# Sunset Park Master Plan

January 16, 2019

## Prepared By



City of Sturgeon Bay



**Foth** 

**Applied Ecological Services** 

Foth Infrastructure & Environment

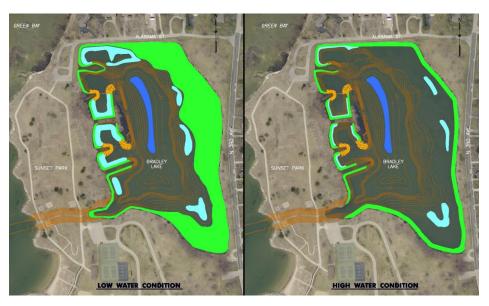




## Project Background

The master plan for Sunset Park was first instigated in 2016 following plans to remove sediment accumulation and to create additional aquatic habitat for native species by dredging Bradley Lake. While this work is being completed, parts of Sunset Park will be disrupted. The master plan that follows looks at future improvements that capitalize on the dredging project while improving circulation, landscape aesthetic, wildlife habitat, stormwater treatment, and recreational amenities for the residents and visitors to Sturgeon Bay.

The two plans below to the left provide an example of designed topography and aquatic plant vegetation zones associated with the dredging project that will re-establish the fish hatchery and optimize shoreline restoration. The aerial below to the right provides existing conditions of stormwater detention wetlands that were a separate project and recently installed as the first natural area in the park.





## Goals and Objectives

#### Goals for Bradley Lake Work

- Improve water quality
- Create fish habitat & fishing nodes
- Paddle access to and from Bradley Lake and Bay
- Discourage invasive species such as phragmites and carp
- Able to be permitted and funded
- Design improvements to attract multiple funding sources (water quality, habitat, parks and rec, boating access, etc.)

#### Purpose of the Master Plan

- Inform future planning and implementation
- Assess opportunities and constraints
- Identify community goals
- Incorporate recent completed projects at park
- Implement phased planning strategy
- Leverage dredging momentum to advance the above goals

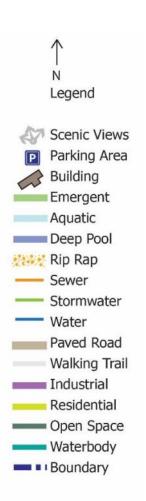
# Existing Conditions



## Opportunities & Constraints



## Bradley Lake Improvements





#### **Opportunities**

- Great views of Sturgeon Bay and Bradley Lake
- Opportunities to enhance connections to water
- Flat terrain allows for a variety of improvements including reorganizing circulation system
- Space to grow and improve walking trail network
- Some nice old trees and existing vegetation
- Underutilized lawn can transform into native plantings to improve habitat and lower maintenance costs

#### Constraints

- Disconnected and confusing circulation system
- Limited network of trails
- Minimal room on north side of park for trail connection
- Shipbuilding yard is a hard edge to the south that is a source of noise and industrial views but also a connection opportunity
- Playgrounds are outdated and not accessible to those with disabilities
- Beach is shrinking with higher water levels
- Bradley Lake channel connection could divide park
- Plethora of dying ash trees

## Public Participation

Public participation has been a vital element to providing a complete master plan vision for Sunset Park. In collaboration with the City of Sturgeon Bay, two public meetings were held at City Hall to present ideas and gain feedback for the parks future. The first meeting was an open charrette where attendees voted on ideal amenities and outlined past, current, and future elements the park can accommodate.

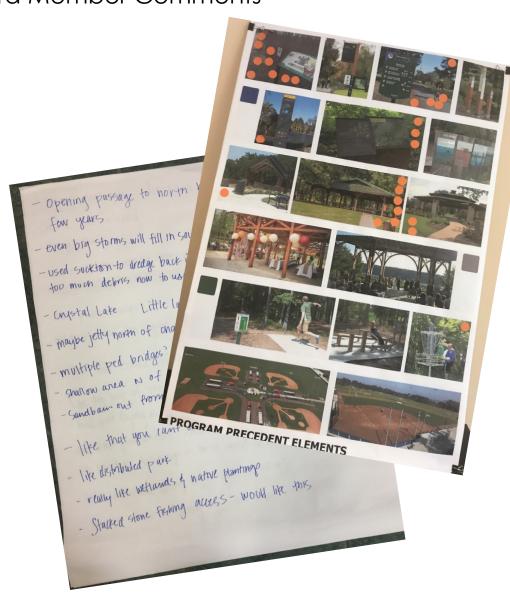
The second meeting was a public presentation to the City Council, Parks & Recreation Board, and community members of a draft master plan with several phased options for attendees to review. This meeting provided attendees with the first interpretation of Sunset Park's overall vision that was then finalized based on public review.

The following slides provide outlined notes of public comments from both meetings.

## Master Plan Public Charrette

October 25, 2017
Public and Board Member Comments

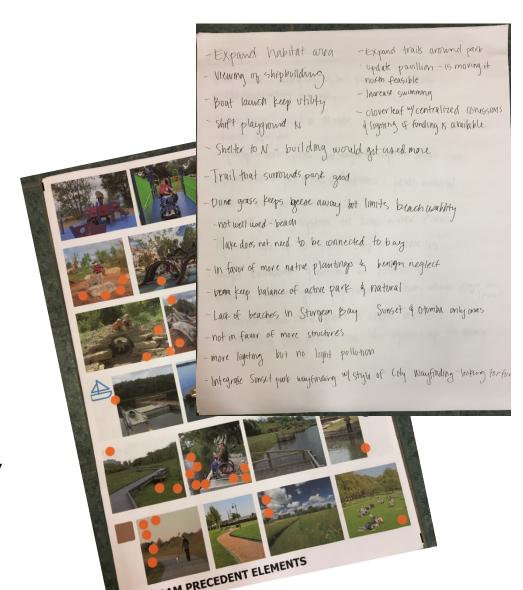
- Preference to expand natural areas with a balance between a nature conservancy and traditional recreational park.
- Provide a trail that surrounds the entire park with new seating areas.
- Update the existing pavilion with upgraded amenities
- Provide a new enclosed pavilion in the north area of the park for year-round events. Enhance existing Bay overlooks for sunset viewing and water access.
- Highlight the beach drawing locals along with visitors from northern and southern Door County.



#### Master Plan Public Charrette

October 25, 2017
Public and Board Member Comments

- Reconfigure the ballfields into a cloverleaf layout with new lighting and concessions.
- Upgrade playground equipment to ADA standards and incorporating nature play zones.
- Provide educational signage or incorporate into the City wayfinding plan.
- Accentuate Sturgeon Bay ship building history with an overlook from the park into neighboring ship yard.
- Debatable measure whether opening the lake to the bay may allow invasive species to enter the lake and impact overall water quality.



## Master Plan Draft Public Meeting

March 28, 2018
Public and Board Member Comments

- Preference toward keeping the north park passive recreation and the south area recreation based.
- Limited agreement for expense of adding second event pavilion.
   Favor in renovating existing pavilion.
- Updated central playground and addition of nature play amenities is favored.
- Create a higher overlook to accommodate ship yard viewing for all ages.
- The boardwalk features and tea house create great passive experiences for park users.



#### Master Plan Overview

The Master Plan is divided into two phases and an alternate option. The first phase is associated with improvements aligned with dredging Bradley Lake and amenity enhancements heavily in favor of implementation by the public. This first phase focuses on the north area of the park ultimately creating a passive recreation experience with added naturalized area to improve wildlife habitat and organic stormwater management.

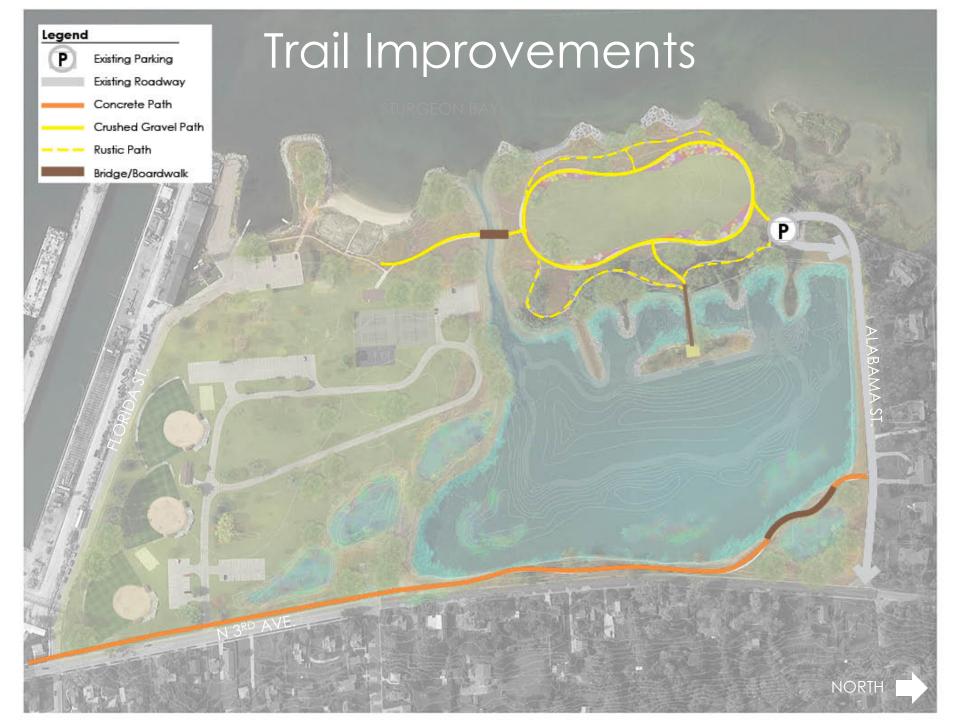
The second phase provides a complete vision for the park post construction of phase one.

Based on public interest in improving circulation and active recreation in the southern region of the park, phase two provides a central drive with expanded boat and vehicular parking.

The alternate park plan has been provided as an overall park vision with an intimate Bradley Lake sand beach and paddle craft launch without the channel open to Sturgeon Bay.

Each point of enhancement has an associated opinion of probable cost based on a magnitude of planning with a contingency reflecting implementation experience and current 2019 economic parameters. A cost range is provided for particular elements from low to high based on customizable elements.





## Trail Improvements



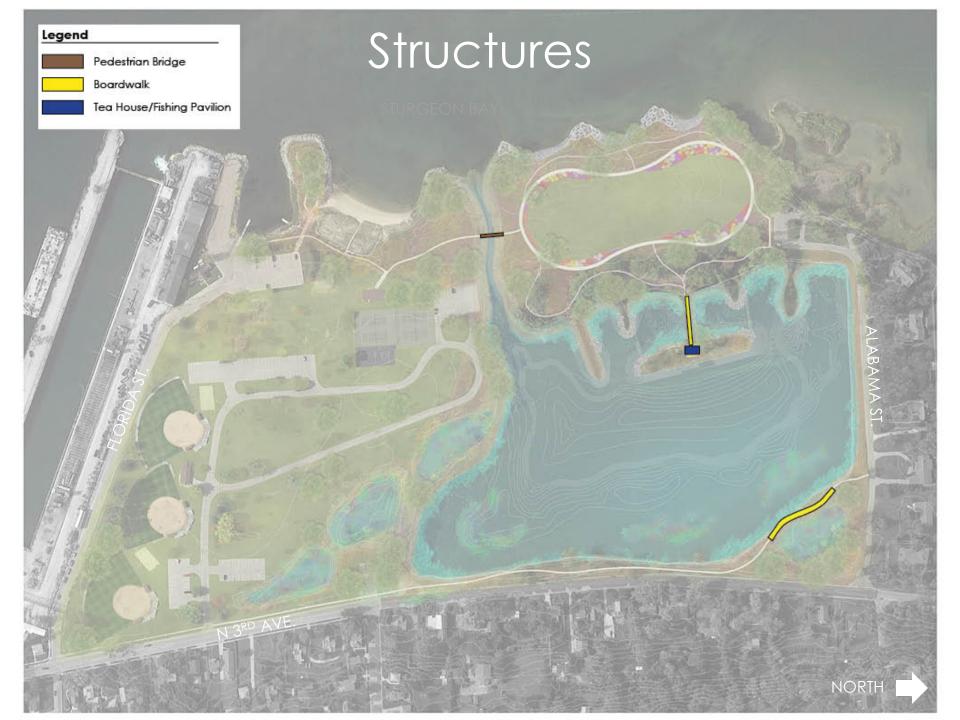








Trail Improvements	
Remove existing trails	
Install concrete walking paths	
Install gravel walking paths	
Install rustic trails	
	\$124,000.00



## Pedestrian Channel Bridge







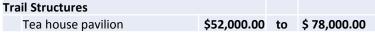
Structures			
Pedestrian bridge	\$146,000.00	to	\$ 219,000.00

#### Tea House/Fishing Pavilion









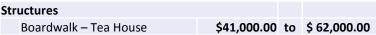


#### Tea House/Fishing Pavilion Boardwalk











#### Northeast Wetland Boardwalk





tructures

Boardwalk - Northeast Wetland \$128,000.00 to \$192,000.00









#### Landscape Enhancements









Landscape	
Trees of varying sizes throughout phase 1	
Shrubs and perennials in planting beds	
Emergent plants-lakeshore and channel	
Native seeding in naturalized areas	
Seeded turfgrass in active lawn areas	
	\$396,000.00





#### Northeast Wetland





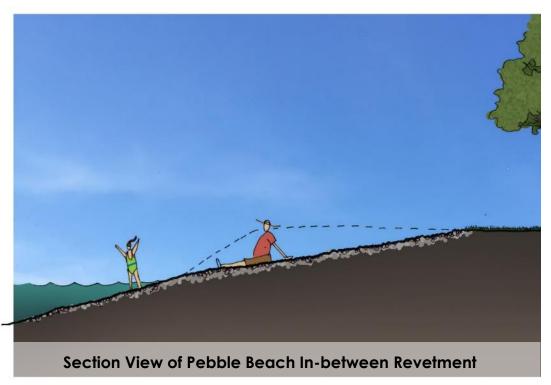
Northeast Wetland	
Earthwork for northeast wetland	
Native seed and erosion control	
Emergent plants	
	\$42,000.00







#### Pebble Beach Cove





Activity – Shoreline Revetment

Three pebble beach coves \$133,000.00









#### Stepped Stone Revetment





Activity – Shoreline Revetment	
Boulder/rip-rap revetment	\$122,000.00
Four stepped stone revetments	\$135,000.00







#### Fishing Access







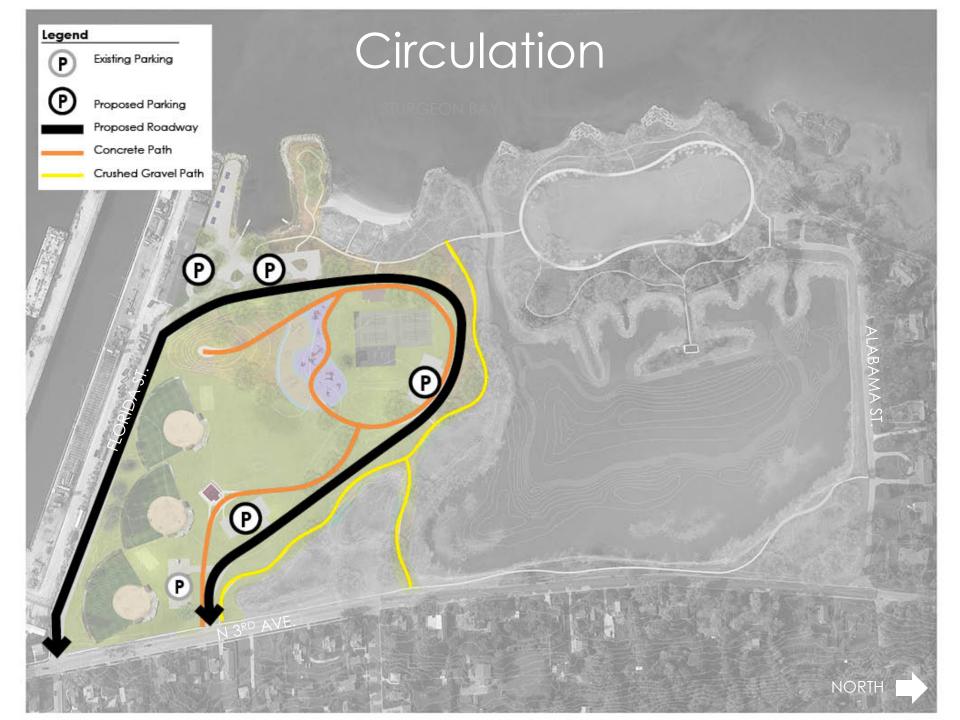
Activity

Four stepped stone fishing access points \$67,000.00



## Master Plan - Phase 2





#### Circulation

**Gravel Path** 









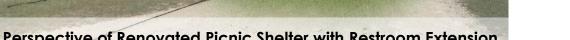
\$213,000.00

Install gravel walking paths

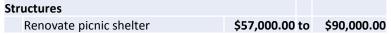


#### Renovated Picnic Shelter

















## New Concessions Building







Structures			
Demolish old concessions building			
New concessions building			
	\$312,000.00	to	\$468,000.00





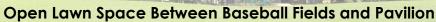


#### Landscape Enhancements















#### Landscape

Trees of varying sizes throughout phase 2 Shrubs and perennials in planting beds Emergent plants-lakeshore and channel Native seeding in naturalized areas Seeded turfgrass in active lawn areas

\$62,000.00



#### Overlook and Butterfly Sanctuary











#### Playground













Activity - Playground

Playground-soft surface play
Playground-nature play

\$390,000.00 to \$600,000.00
\$39,000.00 to \$60,000.00



#### Site Features











Activity - Site Features	
Benches	
Picnic tables	
Dog waste stations	
Trash receptacles	
Signage - wayfinding and interpretive	
Twenty kayak storage lockers	
	\$80,000.00

# Master Plan - Alternate STURGEON BAY

#### Sand Beach

















Activity - Shoreline Revetment	
Single pebble beach cove	\$170,000.00
Boulder/rip-rap revetment	\$91,000.00
Single stepped stone revetment	\$173,000.00
Activity - Sand Beach	
Sand beach	\$1,300.00



**Applied Ecological Services** 



Foth Infrastructure & Environment