LANDMARKS COMMISSION APPLICATION

Complete all sections of this application, making sure to note the requirements on the accompanying checklist (reverse).

If you need an interpreter, translator, materials in alternate formats or other accommodations to access these forms, please call (608) 266-4635 City of Madison Planning Division 215 Martin Luther King Jr Blvd, Ste 017 PO Box 2985 Madison, WI 53701-2985 (608) 266-4635



Aldermanic District: 2

1. LOCATION

Project Address: 402 North Thornton Avenue

2. <u>PROJECT</u>

Project Title/Description:	Update to	Tenney Lago	oon Shoreline	Restoration	& Tenney	Park Bike	Path - Leg. I	D 37631

This is an application for: (check all that apply)

	neek un that apply)			Legistar #:	
□ Alteration/Addition to or Designated Landma	a building in a Local Historic D rk (specify)**:	istrict		-	
□ Mansion Hill	Third Lake Ridge	First Settlement		DATE STA	AMP
University Heights	Marquette Bungalows	🗆 Landmark			
□ Land Division/Combina or to Designated Landr □ Mansion Hill	ation in a Local Historic District nark Site (<i>specify)**</i> :	□ First Settlement	٦٢٨		
			DPCED USE ONLY		
	Marquette Bungalows	Landmark	CED U		
Demolition			DP(
□ Alteration/Addition to	a building adjacent to a Desigr	nated Landmark			
\Box Variance from the Histo	oric Preservation Ordinance (C	hapter 41)			
(Please contact the Hi. Other (specify):	/Rescission of Historic District I storic Preservation Planner for spe as of the shoreline biostabilization that w	cific Submission Requirements.)		Preliminary Zoning Zoning Staff Initial: Date: /	g Review /
Applicant's Name: <u>City of I</u>	Madison Parks Division	Company:			
Address: 210 Martin Luthe	r King Jr. Blvd, Room 104, Ma	adison, WI 53703			
	Street		City	State	Zip
Felephone: 608-261-4281		Email: <u>slerner@cityof</u>	madison	i.com	
Property Owner (if not appli	cant):	ча"			
Address:					
Property Owner's Signature	: hann	-	^{City} Dat	te: 9/18/14	zip 7
residential development of ove	ORDINANCE: If you are seeking approval c r 10 dwelling units, or if you are seeking as subject to Madison's lobbying ordinance (S	sistance from the City with a value of \$10	000 (includ	ling grants, loans, TIF or sir	milar

4. APPLICATION SUBMISSION REQUIREMENTS (see checklist on reverse)

the City Clerk's Office for more information. Failure to comply with the lobbying ordinance may result in fines.

All applications must be filed by 12:00 pm on the submission date with the Preservation Planner, the Department of Planning & Community & Economic Development, Planning Division, located at 215 Martin Luther King Jr Blvd, Suite 017. Applications submitted after the submission date *or* incomplete applications will be postponed to the next scheduled filing time. Submission deadlines can be viewed here: <u>https://www.cityofmadison.com/dpced/planning/documents/2019-LCMeetingScheduleDates.pdf</u>

In (PLICATION SUBMISSION REQUIREMENTS CHECKLIST: order to be considered complete, every application submission shall include at least the following information less otherwise waived by the Preservation Planner.
	Landmarks Commission Application w/signature of the property owner (1 copy only).
	Twelve (12) collated paper copies 11" x 17" or smaller (via mail or drop-off) of submission materials (see below).
	Electronic files (via email) of submission materials (see below).
	Narrative Description/Letter of Intent addressed to the Landmarks Commission, describing the location of the property and the scope of the proposed project.
	Photographs of existing conditions;
	Photographs of existing context;
	Architectural drawings reduced to 11" x 17" or smaller pages which may include:
	 Dimensioned site plans showing siting of structures, grading, landscaping, pedestrian and vehicular access, lighting, signage, and other features;
	Elevations of all sides showing exterior features and finishes, subsurface construction, floor and roof;
	Floor Plan views of levels and roof;
	□ For proposals of more than two (2) commercial or residential or combination thereof units, a minimum of two (2) accurate street-view normal perspectives shown from a viewpoint of no more than five (5) feet above existing grade.
	** Landmarks Commission staff will preliminarily review projects related to the construction of additions and/or new construction with Zoning staff in order to determine the completeness of the submission materials. Applicants are encouraged to contact Zoning staff to discuss projects early in the process;
	Any other information requested by the Preservation Planner to convey the aspects of the project which may include:
	Perspective drawing
	Photographs of examples on another historic resource
	 Manufacturer's product information showing dimensions and materials;
	Other
	ONTACT THE PRESERVATION PLANNER: ease contact the Preservation Planner with any questions. City of Madison Planning Division 215 Martin Luther King Jr Blvd, Suite 017 PO Box 2985 (mailing address)

Madison, WI 53701-2985

landmarkscommission@cityofmadison.com

(608) 266-6552

Project Narrative

Background

In 2015 the City of Madison received approval from the Wisconsin State Historical Society for Tenney Lagoon Shoreline Stabilization and Restoration. This project stabilized and improved the shoreline at the park, while maintaining the park's historic significance and intended style of landscaping as a property registered on the National Register of Historic Places.

This shoreline restoration project included approximately 7,000 feet of eroding shoreline around Tenney Lagoon. The shoreline was stabilized with four treatments: vegetated buffer, coir log revetment, cut limestone steps, and turf reinforcement. The biostabilization plantings associated with the vegetated buffer and coir log installations included primarily native forbs and sedges, as well as woody species reflective of the original historic planting plans by O.C. Simonds and John Nolen.

Vegetated Buffers

Vegetated buffers were installed where the shoreline was either turf grass or invasive vegetation. The vegetated buffer extended through the ordinary high water mark, and into the lagoon. These areas were vegetated with native, herbaceous plants that are better suited for a shoreline than turf grass. The deeper and more vigorous root systems of the native, shoreline plants were planted to anchor non-cohesive soils. These areas were planted with herbaceous plants as well as shrubs.

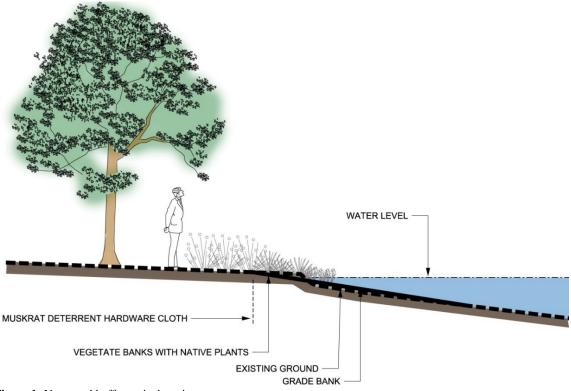


Figure 1: Vegetated buffer typical section.

Coir Logs

Areas where an eroding shoreline is backed by valuable vegetation, efforts were made preserve the vegetation. Instead of removing vegetation and grading the shoreline to a stable slope, coir log was placed in the lagoon a short distance from the eroded shoreline. The coir log was placed at or very near the ordinary high water level. The coir log revetment was planted with herbaceous plants as well as shrubs.

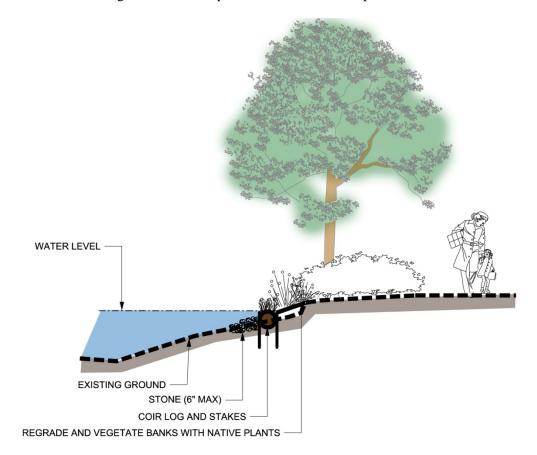


Figure 2: Coir log revetment typical section.

The plantings were installed in 2016 by Eco-Resource Consulting, Inc. an ecological restoration company that specializes in native plant communities. These plantings were maintained in 2017 by this same company. Maintenance included watering, mulching, as well as invasive species management, to protect the newly planted shoreline from being overtaken by invasive species. Eco-Resource Consulting, Inc. was also hired to perform a prescribed burn to help manage invasive species.

In 2018, this area was included as part of a city-wide Invasive Vegetation Control and Maintenance of Native Seed and Plants contract. This contract was awarded to Quercus Land Stewardship Services, LLC, an ecological restoration company. As part of this work, Quercus Land Stewardship Services continued removal of invasive species, and supplemented areas of biostabilized shoreline with native plants and seed.

In August 2018, after three years of plant establishment, the City of Madison experienced prolong flooding conditions. Tenney Park experienced significant damage related to the flood and many parts of the park were under water for several weeks.



Photos of Tenney Park under water during 2018 flood.

On October 19, 2018 FEMA announced that federal disaster assistance would be available to supplement state and local recovery efforts for damage caused by the severe storms between August 17 and September 14, 2018.

Proposed Replanting

The City of Madison will be replanting damaged sections of the shoreline in 2020. Plants proposed for the biostabilization are identified in the this narrative and the included plans. Although native herbaceous biostabilization is not specifically called for in either O.C. Simond's or John Nolen's planting plans, it is consistent with the Prairie School of Architecture that influenced early landscape architects. It is also necessary to provide shoreline erosion control due to anticipated increasing storm events. The below planting list differs slightly from the original planting installed in 2015, it includes more species that are flood tolerant and can thrive in wetter soil conditions, which should have a higher survivability for future flooding events.

Areas along the shoreline where woody shrubs perished due to prolonged flooding, will be replaced with the follow species of shrubs. The below list of shrubs includes species and/or species and genus that were included on John Nolen's planting plans including Viburbum, Ilex verticillata and Sambucus Canadensis. The John Nolen planting includes more detailed planting information that the O.C. Simonds Plan.

SHRUB PLANTINGS				
BOTANICAL NAME	COMMON NAME			
Aronia melanocarpa	Black Chokeberry			
Aronia melanocarpa 'IROQUOIS BEAUTY'	Iroquois Beauty Chokeberry			
Cephalanthus occidentalis	Buttonbush			
llex verticillata 'Nana'	Red Sprite Winterberry			
llex verticillata 'Jim Dandy'	Jim Dandy winterberry			
Sambucus canadensis	Elderberry			
Viburnum trilobum 'Redwing'	Redwing American Cranberrybush			

Areas for herbaceous replanting will be replanted with the below species. An unfinished master plan by John Nolen prepared in 1908 calls out that the entire island of the lagoon as "BROAD MEADOW". The majority of the native Wisconsin herbaceous plants below would be appropriate for a meadow planting.

HERBACEOUS PLANTINGS FOR WET MESIC, COIR LOG AND WETLAND EMERGENT PLUGS			
BOTANICAL NAME COMMON NAME			
Forbs			
Acorus calamus	Sweet Flag		
Alisma trivale	Water Plantain		
Alisma subcordatum	Mud Plantain		
Anemone canadensis	Canada Anemone		
Ammannia coccinea	Scarlet Toothcup		
Asclepias incarnata	Swamp Milkweed		
Bidens cernua	Nodding Bur Marigold		

Dottorind Data StoresTable PACHCalla palustrisWild CallaChelone glabraTurtleheadEupatorium maculatumJoe Pye WeedEupatorium perfoliatumBonesetIris versicolorBlueflag IrisLiatris ligulistylisMeadow Blazing StarLiatris spicataDense BlazingstarLobelia cardinalisCardinal FlowerLobelia i siphiliticaBlue LobeliaMimulus ringensMonkey FlowerRudbeckia trilobaBrown-eyed SusanPedicularis lanceolataSwamp LousewartPolygonum amphibiumWater SmartweedPycanthemum virginianumMountain MintPhysostegia virginanaObedient PlantSagitarria latifoliaArrowheadSolidago ridelliiRiddell's GoldenrodSymphyotrichum novae-angliaeNewe England AsterVerbena hastataBlue VervainVeronicastrum virginicumCulver's RootCarex aquatilisWater SedgeCarex gracillimaGraceful SedgeCarex gracillimaGraceful SedgeCarex tipataAwl-fruited SedgeCarex tipataAwl-fruited SedgeCarex nuskingmensisPalm SedgeCarex nuskingmensisPalm SedgeCarex strictaTusock SedgeCarex strictaTusock SedgeCarex strictaTusock SedgeCarex strictaTusock SedgeCarex strictaTusock SedgeCarex strictaEleocharis obtusaBlunt Spike RushBlunt Spike Rush	Boltonia asteroides	False Aster
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Carex lupulinaCommon Hop SedgeCarex muskingmensisPalm SedgeCarex stipataAwl-fruited SedgeCarex strictaTussock SedgeCarex vulpinoideaFox SedgeChasmanthium latifoliumRiver Oats		Lake Sedge
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Carex stipataAwl-fruited SedgeCarex strictaTussock SedgeCarex vulpinoideaFox SedgeChasmanthium latifoliumRiver Oats	Carex muskingmensis	
Carex strictaTussock SedgeCarex vulpinoideaFox SedgeChasmanthium latifoliumRiver Oats	-	Awl-fruited Sedge
Carex vulpinoideaFox SedgeChasmanthium latifoliumRiver Oats	•	
Chasmanthium latifolium River Oats	Carex vulpinoidea	<u> </u>
Eleocharis obtusa Blunt Spike Rush	•	
	Eleocharis obtusa	Blunt Spike Rush
Eleocharis acicularis Needle Spike Rush	Eleocharis acicularis	Needle Spike Rush
Eleocharis palustris Common Spike Rush	Eleocharis palustris	Common Spike Rush
Glyceria striata Fowl Manna Grass	· · · · ·	· · ·
Juncus effusus Soft Rush		
Juncus torreyi Torrey Rush	Juncus torreyi	Torrey Rush

Scirpus atrovirens	Green Bulrush
Scirpus pungens	Three-square Bulrush
Sparganium americanum	Bur Reed

In addition to installation of the plants described above. This project will include supplemental seeding of wet mesic native species along the shoreline at locations identified on the plan and will include primarily the seeds of herbaceous plants identified above.