

ENVISIONING A NEW PARK FOR LAKE ARBOR Site Analysis + Preliminary Concepts

MAHAN RYKIEL LANDSCAPE ARCHITECTURE URBAN DESIGN & PLANNING



live more, play more pgparks.com



Reminder: Take the Survey!

https://forms.gle/tskjbiXXvuTgVF7J6

Please Complete by Monday, June 17th!



The New Park at Lake Arbor

the new park at Lake Arbor.

behronister354@gmail.com Switch account Not shared * Indicates required question

How are you currently using the Lake Arbor Park Property? *

Walking / Running on the paved paths

Biking on the paved paths

Dog / Pet walking

Fishing in the ponds

Hitting golf balls

Relaxing in the open grassy areas

Recreating in the open grassy areas

Other:

What activities / amenities do you and your family enjoy when you visit other

Please take 5-10 minutes to answer the following questions regarding anticipated uses for





B

Agenda

- Purpose of the Master Plan & Preliminary Planning Tasks
- Process Timeline Overview
- Meeting 1 Recap (03/21)
- What We heard
- Site Analysis
- Overall Habitat Restoration Concepts
- Active Use/Recreation Concepts
- Open Discussion





Purpose of the Master Plan

To provide a vision and accompanying strategic approach for the future utilization of and stewardship for the new park at Lake Arbor that will:

- Guide short- and long-term improvements
- Protect and enhance the parks natural resources
- Develop new recreational amenities
- Provide for sustainable management practices





Preliminary Planning Objectives

- Engage the community and create education opportunities
- Assess existing infrastructure (sinkholes) and potential remedies and costs
- Investigate possibilities for the two existing ponds in consult with the County (DPIE)
- Evaluate recreational amenities and associated considerations (parking, staffing, long-term maintenance, etc.)
- Maximize tree planting and habitat creation to minimize mowing maintenance burden, and engage the community as tree ambassadors and caretakers

The major park emphasis will involve tree planting, meadow creation, and limited appropriate recreational development focused on trails and compatible recreational amenities in a safe and well-maintained environment.

Balancing Stewardship and Recreation





Master Planning Process Timeline







Meeting #1 Recap

- Site Overview/Context
- Current Site Issues
- Purpose of Master Plan
- Preliminary Planning Objectives
- Process Overview
- Preliminary Program Elements
- Engagement Exercise & Open Discussion





What We Heard



live more, play more

What We Heard



live more, play more





What We Heard Wetlands Paths + Trails Meadows/Lawns (Re)Forested Areas cultivated open & flexible open pathway sporadic trees ANEA IN ROGALISS . . naturalistic lush forest natural rustic trail







What We Heard

1) PRIORITIES - PROPER MAINTENANCE + U PKEEP - DELINEATION OF WILD PRNATE SAFETU (PUBLIC) - SAFETY - REVENUE STREAMS -CARBON CREDITS - BATHROOMS + RELIEF STATIONS - SAFETY + PROTECTION NEAR LOTTSFORD RD - VEHICULAR ACCESS SINKHOLE REPAIR + SAFETY - PARK SAFETY + PARK POLICE PRESENCE - PLAYGROUNDS + PLAY AREAS - NOISE CONTROL - COMPLIMENTARY TO LAF AMENITIES - FAMILY- ORIENTED FACILITIES - MULTI- GENERATIONAL - NO LIGHTS/EVENING ACTIVITES - BENCHES - EXERCISE STATION

2) DISCUSSION - NEED TO ENSURE FINANCIAL STABILITY - PUBLIC/PRIVATE PARTNERSHIPS / FUNDING - NO BASTETBALL OR AMENITIES IN CONFLICT W/ EXISTING LAF FACILITIES - DRIVING RANGE - LIGHTING FOR SAFETY - FUTURE REASSESSMENT/INPUT ??? CONTINUED RELATIONSHIP - NO EYESORES -MAINTENANCE OF EX. VACANT LOTS - BRIDGE REPAIR / REMOVAL

- COST ANALYSIS OF PROPOSED OPTIONS - CONSIDERATIONS FOR ADJ. PROPERTY DWAERS MAHAN





What We Heard

Similar to allen Pond Park Anph: the dr & live programmes mole recylepins of trashcans to Keep dean Amphiltheatre Amphiltheatre X S IM itan To allere Pand Parts trails) Amphiltheatre X S IM itan To allere Pand Parts trails Ample recyle pins + trashcans to Keep chan Simian by After Pondleit miniture golf Security *Drivincz Angeloolb) () Amphitheater (smartly located)







Preliminary Program

• Trails

- Fitness Stations
- Nature Play / Playgrounds
- Pond Access / Fishing
- Community Gardens
- Dog Park
- Amphitheater / Performance Space
- Disc Golf
- Restroom
- Seating Areas
- Pavilions





SITE ANALYSIS









SITE ANALYSIS | HYDROLOGY

SITE ANALYSIS | VIEWSHED ANALYSIS



ire, play more





Existing Infrastructure Repairs and Deferred Maintenance













HABITAT RESTORATION CONCEPTS





HABITAT RESTORATION | CONCEPT 1 (HABITAT HEAVY)







FLOODPLAIN REFORESTATION

Forested floodplains provide a multitude of benefits to the landscape, including reduced erosion, resiliency against flooding, and improved water quality. Forested floodplains result in healthier streams.

EXAMPLE PLANTINGS

American sycamore <i>Platanus occidentalis</i>	Large shade tree, often chosen in urban areas for its eye- catching bark and air-purifying abilities.
Pin oak Quercus palustris	Large, fast-growing trees whose acorns provide food for a variety of bird species.
Red Maple Acer rubrum	Hardy tree that is resistant to deer-browsing. Provides nesting habitat for a number of bird species and sports bright red foliage in the fall.
River birch Betula nigra	Fast-growing shade tree, helps lend color to winter landscapes with its unique and attractive bark.
Sweetbay magnolia Magnolia virginiana	Small, evergreen trees that provide food and nesting material for songbirds. Grows fragrant, white flowers that bloom throughout the summer.
Winterberry holly <i>Ilex verticillata</i>	Small tree or shrub with brightly colored berries that last through the winter. Provides food for birds.
Spicebush Lindera benzoin	Medium sized shrub that blooms yellow flowers and red berries. Acts as an early source of nectar for butterflies and hosts the Spicebush Swallowtail butterfly.
Little bluestem Schizachyrium scoparium	Ornamental native grass with blue-green leaf color. Host to several butterfly species.
Broom sedge Andropogon virginicus	Native grass that helps prevent erosion.



















HABITAT RESTORATION NARRATIVE I FLOODPLAIN REFORESTATION LAKE ARBOR GOLF COURSE REUSE PLAN 2024.05.31













UPLAND REFORESTATION

Forests provide many benefits to the communities around them. They clean the air, provide shade, reduce the spread of invasive species, and have been demonstrated to improve physical and mental well-being.

EXAMPLE PLANTINGS

Red oak Quercus rubra	Large, fast-growing trees that stabilize the landscape and provide canopy cover. Hardy against drought conditions.
Tulip poplar Liriodendron tulipifera	Large, fast-growing trees that thrive in bright sunlight and provide cover for understory trees. Blooms bright yellow flowers in the spring and hosts the Tiger Swallowtail butterfly.
American beech Fagus grandifolia	Large understory trees with attractive light bark. Shades and cools the air below with it's dense foliage.
Pignut hickory Carya glabra	Medium sized tree that provides shade and food for birds and squirrels.
Flowering dogwood Cornus florida	Small understory tree with bright red berries in the late summer and early fall and attractive flowers that bloom in the spring.
Arrowwood viburnum Viburnum dentatum	Attractive shrub with white flowers, blue berries, and dense foliage. Commonly chosen for landscaping.
Mountain laurel Kalmia latifolia	Evergreen shrub with crooked, architectural stems. Blooms white or pink flowers in the spring.
Lowbush blueberry Vaccinium angustifolium	Low-growing shrub with attractive growing patten and edible berries.
Witch-hazel Hamamelis virginiana	Large shrub or tree with unique, bright yellow flowers that bloom in the autumn.











Flowering dogwood





Hamamelis virginiana

bloom in the autumn.





HABITAT RESTORATION NARRATIVE I UPLAND REFORESTATION LAKE ARBOR GOLF COURSE REUSE PLAN 2024.05.31













UPLAND AND LOWLAND MEADOW

Native meadows provide an array of benefits to the local ecosystem, including supporting local songbird populations and hosting many species of butterfly. Meadows also have a robust root system, which improves groundwater filtration and improves soil quality. While meadows are dominated by grasses, they also include wildflowers that improve the aesthetic of the landscape while reducing maintenance costs.

EXAMPLE PLANTINGS

Blackeyed susan Rudbeckia hirta	Official state flower of Maryland. Long-lasting blooms that provide color during late summer.
Cardinal flower Lobelia cardinalis	Bright red blossoms that are visually striking. Provide late summer bloom and height to borders. Attracts hummingbirds and butterflies.
Big bluestem Andropogon gerardii	Tall prairie grass that displays several color shades throughout the season. Provides erosion control and is deer resistant.
Switchgrass Panicum virgatum	Prairie grass that has small, teardrop-shaped flower seeds that appear in summer with purplish-reddish tips. Resistant to disease and ideal for areas prone to erosion.
Prairie dropseed Sporobolus heterolepis	Prairie grass that provides food for butterflies. Drought tolerant and has decorative seed heads in the fall and winter.
Joe-Pye weed Eutrochium fistulosum	Large perennial with strong root system that stabilizes the soil. Provides food for an array of butterflies.
Butterfly milkweed Asclepias tuberosa	Perennial with attractive orange blooms. Provides food for hummingbirds and butterflies, including the Monarch butterfly.
Wrinkleleaf goldenrod Solidago rugosa	Large perennial with bright yellow flowering stems.
Indian grass Sorghastrum nutans	Native, drought-tolerant grass often used in landscaping.















Sorghastrum nutans







HABITAT RESTORATION NARRATIVE I UPLAND AND LOWLAND MEADOW LAKE ARBOR GOLF COURSE REUSE PLAN 2024.05.31















STREAM RESTORATION AND DAYLIGHTING





EXISTING SITE CONDITIONS

Currently, streams at Lake Arbor Golf Course are incised or buried, which increases the risk of:

- **Erosion**, resulting from poor bank stability
- Sinkholes, occurring when underground stream pipes corrode and leak
- Flooding, as piped or incised streams can't accommodate storm events





WHY RESTORE STREAMS?

Restored streams not only improve the aesthetic of a landscape, they also reduce the risk of flooding. Restored streams can handle influxes of water from storm events because they are designed to slow the flow of water and accommodate large volumes of water. They also don't pose the same risks as incised or buried streams, such as sinkholes and erosion.

WHAT ARE BURIED STREAMS?

Buried streams are streams that have been redirected to flow through pipes underground. They are no longer visible from the surface and are restricted to the confines of the pipe channel.

WHAT IS STREAM 'DAYLIGHTING'?

'Daylighting' a stream is the process of bringing a buried stream back to the surface and restoring it to natural conditions.









HABITAT RESTORATION NARRATIVE I STREAM RESTORATION



PROJECT GOALS Project goals include:

- Stream widening
- Stream restoration
- Floodplain connection

Buried streams will be daylighted and incised streams will be restored. Restoring original flow patterns will reduce erosion and flooding and can reduce sinkholes.

WETLAND CREATION

Wetlands are highly productive ecosystems, which means they provide a host of benefits to the surrounding community:

- **Reduced risk of flooding** Wetlands naturally collect floodwater and slowly release it, which helps prevent flooding in upland areas.
- **Improved water quality** Surface water runoff is filtered through wetlands, which uptake pollutants, sediment, and other contaminants. This leads to cleaner groundwater and surface water.
- Erosion control Wetlands mitigate flash flooding and stabilize the soil with healthy root systems. Vegetation cover prevents soil from being washed away.
- Aesthetics Wetlands provide habitat for a variety of unique plant species, many of which bloom throughout the spring and summer.



EXAMPLE PLANTINGS

Soft rush Juncus effusus	Small, clumping rush with deep root system that stabilizes the soil and purifies water.
Northern blue flag Iris versicolor	Native iris with showy purple flowers that bloom throughout the summer.
Swamp azalea Rhododendron viscosum	Popular landscaping shrub that tolerates wet conditions. Blooms white flowers throughout the summer.
Sweet pepperbush <i>Clethra alnifolia</i>	Flowering shrub that provides nectar to hummingbirds and butterflies.
Silky dogwood Cornus amomum	Large shrub with white flowers and blue berries that hosts the azure butterfly and provides food for a variety of bird species.
Sweetgum Liquidambar styraciflua	Fast growing tree that is tolerant of wet soil conditions. Popular for use in landscaping.













2024 05 31

HABITAT RESTORATION NARRATIVE I WETLAND CREATION





ACTIVE USE / RECREATION CONCEPTS











ACTIVE USE / RECREATION AREA | CONCEPT 1

2024.06.05



ACTIVE USE / RECREATION AREA | CONCEPT 2

OPEN DISCUSSION

Reminder: Please Complete the Survey by Monday, June 17th!

https://forms.gle/tskjbiXXvuTgVF7J6







THANK YOU! Please send all inquiries and comments to the lake arbor civic association at

lakearborcivicassoc@gmail.com





live more, play more

JUNE 5TH, 2024