

Eagle Heights Woods Management Plan

Friends of the Preserve Presentation

June 3, 2014



Eagle Heights Woods Management Plan

CONTEXT

Part of Lakeshore Nature Preserve

- 28 acres of the 300 acres
- Preserve is 1/3 of UW Madison main campus (933 acres)

Part of a larger canopy cover

- Preserve and Village of Shorewood Hills

Part of the urban fabric of Madison, WI

- Relatively small area when thinking about restoration of native ecosystems
- Adjacent to single and multifamily residential, a road and a community garden
- Recreational use, research use, student learning use, neighborhood park use



Eagle Heights Woods Management Plan

VEGETATION MANAGEMENT APPROACH

Desired community types

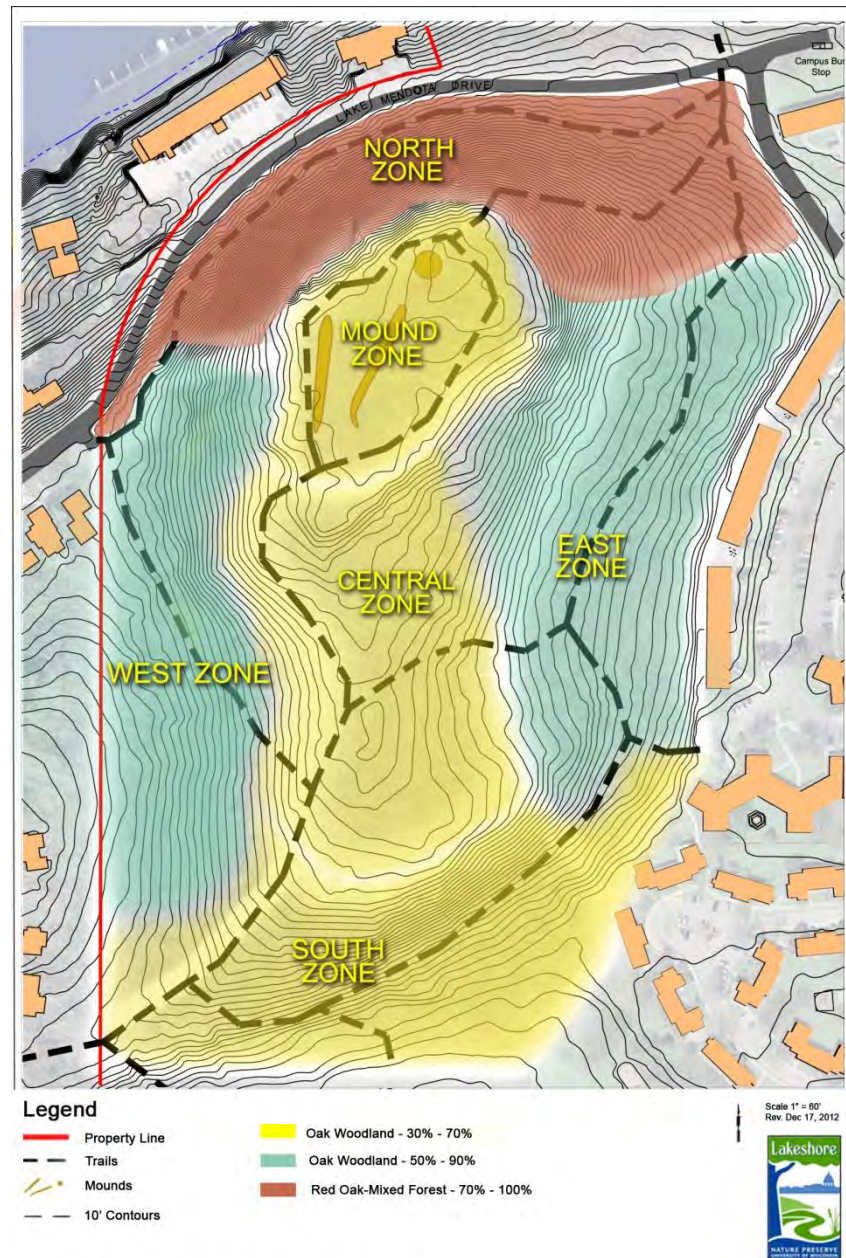
- Oak woodland, 30-70% canopy
- Oak woodland, 50-90% canopy
- Red oak-mixed forest, 70-100%

Focus on one area at a time.

- Continue to provide basic management in other areas.
- Follow up with continued management for the long term.
- Provides the opportunity for adaptive management and to be able to keep up with the needed follow up.

Process

- Structural changes
- Invasive species removal
- Ground layer enhancement
- Oak regeneration encouragement



Eagle Heights Woods-Management Plan

Figure F

Eagle Heights Woods Management Plan

RECOMMENDED PLAN

Goal 1: Protect the Indian burial mounds.

Objective 1.1: Protect the surface of the mounds from erosion, from woody vegetation growth and from disturbance due to tipping of the large existing trees.

Objective 1.2: Protect mounds from pedestrian traffic.

Objective 1.3: Provide the historical landscape context of the mounds.

Objective 1.4: Provide education/interpretation/outreach about the mounds.



Eagle Heights Woods Management Plan

RECOMMENDED PLAN

Goal 2: Protect the physical and biological resources.

Objective 2.1: Protect soil and steep slopes from erosion.

Objective 2.2: Protect the native plant species.

Objective 2.3: Preserve and enhance existing wildlife habitat.

Objective 2.4: Deter invasive species from entering the woods.



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RECOMMENDED PLAN

Goal 3: Restore the oak woodland at Eagle Heights.

Objective 3.1: Manage the central core as an oak woodland with 30% - 70% canopy cover.

(mound, central and south zones)

Objective 3.2: Manage the east and west edges as an oak woodland with 50% - 90% canopy cover.

(east and west zones)

Objective 3.3: Manage the north slope as a red oak-mixed forest with 70% to 100% canopy cover.

(north zone)



Oak Woodland in Monroe County
By Christina Isenring



Oak Woodland at Gov. Nelson
State Park
By Eric Epstein

Eagle Heights Woods Management Plan

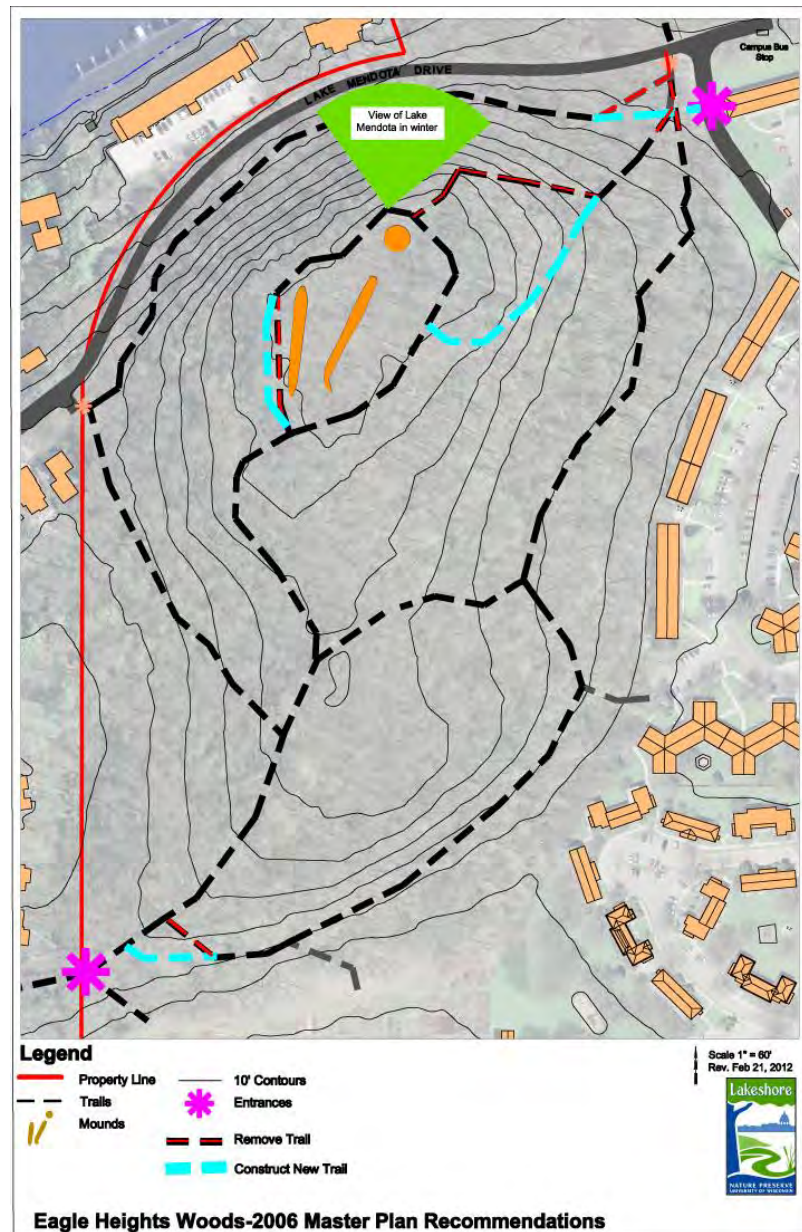
RECOMMENDED PLAN

Goal 4: Support environmentally sensitive uses.

Objective 4.1: Assure trails are safe for use.

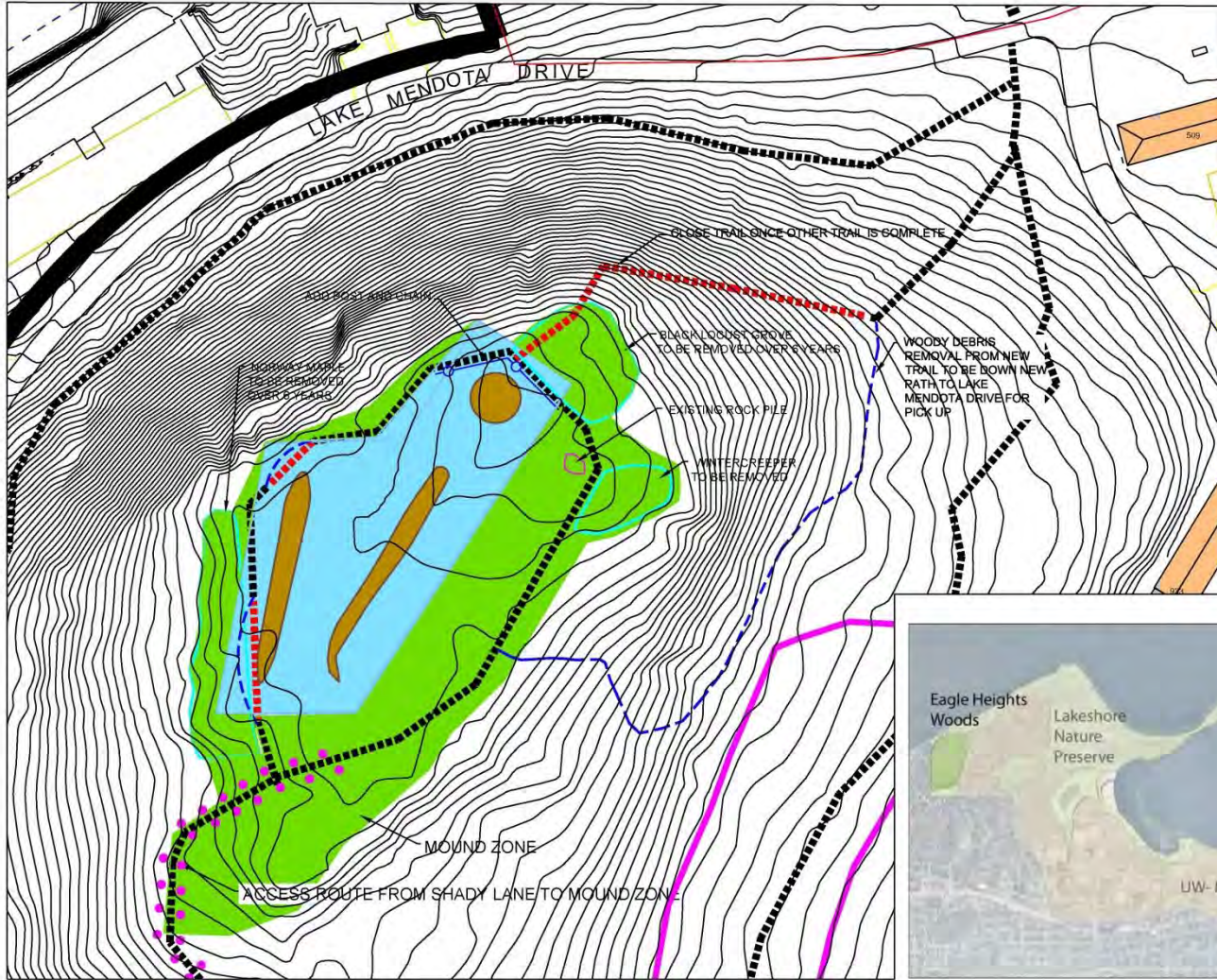
Objective 4.2: Manage area as called for in the Master Plan: Natural Area Management Zone.

Objective 4.3: Carry out management in a sustainable way.



Eagle Heights Woods Management Plan

Zone Plans – Mound Zone




- LEGEND**
- INVASIVE SPECIES REMOVAL BY PRESERVE STAFF ONLY
 - INVASIVE SPECIES REMOVAL BY PRESERVE STAFF AND VOLUNTEERS
 - CONCENTRATED INVASIVE SPECIES
 - EXISTING TRAIL
 - TRAIL TO REMOVE
 - NEW TRAIL
 - BURIAL MOUNDS

FOR TIMING OF MANAGEMENT ACTIVITIES SEE YEARLY PLAN FOR MOUND ZONE

LOCATION MAP






WISCONSIN
UNIVERSITY OF WISCONSIN-MADISON

FACILITIES PLANNING AND MANAGEMENT
Campus Planning & Landscape Architecture

Suite 930 WARF
610 Walnut Street
Madison, Wisconsin 53726

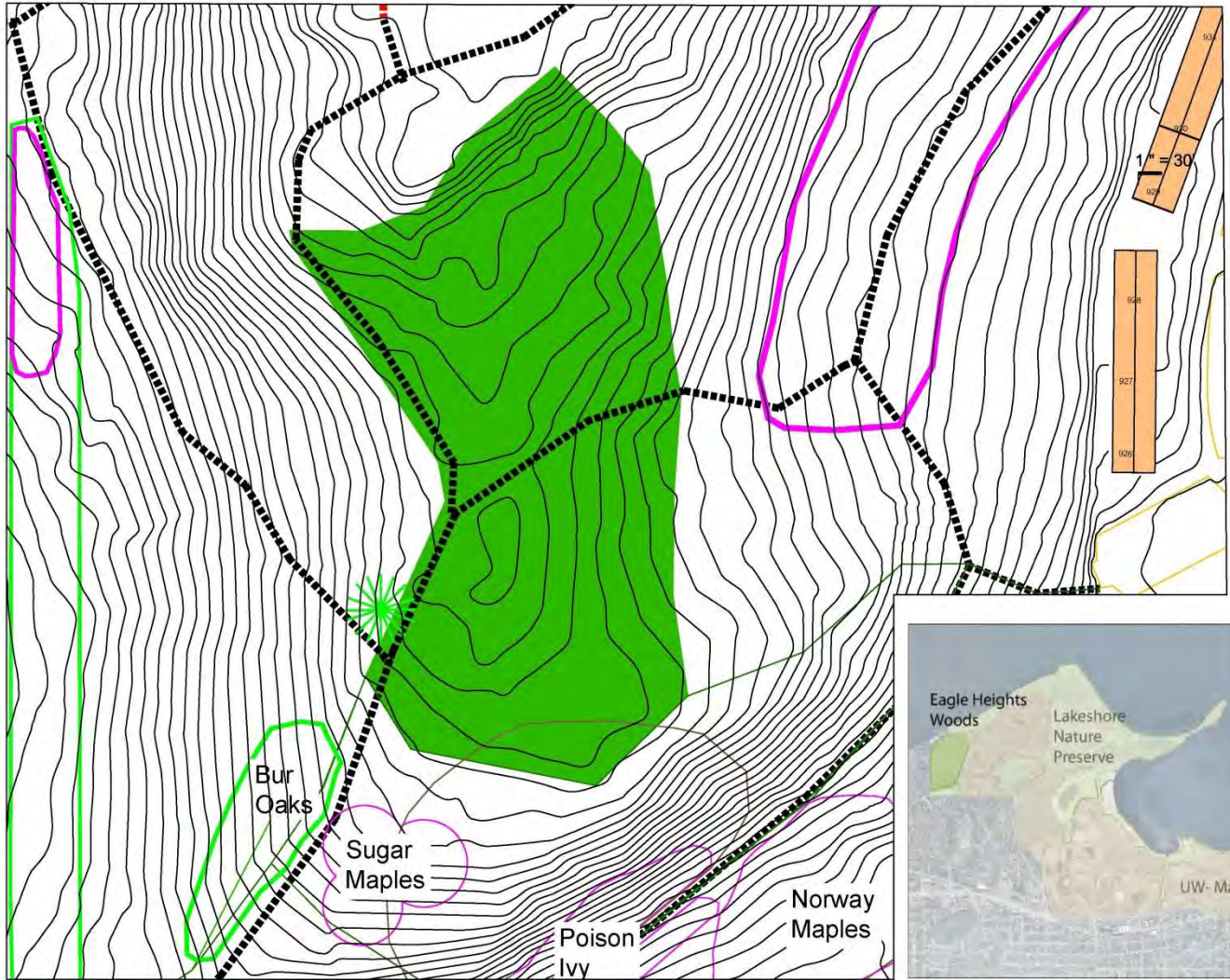
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| Drawing No: | SITE PLAN |
| Date: | 11-5-2013 |
| Prepared By: | RHU |
| Checked By: | RHU |
| Scale: | 1" = 30' |
| Sheet No.: | L-1 |



North

Eagle Heights Woods Management Plan

Zone Plans – Central Zone



LEGEND

- INVASIVE SPECIES REMOVAL BY PRESERVE STAFF ONLY
- INVASIVE SPECIES REMOVAL BY PRESERVE STAFF AND VOLUNTEERS
- CONCENTRATED INVASIVE SPECIES
- EXISTING TRAIL
- TRAIL TO REMOVE
- NEW TRAIL
- BURIAL MOUNDS

FOR TIMING OF MANAGEMENT ACTIVITIES SEE YEARLY PLAN FOR MOUND ZONE

LOCATION MAP





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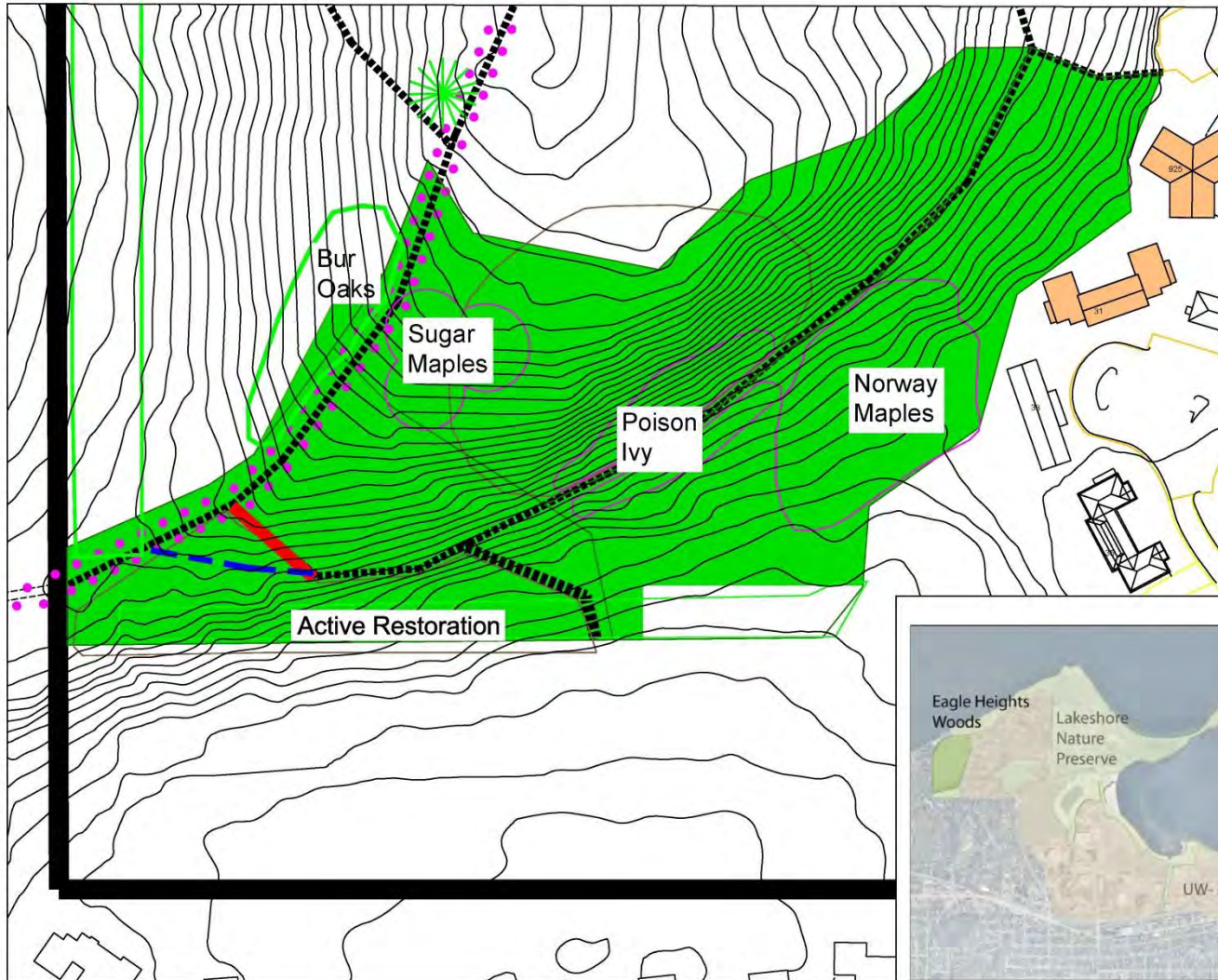
Suite 930 WARF
610 Walnut Street
Madison, Wisconsin 53726

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| Project: EAGLE HEIGHTS WOODS MOUND ZONE SITE PLAN | Client: PRESERVE |
| Drawing title: SITE PLAN | Drawn by: RBU |
| Checked by: | Scale: |
| Approved by: | Date: |
| Scale: 1" = 30' | Sheet: L-1 |
| Scale: 1" = 30' | Sheet: L-1 |

North L-1

Eagle Heights Woods Management Plan

Zone Plans – South Zone



- LEGEND**
- INVASIVE SPECIES REMOVAL BY PRESERVE STAFF ONLY
 - INVASIVE SPECIES REMOVAL BY PRESERVE STAFF AND VOLUNTEERS
 - CONCENTRATED INVASIVE SPECIES
 - EXISTING TRAIL
 - TRAIL TO REMOVE
 - NEW TRAIL
 - BURIAL MOUNDS
- FOR TIMING OF MANAGEMENT ACTIVITIES SEE YEARLY PLAN FOR MOUND ZONE



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UNIVERSITY OF MADISON

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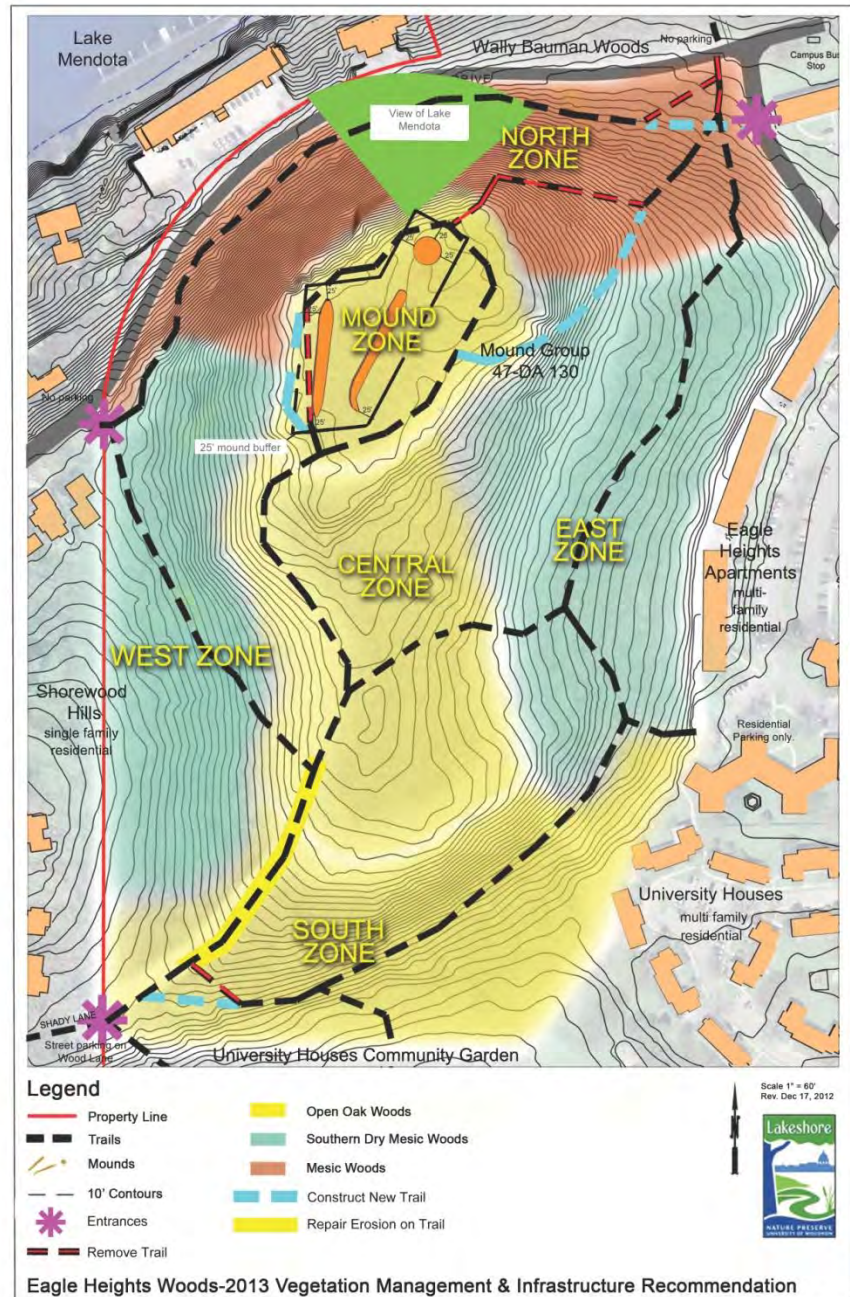
State 930 WARF
University of Wisconsin
Madison, Wisconsin 53726

| | |
|---|--------------|
| EAGLE HEIGHTS WOODS MOUND ZONE SITE PLAN | |
| Project Tracing file | Drawing file |
| 11-5-2013 | PRESERVE |
| RHJ | RHJ |
| # | # |
| C.C.W. No. | Date |
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| Scale: 1" = 30' CI = 2' | |
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Eagle Heights Woods Management Plan

Zone Plans

- Mound Zone – Adam will show what has been there to date.
(main project start 2013)
- Central Zone – Approach in two phases
(main project start 2015)
- South Zone - Approach in three phases
(main project start 2018)
- Why all the phases?
 - To be able to properly follow up each year following the main invasive removal
 - Lots of other areas in our 300 acres to attend to at the same time.



Brush Removal January-April 2014

143 staff hours

125 volunteer hours

Contractor chipping



Preserve Staff





Volunteers

Hauled brush

Spread wood chips on trail

Vegetation monitoring







Contractors

Brush chipping

Hazard tree removal
(previous years)





Challenges

Relative inaccessibility

- Coordinating volunteer work days.
- Parking
- Equipment access.

Indian Burial Mounds Policy &
Archaeological Land Mgmt Guidelines.



Project Relevance

Master Plan:

“The plan seeks to maintain and improve the biotic health of Preserve lands and ecosystems while enhancing the Preserve's educational and recreational benefits for all who visit it. The plan analyzes the biological and cultural resources of the Preserve to propose site-specific designs and strategies for meeting these twin goals of protecting the resources of the Preserve while enhancing the many benefits visitors derive from them.”



Reconnecting Culture

May 7, 2013



April 21, 2014



April 21, 2014



May 7, 2013

Rock outcrops



Eagle Heights Woods Management Plan

Where are we at in the
process?

Ahead of schedule and under the
estimated budget!

CAUTION

This is where we get too far ahead of
ourselves and create more opportunity
for invasive species than we can follow
up with.



Eagle Heights Woods Management Plan

Next Steps:

Next Steps:

- Trail realignment on the east slope.
- Follow-up for the mound zone.

Future Steps:

- Continue southward to the central then south zones.
- Each would be split into two and three years for the initial cutting of invasive species.
- Keep in mind each year needs to include time for follow up to all the work in previous years.

