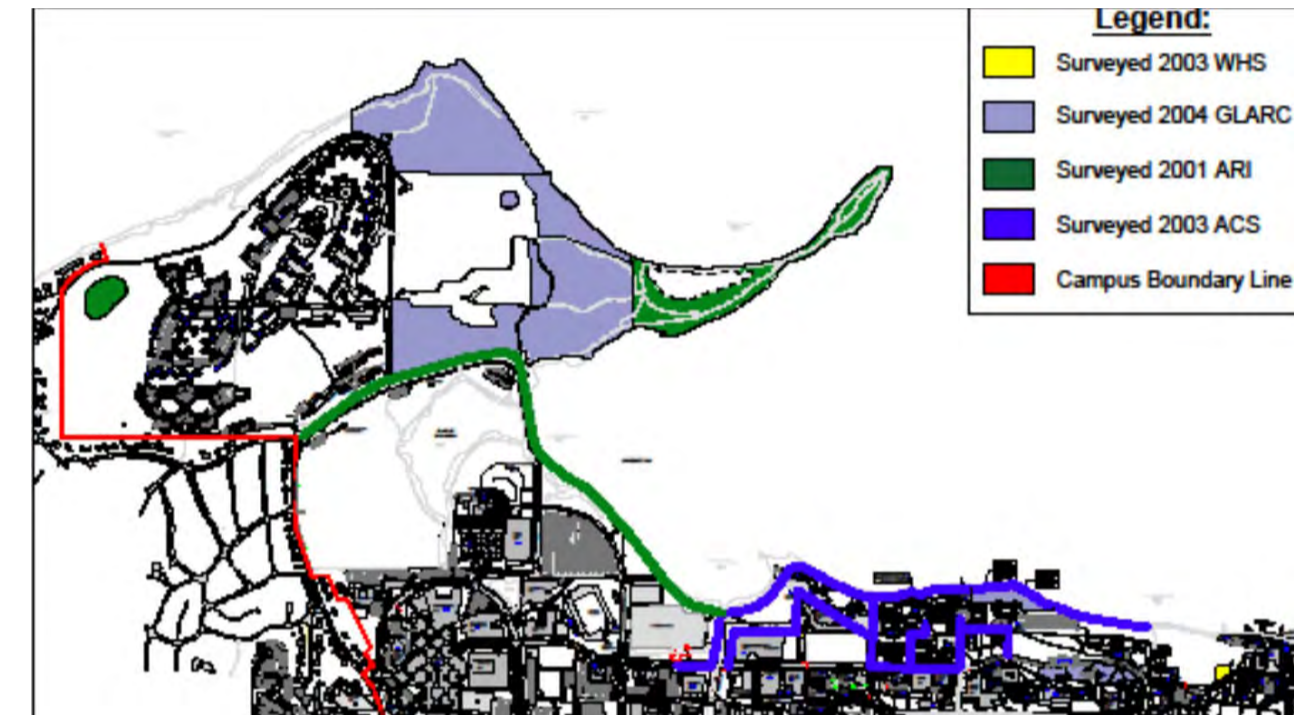
Vegetation types and health



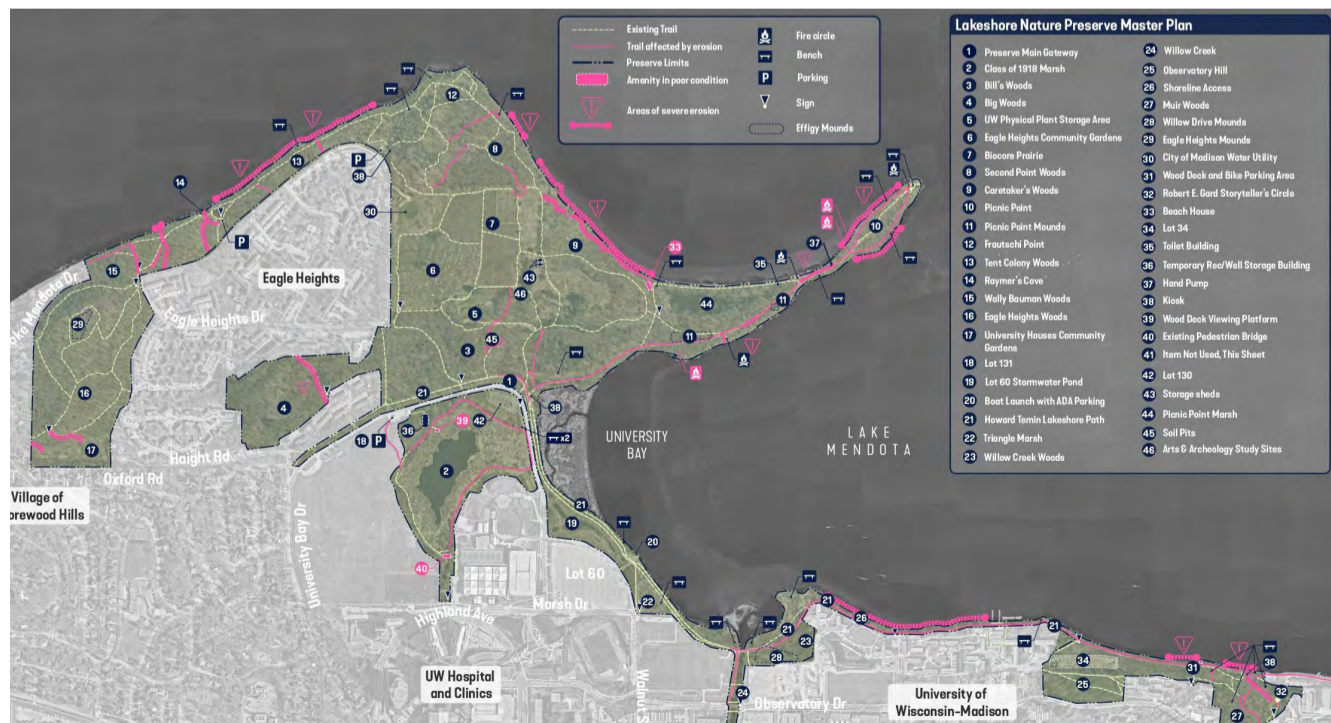
Trails



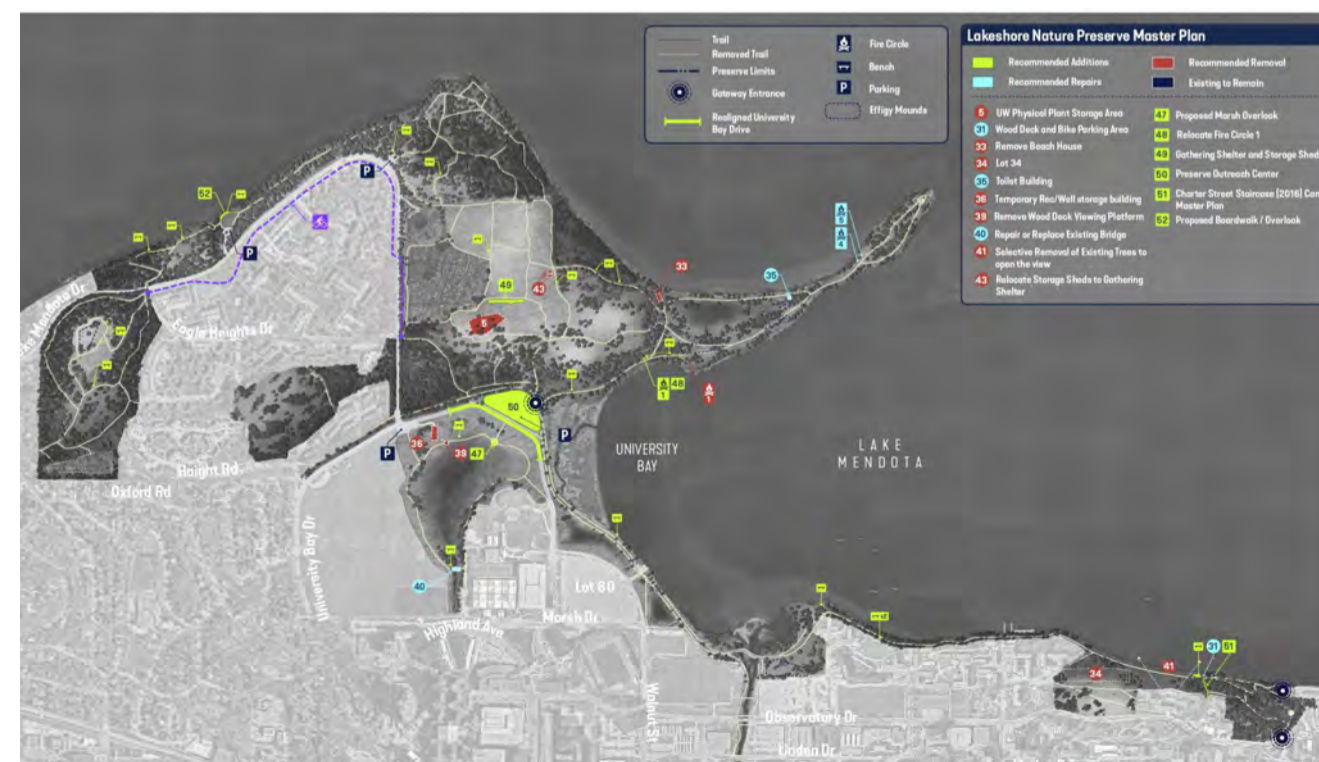
Cultural Resources



Erosion



Facilities



Historic Resources



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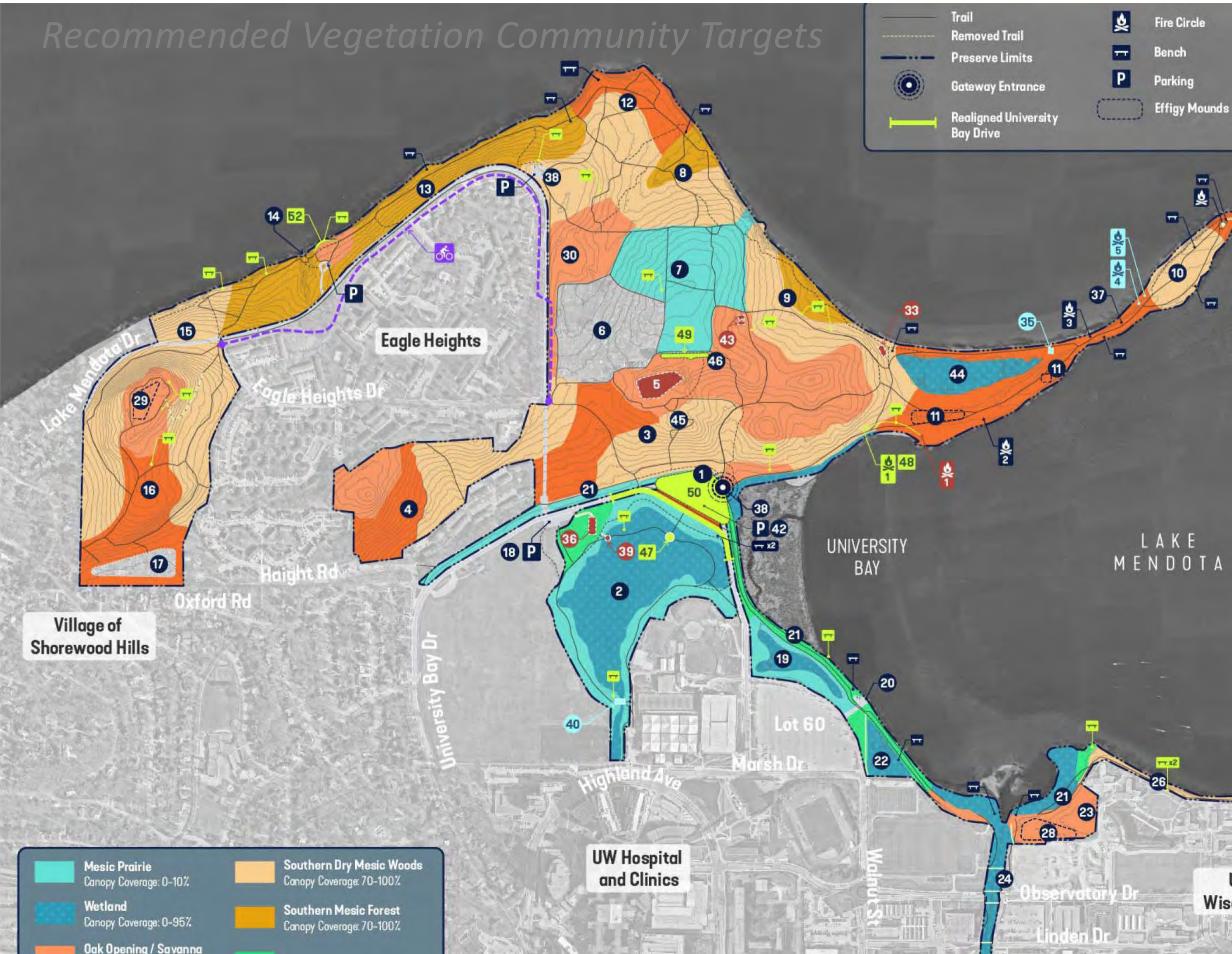
Major Recommendations

- Vegetation Community Types & further study to create Vegetation Management/Restoration Plans
- Preserve Outreach Center
- No longer use wall/gate entrance for Physical Plant storage area & relocation of this facility
- Understand shoreline stability (potential safety issue) – hire for a geo-tech study
- Repair trails and address erosion to ensure greater accessibility
- Provide Interpretation/signage including collaborative Indigenous sharing of language and culture
- Gathering Shelter near Biocore Prairie and Community Gardens

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Major Recommendations - Vegetation Management / Restoration

Recommended Vegetation Community Targets



Identify Vegetation Community Type Targets and create Vegetation Management/Restoration Plans

- Improve native plant bio-diversity
- Help mitigate climate change
- Office of Sustainability Post Doc positions
 - biodiversity
 - carbon sequestration assessment
- Professional plan to follow for efficiency and responsible guardianship of stewardship gift funds
- based on WDNR plant communities
- Intent of adaptability over time considering climate

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Major Recommendations - Vegetation Management / Restoration

Recommended Planning Districts



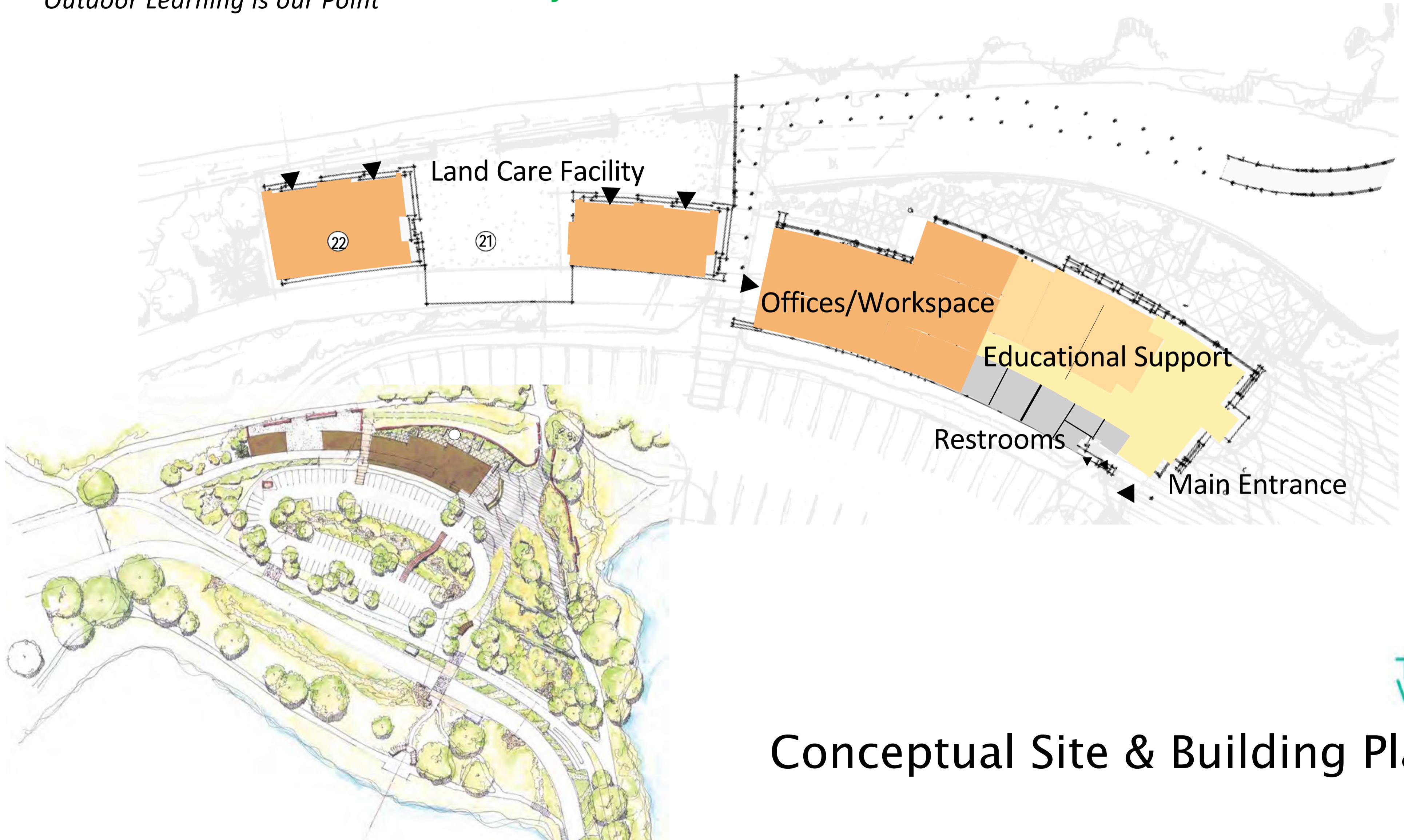
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Major Recommendations - Outreach Center



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Major Recommendations - Outreach Center



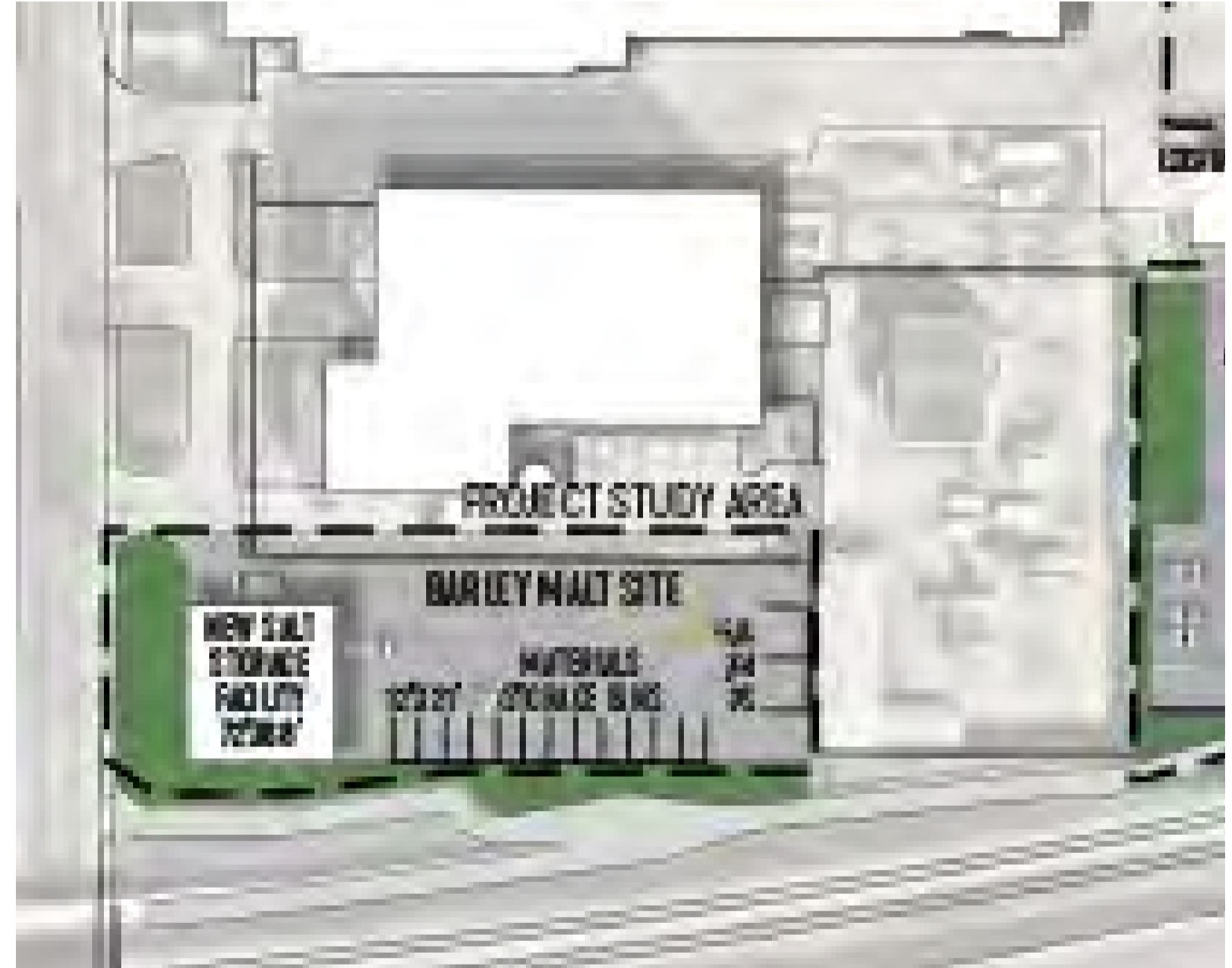
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Major Recommendations – Relocate Physical Plant Storage Area



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Major Recommendations – Relocate Physical Plant Storage Area



Temporarily access Physical Plant storage area from west, until it can be relocated to the Barley & Malt site on Walnut Street as shown in the Willow Creek Master Plan.

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Major Recommendations - Shoreline Stability Study

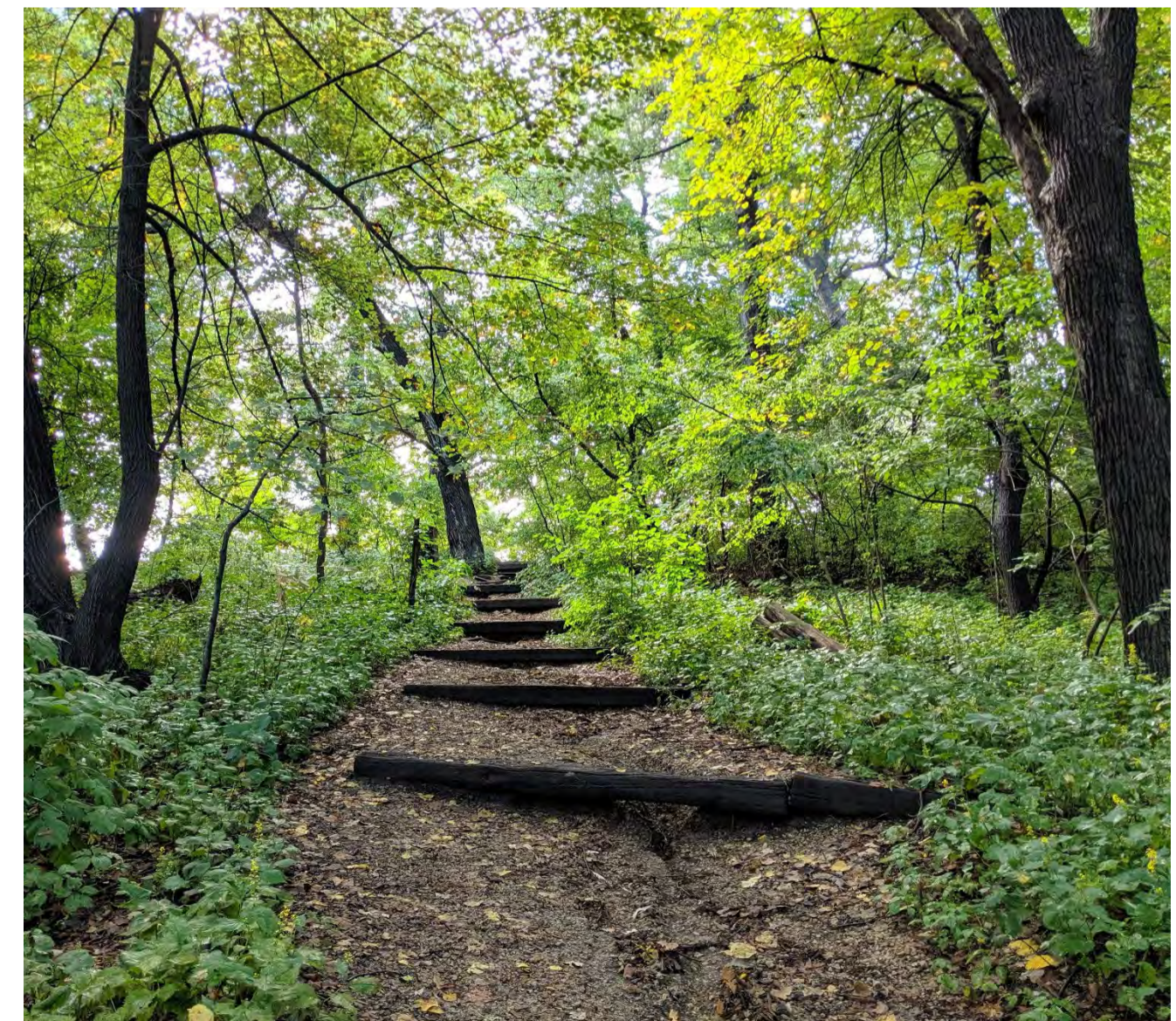


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Major Recommendations - Trail and Erosion Repair Plan

Trail changes to improve safety, environmental impacts, and user experiences

- Provide a variety of trail experiences in the Preserve:
 - Quiet and individual experience – respite surrounded by nature
 - Lesser used trails yet wide enough for specialized accessibility aids and small management vehicles
 - Highly used pedestrian – path to end of Picnic Point
 - Highly used multi-modal – Howard Temin Lakeshore Path
- Current Condition of trails:
 - Surface materials vary - native soil, gravel, paved
 - Erosion is a continual issue in many locations
 - Some need repair, some need realignment, others are redundant and could be removed
- New multi-modal trail is proposed along Lake Mendota Drive
- The Master Plan suggests a deeper study of the trail surfaces, drainage and erosion solutions



Lakeshore Nature Preserve Master Plan

Major Recommendations - Trail and Erosion Repair Plan

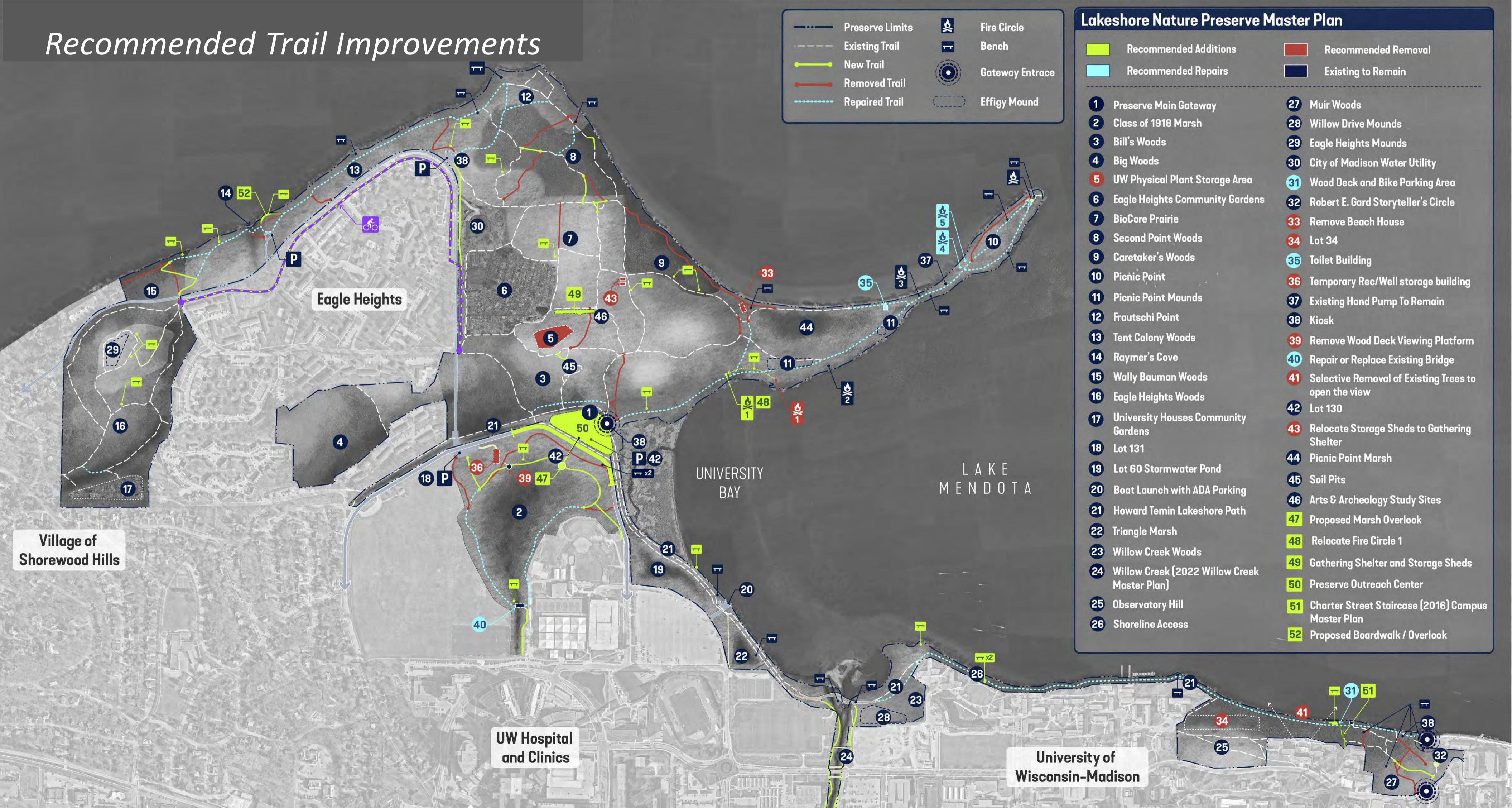
Recommended Trail Improvements

	Preserve Limits		Fire Circle
	Existing Trail		Bench
	New Trail		Gateway Entrance
	Removed Trail		Effigy Mound
	Repaired Trail		

Lakeshore Nature Preserve Master Plan

	Recommended Additions		Recommended Removal
	Recommended Repairs		Existing to Remain

1	Preserve Main Gateway	27	Muir Woods
2	Class of 1918 Marsh	28	Willow Drive Mounds
3	Bill's Woods	29	Eagle Heights Mounds
4	Big Woods	30	City of Madison Water Utility
5	UW Physical Plant Storage Area	31	Wood Deck and Bike Parking Area
6	Eagle Heights Community Gardens	32	Robert E. Gard Storyteller's Circle
7	BioCore Prairie	33	Remove Beach House
8	Second Point Woods	34	Lot 34
9	Caretaker's Woods	35	Toilet Building
10	Picnic Point	36	Temporary Rec/Well storage building
11	Picnic Point Mounds	37	Existing Hand Pump To Remain
12	Frautschi Point	38	Kiosk
13	Tent Colony Woods	39	Remove Wood Deck Viewing Platform
14	Raymer's Cove	40	Repair or Replace Existing Bridge
15	Wally Bauman Woods	41	Selective Removal of Existing Trees to open the view
16	Eagle Heights Woods	42	Lot 130
17	University Houses Community Gardens	43	Relocate Storage Sheds to Gathering Shelter
18	Lot 131	44	Picnic Point Marsh
19	Lot 60 Stormwater Pond	45	Soil Pits
20	Boat Launch with ADA Parking	46	Arts & Archeology Study Sites
21	Howard Temin Lakeshore Path	47	Proposed Marsh Overlook
22	Triangle Marsh	48	Relocate Fire Circle 1
23	Willow Creek Woods	49	Gathering Shelter and Storage Sheds
24	Willow Creek (2022 Willow Creek Master Plan)	50	Preserve Outreach Center
25	Observatory Hill	51	Charter Street Staircase (2016) Campus Master Plan
26	Shoreline Access	52	Proposed Boardwalk / Overlook



Lakeshore Nature Preserve Master Plan

Major Recommendations – Interpretation and Sign Plan



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Major Recommendations – Interpretation and Sign Plan



UW-Madison Archives S10950



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Major Recommendations – Gathering Shelter



Shelter possibilities from Whole Tree



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Recommendations – Additional Improvements

- Repair of existing facilities:
 - Bridge at south end of 1918 Marsh
 - Fire Circles 1 (relocate), 4 & 5 (rebuild)
 - Update pit toilet building
- Removal of existing facilities:
 - Beach House on Picnic Point
 - Rec Well temporary building
- New facilities to service the multitude of visitors:
 - Raymers Cove Overlook & slope protection
 - Class of 1918 Marsh path and overlook
 - Willow Creek bridge, access points and path
 - Improved access at Charter Street
 - Benches throughout the Preserve
- Develop design standards for benches and furnishings



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Recommendations – Different from 2015 Campus Master Plan

- Lot 34 constructed wetland
 - prior burial mounds
 - suggest not building on this site
- Charter Street Stairs
 - study a switchback path and stormwater management as an alternative

Other Studies occurring in the Preserve:

- Howard Temin Lakeshore Path – Surface, light, and stormwater management on areas uphill from path (this should be added to a/the study)



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Recommendations – Facility Improvements

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Recommended Facility Improvements

	Trail		Fire Circle
	Removed Trail		Bench
	Preserve Limits		Parking
	Gateway Entrance		Effigy Mounds
	Realigned University Bay Drive		

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- 6 Eagle Heights Community Gardens
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- 51 Charter Street Staircase (2016) Campus Master Plan
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Next Implementation Steps

- Outreach Center:
 - Secure major donor, fundraising effort for endowment (building & programming)
 - design, construct.
 - Programming/Use discussion
 - Agreement with Friends of Lakeshore Nature Preserve
- Vegetation for Vegetation Management Plans:
 - Baseline inventory Bio-diversity Post-doc position,
 - Prepare to hire consultant for Picnic Point district plan.
- Physical Plant bulk storage area strategy determination.
- Strategy for funding:
 - Shoreline Geo-technology consultant lead study
 - Interpretation/signage planning consultant lead study
 - Long-term Preserve funding
- Evaluate trails, erosion and plan development and for funding the planned repairs.
- Concept plans for all recommendations to fully understand extent of projects.



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Questions? Thank you!



Preserve Website: <https://lakeshorepreserve.wisc.edu/> where you will find a link to the plan document.